

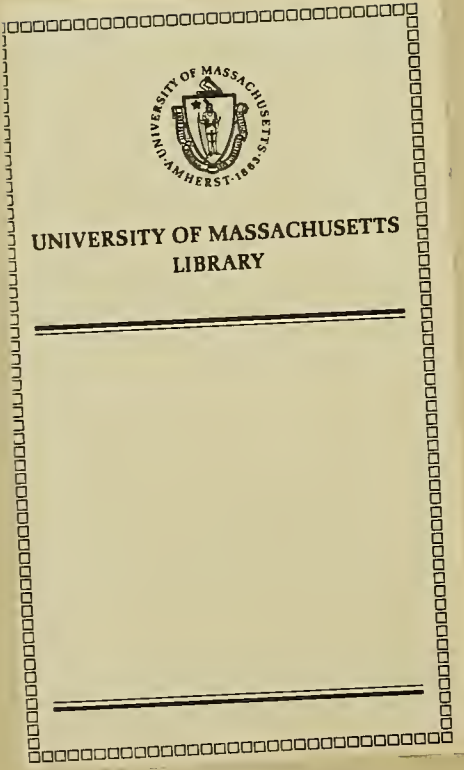
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The Florists' Exchange, Vol. XXIII, 1907

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1907

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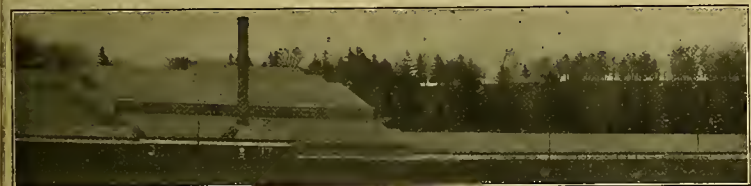
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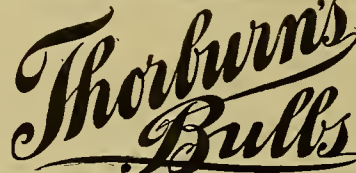
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Pure Culture Mushroom Spawn

Per 10 bricks \$1.50 Per 25 bricks \$3.50
 Per 50 bricks \$6.50 Per 100 bricks \$12.00

Fresh Tobacco Stems

In bales of 300 lbs. \$1.50.

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 Allegheny, Pa.
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Superfine Single Mixed
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Single Mixed Hyacinths. Freesias
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 IMPORTERS AND GROWERS OF HIGH GRADE

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Mignonette "New York Market"
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 Special prices on application

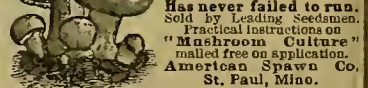
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Finest Valley in cases of 500 pips.



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 Produced by new grafting
 process from selected and pro-
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 Has never failed to run.
 Sold by Leading Seedmen.
 Practical instructions on
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The American Carnation

Price
 \$3.50
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Fresh Importation Mushroom Spawn
 Absolutely Reliable—Used by the Most Critical Growers
English Milltrack 10 lbs. 25 lbs. 100 lbs. 1000 lbs.
 75c \$1.50 \$6.00 \$55.00
Pure Culture Per Doz. bricks 25 bricks 50 bricks
 \$1.80 \$3.75 \$7.00
 Write for quotations on large lots. Cultural Directions sent with every order.
HIGH GRADE LILY OF THE VALLEY PIPS
 None Better Offered to the Trade
 Selected Hamburg for Forcing Per 100 Per 1000 Per case 2500 Pips
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New Crop Flower Seeds of the Highest Quality Ready
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 Herbert W. Johnson of the late firm of Johnson and Stokes, president
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Prize Strains

TUBEROUS ROOTED BEGONIAS
SINGLE, IN SEPARATE COLORS
 Doz. 100 1000
 Rose, white, scarlet, crimson, yellow, orange, salmon.
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 All colors mixed..... .30 2.25 22.00
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 In separate colors, or to name
 Pure white, fiery red, blue, red with white border, violet with white border..... .60 4.00
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CALADIUM, Fancy-Leaved
 In choicest sorts named, most brilliant colors..... 1.50 10.00
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 Augusta, white..... .40 2.50
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LILIUM LONGIFLORUM MULTIFLORUM
 7 x 9, extra choice stock..... .75 5.50 50.00
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 L. Rubrum, 8 x 9..... 1.00 7.00
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FERN BALLS (Postpaid)
 5 x 6 in..... Each Doz. 100
 25c. \$1.75 \$13.00
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REDUCED SPIREAS
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SOME SEED TO SOW NOW
 Salvia Bonifera (C. Bedman)..... Td. pkt. Oz.
 \$0.25 \$2.00
 Triumph Splendens (new)..... .40 2.50
 Phlox Drummondii Grandiflora..... .20 .50
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 Stocks, large flowering German..... .25 2.00
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ASPARAGUS PLUMOSUS NANUS (True)
 Greenhouse Seed..... 100 1000
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 Send for catalogue.

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 OUR SPECIALTIES: Onion, Lettuce, Sweet Peas
 Also Carrot, Celery, Celeriac, Cucumber, Endive, Leek, Mustard, Parsley, Parsnip, Radish, Salsif, Spinach, Tomato and FLOWER SEEDS
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PLANT CULTURE
 PRICE \$1.00.
A. T. DE LA MARE PTG. & PUB. CO.
 2 DUANE STREET, NEW YORK

Asparagus Plumosa (Nanus)
 GREENHOUSE GROWN, 100 seeds 60c.; \$2.75 for 500 seeds; 1000 seeds \$5.00; \$23.75 for 5000 seeds

Please do not compare this price with that of cheap out door grown seed, which is inferior and offered at tempting prices

Verbena Mammoth Fancy Strain
 In separate colors, blue, pink, scarlet, striped and white, 30c. per trade pkt., per oz. \$1.50. VINCA, carefully selected from choice plants. Alba, white with rose centre, trade pkt. 20c., oz. 60c.; Alba Pura, pure white, trade pkt. 20c., oz. 60c.; Rosea pink, trade pkt. 20c., oz. 60c.; Mixed all colors, trade pkt. 15c., oz. 50c.

CARNATION BANDS
 Used by all progressive florists to utilize bursted carnations; 1000 15c.; 25c. for 2000; 4500 50c.; 75c. per 7000; \$1.00 per 10000. All postpaid.

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A. J. Pieters Seed Company
 HOLLISTER, CAL.
 GROWERS OF

Vegetable and Flower Seeds
 Special attention paid to selected Stocks
 A. J. PIETERS, President and Manager, will visit the trade Dec.-Jan.
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 Seed Growers for the Trade
BEANS, CUCUMBER, TOMATO, Radish, Peas, Muskmelon, Squash, Watermelon, Sweet Corn.
 CORRESPONDENCE SOLICITED
 Write for Prices on Surplus Stocks for Immediate Shipment.
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GET THE BEST Mushroom Spawn
 English Milltrack made by "Barter" the best maker of spawn in England.
 PRICES
 Per 100 lbs.....\$6.00
 Per 1000 lbs.....\$55.00
 250 lbs. and over at the 100 lb. rate.
 Pure Culture Spawn made in America by the most reliable maker.
 PRICES—Per doz. Bricks \$1.80; per 25 Bricks \$3.75; Per 60 Bricks \$7.00.
 Dreer's Special Mushroom Circular Free.

HENRY A. DREER, 714 CHESTNUT ST., PHILADELPHIA, PA.
 Mention the Florists' Exchange when writing.

GLADIOLI
For Forcing
 All stock guaranteed to be as represented
 100 1000
 America, flesh pink.....\$10.00 \$75.00
 Shakespears, light..... 5.00 40.00
 Narcissus, red..... 3.50 30.00
 White and Light, mixed good..... 1.50 12.00
 extra..... 3.00 25.00
 250 at 1000 rate.
 8 per cent discount for cash with order.
JOHN LEWIS CHILDS, Floral Park, N. Y.

MANETTI STOCKS
\$9.00 per 1000
ELIZABETH NURSERY CO., ELIZABETH, N. J.
 Mention the Florists' Exchange when writing.

Seed Trade Report.
AMERICAN SEED TRADE ASSOCIATION
 Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

On December 23, 84 bags of seeds, valued at \$1,021, were shipped to Havana.

M. Philippe de Vilmoren of Paris, France, has just issued an instructive pamphlet, on the subject of "Theoretical and Practical Notes on the Selection of Seeds." It is printed in the French language.

The Maine Agricultural Experiment Station says: "Agricultural seeds must be true to name and carry a guarantee of the percentage of purity. Considerable poor and unguaranteed grass seed was sold in 1906. Such sales must cease."

SAN FRANCISCO, CAL.—Frederick Cleaves, for many years confidential man and head bookkeeper of the E. J. Bowen Seed Company, has been arrested, and is now in prison on a charge of forgery and a shortage in his accounts amounting to between \$6,000 and \$7,000, made by his former employers, by whom he had always been held in the highest esteem.
 ALVIN.

MITCHELL, S. D.—The Dakota Improved Seed Company, which was organized here several weeks ago, made the purchase of a valuable quarter section of land lying a half mile southwest of the university, which will be utilized in growing the seeds. The company will use this farm as the basis for its business, although it will contract with farmers in various parts of the State to grow seeds which will be acclimated with a view of supplying the southern, central, northern and western portions. In the Spring the company will begin active operations in its business.

FREE SEEDS.—It was stated by a member of the Agricultural Committee of the House, who is spending his vacation in Washington, that the committee would undoubtedly repeat its recommendation against the continuance of free seed distribution. It is felt that the practice cannot be discontinued without the greater effort on the floor of the House. Though the abuse amounts to considerable in the aggregate, the individual cases, whether real or fancied, are urged in a way to appeal to false sentiment of generosity toward the agriculturists; hence it is difficult even to laugh the practice out of existence.—N. Y. Commercial.

IMPORTS OF SEEDS.—December 24 and 25, 1906.—Maltus & Ware, 2 cases plants; 7 cases bulbs; H. Frank Darrow, 4 boxes trees; Peter Henderson & Co., 64 bushels seeds, 1 case seeds, 1 cask seeds; Andreas Olsen, 150 bags clover seed; T. C. Pollack, 13 cases lily of the valley pips; Schulz & Ruckgaber, 105 cases lily of the valley pips; L. J. Spence, 890 bags sugar beet seed; J. M. Thorburn & Co., 1 case seeds; W. Taat, 2 cases lily of the valley pips; Chas. F. Zentgraf, 267 cases seeds; C. A. Haynes & Co., 5 cases palm seeds; Busk & Jevons, 1 case plants; C. C. Abel & Co., 50 cases live plants; International Despatch, 1 case live plants; A. Rölker & Sons, 55 cases plants; H. Frank Darrow, 3 bags seeds; R. J. Godwin's Sons, 152 packages agricultural seeds; Kennedy & Moon, 10 bags seeds.
 December 26, 1906.—Peter Henderson & Co., 1 case cauliflower seed, 8



NEW CROP FLOWER SEEDS

Just Received New Crop Stocks in Fine Condition.
 Salvia "Bonfire," My own growing, Celebrated "Floracraft Strain." Trade pkt. 20c., per oz. \$2.00.
 Verbena (Mammoth) White, scarlet, purple, pink, mixed. Trade pkt. 20c., per oz. \$1.50.
 Phlox Drummondii Grandiflora, in separate colors. Trade pkt. 20c., per oz. 75c. Dwarf Compact, "Snowball" and "Fireball." Trade pkt. 20c., per oz. \$1.50.
 Asters, finest sorts, many of my own growing.
 Antirrhinum (Snapdragon) Giant white, garnet, pink, scarlet, striped, yellow, mixed. Trade pkt. 20c., per oz. \$1.50.
 My 1907 Market Gardeners' and Florists' Catalogues, also my General Retail Seed Catalogue for 1907 are now ready for distribution.
 See my new "Stokes' Standard" way of selling vegetable seeds.
IT IS DIFFERENT.

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

bags cabbage seed; Vaughan's Seed Store, 1 box seeds; Yokohama Nursery Co., 2 cases cabbage seed; Hensel, Bruckmann & Lorbacher, 19 boxes seeds; Brown Brothers & Co., 100 bags rape seed, 100 bags hemp seed, 300 bags poppy seed, 71 bags seed; O. W. D'Alcorn, 3 cases roots; Heidelbach, Ickelheimer & Co., 150 bags poppy seed; Lazard Freres, 25 bags poppy seed; Stump & Walter Co., 45 bushels grass seed; Zucca & Co., 319 bags cummin seed; J. Ter Kulle, 5 bags seed; F. E. Vandegrift & Co., 2 packages seed; Brown Bros. & Co., 3 bushels seed; G. Amsinck & Co., 120 bushels seed, 109 bushels roots; Pedro J. Seguin, 15 cases seed; J. W. Hampton, Jr. & Co., 18 cases plants; McHutchison & Co., 4 cases plants; Maltus & Ware, 3 cases plants, 2 cases roots; Henry Nungesser & Co., 150 bags clover seed; C. B. Richard & Co., 5 cases plants; Stump & Walter Co., 22 bushels flower seed; G. W. Sheldon & Co., 58 bushels seed; J. M. Thornburn & Co., 42 bushels flower seed, 1 case flower seed, 41 bushels garden seed; Chas. F. Zentgraf, 200 bags caraway seed.

December 27, 1906.—Mrs. F. A. Megay, a barrel roots; A. A. Zeimer, 85 bags seed, 165 bags fenugreek seed, 33 bags celery seed, 125 bushels seed.

December 28, 1906.—Amermann & Patterson, 14 packages plants; Peter Henderson & Co., 95 packages seed; Henry Nungesser, 400 packages seed; H. Frank Darrow, 157 packages seed, 22 packages plants; G. W. Sheldon & Co., 307 packages plants; F. B. Vandegrift Co., 109 packages plants; Silva, Bussenius & Co., 4 bags seed.

European Notes.

At the beginning of a new year one naturally makes good resolutions, and starts a diary. By way of a start, therefore, be it resolved that nothing whatever in the way of gloomy reports shall form part of these notes except under the strongest provocation. This will give the writer and readers a much needed rest.

The prospects for the coming year are decidedly encouraging. Warehouses are practically empty, and the contract demand from your side has shown a healthy expansion which betokens prosperity. The financial settlement of last season's liabilities has been one of the most satisfactory on record; and, if the belief that the free seed fraud is to be stopped proves to be well founded, our good friends in the States should have a chance to do some profitable trade.

H. Southporer of Port Hope, Ont., is in London, looking for pea contracts.

One of the London Bridge firms, Simpson & Slade, an offshoot from Jacob Wrench & Sons, has assigned during the present week.

Otto Putz of Erfurt has joined the ranks of authors in the realm of sweet peas. A long, instructive and interesting article from his pen appears in "Die Gartenwelt" for December 1 and December 8. Mr. Putz was a deeply interested visitor to the 1905 exhibition of the National Sweet Pea Society and has been one of the moving spirits in the exhibition held at Erfurt during the past year.

EUROPEAN SEEDS.

CATALOGUES RECEIVED.

ALBERT SCHENKEL, Hamburg, Germany.—General Catalogue of Seeds and Plants. Illustrated.

JOHN PEED & SON, West Norwood, London, S. E.—Illustrated Catalogue of Vegetable and Flower Seeds, etc.

IOWA SEED COMPANY, Des Moines, Ia.—The floral subject selected is a bunch of violets, after a painting by Paul de Longpre.

W. W. RAWSON & COMPANY, Boston, Mass.—Special Price List of Seeds for Market Gardeners, also Florists' Wholesale Price List. Handy and complete Booklets.

IOWA SEED COMPANY, Des Moines, Ia.—Thirty-seventh Annual Catalogue of Seeds, Bulbs, Plants, etc., with an interesting list of Novelties and Specialties. In addition to handsome cover designs, colored plates of various varieties of Corn and Flower Collections are furnished.

GERMAIN SEED COMPANY, Los Angeles, Cal.—General Illustrated Catalogue of Seeds, Bulbs, Plants, Supplies, etc. This firm, one of the oldest on the Pacific Coast, has in its 36 years of business watched the development of the seed industry in California. "Foreign countries, from which we formerly imported seeds are now becoming our best customers, being quick to realize the superiority of California seeds." From all of which comes the firm's motto: "California Seeds the World."

D. LANDRETH SEED COMPANY, Bristol, Pa.—Illustrated Catalogue of Vegetable and Flower Seeds, Field Seeds and Small Fruit Plants and Fruit Trees. The business of this firm and its predecessors has been in active operation in America for 123 years, running through the eighteenth, nineteenth and twentieth centuries, and testimonials from concerns who have used Landreth's seeds for periods ranging from 15 years downward, demonstrate the quality of the stock handled, as well as the firm's satisfactory business methods. The catalogue is very complete, as usual, and is profusely illustrated.

FREDERICK ROEMER, Quedlinburg, Germany.—Wholesale Catalogue of Flower Seeds. A list of novelties is included in the catalogue. Mr. Roemer directs especial attention to the annual Gladiolus Brecon. Of it he says: "It is not only that the seedlings produce fully developed flower spikes in the same year, when seeds have been sown early in the season, but also the following years the bulbs show the same luxuriant development. In the first year the bulbs grow to the size of those of medium-sized crocus, nevertheless these small bulbs show the same growth as those of the older classes of gladiolus plants that were grown from largest-sized bulbs, and most of these small bulbs produce 2 and even 3 fine large flower spikes. The second year the bulbs reach their full size, and planted in the following year, most of these bulbs produce 3 and 4 fine flower spikes."

WALTER P. STOKES, Philadelphia, Pa.—Catalogue of Vegetable, Farm and Flower Seeds Implements, etc., beautifully illustrated with half-tone cuts. In his greeting Mr. Stokes says: "After twenty-five years of honorable and successful seed-growing and seed-selling, it seemed best to allow the firm of Johnson & Stokes to be dissolved by limitation. For all of that time, as a partner in the old firm and for the past several years its active business manager, I have given close personal application to every detail, both of the seed-growing and of the seed-selling, and in connection with this I have individually owned and operated the large and complete Floracraft Trial Grounds and Greenhouses which are situated at my home in Moorestown, Burlington County, N. J., where I have over 30,000 square feet of greenhouse glass, and over 10 acres of ground given over entirely to trials of new vegetables and

flowers and for testing the quality of the stocks which are sent to me by my various growers.

"It is my wish that the experience and practical knowledge thus gained may be of service to my customers not only through the medium of my circulars and catalogues, but through personal contact and personal correspondence."

BURPEE'S FARM ANNUAL.—When reviewing this welcome yearly visitor to our desk it has been customary for us to say that the standard of excellence seen in its predecessors has been fully maintained. The present year's issue, however, compels us to go a step further for the high standard of those which have preceded it has been exceeded, brought about by the largely increased number of pages devoted to half-tone illustrations direct from photographs, a feature of this year's Annual particularly enhancing and instructive. The usual excellent list of novelties is provided, among which special attention is directed to two new unique bush lima beans—Fordhook and the Burpee Improved. These cannot fail to be of great interest to gardeners generally. Then in flowers there is the new "Royal Race" of variegated-leaved tall nasturtiums—Variegated Queen and Variegated Crystal Queen—and the new dwarf nasturtium Golden Midnight. The firm maintains its interest in sweet peas; among the new kinds listed are Burpee's "Brilliant-Blue," a "true deep Oxford blue, the tips of the wings showing bright cyan blue tint," Paradise, an improvement on the well-known Countess Spencer; Evelyn Byatt and Phyllis Unwin. The cover designs depict in colors Burpee's "Earliest Pink" tomato, new early Globe onion, Golden Bantam sugar corn, and true Southport Red Globe onion. In other points the Annual shows its usual completeness and instructiveness, being profusely illustrated.

In connection with several of this year's novelties, Burpee has used the expression "New Creations." In justification of which he quotes the subjoined letter from Luther Burbank, who has formerly employed that designation: "As to the words 'New Creations,' all that is necessary for anybody to educate themselves up to the use of it will be to look in any dictionary. It is simply old-fashioned bigoted ignorance that objects to it under these circumstances. As to Nature's making hybridizations, I have just given a course of lectures at Stanford University on that and similar subjects, and I want to say right here that Nature is and always has been trying experiments. Ninety-nine out of every one hundred are absolutely flat failures and are rejected. The one-hundredth survives, and makes a new species. Now, Nature cares no more for a man than she does for a hen or a plant, so she never creates them for his special use. She leaves that for man to do for himself. I am doing that as are many others, and though I may be self-confident I can readily prove that my experiments in new creations are fully as successful as those of Nature herself. "Your two new bush Lima beans interest me extremely. They may not necessarily be a late hybridization. They may be latent tendencies brought out by environments, as you of course may know."

TREE SEEDS

Send to-day for our Trade Price List and our Illustrated, Descriptive Catalogue Otto Katzenstein & Co., Atlanta, Ga.

Mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

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

JUST RECEIVED FROM OUR HOLLAND NURSERY

Rhododendrons, Azaleas, Spiraea Japonica, Lillium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Sphagnum Moss and Cedar Poles

Moss, 5 barrel bala, \$1.25; 2 bales, \$2.25; 6 bales, \$5.00; bales, \$8.50. Pot, 2 in. dia, 8 in. high, \$1.00 per 1000; 3 in. dia, 10 to 12 feet long, \$2.50 per 1000.

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

SEND TO
THE MOON
 COMPANY
 For TREES, SHRUBS, VINES
 Your and SMALL FRUITS
 Descriptive Illustrated Catalogue Free
 THE WM. H. MOON CO.
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Hollandia NURSERIES **BOSKOOP, HOLLAND**
 Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangea, Peonies.
 Pot-Grown Plants for Forcing.
 RHODODENDRONS, H. P. ROSES, Etc.
 Catalogue free on demand.

LARGE TREES
OAKS AND MAPLES
PINES AND HEMLOCKS
ANDORRA NURSERIES
 WM. WARNE HAREZ, PROPRIETOR
 Chestnut Hill, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

H. DEN OUDEN & SON,

BOSKOOP, HOLLAND.

Wholesale growers of nursery stock for the American trade. Catalogue free on demand. Also views in our nurseries. Mention the Florists' Exchange when writing.

Trees and Shrubs

We make specially low prices on nursery stock to Parks, Cemeteries, etc. Wholesale price list on application. We carry immense quantities of the finest named varieties of peonies.

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505 W. PETERSON AVE. CHICAGO, ILL.
 Mention the Florists' Exchange when writing.

Specimen Nursery Stock

DECIDUOUS TREES AND SHRUBS, EVERGREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties. Send for price list.

COTTAGE GARDENS COMPANY

QUEENS, LONG ISLAND, N. Y.

1907 Florists' Directory

THE AMERICAN FLORIST

Directory is now ready for distribution. It contains 475 pages, including complete lists of the Florists, Seedsmen and Nurserymen of the United States and Canada, arranged both by states and towns and all names alphabetically. Also lists of Foreign Merchants, Firms which issue catalogues, Horticultural Supply Concerns, Parks, Cemeteries, Landscape Architects, Experiment Station Horticulturists, Botanical Gardens and other invaluable trade information.

Price, \$2.00 Postpaid

Address

A. T. DeLaMare Ptg. & Pub. Co.

Limited
 2 to 8 Duane Street, New York

Jan. 5, 1907

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
Orlando Harrison, Berlin, Md., president; J. W. Hill-Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

PLANTS AND SEED FOR NAME.—The "yellow balls" are the *Sapindus marginatus*, commonly called soap berry. Although a native of the South, growing from Georgia to Texas, it has proved hardy at Philadelphia. The berries are so beautiful it should receive more attention than it does. The other specimen with black berries appears to be the *Laurus carolinensis*, called red bay. It is also known under the name of *Persia carolinensis*. We are not as positive of this name fitting the specimen, but have little doubt of it. A specimen when in flower would settle it. J. M.

Horticultural Topics.

The sweet-scented, half-hardy rhododendrons that used to be met with in greenhouses in Winter are now rarely seen. A white one, Countess of Derby, used to be a favorite.

Magnolia cordata is rarely to be met with in cultivation. It is the only yellow of all known magnolias. Others have shades of yellow, *Fraseri* for one; but none equals *M. cordata*. This can be increased by budding or grafting it on the acuminata or tripetala stock. Tripetala is preferred as better than acuminata for transplanting.

Polyanthuses succeed very well outdoors all Winter if a thickness of forest leaves is placed over them in early Winter. Under trees, where leaves cover them naturally, is a good place for them.

Our native flame-colored *azalea*, *A. calendulacea*, varies in the color of its flowers from flame to yellow and dark pink. It is the parent of many of the beautiful kinds in cultivation. It has been suggested that many of the wild azaleas are natural hybrids between *calendulacea* and *nudiflora*.

Papaw is the proper spelling of the name of this tree. It is sometimes spelled pawpaw, perhaps because it is generally so pronounced. It is a popular belief that some trees are infertile, but botanists do not recognize that any are.

Whether it be single specimens or hedges of evergreens, early in Spring is a good time to prune them. Although some evergreens will push afresh from old wood, not all will, and the safe plan is not to prune below the live foliage. Spring pruning encourages strong growth; when pruning is done in Summer it promotes bushiness.

Frost is not necessary to the perfecting of persimmon fruit, as so many persons think it is. It simply hastens decay, which ripening is the commencement of. In the South, where freezings do not occur, or if they do it is late in the Winter, the persimmon ripens to perfection when given time.

Propos of the discussion on the hardiness of the various eucalyptus trees, although it is certain there are none of them hardy in a way to admit of their being grown as timber trees excepting in a few favored States where but little frost prevails, there is one, *E. ficifolia*, which bears scarlet flowers of much beauty, making a handsome species for a conservatory.

The trouble with walnuts and hickory nuts not growing when sown in Spring, as so many persons claim exists, comes from the failure to preserve them damp all Winter, as should be done. They need to be in damp soil from within a short time of their ripening until sown in Spring.

Trees in Wet Ground.

A neighbor who had a large grove of trees growing in a low situation through which a stream of water ran, conceived the idea that his grounds would be greatly benefitted could he cut wide ditches through the group, dam up the stream to some extent, that the wide ditches would fill with water, making several small islands of his group of trees, the several islands to be connected by rustic bridges. Those who saw him at work and noticed the result after it was completed, contended that the trees would not survive; that the water was above the level of the roots which would kill the trees. The trees were about 20 feet high. The work was completed in Spring, and as predicted the water killed the trees, all being dead by Autumn. It remains to be said that the one who did the work was not a gardener. Had he been he would have known better. It was a good lesson for all who saw it. It is true, large trees are often seen where water is but a few inches under ground, but these trees have grown on in this position from their seedling sizes, and examination would show that their roots penetrated no deeper than the soil on the top which the water did not reach. This can be seen often where large trees in low grounds have blown over in gales. Full grown trees are occasionally seen of this description in which the exposed roots thrown high by the prostrate trunks, show no more than a foot in depth, while of a spread of some 12 feet in circumference.

The neighbor referred to, or any one else in a similar case, could have trees on his islands were he to set out small ones, for these would not extend their roots below the water line. If the ground be but a foot higher than the level of the water, it will do. It is not the season now for the planting of trees, but it is for the formation of islands, hence these notes at this time.

Where Aucubas are Hardy.

In a nursery catalogue of a Pennsylvania firm now before us mention is made of the worthlessness of the *Aucuba japonica* for use indoors at Christmas time, and in connection therewith it is added that it is "hardy south of Washington." As advice to the public in a general way, this suggestion of its hardiness is very fair, as the plant might not survive the Winters in all situations north of Washington, nevertheless it will do so in Philadelphia when it is in a well-sheltered situation.

In the neighborhood of Woodland Cemetery, bordering the Schuylkill River, in a private garden, the *aucuba* grew and flourished for many years, and two years ago the plants were still there. In addition to the advantage the plants derived from their proximity to the river, they had the advantage of being near a dwelling and also of being in the midst of other trees and shrubs that gave them shelter. Any

Othera Japonica.

English horticultural papers occasionally refer to a desirable hardy evergreen shrub bearing red berries, the *Othera japonica*. This shrub is a near connection of the holly, and, in fact, has been classed as one by some botanists. It has small white flowers, as hollies have, and in Autumn and Winter carries red berries. This shrub was given a trial in Germantown, Pa., some years ago, and although but a small plant it proved hardy in sheltered places. When exposed it lost the immature ends of its latest growth. No doubt if larger plants, with hard wood, were set out in situations where thorough ripening of the shoots would result, it would pass through our Winters unscathed.

This evergreen is from Japan, and now that there is a marked increase in landscape gardening and planting work in the South, as nurserymen tell us there is, such a desirable evergreen as *Othera japonica* should be in demand. Nurserymen who look to supply Southern trade should procure this *othera*, at the same time remembering that it has stood the Philadelphia Winters when in a sheltered place.

Picea (Abies) Orientalis.

The *Picea orientalis* is catalogued by many nursery firms under its old name, *abies*; but in common use its name, *oriental spruce*, is employed

oftener than any other. It is one of the most elegant evergreens we have, hardy, fast growing and always of the darkest green color. It is a native of the Caucasus, and is therefore hardy almost anywhere in this country.

It is sometimes said by those not well acquainted with the trees that the *oriental spruce* resembles the *Norway spruce*; but to those fairly familiar with the two there is not the least trouble in knowing the one from the other. A glance at our illustration would enable any one to say it was not a *Norway spruce*. The growth is finer in every way, and the tree always taller in proportion to its spread at base than is the case with the *Norway spruce*. A specimen of *Norway spruce* of the height of this *oriental* would be as many as four feet wider at the base than this is.

Whenever a tall, pyramidal tree of evergreen character is required, no mistake would be made by planting an *oriental spruce*.

In the illustration before us this *spruce* is one of a group of evergreens interspersed with deciduous trees forming one of the boundary lines of the grounds of John T. Morris, Esq., Chestnut Hill, Philadelphia. It was photographed in early Spring; and, though the Winter was just over, it was as bright and green as if it had just completed fresh growth.

On old estates the tree is often conspicuous because of its comparatively lofty growth and narrow outline.

This *spruce* forms a great many roots, hence is not difficult to transplant. It does very well planted early in September, when a good watering is given it at the time. Early Spring is another good time for it, planting it as soon as the frost leaves the ground. It is a tree that does not push into growth early, so if set as soon as it can be in Spring, it has a chance to become established before the warm weather comes.



Picea (Abies) Orientalis

one possessing such plants for the Christmas occasion and desiring to plant them outside should keep them inside in a cool moist place until Spring, then plant them in the most sheltered place available.

Seedless Persimmons.

Of late we hear much of seedless persimmons as something desirable. No doubt as a single tree on a lawn such would be valued by those who like the taste of this fruit. It is not a fruit that could be cultivated for selling purposes. It is not in good condition for eating until after it has hung on the tree until dead ripe, at which stage it is too soft for shipping. If it could be gathered while yet lacking full ripeness and shipped to market in this state, it would probably sell to some extent; but shipping it in this condition is not practicable. Even the Japanese persimmon, a much superior fruit, is not adapted to be grown as one for distant shipping. To some persons the seedless persimmon is something new, but in files of the *Gardeners' Monthly*, 25 years ago, mention is made of such a tree. The late Judge Miller of Missouri had seedless persimmons many years ago. Such trees are met with now and again in a wild state, but their propagation seems little called for.

An Outdoor Climber for Summer.

A greenhouse climbing shrub sometimes seen as an outdoor one Winter and Summer in the south of England, is the *Physianthus albens*. In former years it was often met with in greenhouse collections here, and no doubt it is still to be found where collections are kept up.

As an outdoor plant for climbing purposes it used to be in great favor, making a growth of 10 feet in favorable places, and never failing to bloom profusely. The flowers are white, with a shade of pink, bunches of a half dozen or so coming from the axils of the leaves. They are quite large, in appearance not unlike those of a *campanula*, while belonging to the *asclepias* order. While not remembering having seen the name applied to it in print, greenhouse lads used to call it the "cruel plant" because it entrapped insects. If my recollection serves me right this entrapping came about through a sticky substance in the mouth of the corolla. At any rate, it is one of several other greenhouse plants that make admirable subjects for outdoor use in Summer, such as the *allamanda*, *stigmaphyllon*, etc.

The *physianthus* is propagated from cuttings made in late Winter. If grown on from the start they will flower the first Summer when planted outdoors.

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Buffalo.

Christmas Echoes. Everybody reports holiday trade exceptionally fine. Monday preceding Christmas naturally forced a lot of trade on the last day, and taxed the florists to their fullest capacity. December 23 and 24 the thermometer registered from ten to twelve degrees above zero, which made delivering with any expediency, very difficult.

W. J. Palmer reports business good, having had a large stock of azaleas, ardisias, poinsettias and cyclamen in plants, while in the cut flower line he carried a fine stock of roses, carnations, violets, lily of the valley, etc. Poinsettias seemed to sell best, bringing from \$1 to \$5 per plant; azaleas, from \$3 to \$10, and ardisias from \$3 to \$5. Carnations seemed to have the call in the cut flower line. L. H. Neubeck reports business excellent.

Mrs. Meyers, mother-in-law to L. H. Neubeck, died here recently. The local florists extend their sincerest sympathy to the family.

J. Benson of Palmer's upper store has been ill for the past two weeks with a severe case of grip.

W. J. Palmer has increased his delivery services by the addition of an automobile. W. H. G.

Philadelphia.

The meeting of the Florists' Club on Tuesday night, brought out quite a good attendance. The paper read by S. S. Skidelsky was worth going far to hear, and will no doubt be discussed far and near and we hope prove beneficial to the trade.

The general committee to manage the S. A. F. convention in August was appointed; this committee will soon hold a meeting and get matters into working shape. At the February meeting, John E. Haines will tell us what he thinks about the carnation exhibition at Toronto. S. J. Reuter, Westerly, R. I., was a visitor here this week. George Burton has suffered a great loss in the death of his wife which occurred on Christmas day. DAVID RUST.

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Strong Healthy Rooted Cuttings

- Robt. Craig, Victory, Helen Goddard, 1500 per doz.; \$6.00 per 100.
Red Lawson and Varigated Lawson, 75c. per doz.; \$5.00 per 100.
Boston Market, General Macco, Mrs. T. W. Lawson, Pink Armazudy, Queen Louise and Wm. Turner, 85c. per doz., \$3.00 per 100; \$25.00 per 1000.
Bancroftress, Lady Beautiful, Nelson Fisher and White Lawson, 50c. per doz.; \$3.00 per 100; \$25.00 per 1000.

WOOD BROTHERS, Fishkill, N. Y. Mention the Florists' Exchange when writing.

Notice is hereby given that the co-partnership heretofore existing between Jean Frederick Anderson and Thomas Peter Christensen, under the firm name of Anderson & Christensen, in the business of florists at Short Hills, N. J., has this day been dissolved; the said John Frederick Anderson having purchased the interest of said Thomas Peter Christensen and assumed all the firm's indebtedness.

DATED, December 29, 1906. The greenhouses are all stocked with good salable plants in first-class condition, and the business will be continued as if no change had taken place; and all every body is guaranteed the same fair treatment as in the past.

Respectfully, J. P. ANDERSON, Successor to ANDERSON & CHRISTENSEN, Short Hills, N. J.

CHANGES IN BUSINESS.

GUTHRIE, OKLA.—Furrow & Co. florists, has been incorporated, capital stock \$15,000; incorporators E. H. Furrow, E. E. Furrow and J. W. Furrow. PIQUA, O.—Herman G. Hershey, has sold his business to Frank Seibert of Wheeling, W. Va. Mr. Hershey will go to Denver, Col. His wife is unable to stand this climate.

FRANKLIN, MASS.—M. J. Van Leeuwen of the Continental Nurseries is planning the construction of an up-to-date greenhouse, also a show garden of specimen plants, and possibly opening up an office in Boston. A collection of every kind of shrub and evergreen hardy in this section will be grown.

SUMMIT, N. J.—Thomas Christensen, who has sold his interest in the firm of Anderson & Christensen, Short Hills, N. J., of which firm he was one of the partners, will, in the near future, build a range of glass in this neighborhood and grow palms and ferns for the trade. Mr. Christensen is an expert grower and will undoubtedly make a success of the cultivation of these two specialties.

SPRENGER SEED

10c. per 100; 60c. per 1000. Cash with order please. F. J. BAKER & CO., UTICA, N. Y. Mention the Florists' Exchange when writing.

FERNS

BOSTON, PIERSONI AND SCOTTII 4 in., 15c.; 6 in., 60c.; 7 in., 75c.; 8 in., \$1.00; 10 in., \$2.00 and 12 in., \$3.00.

WHITMANI, 2 1/2 in., 12 c.; 3 in., 25c.; 4 in., 60c.; 5 in., 75c. and \$1.00; 6 in., \$1.00 and \$1.25; and 7 in., \$1.50 and \$2.00.

ARAUCHARIA EXCELSA, and 80c.; 8 in., \$1.00 and \$1.25; 7 in., \$1.25 and \$1.50.

ARAUCHARIA COMPACTA, specimen, \$2.00 each.

BEGONIA GLOIRE DE LORRAINE, just right for Christmas. 3 in., 20c.; 4 in., 35c.; 5 in., 50c.; 6 in., 65c. **Ferns and Decorative plants of all kinds. Write for prices.** The largest grower of palms and ferns in Western Pennsylvania.

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

WHITMANI FERN

Large stock of strong plants, 2 1/2 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN

3 inch pots.....\$ 8.00

SCOTTII

2 1/2 inch pots.....\$ 5.00
4 inch pots..... 12.00

KENTIA FORSTERIANA

4 inch pots, made up, strong and bushy.....\$25.00
5 inch pots, made up, strong and bushy..... 50.00

No order for less than 10 plants accepted.

CHAS. H. CAMPBELL,
3601 GERMANTOWN AVE., PHILA., PA
Mention The Florists' Exchange when writing.

Holly FERNS

The best stock we have ever offered from 2 in. pots, fine bushy plants with every leaf perfect \$3.00 per 100.

ASPIDIUM TSUSSEMENSE, nice bushy plants in 2 in. pots 3c. Large plants 3 in. pots 5c.

ASSORTED FERNS, first-class varieties from 2 in. pots including a good proportion of the Holly Fern, \$3.00 per 100.

Liberal Count; Careful Packing; Prompt Shipments.

R. G. HANFORD, - NORWALK, CONN.
Mention the Florists' Exchange when writing.

5,000 FERNS THAT MUST BE SOLD.

In fine shape; low, stocky plants. **Bostons**, from 6 in 20c. from 6 in., 15c. **Piersoni**, from 6 in., 20c.; from 5 in., 15c. **Scottii**, from 5 in., 25c. 2,000 2 year old **Crimson Ramblers**, 3 to 4 ft., \$12.00 per 100. 2,000 field **Vinca Major**, variegated, from 4 in., \$5.00 per 100. 2,000 **Hydrangea Otaksa** and **Vinca Major**, variegated, 2 1/2 in., \$2.50 per 100. 10,000 **Carnas**, shrubs, vines, etc., low. List free. Cash please.

BENJ. CONNELL -- WEST GROVE, PA.
Mention The Florists' Exchange when writing.

BOSTON FERNS

Very fine bushy stock from 6 in. pots 60c.; 7 in pots \$1.00; 8 in pots \$1.50; 9 in. pans \$2.00.

FRANK N. ESKESEN, MADISON, N. J.
Mention the Florists' Exchange when writing.

Adiantum Farleyense

The Very Best Only

5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24 00 per dozen.

JULIUS ROEHR'S COMPANY
Exotic Nurseries Rutherford, N. J.
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Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round

JOHN SCOTT
Rotland Road & E. 45th St., BROOKLYN, N. Y.
Telephone 2930 Bedford.
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PLANT CULTURE

PRICE \$1.00.

THE BEST BOOK FOR THE PLANT CROWER.

A. T. DE LA MARE PTG. & PUB. CO. LTD., 2-8 DUANE STREET, NEW YORK

FERNS MY SPECIALTY

Please notice the big reductions. **Cibotium Schiedei**, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:

Strong plants from 2 1/2 in. pots, \$10.00 per 100, \$5.50 per 1000

3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100; 5 in., 60.00 7 in., 1.70 each.

10 in. Large specimen, \$5.00 each.

Adiantum Regina, a beautiful fern, also called the hardy Farleyense, 4 in. strong plants, \$25.00 per 100; 5 in. \$30.00 **Adiantum Rhodophyllum**, 4 in., \$20.00; 5 in. \$35.00 per 100. Assorted ferns for jardinières, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate.

J. F. ANDERSON

Successor to Anderson & Christensen,
SHORT HILLS, N. J.
Mention the Florists' Exchange when writing.

ELEGANTISSIMA FERN RUNNERS

Very fine stock, \$1 50 per 100; \$12 00 per 1000.

BOSTON, Bench, 3 in. 5c.; 4 in. 10c.

TARRYTOWN, Bench, 2 1/2 in., 4c.; 3 in., 10c.; 4 in., 15c.; 5 in., 25c. Runners \$1.50 per 100.

Flowering Begonias, 8 kinds, 2 in., 2 1/2 cts.

Geraniums, 2 inch, 5 fine kinds, \$2.00 per 100.

ROOTED CUTTINGS, prepaid per 100.

Paris Daley, white, yellow, \$1.00; **Alexandria**, \$1.25. **Fuchsias**, 5 kinds, \$1.25. **Ageratum**, white, **Gurney**, **Fauline**, 60c. **Vinca Variegata**, 90c. **Swainsona Alba**, \$1.00. **Donble Petunias**, 10 kinds, \$1.00; **Salvia Bonfire**, **Splendens**, 90c. **Alternanthera**, 3 kinds 50c. **Heliotrope**, 3 kinds \$1.00; **Flowering Begonias**, 8 kinds \$1.25.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa

Mention The Florists' Exchange when writing.

PALMS AND FERNS

Write for Price List.

The Geo. Wittbold Co.
1657 BUCKINGHAM PLACE CHICAGO
Mention The Florists' Exchange when writing.

FERNS & FERNERIES

From 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000.

Asparagus Plumosus and **Springeri**, 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000.

EVENDEN BROS., Williamsport, Pa.
Mention the Florists' Exchange when writing.

NEPHROLEPIS

Whitmani, 2 1/2 in., \$25.00 per 100.
Barrowsii, \$10.00 per 100.

Henry H. Barrows & Son, Whitman, Mass.
Mention the Florists' Exchange when writing.

FERNS and FERN SPORE

ALL BEST KINDS FOR FLORISTS.

Ferns from flats, ready for 2-in. pots, \$1.00 per 100, \$3.50 per 1000; from 2-in. pots, \$3.00 per 100. 3-in; \$6.00 per 100. All good plants.

Fern Spore, 35c per packet; \$4.00 per doz. pkts.

CASH WITH ORDER PLEASE.

EDWARD D. DROWN, WELDON, PA.
Mention the Florists' Exchange when writing.

KENTIA BELMOREANA

5 in., clean and bushy, 50c. and 75c. each. 2 1/2 in., for center of fern dishes, 10c. each; \$9.00 per 100.

SCOTTII FERNS, 6 in., 40c.
DRACAENA INOVIDIA, 6 in., 35c.
FERNS FOR JARDINIÈRES, etc., \$3.00 per 100

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

ROBERT CRAIG & CO. ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts. PHILADELPHIA. PA.
Mention The Florists' Exchange when writing.



Rose Troubles.

(1) After putting new board benches in one of our rose houses last Summer, we were told by a "grower" to paint them with crude oil, as it would preserve the wood and make the benches last twice as long as without it; and as lumber is high, and going higher, we did the painting. The second day after we applied the oil we put in the soil and planted the roses. They started off nicely and grew well until about the first of November, when they began to take on a stunted look and are still in a sort of sleepy mood, losing a number of the bottom leaves and all their usual vigor. We lay it to the crude oil. Do you think that could be the cause? KING.

—We do not believe that the painting of the boards with crude oil has anything to do with the present condition of the rose plants. The weather since November has been anything but favorable for the culture of roses, and we are rather of the opinion that lack of sunshine and perhaps insufficient temperature during the cold weather, are more than anything else the cause of the stunted appearance of the plants. Give the roses the best treatment possible in regard to temperature, watering, etc., and they will, no doubt, come out all right as soon as we get a little more sunshine.

I am having some trouble with my roses, so am sending one for your inspection to see if you can tell me what is the matter, and perhaps give me a remedy for the trouble. The plants grew well until a few weeks ago when they commenced (in different parts of the bench) to turn yellow. They still continue to grow, but very weakly, and eventually drop their leaves and die. The old foliage on the plants keeps green, but the new growths are quite yellow when they show the first signs of going. I have wondered whether it could be club root; if so, what are some of the causes of it? C. S. B.

—Just what is the trouble with the roses in question we are unable to determine from the specimen sent. We are positive, however, that it is not club root. We are inclined to think, that the benches are not watered to their full depth when water is given, and would suggest that when water is applied, enough of it should be afforded to saturate the soil clear through to the boards, so that the lower roots are sure of not getting into a too dry condition. We believe that this is the fault, but as we said before, we cannot be positive from the meager information supplied regarding their previous treatment.

Time to Sow Seeds.

(2) When is the proper time to sow seeds of Phlox Drummondii, salvia, verbena, Ten-week stocks, etc., to have the plants in bloom about May 15? New Jersey. BEGINNER.

—To have the plants mentioned in flower by May 15, we would make the sowings of seed as early in January as possible. The stocks might come on a little too early, but if it is seen that such is the case, they can be retarded slightly; at all events, it will be better to have them a little too early than run the risk of having them too late.

Carnations.

(3) I send you some foliage from a carnation plant—Flora Hill. The plants are in a moderate sandy soil and do not seem to thrive. They were late purchased plants, and have not done any good so far. Can you give me a good formula for feeding them? We planted them in a bench where chrysanthemums had been previously growing, adding a little well-rotted manure to the soil. BEGINNER.

New Jersey.

—The carnation plant sent for examination was not suffering from any disease, but from being in a too poor soil. It was a mistake to plant the carnations in the same soil in which

a crop of chrysanthemums had been grown. We would recommend giving the carnations a watering with lime water, then in three or four days start to feed them with liquid manure, affording light applications about once a week.

Referred to Our Readers.

We desire to purchase an injector for applying carbon bi-sulphide about 12 inches into the soil. Also copper plant labels, for the permanent labeling of trees and plants. If you can give us information as to where to secure these goods, it will be appreciated. THE GRIFFING BROS. COMPANY, Little Silver, N. J.

COCOS PALMS.

Strong 2 1/2 inch at \$1.50 per dozen. Write for lowest prices on Kentias.

Jas. F. Barclay R. I. GREENHOUSES Pawtucket, R. I.
Mention The Florists' Exchange when writing.

ORCHIDS

Arrived in fine condition, **Cattleya Harrisoniae**, **C. Intermedia**, **C. Gigas**, **C. Trianae**, **Speoculopsis**, **C. Leopoldii**, **Laelia Purpurata**, **Oncidium Varicosum Rogersii**, **C. Mayshallianum**, **Phalaenopsis Amabilis** and **P. Schilleriana**. Write for prices.

LAGER & HURRELL, Summit, N. J.
Growers and Importers
Mention The Florists' Exchange when writing.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.

Sander, St. Albans, England
and
235 Broadway, Room 1, New York City

Mention The Florists' Exchange when writing.

Araucaria Excelsa

16 to 18 inches High, 4 to 5 Tiers, 50 cents each; \$5.00 per dozen.

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

Chrysanthemums

STOCK PLANTS

Testoni, Nonin, **White Shaw**, **The Baby**, \$1.50 per doz., \$10.00 per 100.

Ivory, **Bonaffon**, **Jones**, white and yellow, **Kalb**, **Mrs. Duckham**, **Robinson**, **Amorita**, **Smith**, **Helen Frick**, **Am. Beauty**, **Carrie**, **Godwin**, **crimson**, **Appleton**, **White Bonaffon**, 75c. per doz., \$5.00 per 100.

CASH

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

CHARLES H. TOTTY WHOLESALE FLORIST

MADISON, N. J.

CHRYSANTHEMUM NOVELTIES A SPECIALTY
List Now Ready. Send for it.
Mention the Florists' Exchange when writing.

JEANNIE NONIN

The finest late white Chrysanthemum in cultivation. Large stock plants 10c each.

R. G. HANFORD, Norwalk, Conn.
Mention the Florists' Exchange when writing.

2 1/2 in. **ASPARAGUS PLUMOSUS**, \$3.00 per 100,
3 in. **SPRENGERI**, \$4.00 per 100.
2 in. **HIBISCUS**, in variety, \$2.50 per 100.
2 in. **Flowering BEGONIA**, \$2.50 per 100
2 in. **BOSTON FERN**, \$3.00 per 100
2 in. **TARRYTOWN FERN**, \$5.00 per 100.
2 in. **SCOTTII**, \$4.00 per 100.
3 in. " " \$6.00 per 100.
4 in. " " \$10.00 per 100.

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

Decorative Plants.

ALLAMANDAS.—If allamandas had nothing else to commend them but the color of their flowers, that in itself would be sufficient to cause them to be grown extensively. There are in cultivation very few plants that produce flowers of yellow color serviceable to florists, and at the same time well adapted for various forms of decoration. Allamanda flowers, in the hands of an accomplished decorator, are capable of producing graceful and brilliant effects in dinner table work as well as when used in more elaborate decorations of dwellings.

When the only purpose in growing allamandas is for the production of flowers, the tall variety is still the best; but if it is desirable to have on hand for decorative purposes plants in pots or tubs profusely covered with gorgeous yellow blossoms, there is nothing to equal Allamanda Williamsii. Although this variety was introduced into England fifteen years ago, and into this country about thirteen years ago, it is not yet grown extensively as its merits warrant; but its growth in popular estimation is of a steady character. When once grown successfully, always grown. This variety is dwarf and well adapted for growing and flowering in small tubs, or in ten and twelve-inch pots. Allamandas are very easily propagated from cuttings, placed in sand over a bottom heat of 75 degrees. Probably the better method is that of cutting each cutting into a thumb pot, first filling the pots with sand and peat, or sand and leaf mold in equal proportions. After the cuttings are inserted in the pots and the soil made firm around them, they should be well watered and the pots then plunged in the sand in a propagating bed. Shading will be necessary for a while. In about three weeks the cuttings will be rooted and the tops will start to grow; then it will be well to remove them from the sand, and place them on the surface where they may remain until the pots are well filled with roots, when it becomes necessary to shift them into larger pots, using compost much the same as for the cuttings, except that less sand will suffice.

When the roots have made good headway in the pots into which the plants have been shifted, the points of the plants should be pinched; this will cause the remaining buds to put out shoots, and these when they have made two or three joints or whorls of leaves should also be pinched. Young plants intended for rafters or pillars should not be pinched until they have attained to the height when it is desirable to have two or more shoots. The plants will require repotting the first year as often as they have filled their pots with roots, but after the first year they require only one potting, if they have attained a size fitting them for the size of pots wherein they are to bloom, and his potting should be done soon after they start to grow in the Spring. A good compost for allamandas, after the shift from the second size pot, is three parts of good fibrous loam and one part of sand or charcoal. Good drainage is absolutely necessary, and when in full vigor of growth sunlight is indispensable. They should be pruned every Spring to within a joint or two of last year's wood. They require an abundance of water when in active growth, and very little when resting.

DIPLADENIAS.—When well grown and managed, there are but few plants that equal the dipladenias in the beauty of their flowers. Probably the reason why they are not more generally grown is the belief that their culture is extremely difficult. While it is perfectly true in their case, as in the case of many other plants shunned for the same reason, that until their requirements are thoroughly understood, success is almost impossible; but when a grower becomes familiar with their needs there is nothing unsurmountable in their successful cultivation. Care in watering is the most important consideration in growing dipladenias. When in active growth they will not continue in a thrifty condition, unless they get all the water good for them. And right here is where the best judgment is required in knowing how much is good for



Mention the Florists' Exchange when writing.

the plants. Any more than that is very apt to ruin them. Plants with vigorous shoots need more water than those of shy growth. When the plants are done flowering they require to be rested, but never should be subjected to an absolute drying off process. Very little water is necessary, however, when they are at rest, and it may be safer to err on the dry side than on the other. A temperature of about 55 degrees suits them in the Winter, while at rest.

Dipladenias are easily propagated from cuttings of wood with one or two joints, taken off the plants in the Spring when they begin to grow. The cuttings should be placed in sand, over a good bottom heat, where they will root quickly. When the roots are about one inch long they should be carefully removed from the sand and just as carefully potted into small pots. The material for the first potting may be composed of peat and sand in equal proportions and for subsequent pottings porous, lumpy peat two parts and sand and charcoal one part will do. Or they may be potted in fern root fiber and thrive equally well. Good drainage is absolutely necessary for their well-being. When engaged in the work of potting the plants great care is necessary in order to avoid injuring the roots, which, if damaged, will greatly retard the growth of the plants thereafter.

Dipladenias, like most other plants grown in a high temperature, are subject to the attacks of insects, and the safest way of preventing injury by these pests is a free use of the syringe, until the plants are in flower at least. The plants in their growing and flowering season require a rather warm temperature; some growers keep them in a temperature as high as 90 degrees, but I have seen them in good condition where the temperature was more than 10 degrees less than that. When the plants are in their most dormant condition they should be cut back. If this be done after active growth has commenced, they are liable to bleed, and the plants will suffer in consequence.

Dipladenias are sometimes grown from seed and that with such success that the plants flowered the first year; even so the cutting method of propagation is the more satisfactory. D. M.

CINERARIAS

Fine, large flowering, dwarf Prize Strain, 4 in. \$5.00 per 100.

AGERATUM (Inimitable): It is the finest Ageratum in cultivation. R. C., \$1.50 per 100; 2 1/2 in., \$3.00 per 100.

GERANIUMS, out of 2 1/2 in. pots, best varieties, \$15.00 per 1000. Send for list.

J. C. SCHMIDT CO., BRISTOL, PA.

FORCING STOCK
Of Excellent Quality

Rhododendrons—Leading varieties suitable for forcing, such as Caractacus, Everestianum, Hendersoni, Kate Waterer, Michael Waterer, Mme. Wagner, Mme. Carvalho, Mrs. Fitzgerald, Prince Camille de Rohan, William Austin, etc., etc. Finely shaped plants with 12 buds and upwards, \$1.00 each; \$11.00 per doz.; \$90.00 per 100.

Azalea Mollis—Elegant bushy plants, 15 inches high, well set with buds, fine for early forcing, \$4.50 per doz., \$35.00 per 100.

Lilacs Pot Crown—Charles X and Marie Legraye—Good shaped plants well set with buds, \$6.00 per dozen, \$45.00 per 100.

Indian Azaleas—To close out we are still offering at import prices a full assortment of standard varieties.

10 to 12 inch Crowns, \$4.50 per doz., \$35.00 per 100
12 " 14 " " 6.00 " 45.00 " "
14 " 16 " " 7.00 " 55.00 " "
Larger sizes at \$1.00, \$2.00, \$2.50, and \$3.00 each.

HENRY A. DREER

714 Chestnut Street, Philadelphia, Penna.

SPIRAEAS, AZALEAS, RHODODENDRONS, Etc.

SPIRAEA NANA COMPACTA, Strong clumps in best condition, \$4.00 per 100.

AZALEA INDICA, Mad. Van der Cruyssen, Prof. Walters, Empress of India, Helen Thielman, Simon Marder, at import prices to close out.

12 to 14 in. crowns—\$45.00 per 100.

14 to 16 in. crowns—\$55.00 per 100.

16 to 18 in. crowns—\$90.00 per 100.

AZALEA MOLLIS, Fine for forcing, bushy and full of buds.

12 to 15 in. high—\$25.00 per 100

15 to 18 in. high—\$35.00 per 100

RHODODENDRONS, bushy, perfect plants, brightest and best we ever had—full of flower buds.

18 to 20 in. high, \$9.00 per doz.

20 to 24 in. high, \$12.00 per doz.

LATANIA BORBONICA, 4 in. pots, short and bushy, \$15.00 per 100.

KENTIA BELMOREANA, 5 in. fine, \$60.00 per 100.

The STORRS & HARRISON CO.,
PAINESVILLE, OHIO.

Superb Boxwood, just arrived, perfectly shaped bushes for window boxes, 75c. a pair; 24 in. high, \$1.00 to \$1.50 a pair.

Pyramid Box, 3 ft. high, \$2.50 to \$3.00 a pair; 3 1/2 ft. high, \$4.00 a pair; 4 ft. high, \$4.50 and \$5.00 a pair; 4 1/2 ft. high, \$6.00 to \$7.00 a pair; 5 feet, \$8.00 a pair; 5 1/2 and

over, perfect specimens, \$9.00 a pair.

Boston Ferns, 5 in. pots, \$3.00 per doz.; 6 1/2 in. pots, \$9.00 per doz.; 8 in. pots, \$15.00 per doz.; 11 in. pots, \$25.00 and \$30.00 each. Specimens in 12 in. pots \$5.00, \$6.00 and \$7.00 each. 14 inch pots, \$15.00 per pair.

ANTON SCHULTHEIS.

19th Street & 4th Avenue
COLLEGE POINT, N. Y.

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DREER'S UNRIVALED STRAIN

—OF—
DOUBLE PETUNIAS

ROOTED CUTTINGS BY MAIL 100

- White, pink, red, crimson and variegated... \$1.25
- Petunia Grandiflora, single, 10 varieties... 1.25
- Abutilon Savitzkii... 1.50
- Cuphea (Cigar Plant)... .75
- Ageratum, 4 varieties... .75
- Strobilanthes Dyerianus... 1.25
- Gazania Splendens... 1.50
- Flowering Begonia, 8 varieties... 1.50
- Heliotrope, Dark, from soil... 1.00
- Lantana, dwarf, 6 varieties, from soil... 1.25
- Lantana, trailing... 1.25
- Scarlet Sage, tall and dwarf... 1.00

PLANTS

- Dracaena Indivisa, 18 to 38 in. high... \$10.00, \$15.00 and... \$20.00
- Shasta Dalay, 3 in... 3.00
- Rose and Oak Leaved Geraniums, 2 in. 2.00

Cash with order please.

GEO. J. HUGHES, BERLIN, N. J.

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Special Offer

Primula Obconica Grandiflora, the celebrated Konderfer and Lattman Hybrids in bud and bloom from 4 in. pots \$10.00 per 100, from 5 in. pots \$15.00 per 100. **Primula Chinesica** simbrata in bud from 4 in. pots \$8.00 per 100.

Cinerarias hybrida maxima grandiflora Nana, well grown plants 3 in. pot \$4.00 per 100.

Asparagus Plumosus Nanus, fine plants 2 1/2 in. \$2.50, from 3 in. pot \$5.00, from 3 1/2 in. pot \$8.00 per 100.

Geraniums.—Alp. Ricard, John Doyle, Castellane, S. A. Nutt, Beaute Potevine, E. G. Hill, Mme Landry, Mme Jaulin, Jean Vland, Gloire de France, La Favorite, extra fine cool grown stock 2 1/2 in. \$2.50 per 100, \$20.00 per 1000.

PAUL MADER, EAST STROUDSBURG, PA.

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Seedsmen and the Trade in General

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

Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

The index to Volume XXII, 1906, of the Florists' Exchange accompanies this week's issue as a Supplement. Subscribers failing to receive same should kindly notify us of the fact.

The Florists' Exchange acknowledges, with thanks, receipt of a beautiful portfolio containing handsome photographs of Christmas baskets, specimen plants of Begonia Gloire de Lorraine, etc., from Samuel Murray, Kansas City, Mo. A credit to Mr. Murray's enterprise, as well as to his skill as a decorative artist and grower.

PUBLICATIONS RECEIVED.

HINTS AND HELPS FOR YOUNG GARDENERS. By H. D. Hemenway. Price 35c. Illustrated. The author, who was formerly director of the school of horticulture at Hartford, Conn., now of Northampton, Mass., says that this little work was written as a guide to school and home gardeners, being intended not only for youthful gardeners, but also for those young in experience. The hints and helps given are all of a practical nature, and will be found of great service to those engaged in the work of school gardening. Excellent planting tables for vegetables and flowers are furnished, and the instructions generally are such as can be readily assimilated by the young mind. The teaching of horticulture in schools is, we are pleased to observe, being more and more recognized as an important part of the curriculum, and such books as the present do much to help along the good work. "Establishing a school garden may change the entire healthfulness of a neighborhood," says Mr. Hemenway. "The school grounds themselves may be better planned and more healthful, but the best effect may be at the home. The school gardener soon wants a garden at home. . . It opens up a source of revenue, creates a love of industry and respect for property, and is often the beginning of better things. The gardener becomes a better American citizen." All of which we thoroughly endorse.

A Correction.

Editor Florists' Exchange:

I call attention to an error in regard to the publishing of account of chrysanthemum exhibit of Robert Leupke, the same being furnished to you by myself. The exhibit was made at Houston and not at the State Floral Society's show at Waco, as you have it.

S. J. MITCHELL,

Houston, Tex.

Credit.

The Philadelphia Florists' Club inaugurated the present year's proceedings with a pertinent discussion on that all-important subject credit. The club was fortunate in its selection of an essayist—S. S. Skidelsky—than whom no man is more familiar with the American florists' trade, or is better equipped to talk on the topic in hand. Mr. Skidelsky's paper appears in full on pages 13 and 14 of this week's number of The Florists' Exchange. His remarks should be carefully read and thoughtfully considered by those who would see this business placed on a workable footing, as regards the granting of credit, satisfactory to all concerned.

The essayist is not an advocate of the "pay as you go plan," believing it to be untenable under the present system of business operations. Rather does he favor quite liberal credit terms; but he emphasizes the fact that all obligations should either be met on maturity, or satisfactory explanation of default of payment forthcoming. He deprecates the indifference shown by too many in the trade to statements, bills, letters, etc., which neglect has drawn upon the craft the opprobrium of "slow pay," and not without good foundation.

Mr. Skidelsky believes the trade papers could greatly assist in eliminating from the business the "deadbeats" that prove such a menace to its proper conduct. So far as The Florists' Exchange is concerned, we are practically assisting in this very laudable endeavor at all times. And in this respect we have to use common parlance, "troubles of our own." A statement as to how we do business may prove helpful to others. It is our practice, by means of the list supplied by the National Florists' Board of Trade (a medium of information we recommend to all who would safeguard their interests) and in other ways, to ascertain the standing of all parties unknown to us seeking credit, in the granting of which we are guided by this information. And if at any time an advertiser fails to do business with us on business principles, his patronage ceases, so far as we are concerned. We do not believe in the policy of "all is fish that comes to our net." Healthy selection is our motto, hence the columns of The Florists' Exchange are at no time clogged with the advertisements of parties whose financial standing or business methods are such as to bring the paper into disrepute, or to cause loss and annoyance to our patrons or to ourselves.

We are not of Mr. Skidelsky's view that the S. A. F. O. H. should take a hand in the credit regulation of the craft. It is not the province of that society to run any member's business for him, however much it may desire to aid him, by suggestion, in the operating of that business. The granting of credit is optional, not compulsory, and he is wise who first sees to it that those who seek credit privileges are worthy of them; also, when abused, that such privileges are entirely withdrawn.

Mr. Skidelsky touches, among other things, on the perplexing problem of dealing with the "four hundred," in credit matters. This terrible drawback could be helped were the "fellow around the corner" to act in co-operation with those having outstanding accounts to collect refusing to supply further goods until all legitimate debts were liquidated. This leads to the thought of combination for self-preservation in business matters, something that has been found practicable in other lines of trade. So long as cowards, men of weak backbone or lacking stamina are found in the trade, just so long will the credit hunter and payment shirker be difficult of eradication from it. Combination that sticks means much in this credit business, common business sense in dealing with the subject probably more. And the "bite" that comes when these are absent, is often salutary in its effect, though at times not to the extent that one would look for or expect.

We congratulate the Philadelphians on the selection of the theme, and Mr. Skidelsky on his treatment of it. May the discussion prove as healthy as it should do, tending to the benefit of all concerned not only in the year on which we have just entered, but for many years to come.

CLUB AND SOCIETY DOINGS.

CONNECTICUT HORTICULTURAL SOCIETY.—The annual meeting of this society was held in County Building, on Friday, December 28, at 8 p. m. President Sternberg in the chair. The treasurer and secretary submitted their annual reports which showed the affairs of the society to be in a flourishing condition. Officers were elected for 1907 as follows: President, A. C. Sternberg; vice-president, J. F. Huss; treasurer, W. W. Hunt; secretary, Alex. Cumming; pomologist, C. H. Sierman; statistician, G. A. Parker. The next meeting will be held on January 11, when an exhibit of carnations will be made. ALEX. CUMMING.

NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY.—The December meeting of this society was held on the afternoon of the 12th. Three new members were elected and one nominated to active membership. The roll of active members now musters 76. This meeting closed the second year of the society's existence. From its birth, two years ago, with a chartered membership of 14, this society has steadily progressed both in the keen interest manifested by its members and in its financial standing. As an organization it has brought together the gardening fraternity of quite an extended area, having in view always the elevation of the profession as its chief aim.

In the point competition H. F. Meyer scored 83 1-3 with poinsettias, tomatoes and cucumbers; S. J. Trepas, 80 with tomatoes and cauliflower.

The prize for 25 carnations arranged for effect was awarded H. F. Meyer. For best flowering plant A. Mackenzie was first with a beautiful growth specimen of Begonia Gloire de Lorraine in a 4-inch pot; S. J. Trepas, second, with a well-grown cyclamen.

The annual dinner of the society was voted to be held on Wednesday, January 23.

The treasurer's report showed a substantial balance in the treasury after meeting all expenses.

The following officers were elected for the ensuing year: President, Alexander Mackenzie; vice-president, H. F. Meyer; secretary, John F. Johnston; treasurer, E. J. Brown; corresponding secretary, J. W. Everett.

On behalf of the members of the society and in a brief and appropriate speech, J. W. Everett presented the retiring president, Thos. Harrison, with a handsome gold scarfpin, as an expression of the society's appreciation of the valuable services rendered during his two years of office. President Harrison suitably replied thanking the members for their support.

JOHN F. JOHNSON.

American Carnation Society.

New York to Toronto.

For the trip to Toronto, we will use the New York Central Lines, and arrangements have been made to attach an extra sleeper to train leaving Grand Central Station 8:00 p. m. Tuesday, January 22, arriving Toronto, 10:50 a. m. Wednesday, for the accommodation of members from New York and contiguous territory. In order that we may early perfect all arrangements for the car, it is requested that members advise the undersigned as soon as possible if going, and space desired.

The rate authorized is one and a third fare on the certificate plan, or \$11.85 from New York going, and one-third, or \$3.95 returning, conditioned on there being 100 in attendance from all quarters, and also on members securing certificates when purchasing tickets and having same properly vised in Toronto before returning.

Going tickets will be sold and certificates issued January 18 to 23, and certificates will be honored for tickets returning until January 29.

The cost of berth New York to Toronto is \$2.50. Tickets can be purchased and certificates secured from any of the New York Central Lines offices, or, if desired, arrangements will be made to have same delivered.

If any prefer to leave in the morning, they may take the Empire Express, 8:30 o'clock, arriving in Toronto at 9:05 p. m.

EUGENE DAILLEDOUZE,
Clarkson street and Troy avenue, Brooklyn, N. Y.
C. W. WARD,
Queens, L. I., N. Y.

Society of American Florists and Ornamental Horticulturists.

Appointment of Directors.

President William J. Stewart has appointed as directors, to serve for three years: John K. M. L. Farquhar of Boston, Mass., and Samuel Murray, Kansas City, Mo.

[We congratulate President Stewart on his selection. Mr. Farquhar is a Scotsman, and is a member of the firm of R. & J. Farquhar & Company, Boston. He is well known to the S. A. F. O. H. members through the able and interesting lectures he has delivered before that body, and the interest he has taken otherwise in the affairs of the organization.

Mr. Murray is also a native of Scotland, and is one of the prominent Western craftsmen, being the owner of a store and greenhouse plant in Kansas City, Mo. Mr. Murray will bring to the office of director a knowledge of trade requirements that cannot fall to be of great value in the deliberations of the board.—Ed. F. E.]

OUR READERS' VIEWS

Prevention of Corruption Act.

Editor Florists' Exchange:

In quoting from the "Journal of Horticulture" in your Christmas number, on the above subject, you are unwittingly helping to spread an entirely false impression. The writer of that paragraph was not at the meeting in question, as it was confined to nurserymen and seedsmen, and his remarks are as misleading as it is possible to be. The unanimous feeling of the meeting was that whatever had been the custom in the past it was impossible for any business man to attempt to continue a system which might at any time after January 1, (when the new Act comes into force) land him in prison for two years.

The old firms here did not grudge the gardener the 5 per cent he has been so long accustomed to, but they welcome the new law which will stop the rascals who for the past few years have been sending out travelers to buy the gardeners' custom at any price, trusting to recoup themselves by robbing the employer.

ONE WHO WAS AT THE MEETING.

Renaming American Carnations in England.

Editor Florists' Exchange:

Your correspondent, Henry Eichholz (see page 629 of The Florists' Exchange, November 24, 1906), deserves the thanks of all British growers of American carnations for his timely note concerning the carnation, Mrs. W. T. Omwake.

Obviously "New Yorkers," who by his note to the London "Gardeners Chronicle," casts so serious a reflection upon the integrity of the British nurseryman, is not a carnation specialist; or if so, he must be occasionally touched with color-blindness, otherwise he would have seen that Mrs. W. T. Omwake and Rose-Pink Enchantress, when exhibited before the Royal Horticultural Society, were very distinct in color. This much was clear to many at any rate, the undersigned among the number.

The varieties when placed before the committee for certificate were not in first-class condition and no award was made to either variety.

The parent of the above named sports, viz., Enchantress, is quite a favorite here and is extensively cultivated, and the children of such a parent when more mature will of a surety be received with favor.

Your many readers will be interested to know that a special Winter Carnation Society to promote the cultivation of the American carnation in England has recently been formed, and that its first exhibition held on December 4 was quite a success.

E. H. JENKINS.

Hampton Hill, Middlesex, England.

The Tariff on Glass.

Editor Florists' Exchange:

I notice in the column devoted to "Our Readers' Views," some correspondence on the tariff on glass. Is it not absolutely useless to expect this Congress to take the duty off glass? Did not the party in power get in power with the money and influence of the trusts, i. e. the Glass Trust and the rest of them? Granting this fact, is it not folly to ask them to vote against the power which created them? Dog won't eat dog. Just imagine for a moment those in power voting for a reduction on the glass tariff and then coming around to the Glass Trust for their usual handsome contribution to the campaign fund for the next election! I'll venture the opinion that the man that would go for the money would be told to go to some warm place where he didn't need glass.

I would like to see the tariff reduced just as much as any one, for the whole system is nothing but class legislation with 49 per cent protection to the manufacturer and 1 per cent. to the workman. It simply gives the workman the privilege of handling more money, paying \$2.40 for shoes that used to be bought for \$1.50, for instance. Now, brothers, if you can coax those in power to reduce the tariff wire me at once, for I want to be among the first to know it. We all agree that at present we florists have hold of "the heavy end of the stick."

M. W. ROSEN.

Sports.

Editor Florists' Exchange:

I have never given any consideration to the scientific side of the subject of "sports" or natural variations, either in greenhouse plants or in the seed crops as grown in the field, simply classing them as desirable new types and colors to be propagated if possible, or undesirable rogues to be pulled out or cast aside to preserve the purity of stock in a standard variety.

My experience has covered the same length of time and much the same character of work as Mr. O'Mara's, and his article appears to me to be an excellent historical record of the most valuable sports in greenhouse plants for the period of time covered in his article. If Mr. O'Mara will go back a little farther in his recollections, he will recall

the old tri-colored and fancy zone-leaved geraniums such as Mrs. Pollock, which were quite prolific in sports; and also how that the nursery apprentices each one had to make his individual experiments in trying to propagate the snow white shoots from the old "Mountain of Snow" geraniums.

The only thing in this line that has impressed me as being clearly demonstrable has been the very great number of original sports with sweet peas in the California climate to the dwarf Cupid and bush types, which, in my opinion, is an attempt by nature to provide a mulch or carpet of foliage on the ground to keep the soil about the roots cool and moist during the hot dry months. This tendency is also shown in the two new bush lima beans offered by W. Atlee Burpee & Company, this season, which were natural sports occurring under similar conditions.

E. D. DARLINGTON.
Superintendent of Trials, Fordhook Farms.

Birnie on Water and Wind.

Editor Florists' Exchange:

It seems to me that Job is a queer cuss. He ends his epistle of December 22 with "compliments" to friends and foes, but with characteristic inconsistency proceeds to criticize and find fault with all and sundry in his next. He works himself into a frenzy regarding the compliments extended to your Boston contemporary, and ends his rather cynical



The Late Elijah W. Wood.

screed with a snarl at Mr. McGorum's letter on "Rose House Wisdom." Of course, the extreme antipathy of Mr. McGorum to water in an undiluted state is prominently set forth in his letter, but I guess he is not the only florist who takes the precaution of soaking his strawberry in a small "glass" before eating it. The average florist is very particular as to the quality of his drinking water anyway. Anyone who attends the S. A. F. conventions will bear me out on this. On reaching the convention city the familiar cry is always heard: "Look out for the drinking water, 'taint good," and invariably those who neglect that solemn warning are taken with "cramps." The S. A. F. convention is always held in a dry time anyway; even the river at Dayton was dry when we were there last Summer.

Mr. McGorum asserts in his able letter that "human beings are largely composed of water." This may be right in the majority of cases, but I think he would find, on analysis, that the anonymous scribblers in the trade press, be they ghosts or human beings, are about 99 per cent. wind, leaving very little for either water or brains. Trade press poets belong also to this class, always excepting the Bard of Western Springs. I know George Watson will coincide with me in this matter; and I will say, in his defence, that he is not scared of mosquitoes, and that he would have bravely faced even those Barnesat mosquitoes, if it had not been for an unfortunate combination of Summer trousers and cane-bottomed chairs.

An article in one of your contemporaries last week under the caption "The Routine of Potting" seems to me to be superfluous, and suggests the idea that either the Editor is mighty short of copy or the scribe is greatly in need of the penny-a-line. To print such stuff in a paper supposed to be read only by professional men is obviously needless, and is a reflection on their ability. The men who read the trade papers are out of the baby class, and many of them were able to pot plants as well and quite as fast as the writer of that article when he was playing with his jumping-jack or some equally innocent toy. We could get along without such gush, just as well as we could get along without Job's cranky reflections, or the letters of

JOHN BIRNIE.



John Bird.

John Bird, long a resident of Raysville, east of Knightstown, Ind., is dead. He was born in England in 1828, settled in Indiana in 1857, engaged in the nursery business, and at one time was one of the best-known nurserymen in eastern Indiana. He was a birthright member of the Friends' Church, and prominent in that society. He is survived by his widow, one son, George Bird, and a brother, Samuel Bird, all of Raysville.

William Charlton.

William Charlton, treasurer of the Morris County Gardeners and Florists' Society, and a well-known wholesale and retail florist, died at his home in Madison, N. J., on December 28, 1906. He was 73 years old and leaves a widow and one daughter to mourn his loss.

Mr. Charlton was honest and upright in business and private life and had a very large circle of friends. Many loving tributes of flowers were sent to the funeral by his brother florists, including a huge wreath of carnations, roses and lily of the valley from the society which he served so long and so faithfully. He was a native of Yorkshire, England.

John T. Doyle.

John T. Doyle died at his residence in Menlo Park, near San Francisco, at an early hour in the morning of December 23 from pneumonia after a two weeks' illness. He was born in New York City in 1819 and came to California in the Winter of 1852 and soon became a noted florist and fruit grower adjoining the town site of Menlo Park, of which town he was in 1874 appointed a Trustee and became president of the first Board of Trustees. He was also appointed a Regent of the State University when it was founded in 1868, and served three terms as Horticultural Commissioner for the State at large. All San Francisco florists knew Mr. Doyle as a producer of the choicest roses, carnations and violets.

He leaves a widow and a family of grown sons and daughters.

Elijah W. Wood.

Elijah W. Wood, who died at his home in West Newton, Mass., on Monday, December 31, 1906, had long been associated with horticultural and more especially pomological interests, having been, up to his retiring last year from the position, chairman of the fruit committee of the Massachusetts Horticultural Society, for a quarter of a century.

Mr. Wood was born in Upton, Mass., June 7, 1826, of New England parentage, several generations of the family having lived and died in the rural district, a few miles from Worcester, Mass. He moved to Boston in the early fifties, and shortly afterward took up a suburban residence in Newton, where he has since made his home. In 1876 he retired from mercantile pursuits and has since devoted himself entirely to his home and horticultural pursuits, to which his whole family have always been attached. He had always been active in political affairs, both local and State. He was a member of the Legislature in 1885, 1886 and 1887. He was elected to the Newton Board of Aldermen in 1877 and served again in 1878 and 1883. He was a member of the school committee from 1874 to 1883, and at one time was a candidate for the position of mayor.

In 1869 Mr. Wood joined the Massachusetts Horticultural Society and had taken an active part in the progress of the association since then. For many years he was the representative of the society in the State Board of Agriculture, and for eighteen years was trustee of the State Agricultural College.

His wife, who was well known in horticultural circles in Boston and vicinity, passed away in January last.

Mr. Wood leaves three sons, all engaged in horticultural pursuits, and one daughter. Elijah A. is well known as a chrysanthemum expert, and at one time was president of the Chrysanthemum Society of America. William K. is the Western representative of The Florists' Exchange, with headquarters in Chicago.

LADIES' AUXILIARY S. A. F. O. H.—The Ladies' S. A. F. pins have been received, and will be forwarded to all members as soon as the secretary, Mrs. Chas. H. Maynard, returns from North Carolina, where she has been called by sickness.

The Wide House Question

As Proven by the Experience of L. B. Coddington,
One of the Largest Jersey Rose Growers.

How is a man to know things in this world—absolutely know before he invests several thousands in an idea that may be still in its experimental stages? The grower must be a sort of gambler, willing to take a long chance and put a theory into practice to uphold his personal views.

Being determined to get at the bottom of the wide house question, I visited L. B. Coddington's range at Murray Hill, N. J., where along with five three-quarter span cypress houses, each 350 by 18½ feet, he has two

that the eave line with its metal plate and glazing bar bracket make an indestructible joint of great strength and give a freedom from ice; that because of the framing's absolute rigidity and the care with which expansion and contraction have been taken care of, the glass breakage is practically nothing. This last house of ours has thoroughly convinced me that 400 feet is about the right length for economy in working and freedom from the complicated heating problems of the extremely long ones which need ex-

tion with the 2½ feet floor rise, each bench is about 5 inches higher than its southerly neighbor. During the shortest day you can stoop down to the edge of the bench on the farthest walk and always see the sun. Then you understand the highest bench is perfectly easy to work without any elevation of the walk or the mighty

"It's steam; the gravity system. You see all these houses are connected with center passages and the 8-inch mains and 5-inch returns are in trenches right through them. There are two 1¼-inch pipes under each bench, two flows under one bench, two returns under next lower, and four 1¼-inch pipes hanging on each side of the house."

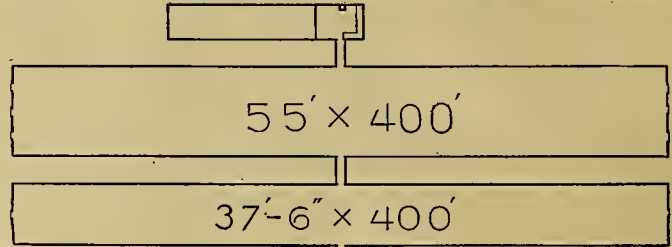
"Then do you think the large house is cheaper to heat?" (Here the foreman chimed in emphatically.) "Decidedly. We haven't figured it out on a percentage basis, but here is a comparison: When there are two pipes on the 18½-foot house, then by the same token there should be four on the 37½-foot house and six on the 55-foot, but we only run three on the 37½-foot and four on this."

"How do we account for it?" "Well," said Mr. Coddington, "there isn't so much outdoors about the big house and then there's that big volume of heated air up there, and, as I said before, once heated up, it is easy enough to keep up. Yes, there is a great economy and convenience in working one of these large houses; to my mind that's one of the strongest points."

"Now you must see the work room. We wanted it as near fire-proof as possible. The siding is plaster board with a pebble-dash finish on the outside, and this floor is made with iron beams and brick arches between, the whole thing cemented over. Another time we would make a solid concrete floor and no bricks. In the boiler cellar these concrete walls were built right in the trenches without any framing, and then the cellar dirt dug out. An experiment, but it worked and saved all that expense of framing a mould."

"Yes, we are in every way satisfied with the construction of that big house. The firm who erected it know their business and understand putting things through, and they back up their advertisements with 'pleasant dealing.' You can put me down as a firm believer in the iron frame house, the wide house."

LEDDRA WOOD.



Plan of Coddington Wide Greenhouse



L. B. Coddington's Wide Greenhouse—Exterior View

400 foot houses, iron frame, one 37½ feet wide, and his last one 55 feet wide. He looked like the right man to talk wide houses to, because he had tried the narrow, the wider and the widest and stood in a position to make comparisons.

Mr. Coddington has always been in the rose business and in addition to this range at Murray Hill, owns another at New Providence, N. J., of 62,000 square feet glass area. He is one of those wiry, hustling sort of men who dig right into things; believes in spending money to save money; is familiar with the various constructions and houses of any importance all over the country; has tried erecting his own houses and having it done by the builder. He stands in a position to know things and he does—knows them in a quiet, unassuming way that carries its own conviction.

What Mr. Coddington and his wide-awake foreman told me about this last house erected by Hitchings & Company, I want you to know the thoroughness with which this house was thought out and built, the superiority of the iron frame construction and the advantages of the wide house.

I said to him: "In general terms, how do you like your big house?"

"Like it in every way, and it's a satisfaction to know that such a construction gives us all possible light,

pensive anchoring of heating pipes and all that sort of thing."

"What is the height of the ridge?" "Let me see, the sides are 6 feet, with a 22 foot ridge." (See cut of section). "You see that gives us a big volume of air up there, then when once heated, it is a protection against sudden changes and preserves a more uniform temperature and humidity."

"What is all this talk about better ventilation?"

"It's absolutely true, the fresh air is more evenly distributed because there's more air for distribution, and when it does reach the plants, it's thoroughly warmed up and acts like an insulation against chills. Yes, there are fifty foot runs of sash operated by one of these easy running gears, and right here is where one of the economies in working a large house comes in, for your men can shut down the sash in about half the time it takes to run up and down three small houses covering the same space."

"Now tell me about your benching."

"Well, the house runs east and west at a perfect level, but with an inside rise of 2½ feet from south to north; then the first bench is only 16 inches in height; each following bench is 2 inches higher, making the back one 32 inches. Taking this in connec-

tion with the 2½ feet floor rise, each bench is about 5 inches higher than its southerly neighbor. During the shortest day you can stoop down to the edge of the bench on the farthest walk and always see the sun. Then you understand the highest bench is perfectly easy to work without any elevation of the walk or the mighty

unhandy way of straddling from bench to bench in making your 'cuts.'"

"Let's see, how many benches are there?"

"Nine, 3 feet 11 inches wide, with ten 22-inch walks. Four plants to a bench are all that can be worked to advantage, and I believe thoroughly in the side walk. You make up in quality what you possibly lose in quantity, and that's another thing strongly in favor of the wide house. The quality certainly is better, and quality is what we fight for."

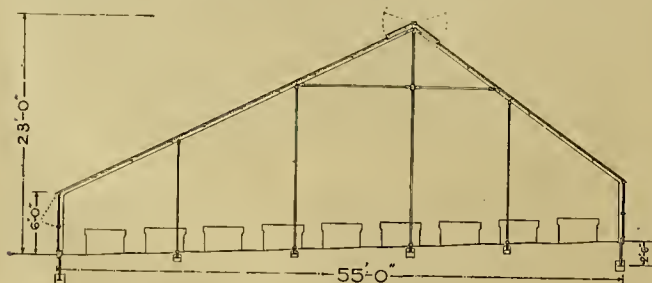
"Twelve thousand plants! It must take a lot of wiring?"

"About eleven miles, more than I'd care to walk this cold day."

"The heating?"



L. B. Coddington's Wide Greenhouse—Interior View



Section of Coddington Wide Greenhouse

Our Credit System, Its Uses and Abuses.

(Read by S. S. Skidelsky before the Philadelphia Florists' Club, January, 1907, meeting.)

I deem it an honor as well as a privilege to address you upon a subject that it seems to me has never received the consideration it merits, either at the hands of our numerous florists' clubs or of our national society.

Tribute to the Trade.

At the very outset, however, and before I approach the subject properly, namely, "Our credit system, its uses and abuses," I wish to premise my remarks by paying a brief tribute to the members of our craft scattered throughout this great American continent. It is no exaggeration to assert that there is no body of men more honorable, more honest and straightforward than our brother florists. It is a noteworthy fact, one scarcely requiring any proof, that during the panic of 1893 when business conditions were most deplorable; when the stringency of the money market and the general stagnation and business depression were most appalling in their consequences; when the professional calamity howlers and the unscrupulous demagogues aired their theories to the already kindled fire of fear and discontent; when the so-called "first laws" of self-preservation began to assert themselves in a manner that brought disaster and financial ruin to many a business house, our brother florists, as a body be it said to their everlasting glory and credit, put their shoulders to the wheel harder, never thinking of joining the procession of bankrupts. It is an actual fact—and I challenge anybody to disprove it—that there were fewer failures in proportion among the florists, either compulsory or otherwise, than among any other body of business men. I could easily name a number of florists, who during those memorable dark days, saw fit to deprive themselves and their families of things generally considered as absolute necessities, in order to meet their obligations.



S. S. Skidelsky.

Men capable of such self-sacrifice, men possessed of such moral stamina, of such business integrity and honesty of purpose need not hesitate inscribing their names upon the roll of honor.

Perhaps Pope had some gardener in view when he said that "an honest man is the noblest work of God."

Of course there are exceptions, but of these later. That much for our honesty and business integrity.

Credit System Needs Modernizing.

Can we claim as much for our business methods, or, to be more exact, for our credit system, as compared with that of other progressive business men? Hardly. While it is true that we are keeping pace with the times in many other respects; while we are advancing steadily and uninterruptedly along lines of general progress, increasing our facilities, modernizing our stores and our greenhouses, improving our products; while we have been exchanging views and opinions as to the best methods of marketing our products, going even so far as to touch upon the ideal employer and employee, it has never occurred to us to consider seriously the means and ways and the best methods of modernizing our credit system. A question of momentous importance to our own interests, strange to say, seems to have escaped our attention.

A Brilliant Example.

Viewed from whatever standpoint, and whatever arguments we may bring to bear upon the subject, it is undeniably true that our credit system is in its primitive state, lacking those sound fundamental business principles which are at the basis of every sound financial or industrial institution. It is said of the late Marshall Field, the merchant prince of two generations, that his first step at the very outset of his brilliant business career, was to establish a sound credit system. A rule from which he never deviated and which perhaps more than any other factor was responsible for and contributed so largely toward his colossal fortune, was to collect his outstanding accounts and to meet his own obligations upon maturity. What is true of Marshall Field, the merchant prince, holds equally true of John Smith, once upon a time the struggling market gardener, whom we now see making rapid strides along the highway of progress. The reason? Easily explained: "I pay as I go," says Mr. Smith, "and in order to be able to do this I collect my own accounts promptly." Simple enough in itself, yet a rule of this sort seems to constitute the corner stone, the very foundation of one's success.

Pay as You Go Doctrine Not Tenable.

"To pay as one goes" does not imply, however, spot cash transactions. Such a modus operandi, is no longer tenable under our present business conditions. Nor is credit, as such, to be dispised or condemned on general principles. On the contrary,

credit well regulated and judiciously used is a blessing and a privilege that can scarcely be overestimated. Were it not for this privilege, I venture to say there are many among us to-day who should have never achieved the success they enjoy. How often do we hear of the man, who in years gone by had made his first start in life by building his first little greenhouse on a paltry few dollars borrowed from either friend or shark, stocking it with a few geraniums and other truck, obtained on credit from some reputable establishment or other? If we trace the history of the successful florist of to-day, we can see at a glance that credit has in a large measure contributed towards his success. I say "in a large measure" advisedly, because other qualifications, such as hard work, perseverance, will power and energy, were of equal importance as a means to his successful business career.

Advantages of Credit.

I reiterate, credit is a privilege that is not to be dispised by any business man, no matter how conservative in his enterprises or how determined to steer clear of debt. Broadly speaking, it is credit, inspired by confidence and backed by enterprise, that is responsible for the remarkable development of our natural resources—the wonder of the world. It is credit inspired by confidence that is accountable for the prosperity which we enjoy to-day. Credit has been the means of launching many a successful industry, giving employment to hundreds and thousands of men; credit has been the means of enabling many an individual to stem the tide of adversity and to rise to affluence and wealth. The struggling market gardener of a few years ago would have never perhaps become the successful grower of to-day, if it were not for that blessed privilege—credit. I will go further and say that credit has been the means whereby most of our modern, mammoth greenhouse establishments have come into existence.

Credit, coupled with hard work, energy and business integrity, has made it possible for the enterprising man of to-day to achieve his success in much less time than it took the florist of a generation ago by the slow "pay as you go" process—in its literal sense. We are progressing, so to speak, in a geometrical ratio, by leaps and bounds, as it were, no longer satisfied to let "well enough alone," no longer content, like the immortal Micawber, to "wait until something turns up." We must create our own opportunities and we are doing it to our hearts' content, thanks to that blessed privilege—credit. If there is anything to be turned up we are generally inclined to take a hand in the turning process ourselves. We seem to realize that faint heart never won success, hence fear and hesitation no longer keep us in check. If we are determined to "get there," it is seldom indeed that we fail in our object.

Abuse of Credit a Menace.

But all good things have their limitation and what is beneficial or wholesome in some cases often produces the contrary effect in others. Assuming that credit, well regulated and judiciously used, is a privilege that the strictly honorable and enterprising business man cannot fail but make the most of, it becomes an absolute menace—often to a business community at large—when placed at the disposal of the unscrupulous trickster. To illustrate my idea: I know of a florist in the West, doing a thriving business, who seems to take especial delight in defrauding his creditors. He buys everything, in or out of sight, in Holland, Belgium or New Jersey, throwing his goods on the market at prices compared with which those of his legitimate competitors seem prohibitory. Here is a case of credit misapplied, the result proving detrimental not only to the man sustaining a direct loss, but to the florists in the immediate vicinity as well.

I will cite another case: There is a florist in one of the Middle States who makes it a practice to order every new seedling carnation in sight. Unlike the careful, ultra-conservative grower who pays his bills and who, as a matter of course, wants to know something about the variety offered, the man I speak of orders indiscriminately, on the principle of "something to gain and nothing to lose," never paying for the stock. The season following, he offers rooted cuttings at a reduced price, underselling the very man he victimized, thus doing him a double injury. And yet, despite such instances (I could cite many others), despite the fact that tricksters under the assumed names of florists are encroaching upon the legitimate trade in a manner most injurious to our common interests, in our anxiety to outdo our competitors, to swell our volume of business we are inclined to take chances, we fail to discriminate, to draw the line most rigorously, as it needs to be drawn, between those worthy of our confidence and those who should be blacklisted in letters so large and conspicuous, that he who runs may read.

Honest Failure No Disgrace.

And right here I wish to be understood, that I am in no wise reflecting upon the honor of those who through no fault of their own, but owing to adverse business conditions or unforeseen circumstances, were compelled to liquidate their affairs as best they could, in other words, to fail in their business. Such men deserve our sincere sympathy, and it behooves us as men and as members of a noble craft to do all within our power to aid them. It is the scamp, not the unfortunate victim of circumstances—the man (God save the name!) who lays his trap for the unsuspecting Hollander, who scans the trade papers and

peeks his cloths, as he sees fit, to sult his own nefarious designs; it is a fellow of this sort, I say, that deserves our unqualified censure and our uttermost condemnation. Aside from the moral element involved, aside from the fact that scoundrelism should be discouraged on general principles, we must view the situation from the standpoint of self-interest, of self-protection. It is a duty which we owe to ourselves, to our fellow-members, to the community at large, to turn the rascals down and out. It is high time indeed that we realize the situation as it affects our common interests. Often the misdeeds of one miscreant will reflect upon the honor of the innocent. It is but human nature to profit by experience. If John has victimised us, it is not likely that we will place our implicit confidence in Tom, notwithstanding the fact that the latter means us no harm.

It is in instances of this sort where credit not only ceases to be a blessing and a privilege, but it becomes an absolute curse, and the sooner we realize it the sooner we devise some means and ways whereby to put an end to such abominable practices, the better for all concerned. Our trade papers can and should help us to accomplish this worthy object, for there is no means more effective, there is no weapon more powerful than the press. Under the glare of its far-reaching searchlight, human rats invariably go under cover.

If credit is a privilege, that privilege must not be abused. Fortunately, such men, the black sheep in our fold, are but in the minority and need not be considered in connection with our credit system, as practiced by the rank and file, the men whose honesty and honorable intentions are beyond reproach, who meet their obligations in the long run.

Florists "Slow Pay."

A few weeks ago I happened to meet a fellow traveler representing a Western crockery concern, who in the course of our conversation remarked to me that "the florists are awfully slow pay; that while other business men will either pay upon maturity, or else will write to the house and ask for an extension of time, the florists, as a rule, do neither; that statements, letters and drafts seem to have no effect upon them. Eventually, of course, they pay, but they do so to suit their own convenience, regardless of conditions or terms."

I need hardly add that there is a deal of truth in these remarks, and that the man knew whereof he spoke. As a matter of fact—and I say it without any fear or reservation—in the majority of cases, terms are honored more in the breach than in the observance. To be sure, the average florist means well, he means to pay his bills—some time; he has good intentions, but—and here comes the rub—good intentions never were and never will be a negotiable asset! Good intentions can never pay any account. A book full of "good intentions" is no more effective and can no more sustain the stability of a business house, than a prayer of Dowie, for example, can stay the ravages of an incurable disease. Like prayer, good intentions are good enough in their place, but in this matter of fact world, unless backed by something tangible, something negotiable, good intentions are of no particular consequence.

It seems to me—and again I say that without any fear or reservation—that some of the best men in our business have but a mistaken idea as to the duties and obligations they owe to a business house. Just because they see fit to patronize a business house, it does not necessarily follow that they have the right to ignore the business terms as laid down by that house.

Liberal Business Terms Advocated.

I do not mean to convey the idea that I am an advocate of iron clad rules, that none but strict conditions should govern all business transactions, transpiring between buyer and seller. On the contrary I believe in liberal business methods; I believe in liberal business terms. I hold that any man worthy of credit is entitled to all due consideration and liberal treatment, and I likewise believe that privileges of this sort should not be abused unnecessarily.

A Suggestion.

Assuming for the sake of argument, that such a thing as a committee of credit men, appointed by and acting under the direct supervision of the Society of American Florists, were possible; assuming furthermore that such a committee had the power to act, to pass judgment and to lay down rules and regulations in all matters pertaining to our business or credit system, would it not appeal to each and every one of us if this committee saw fit to pass a resolution something of the following order?

1. Resolved that no business house is worthy of patronage unless it manifests a liberal spirit towards its patrons.
2. Resolved that no business house need or dare expect the good will of any florist in good standing unless it shows consideration for and a good will of its own toward its patrons.
3. Resolved that no florist is entitled to credit; and to all the advantages accruing therefrom unless he realizes the need of paying heed to statements, of answering business letters and of honoring drafts.
4. Resolved that any florist of good standing reserves the right to exact the most liberal terms possible, but when once agreed upon, such terms are to be honored not in the breach, but in the observance, and be it further
5. Resolved that if any florist finds himself in straitened circumstances and is not able to meet his obligations in due time, such florist is obliged to

write and explain matters of his creditors, said creditors to make all due allowances and to show all due consideration as the case might warrant."

The "Four Hundred" a Bad Factor.

One of our greatest shortcomings in the regulation of our credit system, it seems to me, lies in the fact of our very loose methods in dealing with the "four hundreds" of our towns. It is a matter of record that "society folk," while nowise backward in following the dictates of fashion, are decidedly so in paying their flower bills. It is not unusual to hear that Mr. So and So, a prominent man about town, occupying a magnificent mansion, driving fast horses or a \$5,000 automobile, has not paid his flower bill since "June a year ago." Nor is it out of the ordinary to learn that Madame Blanc, who gave Mr. Florist a carte blanche order some ten months ago, has left for the seashore, the mountains or for Europe without giving her flower bill the least thought.

"Of course" Mr. Florist tells us, "the money is good, and it won't do at all to send a second bill, much less to press for a settlement. Mr. So and So or Madame Blanc might feel offended. No, it won't do at all."

Then, there is another reason to be considered: there is a competitor around the corner who is just looking for the chance of carrying such accounts on his books for one or two years.

Our Credit System Antiquated.

That our credit system is defective, antiquated and out of accord with our present business conditions is self-evident and need not be dwelt upon at greater length here. Nor is it my object to suggest any new methods to you or to point out the remedy. I submit this question to your own good judgment and

wages, and the land was in almost constant use. One crop followed another in almost continuous succession. The produce was hauled to market over night in market wagons. This convenience to the market was at times of great advantage. The farmer was his own salesman, and if the prices did not suit him he could take his load home again. On the other hand, if there was a shortage of the produce he had on hand he would telegraph for an assistant to rush another load to market as soon as possible. These conditions make market gardening within twenty miles of the big markets of New York very profitable.

The land speculators have changed all this. Not-

few have moved further out on Long Island, but they find the conditions there are wholly different. All their produce must be shipped by way of the Long Island railroad, and their manure brought out in the same way. The freight rates are so high and the conditions of shipment so difficult and uncertain as to be practically prohibitive. A shipper from Norfolk, Va., can get his produce to the Manhattan markets almost as quickly and cheaply as the Long Island farmer.

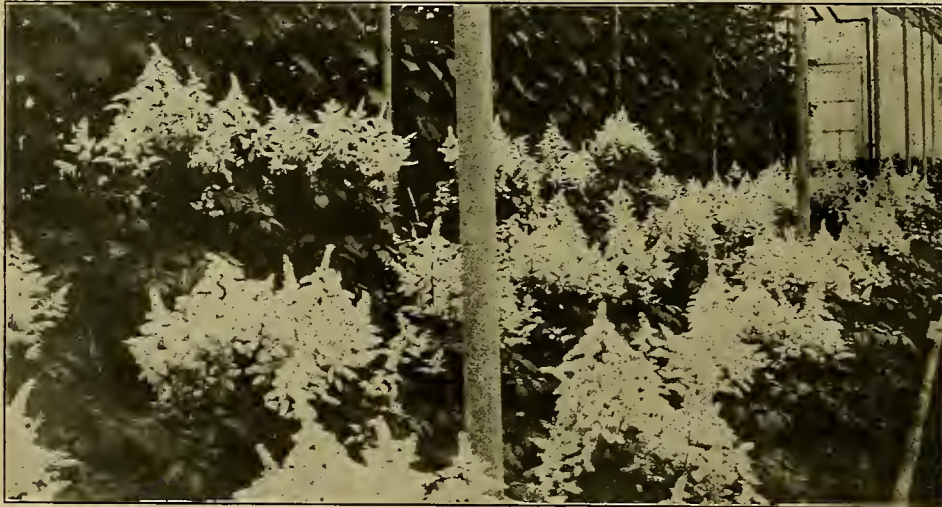
It is safe to assume that market gardening under the conditions which formerly prevailed about New York City is a thing of the past. The city consumers must hereafter depend upon the railroads and steamboats for their supplies. The old-fashioned market wagon loaded with baskets of vegetables, with its high seat and canvas cover, will soon be a curiosity. The effect must be to increase the value of farm lands in the market garden sections of the South within reasonable transportation distance. Already the effects of the new order of things may be noticed in the large receipts of lettuce and other green vegetables from the South. Early potatoes and green peas from Long Island will hereafter appear only as a part of the fiction of the New York hotel menu. One of the unfortunate things about the new order of things is the additional advantage which it gives to the speculator. With hundreds of farmers competing with each other the law of supply and demand regulated prices; now a combination of the middlemen and speculators may at any time advance the price of produce to the consumer and at the same time reduce the compensation of the producer. Formerly a "corner" in lettuce or strawberries or celery was almost impossible; now it only requires an agreement between a few large commission houses to bring it about.

Experiments are making by officials of the Long Island railroad on the east end of the Island to show the productiveness of the so-called barren plains. Without, however, a very considerable reduction in freight rates or some radical change in methods of handling produce at the terminals of the railroad, there is little prospect of the intensive farming or market gardening of the west end of the island being reproduced on the poorer land of Suffolk County.

J. H. G.



Part of New Range of Bertermann Bros., Co., at Cumberland, Ind.



Spiraea Gladstone With Background of Poinsettias. Growers, Bertermann Bros. Co., Indianapolis

sincerely hope that you may give it your earnest and serious consideration. It is a question that concerns as all alike, the wholesaler as well as the retailer, the man who has already made his start in life as well as the young man who bends all his energies and all his ingenuity towards that end.

A Start at Reform Necessary.

Philadelphia, the horticultural center of the United States, a city, whence so many good things have sprung in the past, is pre-eminently fit to take up the work of reform. And this is a most opportune time to undertake a work of this sort. Our national society meets here in August. There are many good things in store for us, we may be sure of that. Some may tell us something about the ideal gardener or employer, some about conducting our stores, others about operating our greenhouses with profit. Let us hope that some good soul may tell us how to bring about the much-needed reform in our credit system—a subject well worthy of the earnest consideration of the best men in our society.

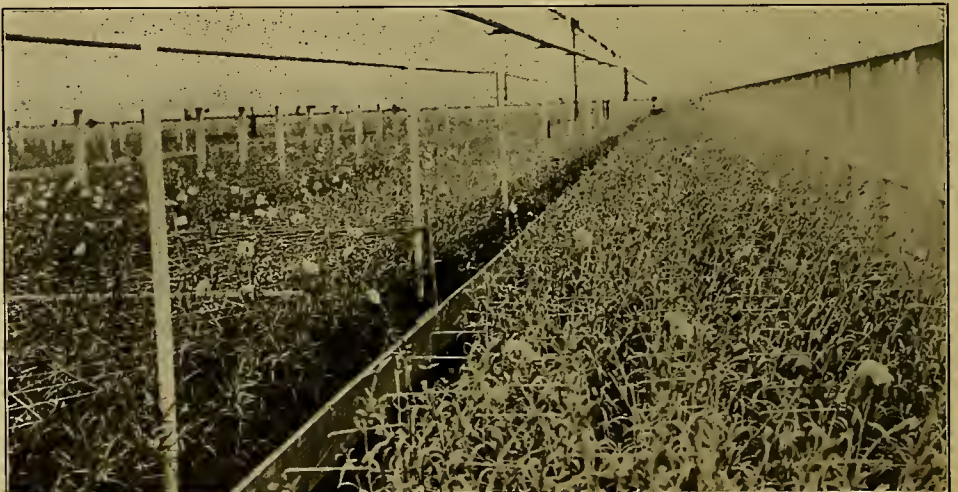
Abandoned Market Gardens and Farms.

The effect of the abandonment of large areas of land in New York City upon the seed trade as reported in last week's Florists' Exchange is only one of the results of the land boom of the last two years. It is roughly estimated that in Greater New York and Nassau county, Long Island, there are at least 50,000 acres of land which are not cultivated. A considerable part of this land has been taken out of cultivation during the past two years. This land was, according to the last United States census the most intensely cultivated, that is to say, the most productive land in this country. It was fertilized by manure from the stables of the city, the farmers taking a load of produce to the market and returning with a load of manure. The labor was performed for the most part by German men and women, who worked almost continuously at low

withstanding the profits of the small farmers, they could not resist the temptation to accept three thousand or more dollars per acre for their land, when, in many cases, it only cost a few hundreds. They have sold out. Their farms and gardens are cut up into small so-called building lots and are growing up with weeds and underbrush. As a rule the farmers have given up farming altogether. A

A. Bertermann Range.

Our illustrations show an exterior view of part of the new range of Bertermann Brothers Company, near Cumberland, Ind., also interior view showing construction, and a house of Spiraea Gladstone with a background of poinsettias grown for the Christmas trade.



Carnation House of Bertermann Bros. Co., Showing Construction

As a Matter of Course You are Looking for the Best and the Most Profitable Pink Carnation. What Shall it Be? Our Answer Is: Invest in the

ROSE PINK ENCHANTRESS

It is a Sure Thing and Ours is the Only True,
Dark Pink Sport of Enchantress Worth Growing

Enough were Disseminated in Various Sections of the Country During the Past Season to Prove that it is the Best and the Most Profitable Variety in Sight To-day. But we will let the Following Letters Speak for Themselves:

"Rose-Pink Enchantress is by far the best carnation we have ever grown. Have had it in bloom now for two months and it has commanded 25 per cent. better price than any other fancy carnation. Its pleasing color makes it a quick seller and am sure it will be one of the most popular varieties for years to come."—Mrs. R. Mauff, Denver, Colo.

"It is identical with Enchantress except for the lovely pink color. The 700 plants we have, although doing well, cannot furnish one-fourth enough to supply the demand for this color continually ordered in advance."—C. F. Baker & Son, Utica, N. Y.

"The stock of Rose-Pink Enchantress furnished by you last spring was of a high character; the plants are producing blooms superior to its parent (Enchantress). We believe it to be far superior. Its shade of pink is a color long sought after. We are sure it is one of the best acquisitions in Carnations we have had in a long time."—J. Breitmeyer's Sons, Detroit, Mich.

"Our Rose-Pink Enchantress are simply grand and we shall not sell any cuttings, but reserve all for ourselves."—Geo. E. Buxton, Nashua, N. H.

"We are much pleased with the Rose-Pink Enchantress. We grew it under glass all summer and began to cut in August. It was a little light early, but far superior to Enchantress, which was a washy color. The color is fine now, just the shade the public wants. We shall grow 5,000 of them next season."—W. J. Palmer & Son, Buffalo, N. Y.

"We are much pleased with the Rose-Pink Enchantress bought of you last season. We find it strong and healthy, coming into bloom early, and being a clear pink, just the color needed. Shall plant more of it next year. We consider it one of the best varieties sent out the last few years."—Patten & Co., Tewksbury, Mass.

"Would say we consider it the finest thing we have in Carnations and we have nearly all the latest."—Fairview Greenhouses, Victoria, B. C.

"I believe your Rose-Pink Enchantress is if anything, better than the original. The color is fine."—John Murchie, Sharon, Pa.

"Rose-Pink Enchantress bought of you has proven most satisfactory; fine, clean Joost color, with all the qualities and size of Enchantress, if anything stronger in growth. Consider it the best pink on the market."—J. Louis Loose, Washington, D. C.

"We are very favorably impressed with the Rose-Pink Enchantress; it is a much stronger grower than the Enchantress, of a pleasing color, and one that we will plant largely next season."—J. Gammage & Sons, London, Ontario.

"We consider Rose-Pink Enchantress one of the finest carnations of its color in recent introduction. It not only seems to be of sturdier habit than its parent, but the flowers actually come larger. It has come to stay. What it may do to Lawson! Time will tell."—Crabb & Hunter, Grand Rapids, Mich.

"We have so many failures put on the market in these late years that it is a pleasure to strike something that is really good. This we can say of the Rose Pink Enchantress, having all the merits of a good Carnation, this meaning a free bloomer, beautiful color and a fine commercial flower. A practical, excellent Carnation."—Mianapolis Floral Co., Mianapolis, Minn.

"We consider the Rose Pink Enchantress one of the best in the market and have given our foreman instructions to propagate every one possible. We think it is an ideal variety and are sure that it will be one of our leading kinds for the next few years."—Geo. A. Kuhl, Pekin, Ill.

"The color of Rose Pink Enchantress is grand, its growth more vigorous than Enchantress, my neighbor florist is delighted with it."—George Corbett, Cincinnati, O.

"We consider the Rose Pink Enchantress equal in every respect to the light pink and in color, far superior. We intend to grow it much heavier next year."—Honaker, "The Florist," Lexington, Ky.

"I consider the Rose Pink Enchantress equally as good as the 'Light Pink One, which is known over the whole universe as the best on the market today. The color of the Rose Pink Enchantress, being the same as that of Joost, adds still more to the merit of this variety. There is no chance for anyone to make a mistake in growing 'Rose Pink' and we are going to propagate all we can for next year."—Jacob Schulz, Louisville, Ky.

"The Carnation Rose Pink Enchantress that you sent out is all right, a good seller and a good grower, in fact it is a 'Chip of the old block' in every respect, except color. We will grow a big lot of it next year. We were lucky to get a thousand of it last year."—Joy & Son, Nashville, Tenn.

"The Rose Pink Enchantress is one of the most noteworthy novelties that has been offered in some time; with us it is the most vigorous grower on the place. So many novelties fail to fill the bill, that when one gets something that does it is a pleasure to say so."—Salter Bros., Rochester, N. Y.

"In regard to the Rose Pink Enchantress would say that we are well pleased with the variety, the color is pleasing and a color that takes well with our customers and we shall grow it in quantity another year."—A. N. Pierson, Cromwell, Conn.

"In regard to Rose Pink Enchantress I can say that ours are doing fine. It seems to be as profitable, if not more so, a Carnation as Enchantress, and the color is all you can wish."—Fred Burkl, President Pittsburg Rose & Carnation Co., Gibsonia, Pa.

"Our experience with Rose Pink Enchantress Carnation purchased from you last season has been very gratifying throughout. We are certainly much pleased with it and shall grow them in large quantities next season."—Wm. Roethke Floral Co., Saginaw, Mich.

"If you remember I received my cuttings from the last batch—on May 3d, but they started off to grow at once, I grew them on until I had them in 5-inch pots before planting. It has done so well that the plants are fully as strong as the Light Pink Enchantress, though at least two months younger. It is evidently a stronger grower than Enchantress, the color is an ideal pink and there is no doubt that it will become one of the leading pink varieties and just as indispensable as Enchantress. No one need hesitate buying stock of it."—F. J. Fillmore & Son, St. Louis, Mo.

"The Rose Pink Enchantress you furnished pleases us very much. The color is very fine and just what the public wants. The cuttings you furnished were very good and we have now large and strong plants. We shall grow a big batch of it next season."—Emil Buettner, Park Ridge, Ill.

Don't Hesitate, Don't Doubt. THE ROSE PINK ENCHANTRESS is Sure to Prove a Splendid Investment
Price for Strong-Rooted Cuttings, February and Later Deliveries, \$7.00 Per 100. \$60.00 Per 1,000

S. S. SKIDELSKY

824 No. 24th St., Philadelphia

B. SCHROETER

59 Broadway, Detroit, Mich.

ADDRESS ALL CORRESPONDENCE TO S. S. SKIDELSKY

FOR THE RETAILER

[All questions relating to the Retail Trade will be cheerfully answered in this column. We solicit good, sharp photographs of made-up work, decorations, store interiors, etc., for reproduction here.—Ed. F. E.]

The Christmas Trade.

From what I can gather everybody seems satisfied with the past Christmas business. Many stores cleaned out entirely, not having a plant left fit to sell. Anyone who has a few pieces on hand will easily dispose of them for New Year's, and many are buying quite heavily in anticipation of a good business then. This holiday is getting better every year, and as it follows so close on Christmas, it proves a good outlet for left over stock.

Sales of cut flowers were, in most cases, heavier than last year; and, I think, flowers are getting back into favor as Christmas offerings. The plant trade was especially difficult this season, owing to the extreme cold weather, for which few were prepared. The growers, however, were fortunate, most of them making their deliveries before the cold weather set in. A great many plants were reported frozen by customers which, of course, means that these have to be replaced, the retailer being the loser.

Very little was shown that was new or original or in any way different from former years. Pans of *Cypripedium insigne* were largely in evidence and one store made quite a feature of them by filling them out with branches of black alder. The latter, coming from cold storage and being well berried, made an otherwise dull plant bright and attractive, and a ready seller. The pans were covered with red raffia baskets. *Araucaria excelsa* were also made a feature here. The plants were removed from the pots and fastened to ten-inch papier mache saucers, sphagnum moss being used to fill in with. Well berried holly was then used to cover up the moss. These plants made handy center-pieces for Christmas dinner tables, and sold largely for that purpose.

A Broadway store had for sale some large orange plants, the baskets being covered with black velvet, tied with orange and black ribbon—a most striking effect?

Another prominent florist went in extensively for "fancy poultry," in the shape of birds of paradise, ostriches, quail, etc., their bodies forming egg-shaped boxes for the reception of bunches of violets, or other small corsages. Imitation steel-bound chests, having the appearance of being rusted, were also used, and for the same purpose.

Holly painted white and frosted was the attraction of one Fifth Avenue store window. This was suggested by a society leader last season, and it proved a great success. The "hall room" of her home was decorated entirely with it. She gave orders for large quantities of holly to be painted white (leaves only), the berries to be left in their natural color. While the paint was still moist, glass crystals were thrown over the branches giving a splendid imitation of snow. Twelve cases of holly were treated in this manner and it took a large force of "painters" nearly a week to complete the work. But it was well worth the trouble and, of course, money was no object.

A Christmas Dinner Decoration

of *Adiantum Farleyense* and English mistletoe is perhaps worthy of description. It was for a large party of twenty covers. A gold service was used. A low center-piece and four loving cups were filled with *Adiantum Farleyense* and English mistletoe, the latter predominating. A. *Farleyense* and well-berried mistletoe were laid on the cloth in formal designs. The effect was exceedingly rich, but most customers call for something brighter for Christmas.

The very large table that I saw was treated as follows: The whole table, except about two feet around the edge (reserved for service), was covered with green moss; small Christmas trees, none of them being of over twelve inches high, were stood around at irregular intervals, giving one the impression of a growing forest. Frosting was thrown over the whole for a snow effect. Miniature sleds drawn by dogs, a couple of bears, a miniature frozen lake made of glass with a log cabin on its banks, and a group of trappers, made a very appropriate decoration, the fragrance from the natural spruce trees being most agreeable.

Stock on the Market.

Lilac has appeared on the market in small quantities and is very good, it being quite early. *Narcissus Golden Spur* is also here. I saw some gardenias this week from Pennsylvania, with stems eighteen to twenty-four inches long, quite the finest I have ever seen, the foliage and flowers being perfect. A dollar and a half was readily paid, and the flowers were really worth it.

D. RAYBUN.

IN MEMORY OF THE LATE LEWIS ULLRICH.

—David J. Salter, a prominent citizen of Tiffin, O., and a warm friend and admirer of the late Lewis Ullrich, bequeathed on Christmas Day to the city of Tiffin a parcel of ground to be beautified, maintained and owned by the city and to be forever known as "Ullrich Place." The ground is the triangular tract at the intersection of and between Clinton Avenue and Hunter Street and extending for 100 feet on each of said streets from the intersection thereof. Mr. Salter says: "This ground contains a magnificent maple grove and is so located that it can be transformed into a bower of beauty which will be the pride of every citizen and at the same time be a memorial and testimonial of one who has done more than any other person to assist in beautifying our city and inculcating in the minds of the people a love of the beautiful in nature and in art.

"I desire that the improvement and beautifying of 'Ullrich Place' be placed under the direction of the Present Day Club of the city of Tiffin, with which Mr. Ullrich was affiliated, in conjunction with the members of his family, and I hereby appoint Hon. John C. Royer and R. L. DeRan, solicitor of the city of Tiffin, to see that the deed to said property is made out and executed in accordance with the views above expressed."



Archie Walker
Pres-Elect Montreal Gardeners and Florists' Club

Magnolia Soulangiana as a Tree.

At the present time nearly all the specimens of *Magnolia Soulangiana* seen on lawns are in bush shape, the form of growth they are usually sold in in nurseries. But although they are sold in this form it is always optional whether the shape be continued or not. If not desired as a shrub, cut away all the shoots but one strong central one. Should there be none of this description, cut the whole bush down to within six inches of the ground in early Spring, and then as new shoots are formed cut away all but one strong central one. This one will be the basis of the coming tree. This plan often gives better results than any other, for the stronger the bush cut down the more vigorous will be the shoots it will make when Spring comes.

The few specimens of this magnolia, and of *M. conspicua* of tree shape seen on lawns are objects of great beauty, and the wonder is that more of them are not grown in this way. The plane, the linden and the poplar are bereft of foliage often before the Summer days are over. On the other hand, the magnolia has its foliage green and perfect until the freezing weather comes. All Summer long it is of a deep pleasing green; and these merits are in addition to its having beautiful flowers in the earliest days of Spring.

Some of the lawn specimens seen on the older estates here are fine shade trees. They were started as trees when young, are five to six feet above ground before the branches appear; and as well developing spreading heads were made, they are excellent shade trees. For a lawn shade tree *Magnolia Soulangiana*, *M. conspicua* and their hybrids could well be used much oftener than they are.

Nurserymen advocate early Spring planting of the magnolia north of Virginia. There is something in Fall planting the trees do not like; and whether it be Spring or Autumn the pruning knife should be used freely at transplanting time.

JOSEPH MEEHAN.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

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YOUNG & NUGENT, 42 West 25th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 MADISON AVENUE. My facilities for delivering flowers for any and all occasions are unexcelled; I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

LAMBROS MULINOS, 503 Fifth Avenue, and 301 Columbus Avenue. I have at all times a superb stock of reasonable cut flowers and can fill telegraphic orders at a moment's notice.

Kansas City, Mo.

SAMUEL MUREAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonal varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

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THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders, placed with us, will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Tex. and La. Mail and telegraphic orders solicited.

GERBERA JAMESONII.—In reference to the communication which appeared in your columns on October 27, I may say that it is quite erroneous to state that *Gerbera Jamesonii* occurs only in the Kaap Valley. It is common at various points all along the eastern slope of the Drakensberg Range, at an altitude of about 2,000 to 2,500 feet. I have found it in great quantity on the Government Tobacco Estate in the Zoutpansberg district, about 150 miles north of Barberton, and have heard of its occurrence in plenty in the Middleburg district.

I have seen plants bearing flowers of the various colors referred to by Mr. Graham-Lawrence, which are not of infrequent occurrence, though not common. There is also considerable variation in the tints of red displayed by different plants.

The "Barberton Daisy," as it is called in the Transvaal, grows luxuriantly in Pretoria gardens (altitude 4,500 feet), withstanding several degrees of frost and forming handsome clumps of dark green foliage.

During the last three dry years it has been rather unusual to find fertile seed on either wild or cultivated plants, but this year my plants are bearing more fertile seed, perhaps on account of the better rainfall, or perhaps because the plants are older.—**JOS. BURTT-DAVY, Agrostologist and Botanist, Pretoria, in Gardeners' Chronicle.**

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties
Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order

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ARISTOCRAT (Beautiful Cerise)
RED RIDING HOOD (Scarlet)

Also many other good ones. Early delivery of well rooted first-class healthy cuttings. Send in your order early. Catalogue ready Jan. 1st, 1907.

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A. T. PYFER, Mgr. JOLIET, ILL.

Mention the Florists' Exchange when writing.

MABELLE--New Pink Carnation for 1907

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size.—Three to four inches in diameter when established. Odor.—Pleasing, but not strong. Stems.—Invariably strong, but always graceful, ranging from 12 to 50 inches during the season. Habit, etc.—A very quick and vigorous grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Sets away rapidly, blooms early and gives long stems right from the start. Productiveness.—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. Delivery Jan. 5th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD.

Mention The Florists' Exchange when writing.

SURPLUS STOCK

In Excellent Condition

New Year's the time for parties and balls, is now on the programme. What will you use to decorate? Take my advice and use for a centerpiece an **ARK OAKRY**, **CELESTIA**, **ROBERTA** or **GLAUCIA**—the kind and size I grow. You will be surprised what a lovely effect they will have when placed upon tables of dinner or supper parties, or any other place in the house. These plants have just got on hand now from Wood and Sons.

Price: 8-7 in. pots, 4-5 year old, as broad as high, 4-5-6 tiers, from 22-36 in. in height, \$1.50, \$1.75, \$2.00 to \$2.50 each. **Glauca** specimens 7 in. pots, 38 in. high, 38 in. wide, 5 tiers, \$2.50 to \$3.00; 6 in. pots, 3 years old, 4-5 tiers, \$1.00, \$1.25 to \$1.50 each.

KENTIA FORSTERIANA PALMS not coarse with us; have plenty and can meet all wants, cheaper than ever; 6 1/2 to 6 in. pots, 30 in. high, 6 good leaves, 60c., 76c., and 85c. each, 7 in. pots, made up, 1 large size, about 40 to 46 in. high in the centre, and three smaller size plants 25 to 30 in. high around, which gives them a fine appearance, price, \$2.00 to \$2.50 each. 6 in. pots, single plants 36 to 45 in. high, 5 to 6 good leaves, 4 years old, \$1.25 to \$1.50, \$1.75 each. 6 in. pots, 32 to 36 in. high, 5 to 6 good leaves, \$1.00 each, 5-1-2 to 6 in. pots, 30 in. high, 5 good leaves, 4 years old, 76c. to 85c. each.

ARECA SAPIDA, just imported from Belgium, something new, looks like Kentia palms, about 25 in. high. Look! only 50c. each, worth \$1.00. This is a bargain seldom offered.

ASPARAGUS SPRENGERI, 4 in. pots, 10c.

FERNS,

All raised in pots and not on benches as follows:

NEPHROLEPIS BARROWSII, 7 in. pots, as big as a bushel basket, 75c. to 1.00 each. 6 in. pots, large, ready for 7 in., 50c.; 6-1-2 in. 40c.; 5 in., 30 to 35c.; 4 in. 25c.

BOSTON FERNS, 7 in., very bushy, only 75c.; 6 in., 50c. or 55.00 per doz.; 5 in., 30c. to 35c.; 4 in. 25c.

NEPHROLEPIS SCOTTII, 6 in., as big as a washb., worth \$2.00, now \$1.25; 7 in., as big as a bushel basket, worth \$1.25, now 75c.; 6 in., 5c.; 5-1-2 in. 40c.; 4 in. 20c.

MAIDEN HAIR FERNS, (*Adiantum Conocatum*), 6 in. pots, 35c. and 40c.

AZALAS FOR FASTER FLOWERING Plants now in bloom or bud, 76c., \$1.00 and \$1.25 each.

BEGONIA, new improved **ERFORDI**, uses bloomer for Christmas and all through the winter, pinkish flowers, 4 in. pots, 20c.

BEGONIA FLAMBEAU, good seller, large, 4 in., fit for 6 in., 20c.

DRACAENA BRUANTII, Imported from Belgium. This is the best dracaena grown for house cultivation. Most favored all over Europe; can stand any amount of dry heat, dust or dirt, always full of green waxy foliage from top to bottom. 6 in. pots, about 30 in. high, 60c.

FERNS for dishes, best varieties, 2 1/2 in., 5 c., 3 in., very strong, 6c.

All goods must travel at purchaser's risk.

When ordering, say whether the plants should be shipped in the pots or not. Cash with order.

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Importer and Wholesale Grower of Pot Plants.

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ENCHANTRESS, QUEEN FAIRMAID, RED SPOT, HARLOW ARDEN, pink, white and variegated **LAWSON**, \$10.00 per 1000. **WHITE PERFECTION** and **VICTORY**, \$30.00 per 1000. **LADY BOUNTIFUL**, \$12.00 per 1000. **LEUTENANT PEARY**, \$15.00 per 1000. **SCOTTI FERN**, 6 in., \$25.00 per 100. **COLEUS**, *Verschaefeltii* and *Golden Bedder*, 2 in., \$18.00 per 1000.

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We can furnish cuttings of all the Standard Varieties

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WHITE —Queen.....	\$1.50	\$12.50	Helen Goddard.....	\$4.00	
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White Lawson	2.00	17.50	RED —Red Lawson.....	3.00	25.00
PINK —Enchantress.....	2.00	15.00	Robert Craig.....	5.00	
Lawson	1.50	12.50	Harry Fenn.....	2.00	15.00
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REVIEW OF THE MARKET

NEW YORK.—The cut flower trade for New Year's day, and the two days preceding, was of but an ordinary nature. It has come to be understood now that there is not much more to be done in the flower line on the first day of January than there is on an ordinary Saturday; and the prices of stock of all kinds were regulated accordingly. We should mention here that a general cutting of values went into effect the day following Christmas—rather an unusual proceeding—but made necessary this time on account of the quantities of stock left over and regular daily shipments coming in, which had to be disposed of at some price or other.

Sunday and Monday were two stormy, wet days, and values averaged quite low. It has been usual to maintain Christmas values until after New Year's for some years past, but this time such a thing was impossible; and weather conditions were, to a degree, responsible for the lower prices on the days mentioned.

On Tuesday the weather was fair and more cheerful and a partial recouping of the selling price in some lines was accomplished. The best American Beauty roses were pushed to 75c. each, and the best grades of tea roses were disposed of at from 15c. to 20c. each; the latter price was, however, only obtained for a limited supply of superfine quality. These figures seem low in comparison to those that ruled at Christmas, still they are much better than what had been obtainable during the latter part of last week and the beginning of this one.

Carnations were in quite heavy supply, and prices diminished equally as much as did those on roses. For novelties 10c. was considered the outside, and such varieties as Enchantress, which a week ago would have fetched 12c., were freely offered at 6c. each. Red kinds have been plentiful and have been disposed of in quantities at \$5 per 100; ordinary grades, in all colors, have been obtainable at any time since Christmas at \$2 and \$3 per 100.

The shipments of violets on Monday evening were heavier than anticipated, and clearances were out of the question unless figures were made to suit the speculators, and this the dealers strenuously objected to in many instances, with the natural consequence that many violets were left over on Tuesday at closing time. Prices ruled at from 60c. to \$1.25 per 100.

Orchids, lily of the valley, Paper White narcissus and lilies were plentiful enough for all calls and some to spare.

Novelties in supply were wallflowers, nasturtiums, jonquils and white lilacs; the two latter mentioned flowers met with some encouragement but as regards the former nobody seemed over anxious for them.

Sweet peas are coming in regularly, and there is still a scattering supply of chrysanthemums. Gardenias are bringing but \$1 each for the best, and it may be observed that finer stock of these was never before offered at this season of the year.

Asparagus and smilax are in fair demand daily; the supply of these two staple products seems to be so regular and even now that seldom does a change occur in their market values.

CHICAGO.—The aftermath of probably the greatest holiday trade that this city has ever seen, in a little that was not well known before, yet, however well posted one may be, there is always something to learn. It became evident in the middle of the preceding week that red stock of roses and carnations, especially the former, was shy and that more goods had been sold than could be delivered; consequently the prices were unstable, and it was a matter of getting all that the purchaser would pay. On Sunday the pickled carnations, particularly white and an abundance of other white stock, made their nod to the market, and prices dropped on this line, yet good colored stock held its own. It is safe to say that everything, with the exception of white carnations, Roman hyacinths, Paper White narcissus and surprising as it may seem, poinsettias, which were in over supply, cleaned up to the entire satisfaction of all parties concerned. It may be mentioned incidentally that there was more stevia than could be taken care of; and mignonette was rather more in supply than in demand, as was also lily of the valley except in high grade stock.

It was reported through the market on the holiday rush that Pochmann Brothers were to largely increase their floor space in the basement of the Atlas Block, but it is asserted by the holders of the leases on all three sides where extensions would be possible, that if the extension occurs it will have to be on an upper floor.

Violets were much in demand during the holidays, and were as a general rule in excellent form.

Nothing succeeds like success, and the grower who has confidence enough to consign his goods to a commission man of his own selection should certainly have confidence enough to send these goods when they are ready and let his agent, who is in close touch with the market, use the goods to the best advantage. That means "success."

The following were the prices quoted on January 1, 1907: American Beauty, per dozen, 36 in., \$5 to \$6; 30 in., \$4 to \$5; 24 in., \$3 to \$4; Roman hyacinths, per 100, \$2 to \$4; carnations, 1.50 to \$2; fancy, \$2 to \$4. Prices of adiantum and asparagus same as last week. Lilies, \$16; cattleyas, \$50 to \$75; smilax, \$8 to \$12; lily of the valley, \$2 to \$4. Violets, ferns and galax, as also Paper White narcissus, remain unchanged.

W. K. W.

BOSTON.—There is quite a change in the market this week and high prices have not been maintained except in a few instances. Carnations are now plentiful, selling at from \$3 to \$5 for the best grades, while a few fancies bring \$6. There is not a heavy demand for white carnations. Roses sell at from \$4 to \$12, while some exceptional blooms of the common sorts bring \$2 per dozen. American Beauty still maintain a fairly good price, the best grades bring \$6 and \$9 per dozen. Violets are at 75c. and \$1; sweet peas \$1, while some extra fine blooms bring \$1.50. Lilies are not plentiful. Callas bring \$1.50 and \$2 per dozen; lily of the valley, from \$2 to \$5; mignonette, \$2 to \$5. Paper White narcissus and hyacinths bring \$2. Yellow narcissus have made their appearance, selling at \$4. There is practically no change in the prices of greens.

J. W. D.

PHILADELPHIA.—From Christmas day until New Year's the market was somewhat sluggish; flowers did not move at all well. This week a large amount of business developed for New Year's day, and the vim given to the market has held up very well. American Beauty roses are selling at \$9 per dozen for the very best; a large lot carried over from last week went at \$10 per 100, for a decoration. Tea roses are in rather better supply. Some extra choice Killarney from the East are selling at \$25 per 100; all regular varieties are going at from \$10 per 100 up. Carnations are more plentiful, general stock selling at from \$2 to \$6 per 100, while some extra choice Enchantress brought \$8 per 100.

Double violets are at \$2 per 100 this week, the large singles at \$1 and \$1.50 per 100. Mignonette brings \$4 to \$8 per 100; sweet peas, \$1 to \$1.50, a few extras \$2 per 100. Narcissus Von Sion sells at \$8 to \$10 per 100; gardenias, 50c.; cattleyas, 50c., and 75c. for selection of color. Asparagus and cut ferns are moving more freely.

DAVID RUST.

PROVIDENCE, R. I.—Business here since Christmas has been very good with stock of most kinds scarce and high priced. And it looks as though this condition of things would last for some time, owing to the extraordinary demand caused by the general holiday trade and the extra number of social events.

The wedding decorations for the Goddard-D'Andigne wedding were to the most elaborate ever seen in this city; they were furnished by O'Connor, on Saturday, December 29.

Monday next is the inauguration of P. J. McCarthy, one of the most popular Democratic mayors elected to the seat in this city. It is also inauguration day for our City Fathers and it is predicted by the retail florists here that it will be another banner day, judging from the way orders are coming in. C. A. J.

LATEST CHRISTMAS REPORTS.

ST. LOUIS.—The general outcome of business for Christmas was from all reports very satisfactory, and the florists all over the city enjoyed a full share of patronage from the great multitude of shoppers. Some of our uptown florists, who handle great numbers of blooming plants, sold out clean. The weather was favorable for delivery, and plants needed only little wrapping. Begonia Gloire de Lorraine led; next came poinsettias and azaleas, then cyclamen, araucarias and other decorative plants. Made-up plants in hampers and birch bark baskets were in great demand.

Not only was the plant trade above the average, but the cut flower trade was also quite extensive—very much better than last year's and with better prices on almost every variety and grade. Fancy stock came high, but no question was asked when quality was shown, especially in the case of carnations. They brought \$12 per dozen for the best; other fancy roses of the smaller varieties sold at \$15 per 100. Carnations, when fancy, brought \$8, and nothing under \$4 per 100 was sold. Violets were never better in quality at \$2 per 100. Bulbous stock, as usual, was plentiful, with no increase in price.

In greens the market was in full supply. Holly, mistletoe and wreathing sold well.

Among the most prominent retailers' reports, are the following: George Walbart found a large increase in both plants and cut flowers. Mrs. Avery's trade was fully up to last year's. C. Young & Sons Company did a big business in both plants and cut flowers. F. C. Weber had a large stock and cleaned out early. Ellison, Kalish, Windt and F. H. Weber had all they could do. Charles Connors, at Michel's, had his hands full, as did Sanders and Alex. Waldhart & Sons. Henry Ostertag is glad it's over. Riessen and Foster, downtown, had a great rush on Monday and Tuesday.

All of the north and south St. Louis florists report a good demand for almost everything. So the Christmas business of 1906 goes down as the best in years.

ST. PATRICK.

ST. PAUL.—Business this Christmas was nothing short of a revelation to nearly all of the dealers. While a big trade was anticipated, no one expected it to be as heavy as it really was. Every bit of holly and green was sold and a great many re-orders were sent in. Christmas trees sold well and there is not one to be seen at the different places. Plant sales were heavy, and the only things not sold were a few Gloire de Lorraine begonias and azaleas. Poinsettias went fast and at good prices. The cut flower business seemed to puzzle the most of the trade. The demand was unusually strong and the supply was equal to it. Roses brought good prices; specimen stock of Richmond and Killarney sold at \$50 and \$5 per dozen, and in some cases \$6 per dozen. Bride and Bridesmaid brought \$3 and \$3.50 per dozen. Carnations sold at \$2.50 and \$2 per dozen, the latter price being asked by most of the trade. American Beauty ran from \$8 to \$24 per dozen. A great many were sold at \$15 and \$18; in fact, that price seemed to be the limit. Violets brought \$4 and \$5 per 100; the quality was not as good as it should have been, but the flowers had the color and sold readily. Roman hyacinths and Paper White narcissus found slow sale and in a great many cases were disposed of only in making up assortments.

L. May & Company report business the best they have had for a great many years. Plants sold exceptionally well and prices seemed to cut but very little figure when customers got what they fancied. Poinsettias in pans appeared to have the lead in sales; cut poinsettias also went well. Azaleas did not go so well as expected, and it begins to look as though the poinsettia were fast driving it out as a holiday plant. Cyclamen commanded a good price, ranging from \$1 to \$6 for specimen plants. Cut flower sales were unusually heavy.

Colberg & Lemke, who but recently succeeded the Swanson Floral Company, report an active business. Their trade seemed to run heavily on cut flowers; they handled some very fine Richmond selects which sold for \$6 and \$10 per dozen. They also disposed of a large number of elegantissima ferns at big prices. Their cut poinsettias were as good as ever seen in this locality.

Holm & Olsen were very busy; their sales appeared to run more to plants than with other dealers. Their poinsettias in

pans were very good. They also had a large number of Gloire de Lorraine begonias, which did not move as fast as other stock.

C. F. Vogt, also Vogt Brothers, did well both in plants and cut flowers, but they claim the former led in sales. They turned out some excellent holly wreaths, very artistically arranged, which commanded a good figure. Princess pine sold well with them, in fact, they cleaned out of it entirely.

Otto Hierserkon reports a very fine trade, and an exceptionally heavy demand for holly and green wreathing. It was noticeable that about every merchant's store in his locality was decorated with holly and green.

E. F. Lemke reports a very satisfactory trade and claims that his demand was principally for cut flowers. Plants did not sell very well with him.

Krink & Son sold about all they could cut and appeared well satisfied with results.

The Randaley Floral Company turned over a great many Christmas trees in addition to a heavy business in cut flowers and plants.

MILLWAUKEE.—With only about four days of sunshine during December stock came in better than expected for Christmas. However, many more roses and carnations could have been sold had they been available. Roses showed the effects of the dark weather more so than carnations, and much sorting out was required to make up shipping orders. The average grade of carnations was fine; the select red and Enchantress brought \$10 per hundred, good shipping stock from \$6 to \$8. Roses sold at a higher figure than last year, the best class stock brought \$18 to \$20; medium grade, \$10 to \$15, and shorts, \$6 to \$8. Stevia was plentiful; about \$1.50 per hundred was the average price. Roman hyacinths, lily of the valley and Paper White narcissus came in freely, selling at about \$3 per hundred.

Violets were plentiful, \$2 per 100; \$2 per hundred was the top figure for good stock. American Beauty never soared so high before; the prices demanded were almost beyond reason, yet the flowers sold. However, the supply was so limited that some one was willing to pay any price to get them. Poinsettias were fairly plentiful and sold at better figures than last year.

There was a heavy call for plants. Good cyclamen were scarce, but there was a quantity of azaleas, poinsettias and primroses to be had. Very few Gloire de Lorraine begonias were seen this year. Holly and mistletoe were plentiful, but bouquet green was very scarce. The produce commission men are cutting quite a figure in the handling of Christmas goods nowadays; almost any kind of decorative stock is now carried by them.

HARTFORD, CONN.—The weather was certainly against us this time, nevertheless there was a greater amount of business done at Christmas than ever before. All kinds of cut flowers were short of the demand and orders had to be refused a number of days before Christmas. Roses were very scarce; it so happened that nearly all the rose crops were off around here, consequently very few good flowers were in the market. Liberty brought from \$2 to \$3; Bride, Bridesmaid and Golden Gate, \$1.50 to \$2.50 per dozen. Carnations were as usual most in demand, although there was a greater supply of them than a year ago. Many more could have been sold if available. They brought \$1.50 per dozen for the best and \$1 for ordinary. Violets were of good quality and sold well at \$2 per hundred. Roman hyacinths, Paper White narcissus, stevia, mignonette, and sweet peas went about as usual; they were used to good advantage in making up boxes of mixed flowers.

In the plant line, poinsettias and cyclamen were perhaps the best sellers. The first named sold readily at from \$1 to \$2 per pan; a few of the higher priced ones were disposed of at \$3 and \$5 per pan. Good cyclamen plants brought from \$1 to \$2 each. Gloire de Lorraine begonias sold well at from \$1 to \$2 per pan. There was a scarcity of azaleas; those available sold readily at from \$1.50 to \$3 each. Small primroses brought 25c. and 35c. each. Jerusalem cherries in 5-inch pots realized 50c. and 75c. each. There was a good demand for all kinds of ferns; but palms and other decorative plants did not seem to sell as well as last year. There was but very little call for baskets of made-up plants.

J. F. COOMES.

A. L. YOUNG & CO.

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California Plant Notes.

An eupatorium, known here specifically as arboreum, is now in full bloom and will so continue until May. The umbels are loose and as much as a foot in diameter. If given room to develop the plant grows to a large size. The stems, of an inch or two in diameter, are as hard as those of any other shrub.

Sweet alyssum is a perennial here, and if kept sheared close soon after the blossoms begin to be on the decline, may be had in bloom every day of the year.

Bignonia venusta, just now coming into flower, is one of our most attractive Winter-flowering plants. It is surprising how low a temperature it will endure and do well. This entire family of plants is one of the most valuable we grow in Southern California. B. venusta is followed in early Spring by B. siderifolia, with its larger creamy white flowers in great profusion. This variety is succeeded by B. buccinatoria, with its large bright red blooms with a yellow throat. At the same time the deciduous varieties are in their glory.

Japan persimmons are so well adapted to California climatic conditions that they will soon be one of our staple products for home consumption. They are too soft for shipment, therefore will not appear in Eastern markets. Wherever they will stand the climate they should be largely planted. Some varieties produce fruit of a pound weight, and that too without a seed.

The beauty of Solanum Rautouneitii must be seen to be appreciated. Shrubby in habit, it is one of the most desirable subjects we grow on this coast. The flowers are of an intense violet blue, with a centre of gold.

Fatsia papyrifera is now in full bloom for the second time this season—an unusual thing for this sub-tropical plant.

P. D. B.

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25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class to every respect. First size, large plants, ready to bloom, \$1.00 per 100; \$7.50 per 1000; by express only. Second size, strong plants, 100 by mail, 60c.; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

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GERANIUMS

S. A. Nutt, \$10.00 per 1000. Well rooted and packed right. Cash with order.

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- GLADIOLUS**, blooming bulbs, extra fine mixture to close out while they last, 60c. per 100; \$5.00 per 1000.
- VINCA**, Var., 2 inch, \$2.00 per 100.
- REX BEGONIA**, nice plants, 2 and 2 1/2 in., \$5.00 per 100.
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Extra strong, bushy, 3 in., ready February. \$4.00 per 100; \$35.00 per 1000. Large, strong, 2 in., ready now, \$2.00 per 100; \$17.00 per 1000; leading varieties. 15,000 5 in. standard pots, \$1.00 per 100; \$9.00 per 1000. Cash Please.

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	extra.....	25.00 to 40.00		STANDARD	White.....	3.00 to 4.00
	No. 1.....	15.00 to 20.00		VARIETIES	Pink.....	3.00 to 4.00
	No. 2.....	8.00 to 12.00		*FANCY—	Red.....	3.00 to 4.00
	No. 3.....	6.00 to 8.00	(The highest	Yel. & Var.....	3.00 to 4.00	
	Bride, Maid fancy-special....	12.00 to 15.00	grades of	White.....	4.00 to 5.00	
	extra.....	8.00 to 10.00	standard var)	Pink.....	4.00 to 6.00	
	No. 1.....	4.00 to 5.00	(NOVELTIES	Red.....	4.00 to 6.00	
	No. 2.....	2.00 to 3.00	GARDENIAS, per doz.....	Yel. & Var.....	4.00 to 6.00	
	Golden Gate.....	3.00 to 20.00	LILACS, per bunch.....		6.00 to 10.00	
	RICHMOND.....	4.00 to 30.00	LILIES.....		9.00 to 12.00	
	Mme. Abel Chateausy.....	3.00 to 15.00	LILY OF THE VALLEY.....		1.00 to 1.50	
ADANTUM.....	1.00 to 1.50		MIJONNETTE.....		15.00 to 20.00	
ASPARAGUS.....	25.00 to 50.00		NARCISSUS, Paper White.....		3.00 to 4.00	
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POINSETTIAS, CUT, \$15.00, \$25.00 and \$40.00 per 100
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Poinsettias \$25.00 to \$40.00 per 100

Open from 7 a. m. to 8. p. m.

GOOD FLOWERS—LONG STEMS
Wild Smilax \$5.00 per case
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Wholesale Prices of Cut Flowers—Per 100

Table with columns for cities (Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburg, St. Louis) and various flower types (Roses, Carnations, Orchids, Callas, Chrysanthemums, Lilies, Lily of the Valley, Mignonette, Smilax, Violets, Galax Leaves).

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Bell and Keystone Phones.

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YOUNGSTOWN, OHIO.—John Walker says the Christmas trade this year in this section has been fully 36 per cent better than for any previous year.

There was ample stock of all kinds, excepting red roses, which were very scarce. Violets and carnations were the best sellers in cut flowers, followed by roses, Roman hyacinths, Paper White narcissus, cut poinsettias, etc. In plants the poinsettia in pots and pans had the call, large numbers being disposed of. There was also a good demand for Begonia Gloire de Lorraine in 6 inch pans, Boston and Scottil ferns in 6, 8 and 10 inch pans. Ficus and medium-sized kentias and araucarias sold well. There were large numbers of boxwood, holly, and lycopodium designs disposed of in wreaths, baskets and balls. The prices realized on all the stock were about the same as last season.

DAVENPORT, IOWA.—John T. Temple writes: "The volume of Christmas trade was slightly better than last year's. Prices were about the same. Carnations were in good supply. The stock of roses was a little short. There was a good sale for poinsettias and Gloire de Lorraine begonia plants. A red cut flower was Bourvardia Lelanthe, an old but useful flower for the occasion. Altogether it was a prosperous Christmas."

BOSTON, MASS.

Asparagus Plumosus
Mignonette
Lil. Harrisil
Brides, 'Malds
American Beauties

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Orchids
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Wholesale Growers of Roses and Carnations Also 15 000 English Manetti, in fine shape and price right. Rooted Carnation cuttings in eighteen varieties.

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ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS

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Jan. 5, 1907

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 45-47-49 Wabash Avenue, Chicago.
Wholesale Cut Flowers and Florists' Supplies.
Shipping Orders Our Specialty.
 Do you receive our Weekly Cut Flower Price List? IF NOT WRITE US.
The Leading Florists' Supply House of the West.
 Supply Catalogue mailed on request. We carry the Largest Stock of Florists' Supplies in the West
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THE
FLOWER GROWERS' MARKET
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 60 Wabash Ave., CHICAGO.

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J. B. DEAMUD CO.
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 51 Wabash Av., CHICAGO
 Consignments Solicited

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 Wholesale Growers of
CUT FLOWERS
 All telegraph and telephone orders
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RICHMOND, INDIANA
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 Rose Growers
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 Wire Work our Specialty.
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PETER REINBERG
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 Careful attention to all
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ST. PAUL, MINN.
 Send us your Orders for delivery in the
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L. L. MAY & CO.,
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CHOICE AMERICAN BEAUTY ROSES
 We will take care of your orders at reasonable prices.
 Prompt Attention.
35 Randolph Street, CHICAGO, ILL.
 Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers, Chicago, Jan. 1, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		Standard	
36-inch stems.....per doz.	12.00	White.....	4.00 to 5.00
30-inch stems.....	10.00	Pink.....	4.00 to 5.00
24-inch stems.....	9.00	Red.....	5.00 to 6.00
20-inch stems.....	8.00	Yellow & var.....	5.00 to 6.00
18-inch stems.....	5.00	*FANCY White.....	6.00 to 8.00
12-inch stems.....	3.00	*(The high Pink.....	6.00 to 8.00
8-inch stems and shorts "	2.00	eat grades Red.....	6.00 to 8.00
Bride Maid, fancy special.....	10.00 to 15.00	of Sta'd var. Yellow & var.....	6.00 to 8.00
" extra.....	8.00 to 10.00	NOVELTIES.....	.....
" No. 1.....	..... to 6.00	ADYANTUM.....	..... to 1.00
" No. 2.....	..... to 6.00	ASPARAGUS, Firm & Ten.....	.35 to .50
Golden Gate.....	12.00 to 15.00	" Sprengeri, bunch.....	.35 to .50
Uncle John.....	6.00 to 15.00	LILIES, Longiflorum.....	..... to 20.00
Liberty.....	6.00 to 25.00	HARRISIA.....	..... to 20.00
Richmond.....	6.00 to 35.00	Orchids—Cattleyas.....	75.00 to 100.00
Killarney.....	8.00 to 12.00	SMILAX.....	..... to 12.00
" extra.....	15.00 to 25.00	LILY OF THE VALLEY.....	3.00 to 5.00
Perle.....	6.00 to 10.00	VIOLETS.....	1.00 to 1.50
Oshaney.....	6.00 to 20.00	" single.....	..... to 1.00
Callas.....	..... to 15.00	HARRY FERNS per 1000.....	..... to 1.50
POINSETTIAS.....	2.00 to 4.00	GALAX.....	1.00 to 1.25
HYACINTHS, Roman.....	2.00 to 4.00	NARCISSUS, Paper White.....	3.00 to 4.00
 tn.....	CHRYSANTHEMUMS per doz.....	2.00 to 4.00

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 37-39 Randolph Street, CHICAGO.
 Wholesale
CUT FLOWERS
 Roses and Carnations
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 GROWER of
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 Manufacturers of WIRE DESIGNS
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WHOLESALE CUT FLOWERS
 and FLORISTS' SUPPLIES
C. C. Pollworth Co.
 MILWAUKEE, WIS.

CHAS. W. MCKELLAR
Orchids
 FANCY VALLEY, ROSES, CARNATIONS,
 and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago
 Mention the Florists' Exchange when writing.

VAUGHAN & SPERRY
Wholesale Florists
 WESTERN HEADQUARTERS FOR
HUDSON RIVER VIOLETS
 Consignments Solicited.
58-60 Wabash Ave.,
CHICAGO.
 Mention the Florists' Exchange when writing.

INDIANAPOLIS, IND.—Holiday trade in this section is a pleasant memory for every one connected with it. A greater volume of business was transacted than ever before, and records were broken. The highest anticipations were realized, and the retailers were permitted to take orders and fill them as long as they were able, or until their stock was gone. Orders were late in arriving. Until Sunday matters moved steadily but slowly, and many preparations were made for the last rush. All day Monday orders were unusually heavy; it taxed the capacity of all to have them ready for delivery by daylight Christmas. Several stores closed their doors earlier than usual Tuesday, as it was impossible to fill orders properly and take care of the heavy counter trade.

A light fall of snow, with a temperature of about 20 degrees, made the weather ideal. Flowers were easily handled and few were frozen. The general prosperity of the public was directly noticeable, as customers were easily served, and prices were a secondary object with many. Stock in general, was of better quality than in former years, and in some lines, as plants, the quantity unlimited. Paper stock, in several cases, particularly roses, was a disappointment, as the quality was far below what it ordinarily is; with the great demand made upon the growers at this time, orders are filled with stock as it grows, and are, of course, not selected. Perhaps 25 per cent. of the American Beauty at this season are bull-heads, so it is impossible to serve all properly. Orders sent the growers later than Saturday could not have been filled at any price. Home-grown Bride and Bridesmaid were unusually fine, and enormous quantities were supplied the store men at \$10 to \$15 per 100.

Hamper and baskets, selling at \$5 to \$15, went extremely well. Moderately priced novelties, such as small Gloire de Lorraine begonias in fancy baskets, or dwarf poinsettias in birch ferneries, were sold out early. These brought \$1 to \$2 each.

Although many thousand violets were supplied by the local growers, the supply was not nearly sufficient at \$2 per dozen for a few select ones were shipped in at \$1.50 to \$2 per 100. Paper White narcissus found a heavy sale at \$1 per dozen, retail. Poinsettias were more generally grown this year, and customers were often prone to buy cut flowers with 6 to 7-inch stems at \$6 to \$9 per dozen in place of American Beauty at \$18 to \$24 per dozen.

Carnations were more plentiful than in former years, although prices were about the same—\$5 to \$8 per 100 wholesale, and \$1 to \$2 per dozen retail. The dark weather preceding Christmas caused a good many sleepy Enchantress to be on hand, but altogether this grand variety led in sales by a wide margin. Few cattleyas were to be had, though there were demands for them frequently. No trouble was found in securing cypripediums at \$2 per dozen. A quantity of sweet peas were wholesaled in the market at \$1 per 100.

With the exception of a number of Spirea Gladstone there were no distinctly novel plants in the market. Choice azaleas were soon sold at fancy prices, but the number was restricted to a few dozen in this market. Well-grown flats containing four to eight poinsettias were much in favor at \$2.50 to \$6 each.

The quality of Gloire de Lorraine begonias was never better, and they found many friends. In the writer's opinion this graceful flower has reached the zenith of its career, and must in the future be relegated to the past, as flower buyers wish a new favorite. Ardisias and Jerusalem cherries naturally were in demand. All kinds of foliage plants were sold in quantities. The various flower stores were most beautifully and tastefully decorated this year. Bells were much in evidence with some, but, as is well known, few were sold. It becomes more evident each season that a flower store is for flowers only, with ferns, azaleas, and pot covers and ribbons, added. Not many of the artificial flowers were indulged in.

Tomlinson Hall market reports an excellent holiday business. All the good stock brought there was soon closed out at fancy prices. The green goods market was a prosperous one this season. The seed houses engaged in it were enabled to sell out completely. Not a yard of laurel or lycopodium was carried over. Holly and mistletoe were also well cleaned up. Boxwood was much in evidence with the florists this season, both in wreaths and small artificially made trees, which were used for table decorating. I. B.

BURLINGTON, VT.—Our Christmas trade was as good as last year's and prices were higher. Carnations brought from \$1 to \$2 per dozen, roses from \$2 to \$1. Paper White narcissus and Roman hyacinths, 75c.; poinsettias (cut) \$3. Since Christmas business continues fair using up all the stock as it opens; and as the weather is now dull and rainy stock promises to be very short for New Year's S. B.

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SOUTHERN WILD SMILAX

Now ready in any quantity

Book orders now for future delivery. **Beaver's Fadeless Sheet Moss**, \$3.50 per bag, delivered. Send for samples. Also **Fancy Holly** for Xmas trade. Satisfaction guaranteed. Write for prices.

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EVERGREEN, ALA.

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Wild Smilax \$2.50 Per Case



CALDWELL THE WOODSMAN
Introducer of the Wild Smilax

The only place where you can **always** get it. Long Needle Pines, \$1.00 per doz.; Palm Crowns, \$2.50 per doz.; extra nice long stemmed Palmetto leaves, \$2.50 per 100; Magnolia, \$2.50 16 cubic ft. cases. Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000

SPEED A SPECIALTY

Write for Catalogue

CALDWELL THE WOODSMAN DECORATING CO., **Evergreen, Ala.**

Mention The Florists' Exchange when writing.

Fancy or Dagger Ferns



- \$1.00 per 1000
- Galax, Bronze or Green, 75c. per 1000.
- Boxwood, No. 1 Stock, 50 lb. cases, \$3.50
- Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
- Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
- Southern Smilax, fancy stock, 50 lb. cases \$3.50
- Laurel Branches, 35c. per bundle

Send your orders for **LAUREL FESTOONING** in now for Christmas, as later we may be unable to fill them. Long distance telephone connections.

Telegraph Office: New Salem, Mass. **GROWL FERN CO., MILLINGTON, MASS.**

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SOUTHERN WILD SMILAX \$3.50 and \$7.00 per case. FANCY and DAGGER FERNS \$1.25 per 1000.

- Galax, Green and Bronze, \$1.00 per 1000; \$7.50 per 10,000.
- Bouquet Green, \$7.00 per 100 lbs.
- Green and Sphagnum Moss, \$1.00 per hbl.
- Laurel Wreaths, extra quality, \$2.50 per doz. upwards
- Boxwood, 18c. per lb.
- Leucothoe Sprays, 75c. per 100.
- Laurel Festooning, extra, 5c. and 6c. per yd.
- Branch Laurel, 50c per bunch

HEADQUARTERS for all FLORISTS' SUPPLIES such as Wire Designs, Cut Wire, Letters of all kinds, Immortelles, Cycas Leaves, Milk Weeds, Sheaves of Wheat, Ribbons, Boxes—Folding Blue Corrugated, etc.

L. D. TEL., HENRY M. ROBINSON & CO., 11 & 15 Province Street BOSTON, MASS. and 9 Chapman Place, Mention the Florists' Exchange when writing.

EXTRA FINE NEW CROP FANCY FERN \$1.50 per 1000. Discount on large orders. GALAX, per 1000, \$1.25. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE
WILLIAM DILGER, Manager.

Let us have your standing order for Ferns; we will make Price right all through the season. Formerly **38 & 40 Broadway, DETROIT, MICH.** Miami Ave. Send for our weekly price list on Cut Flowers. Mention The Florists' Exchange when writing.

REED & KELLER 122 W. 25th STREET NEW YORK

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10,000, \$1.50; 50,000, \$6.25
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Samples free. For sale by dealers.
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WHOLESALE GALAX and LEUCOTHOE

Direct from the woods to the dealer.
Galax Green and Bronze 50c per 1000
Leucothoe Sprays (green only)..... \$2.00 per 1000
Ferns (dagger and fancy)..... 70c per 1000
Special office on lots of 10,000 and up.
Terms strictly cash, F. O. B. Elk Park, N. C.
F. W. Richards & Co., Banners Elk, N. C.
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WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application. Mention the Florists' Exchange when writing.

Southern Smilax

If you want **SMILAX**, and you want to get it when you want it, send your orders to **JAS. TOMLINSON - Newton, Ala**
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BRILLIANT Galax and Leucothoe SPRAYS

Wholesale Trade Solicited
J. L. BANNER & CO., Montezuma, N. C.
Mention the Florists' Exchange when writing.

ERIE, PA.—There was a marked increase in trade for the holidays this year compared with last year, estimated variously at from 10 to 30 per cent. The cold wave that visited this section on the morning of December 24 necessitated the wrapping of all plants to protect them from frost. It was good shopping weather, however, and florists had nothing to complain of on this score. No novelties were offered, except perhaps the new art bells, which took very well. These were home manufactured by several ladies not connected with the florist business. They consisted of a form of papier mache covered with green crepe paper on the inside and red on the outside and were ornamented with red ribbon. Plants went very well, especially poinsettias in pans. Azaleas, also, in the colored varieties, went as well as ever. The supply of cut flowers was about equal to the demand, and most of the stock was home grown and very fine. Prices on all stock were about the same as last year.—A. J. BAUR.

PITTSFIELD, MASS.—For Christmas trade the sale of cut flowers was about the same as last year. Carnations in colors sold at better prices in proportion than other flowers. Well-grown flowering plants went well; holly also was in great demand. The bulk of business was equal to last year's.—**JOHN WHITE.**

DUBUQUE, IA.—The Harkett Floral Company reports Christmas trade ahead of last year's. Cut flowers and plants both went well, at fair prices.

Chicago. A Retrospect.

With the ups and downs which probably characterize this market more particularly than any of the other large markets in the country, the year 1906 goes down into history with a record of a continual increase in prosperity of a larger ratio than in any year of the last quarter of a century, which practically covers the existence of the business on a large scale in the middle West. In no one year has there been so much new glass erected and so much reconstruction carried out. This has made a record year with the greenhouse material concerns with headquarters in Chicago, the lumber, glass, boiler and pipe men, as well as the furnishers of all the incidentals, each coming in for a generous increase over any preceding year. It is far within the bounds of safety to state that within the limits of this city and its immediate environs upwards of three million square feet of glass were erected or remodeled during the year that has just passed. The produce from this large addition of productive area has called for more active service by the score and a half of wholesalers and commission houses whose headquarters lie within a fifty yard radius of the corner of Wabash avenue and Randolph street, every one of which reports a most satisfactory year and, with one or two exceptions, a large increase in business over last and preceding years.

The growers all report for the year more than pleasing results. The Summer dullness, accompanied with an extreme drought and the unfavorable cloudy weather of November and December were not without their gloomy effects, yet taking the year through it may be justifiably claimed that ninety-nine growers out of every hundred have prospered.

Chicago has not been without its losses during the last year, but more through the hand of death than from a financial standpoint. Early in the year Joseph A. Budlong, a pioneer grower of vegetables and cut flowers, met with an accident which was followed within a few hours by death. The following month, on February 13, George Wietor, one of the oldest and most successful of Chicago's greenhouse men, passed away after a lingering illness, in the prime of his manhood. James Hartshorne was taken away in Midsummer. Three great losses to the fraternity of florists in Chicago.

Among the retailers the reports are generally of a perfectly satisfactory nature. **News Notes.**

Owing to an unexpected call to Washington on technical matters which are to come up before the Agricultural Committee, William J. Stewart will not be able to turn over the books of the S. A. F. O. H. to the new secretary until a later date than was planned. Mr. Hauswirth expects to leave for Boston by the middle of the month if not before, and then the transfer of accounts, etc., will be carried out.

Phillip Kirchner, the manager of the Chicago conservatories of E. M. Barton at 4629 Greenwood avenue, is quite proud of a very handsome white sport of Dr. Enguehard chrysanthemum, which originated on the place the past season and has been named Mrs. Enos M. Barton. Though the stock is limited, it is probable that the variety will be placed on the market. Growers who saw the variety the past Fall pronounce it among the best.

A. Dietsch will shortly leave for his annual trip to the city of Mexico. The concern has a lot of orders already booked for Spring delivery.

Adam Schillo and John C. Moninger were severely affected by a recent fire.

Mr. Dekema of Jensen & Dekema leaves shortly for San Francisco, Los Angeles, and other southern points where it is hoped that the inclination toward tuberculosis may be overcome. **W. K. W.**

New York.

The Week's News.

The last few days of the old year were accompanied with very disagreeable weather—warm and rainy—and, no doubt, that was the cause of so many complaints being heard about poor business. With the coming of New Year, however, the social season of this town is supposed to begin in earnest; we may hope for a rather lively time in retail circles from now on until the beginning of Lent.

The seed business may now be said to be on the eve of its busiest season. Catalogues are being rushed out, and this year they are handsomer than ever before. The general prosperous condition of all classes of people throughout the land would indicate that the coming Spring will be a record breaker for the seed stores.

W. C. Krick, manufacturer of Krick's letters, has had to advance the price of same owing to the increased cost of the raw material.

Hicks & Crawbuck report a most satisfactory increase in their florist supply business. They handled a line of static wreaths during the recent holidays that met with a very good demand.

The eleventh annual smoker of the Morris County Gardeners and Florists' Society will be held in Masonic Hall, Madison, N. J., on Wednesday evening, January 9. A good time is assured those who attend this annual celebration.

Sidney Kaufman, said to be employed by a florist on East Thirty-fourth street, committed suicide on Sunday morning last in the Knickerbocker hotel, by shooting himself in the head. Before shooting himself he had first fired a pistol shot, with the intent to kill, at a woman, who had been staying with him, and she died shortly after. The woman was married, and the reason for the rash acts is said to be because she would not elope with him.

The December 18, 1906, bulletin of the New York Botanical Garden is a descriptive guide to the grounds, buildings and collections.

A. M. Henshaw, wholesale florist, 52 West Twenty-eighth street, received this week a cablegram from Bristol, England, informing him of the death of his mother. She was 63 years old, and leaves a husband and nine children to mourn her loss. The sympathy of the trade will go out to Mr. Henshaw in his sad bereavement.

Orlando Harrison, president of the American Association of Nurserymen, E. Albertson, Bridgeport, Ind., and Professor Craig, Ithaca, N. Y., were in town last Saturday attending the conference of Economic Entomologists.

F. A. Anderson, who for many years has been a partner in the firm of Anderson & Christensen, fern specialists, Short Hills, N. J., has purchased Mr. Christensen's interest in the business, and henceforward will conduct the same in his own name. The firm of Anderson & Christensen has won much favor in the trade by their business integrity and square dealing and we have no hesitancy in saying that Mr. Anderson will continue to uphold the good name the firm has succeeded in establishing.

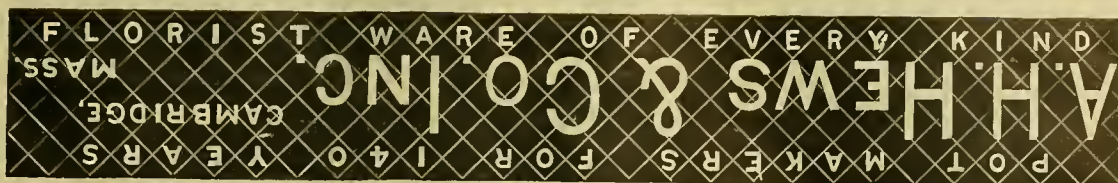
George F. Struck, who for some time has been a traveling man for Lager & Hurrell, Summit, N. J., will in addition represent The F. R. Pierson Company, on the road. Mr. Struck informs us that he is to represent the above mentioned firms on a commission basis only.

St. Louis.

News Notes.

The first meeting in the new year of the St. Louis Florists' Club will take place next Thursday, hereafter in the new meeting hall in the Burlington building, 310 Olive street. This meeting should be well attended by the members to inspect the new hall. The flower show committee has something extraordinary to report, and a general discussion on the holiday trade from the retail, wholesale and grower's standpoint will be held.

The newly organized horticultural society held a meeting on Tuesday, December 18, at C. C. Sander's place, 5600 Delmar avenue. Ten members were present, with President H. Young in the chair. President Irish of the



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Our Stock is always Large and Complete

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713 WHARTON STREET, PHILADELPHIA

WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.



Florists' Club was also in attendance by special invitation. The next meeting will take place on Tuesday, January 15, when some prominent speakers will be invited to address the assemblage. Among those present were H. Young, O. G. Koenig, F. H. Meinhardt, Alex. Waldbart, A. Jablonsky, C. C. Sanders, F. C. Weber, John Stiedel and Theo. Miller. The next meeting place has not yet been announced.

W. C. Smith has accepted the appointment of superintendent at the annual chicken show, which takes place next week. Mr. Smith filled a similar position last year.

Frank Fillmore slipped on the ice and badly fractured his ribs, which laid him up the past week. Frank, Jr., reports that his father will be out by the end of the week.

Alex. Siegel will after the first of the year move to his new location in the old Grand Leader Building on Broadway, north of Washington avenue.

Mrs. Ayers had two of the old-timers helping her out during the holiday rush; they were W. J. Pilcher and J. W. Potts. Walter Retzer has taken the place vacated by Will Adeles.

Chairman Frank Weber, in company with President Irish, spent a day the past week among the downtown business men in the interest of the flower show. The results were very gratifying. Secretary Bencke reports that the fund is increasing every day and that by the next meeting more than half of it will be subscribed.

C. Young & Sons Company made a great show of blooming plants last week. James Young, the president, reports a big trade during the week.

Des Moines, Ia.

News Notes.

The past Christmas business seemed to be satisfactory to all concerned. Poinsettias were noticeable in all the windows, particularly that of the Iowa Floral Company, and sold readily at \$5 and \$6 per dozen. First quality Enchantress carnations were all cleaned up at \$2 per dozen, and all other varieties at about \$1.50. In the plant line azaleas, as usual, were the leaders. Some poinsettias in pans were in evidence, and a variety of other blooming plants, as well as a good supply of ferns and palms. Bouquet green was scarce, consequently wreathings sold at a high price; in fact, the supply was not equal to the demand at that. There seemed to be plenty of holly, which was fairly well berried.

Lozier's and the Alpha Floral Company made a leader of double violets, and sold a large quantity of them at a good price. The Iowa Floral Company had but little call for the double, but sold a large quantity of the single Princess of Wales. The Alpha Floral Company says that its business was about one-third larger than last year's. This is the first Christmas for the Iowa Floral Company, so they cannot make any comparison, but they are well satisfied with the patronage that came to them.

A. Lozier is in the South for his health, and the business is being ably



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LOUISVILLE, KY.

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Tobakine Products

"THEY KILL BUGS"

"Flowers and Profits"

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76-78 Wabash Avenue, Chicago, Ill.

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Sheep Manure

Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.

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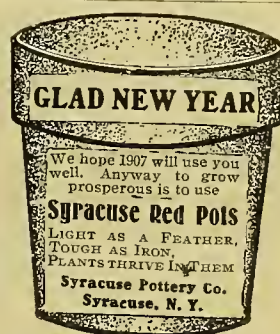
managed by his brother Harvey during his absence.

Gus. Papas got back to his store Christmas day, after having spent three weeks in the hospital, undergoing a very critical operation. During his absence the Alpha business was in charge of G. A. Conopolus of Chicago.

Chas. McAniff, manager of Vaughan's greenhouses, this city, is wearing the smile that won't come off, and handing out the cigars. It's a girl this time.

We regret to announce the death of the wife of Wm. L. Morris, as the result of an operation and after a very short illness. Until a year ago Mr. Morris had been for many years one of the most prominent florists of the city. The Des Moines Florists' Club authorized Mr. Stevens of the Iowa Floral Company to send a floral offering. Mr. Morris has the sympathy of the craft in his bereavement.

W. T.



Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate	Price per crate
1500 2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20
1500 2 1/2 " " " 6.25	80 8 " " " 8.00
1000 3 " " " 6.00	HAND MADE
800 3 1/2 " " " 5.80	48 9 in. pots in crate, \$8.60
500 4 " " " 4.50	24 11 " " " 8.50
225 5 " " " 4.51	24 12 " " " 4.80
144 8 " " " 3.15	12 14 " " " 4.80
	8 18 " " " 4.60

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Roiker & Sons, Agts., 31 Barclay St., N. Y. City

Mention the Florists' Exchange when writing.

Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

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LONG ISLAND CITY, N. Y.

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FREE HOSE

trial. We send our "Florist" hose on 30 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on guaranteed wrought iron pipe. Send for free catalogue "Kay" Rollers, Ventilating apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY COMPANY,
214 Fulton Street, - - New York City

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IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
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Pure Kiln Dried Ground Sheep Manure

Put up in packages expressly for retail purposes

Write for prices

Pure Culture Mushroom Spawn

Best that is made—Write for Book

F. A. Bolles, Coney Island Ave. & Ave. L., Brooklyn, N. Y.

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H AND C



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THE LOOSE ENDS

Some firms seem to have an idea that if the big things of your house are rushed through on time and made ready to stock up, that the small things—the loose ends—can be done any old time. You may have had experience in trying to get men back "on the job again," and how you have to fight for the finishing touches—that's why we want you to know us and our way of making a complete job complete. There'll be no loose ends and you'll have pleasant dealing.

HITCHINGS & COMPANY

GREENHOUSE DESIGNERS AND BUILDERS

Manufacturers of Heating and Ventilating Apparatus

1170 BROADWAY, NEW YORK

H AND C

Greenhouse Material

of Louisiana Cypress and

Greenhouse Hardware and Pest

OUR GRADE INVARIABLY THE BEST, OUR PRICES RIGHT.

Write for Catalogue and Estimate when figuring on your new houses.

A. DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL.

Mention The Florists' Exchange when writing.



Hot Bed Sash

Washington Red Cedar

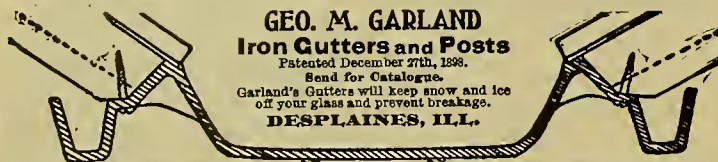
Patent V and U Gutters.

OUR GRADE INVARIABLY THE BEST, OUR PRICES RIGHT.

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GEO. M. GARLAND Iron Gutters and Posts

Patented December 27th, 1898.

Send for Catalogue.

Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPAINES, ILL.

A sample of this gutter is on exhibition at Chicago Flower Growers' Market.

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All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with
Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscription to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."

Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION
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See the Point

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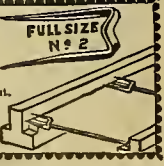
Glazing Points are the best.

No rights or lefts. Box of

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VIOLET CULTURE

Price, \$1 50 Postpaid

A. T. De La Mare Ptg. & Co. Ltd., New York

For Greenhouses, Graperies, Hot Beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given

GLASS

N. COWEN'S SON,

14 & 16 Wooster Street, NEW YORK

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GREENHOUSE GLASS

10x12 10x14 10x15 10x16 12x12 12x14 12x16 14x16 14x18 14x20 14x24 16x18 16x20 16x24

C. S. WEBER & Co.,

10 Desbrosses St., New York

Mention the Florists' Exchange when writing.

Newport, R. I.

Trade Notes.

As was expected a quiet week succeeded the rush of Christmas, but there promises to be a good deal doing in the cut flower line for New Year's day.

Many owners of estates here who spend the Winter in New York and other large cities were this Christmas more than ordinarily bountiful in their remembrance of their gardeners.

Visitors here recently included John Morrison representing Weeber & Don and John H. Cheyne representing Schlegel & Fottler Company, Boston.

A firm located in Warren in this State has invented and introduced an artificial calyx for the keeping together of carnation blooms that are liable to split. It seems a meritorious article and I think if it is properly brought to the attention of growers its manufacture will be profitable.

D. M.

Boston.

The Week's News.

The action of the Police Commissioner in enforcing the Sunday blue-laws caused considerable worry and not a little bother among many both in the retail and wholesale flower trade. On Saturday the police gave notice that no business of any kind could be transacted on Sunday, but several florists who had orders in ran chances and delivered their goods. Many arrests in all lines of business were made, and it is said that several in the flower line were of the number. These test cases it is hoped will be the means of action being taken to repeal a law which has for years seemed ridiculous.

Welch Brothers say their Christmas trade was far greater than ever before, that their better facilities for handling greatly helped them during the rush and that they have had fewer complaints from buyers than ever before. They, as is their custom, had two American Express teams for their exclusive use.

Wm. F. Reagan of Lawrence, Mass., has a fine new delivery wagon of the most up-to-date style. J. W. D.

Cincinnati.

News Gittings.

The old year is now a matter of history, and I think it has been very kind to the florists throughout our land. We have had no serious mishap; business has been prosperous and no assignments are recorded among the craft. We shall pray that 1907 will treat us just as well.

Saturday evening the Cincinnati Florists' Society will start the new year with a smoker in their rooms at the Jabez Elliott Flower market. Papers will be read and there will be other amusements. If the standholders in the market could only look to their own interests they would, every one of them, join the society and help push floriculture ahead, instead of trying to retard the movements of the organization. The shows held by the society in their club rooms in years past put many dollars in the pockets of the standholders. During the past year these shows have been cut out, and there is no question about the effects being felt. The only remedy is for these standholders who do not belong to the society to join and at once. You will all find it a paying investment, besides being instructive and entertaining. Begin the new year by sending in your application for membership. The dues are two dollars a year.

The Central Passenger Association has now granted the one and one-third fare for the round trip to Toronto, Ont.; making the fare about \$14 for the round trip from Cincinnati. Don't forget to ask for a certificate when buying your ticket. Our Canadian brethren promise us a good time and you know President Dunlop. You can get more than your money's worth by making this trip and attending the meeting of the most progressive floricultural society in America. You see, you are seen, and have

plenty of chance to be heard. This is all important to members. Make up your minds now to go, and if not a member of the Carnation Society become one. Again money well spent.

New Year's trade amounts to very little now in comparison with that at other holidays. Stock is scarce. Prices remain about the same as for Christmas. E. G. GILLET.

Kalamazoo, Mich.

News Notes.

Grofvert and DeSmit have dissolved partnership Mr. DeSmit retiring and Abram Grofvert taking over the greenhouses and business. This movement makes no change in the management, as Mr. Grofvert has had charge of the plant since its erection.

The order requiring the Dunkley Company to vacate city property (as noted in last week's Florists' Exchange) simply referred to a few odds and ends they allowed to stand on a side street adjacent to their greenhouses; the city fathers just now being very strenuous, doubtless in view of the Spring elections.

To yourself and readers I wish a Happy and a Prosperous New Year. S. B.

Detroit, Mich.

The Floral department of the Strand Grocery Company, under the management of Murray Patterson, has been set adrift through the failure of the company.

The florists throughout the country extend their heartfelt sympathy to Robert Flowerday in his time of trouble. HARRY.

SAN RAFAEL, CAL.—On December 19, in accordance with a decision of a convention held for the purpose December 5, the gardeners, florists and nurserymen of Marin County, California, organized themselves into the Marin County Horticultural Society and elected the following officers: President, John T. Jack; vice-president, J. Hetherington; secretary, Thos. P. Redmayne; treasurer, Richard Lohrmann.

Membership will embrace those actively engaged in any branch of horticulture. A majority of the profession in the county are already on the roll and much enthusiasm is shown. Everything points to a successful organization, and an exhibition during the coming year is in contemplation. T. P. R.

PLANT CULTURE

PRICE \$1.00

A. T. DE LA MARE Ptg. & PUB. CO.,

2 Duane Street, New York

Mention the Florists' Exchange when writing.

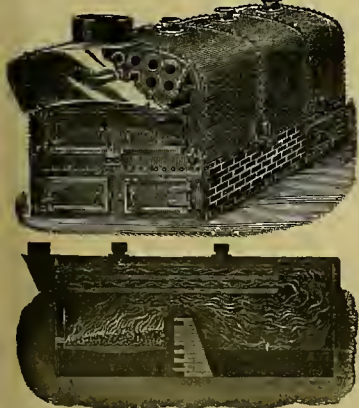


"THE Sunshine Shop"—that's what one of our customers called

his U-Bar Greenhouse, and we have adopted the phrase because it certainly applies to our houses. U-Bar Greenhouses are the best greenhouses built—none let in so much sunshine—keep out so much cold. Freest from repairs, none so attractive. We are the sole makers of U-Bar Greenhouses. Send for U-Bar Catalog. Pierson U-Bar Co., Designers and Builders of U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23d St., New York.

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KROESCHELL BROS. CO.
IMPROVED
Greenhouse Boiler
33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information. Mention the Florists' Exchange when writing.

The STANDARD VENTILATING MACHINERY

The original machine with self oiling cups; the most powerful, least complicated very compact, with ease of operation. The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its working. Catalogue free.

E. HIPPARD, Youngstown, O.

Mention the Florists' Exchange when writing.

HAPPY NEW YEAR

to every florist and grower in the country and a prosperous season all year 'round.
For the year

1907

we have made much preparation. Our factory has been doubled in size by a new building which is now ready. We have put several new machines in our plant and the stock of lumber on hand is the best we have ever had—the largest stock in the U. S.

Be sure and write us this year if you want anything in the greenhouse material line. You will find our prices reasonable.

JOHN C. MONINGER CO.,
115 E. Blackhawk St., CHICAGO

PROMPTNESS AND GOOD WORKMANSHIP

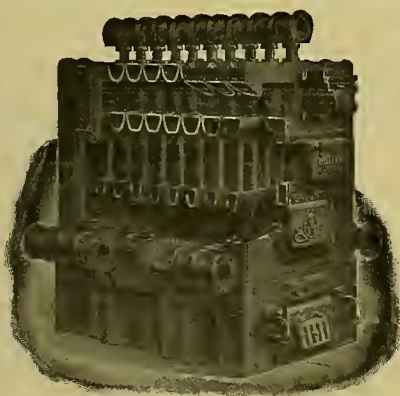
The above combined with personal attention to all work, and the fact that I have in my employ men especially selected for their proficiency in greenhouse heating assures you of the best results possible for the amount of money expended.

Private gardeners and commercial florists in all parts of the country for whom I have installed work will verify the above (send for list).

**IS YOUR HEATING PLANT IN ORDER FOR THE COMING WINTER?
IF NOT CAN SEND YOU COMPETENT MECHANICS AT ONCE.**

Everything for Heating and Ventilating, Grates, Smoke Boxes, Etc.

WILLIAM H. LUTTON
West Side Ave. Station, JERSEY CITY, N. J.
Tel. 412 R. Bergen. Eastern Agent Furman Boilers, write for prices.



"The test of years is the real test."

Scollay Boilers

ARE BEST

See our advertisement in next issue. Catalogues sent on application.

JOHN A. SCOLLAY,
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NEW YORK CITY.
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U. G. SCOLLAY, Manager.

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GREENHOUSE MATERIAL

OF ALL KINDS
HOT-BED SASH VENTILATING APPARATUS
FITTINGS &c.
SEND FOR FREE ILLUSTRATED CATALOGUE

if you are having delay in getting your roof material, send your orders to us and don't be in trouble. We will handle any order in the time agreed. Try us.

FOLEY MANUFACTURING COMPANY
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Evans Improved Challenge

Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
RICHMOND, IND.

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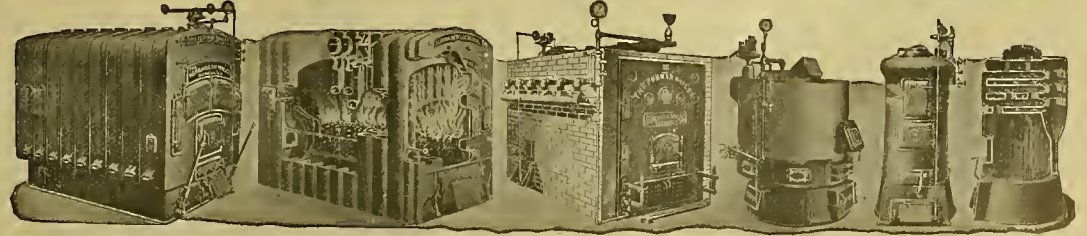


STANDARD Pumping Engines

Start the New Year right by installing a Standard Pumping Engine. It will make your plants grow; also your profits. The Standard Pump & Engine Co. CLEVELAND, O.

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FURMAN BOILERS FOR GREENHOUSE HEATING



Valuable Catalogue on Modern Steam and Hot-Water Heating, mailed free upon request. Address **THE HERENDEN MANUFACTURING CO.** 298 Pearl Street, NEW YORK. Dept. F. GENEVA, N. Y.

Furman Boilers have been awarded the Certificate of Merit at Five different Florists' Conventions. Have a record of 20 years. Over 25,000 in use.

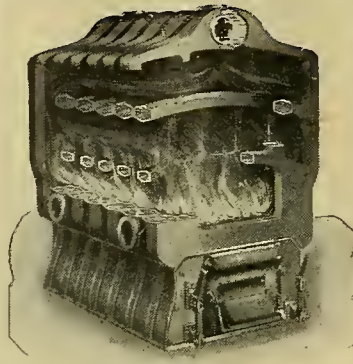
SELLING AGENT: EDW. S. DEAN, Bloomington, Ill.

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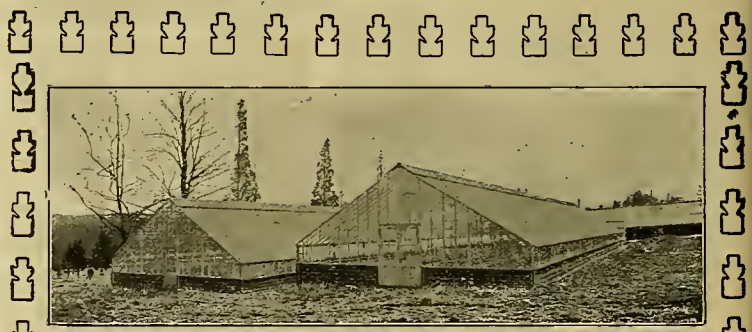
WHOLESALE TRADE LIST

ASPARAGUS PLUMOSUS, 2 1/2 inch pots, \$3.00 per 100.
 ASPARAGUS SPRENGERI, 2 in. pots, \$2.00 per 100.
 BOSTON FERNS, 5 in. pots, 20c. 6 in. pots, 25c.
 OLEMATIS PANICULATA, 4 in. pots, \$1.50 per doz., \$10.00 per 100; 3 in. pots, 75c. per doz.; \$5.00 per 100.
 DRACENA INDIVISA, 5 in. pots, \$2.00 per doz.
 HYDRANGEA Thos. Hogg, 10-12 flowering branches, \$10.00 per 100; larger plants for tubs, 25c. each.
 IVY, Hardy English, 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
 NEV DAISY, Queen Alexandra, 3 in. pots, \$5.00 per 100. 2 1/2 in. pots, \$3.00 per 100.
 YELLOW DAISY (Etoile d'Or), 3 in. pots, \$5.00 per 100. 2 1/2 in. pots, \$3.00 per 100.
 SANSEVIERA (Zebra plant), 4 in. pots, strong, \$1.50 per doz.; 3 in. pots, \$1.00 per doz.
 ROOTED CUTTINGS Fuchsias, 4 varieties, single and double; Heliotrope dark blue, Salvia Bonfire \$1.00 per 100, Colens Verschaellth. Golden Bedder and other showy varieties 75c. per 100.
 Alternantheras, best red and yellow, 50c. per 100. Smilax 2 1/2 inch pots \$2.00 per 100.
C. EISELE, 11th & Roy Streets, PHILADELPHIA, PA.
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The Greenhouse Boiler.
"24° BELOW ZERO
 and we had no difficulty in maintaining a temperature of 60°," is the testimony of a well known Pennsylvania florist who is using my **GREENHOUSE BOILER.**
 Let me quote you prices.
JOHN A. PAYNE
 Horticultural Architect and Builder
 33 Clendenny Ave., Jersey City, N. J.
 Sash opening apparatus and all kinds of greenhouse structural material.
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GREENHOUSES.
 MATERIAL FURNISHED
 AND
 MEN TO SUPERINTEND
 ERECTION IF DESIRED.
 CYPRESS SASH BARS
 ANY LENGTH UP TO 32 FEET OR LONGER.
 THE J. T. STEARNS LUMBER CO.,
 NEWTON, MASS.
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WE DON'T KNOW OF ANY-THING MORE JARRING than the everlasting repairing of a house—the repairs here and there, at the eave line, another post rotted off, the roof sagged and glass broken, and so on, 'till the day of reckoning comes at the end of the year and you find out what a sink hole your house has been. Your day of reckoning comes at the end of the year, but we start with ours—start at the very start to reckon on the life of materials and construction, to figure on the chances of repairs and a way to get around them. That's how we came to make the galvanized, ice clearing eave plate and sash bar clasps; the angle iron posts and cast iron foot pieces—we were after durability and rigidity, and we got it.

Now it's a question whether you want one of our "laster" houses of the spend-money-every-year-on-repairs kind.

Lord & Burnham Co.
 Greenhouse Designers and Manufacturers.
 1133 Broadway, corner 26th St., NEW YORK.
 BOSTON BRANCH, 819 Tremont Building.
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SUMMER IN WINTER
 BY USING
 Standard Greenhouse Boilers
 One cent gets our catalog.
GIBLIN & CO., UTICA, N. Y.
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WEATHERED COMPANY.
 Builders of Iron and Cypress Greenhouses
 Greenhouse Heating and Ventilating Apparatus.
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SAVE TIME AND MONEY
OUR GREENHOUSE MATERIAL

CUT AND SPLICED REQUIRE NO MECHANICS
 LET US ESTIMATE ON YOUR HEATING VENTILATING APPARATUS HOT BED SASH

Putty **GREENHOUSE GLASS** Points
S. JACOBS & SONS,
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 Manufacturer of Floral Metal Designs
 IMPORTER AND DEALER IN FLORISTS' SUPPLIES
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 SEND FOR CIRCULARS
DILLER, CASKEY & CO. Successors to JENNINGS BROS
 S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.
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ARE YOU GOING TO BUILD
 Assure yourself of **HONEST COMPETITION** figures by obtaining an estimate from me on Iron Frame or Sash bar greenhouses. My prices are the lowest for the best class of work.
FRANK VAN ASSCHE
 (FORMERLY SUPT. FOR WEATHERED)
 FACTORY: Fulton and Rose Ave., Jersey City, N. J.
 Mention the Florists' Exchange when writing.

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 Immortelle Wreaths,
 Water Proof Crepe Paper, Red Mats for Plants
 SEND FOR CATALOGUE.
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THE FLORISTS' EXCHANGE

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

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

Vol. XXIII. No. 2

NEW YORK AND CHICAGO, JANUARY 12, 1907

One Dollar Per Year

SPIREA For Easter Forcing

If you have not all the spirea that you want for Easter and Decoration Day, we still have a few thousand fine clumps left, which we offer as cheap as unsold as follows:

- Gleditsia.** The best of all the spiraea. Free bloomer, fine large spikes. Extra. Selected clumps \$12.00 per 100.
- Astiloides Floribunda.** \$5.00 per 100; case of 300 clumps for \$12.00.
- Compacta Multiflora.** Strong clumps, \$6.00 per 100.
- Japonica.** Strong clumps, \$5.00 per 100.

GLADIOLUS COLVILLEI

Alba "The Bride." White. 75c. per 100; \$6.00 per 1000.

Rubra. Red. 60c. per 100, \$5.00 per 1000.

MINIATURE HYACINTHS, or DUTCH ROMANS

We still have a few thousand of these left, which we can supply in a fine assortment of named varieties. \$2.00 per 100, \$16.00 per 1000.

These can be potted up, if done at once, and will make nice Easter stock.

NARCISSUS

- Double Van Slon.** We have a few thousand extra quality bulbs to offer. \$1.50 per 100 \$12.00 per 1000.
- Princaps.** A few thousand extra sized bulbs. 75c. per 100, \$6.50 per 1000.
- Single Van Slon.** \$1.25 per 100, \$10.00 per 1000.

TULIPS

- Collage Maid.** The best pink for late forcing. \$1.00 per 100, \$8.00 per 1000.
- Kelzerskroon.** (Grand Duc.) The favorite forcing variety. \$1.75 per 100, \$15.00 per 1000.

LILY OF THE VALLEY

- Pierson's Premier.** Best selected Berlin for earliest forcing. \$1.50 per 100, \$13.00 per 1000. Case of 2000 for \$24.00.

If you can use any of the stock offered, let us have your order quickly.

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

Mention the Florists' Exchange when writing.



**NOW READY
Splendid New Crop of**

Asparagus

Plumosus Nanus

Cut strings, 8 feet long,
50 cts. each.

**W. H. ELLIOTT
Brighton, Mass.**

Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS FOR PRESENT SOWING

Write for preliminary list of flower seeds, which we are mailing to all our customers
10 Per Cent. Special Cash Discount On orders over \$2.00 for Flower Seeds if the cash is enclosed, 10 per cent.

Trade pkt.	Oz.	Trade pkt.	Oz.
Alyssum, Sweet.....	1 lb. \$1.25	\$.05	
Little Gem, extra fine strain.....		.10	.35
Balsam, Alba Perf. etc. This is the largest and best double white Balsam unequalled in dobleness and size.....	1/2 oz., 25c	.10	1.00
Begonia.....		.50	
Yerba.....	1/2 oz., 30c	.10	2.00
Bellis or Double Daisy, Vaughan's mammoth mixture.....	1-16 oz., 45c	.25	
Vaughan's Mammoth White 1-16 oz., 50c.....		.25	
Langtallow dark pink.....	1/2 oz., 35c	.20	2.50
Candytuft, Giant Hyacinth-flowered, 1/2 oz., 15c.....		.10	.20
Camia. We grow these, as everybody knows, in very large quantities, and the best kinds only. The seed we offer is of our own saving and all of crop 1906. Crozy sorts, mixed,.....	1 lb., 75c	.10	
Camia, Vaughan's Special Mixture, saved from our own collection of over best 40 kinds. Lb. \$1.50.....		.10	.20
Centaurea Candidissima (Dusty Miller).....	1 lb., \$2.75	.25	1.00
Gynocarpa.....		.05	.30
SHASTA DAISY			
Alaska, flowers very large, pure white, on long stiff stems.....		16.00	
California clear pale lemon yellow, when a day or two old these gradually change to pure white.....		.10	.30
Westralia, cream color, semi-double, 3 to 4 inches across, Price: Any of above, 1/2 oz., 25c, 1/2 lb., \$1.25.....		.25	.80
Dracena Indivisa.....	1 lb., \$2.50	.15	.30
Forget-me-not, Vaughan's early blooming and late flowering.....	1/2 oz., 25c	.15	.30
Lautana, Hybrid, Mixed.....		.15	1.20
Lobelia, Crystal Palace Compacta.....	1/2 oz., 25c	.10	.50
Speciosa, dark flowers and large for hanging baskets.....	1/2 oz., 15c		
Emperor William, dwarf, 1/4 oz., 25c.....			.10
Bedding Queen, best dwarf 1/4 oz., 25c.....			.15
Mignonette, True Machtet 1/4 oz., 25c.....			.10
New York Market, Packet about 1000 seeds 60c, 1/4 oz., \$1.00, \$6.00.....			.10
Mimulus (Musk Plant)..... 1/4 oz., 30c.....			1.00
Musa Eosette..... 100 seeds, \$1.00.....			
Panicle, Vaughan's International Mixture. Price per oz., \$10.00; 1/4 oz., \$5.00; 1/2 oz., \$1.50; trade pkt., 50c.....			
Vaughan's "Giant Fancy Mixture." Price, 1/4 lb., \$14.00; oz., \$4.00; 1/2 oz., 80c; trade pkt. 25c.....			
Petunia, Giants of California, mixed, 1-32 oz., 75c.....			.25
"Vaughan's Best" mixture of large flowering Petunias. Trade pkt. (1000 seeds), 50c, 3 pkts. for \$1.25.....			
Vaughan's Double Petunias. Trade pkt. (1000 seeds).....			\$1.20
Salvia Splendens, Clara Bedman (Bonfire).....			.25
"Drooping Spikes".....	1/4 oz., 50c.		.25
St. Louis, 1/4 oz.....			.25
Stocks, large flowering, extra choice mixed.....	1/2 oz., 35c.		.25
Pure White, Brilliant Rose, Bright Crimson, Blood Red, Light Blue, Canary Yellow, Dark Blue. Each.....	1/2 oz., 35c.		.25
Smilax, New crop, 1/4 lb., 80c; 1 lb., \$2.00.....			.05
Trade pkt. 1/4 oz. Oz.			
Verbena, Vaughan's Best Mixture.....	1/4 oz., 25c		.50
Mammoth, mixed, 2 oz., \$1.70.....			.10
"white.....			.15
"Mayflower, best pink.....			.15
"purple.....			.25
"pink shades.....			.25
Defiance, brightest scarlet.....			.10
Viola Alba Pura.....			.10

Vaughan's Seed Store

**14 BARCLAY ST.
NEW YORK**

CHICAGO, 64-86 Randolph Street, Greenhouses, Western Springs, Ill.

GERANIUMS

Ready for Immediate Shipment from 2 in. pots.

Alliance

1905 introduction. A cross between an ivy and a zonal. A beautiful shade of lilac white, blotched with crimson rose. Excellent habit for vase or pot plants.

25 cts. each. \$2.50 per doz. \$20.00 per 100.

Caesar Franck

1905 introduction. Double ivy, magnificent shade of soft crimson; splendid habit.

25 cts. each. \$2.50 per doz. \$20.00 per 100.

Fleuve Blanc

A pure white semi-double, and a perfect type of the Bruant race.

\$1.50 per doz. \$10.00 per 100.

SPECIAL OFFER FOR ONE WEEK:

We will send 1000, 100 each of the following for \$20.00, cash with order; or 500, 50 each, for \$10.00.

**DOUBLE DRYDEN, E. H. TREGO, EL CID,
MAR. DE MONTMORT, COMTESSE DE HARCOURT,
CENTAURE, PETER HENDERSON, MME. CHARLOTTE,
MME. BARNEY, MME. LANDRY.**

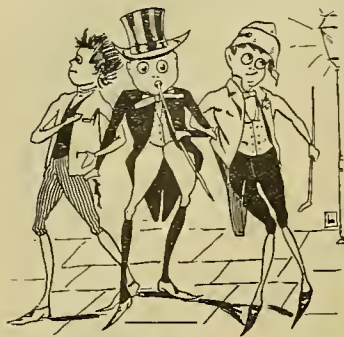
Do not ask us to send less than 500 or broken assortments at this price. Standard and New varieties from \$2.00 per 100 up. Send for our Special Geranium Catalogue.

A cordial invitation is extended to all interested in Horticulture to visit us. Cowenton Station, Philadelphia division, B. & O. R. R. 12 miles north of Baltimore.

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

Mention the Florists' Exchange when writing.

NEW SEED



Asparagus Plumosus Nanus	1000 seeds \$4.50
" Sprengeri	1000 seeds 75c.
Begonia Vernon, fine strain	trade pkt. 25c.
Bellis Perennis, double	trade pkt. 25c.
Candytuft Empress	per oz. 20c.
Centaurea Gymnocarpa	per oz. 35c.
Golden Feather, dwarf selected	per oz. 40c.
Lobelia Crystal Palace Compacta, true, trade pkt. 25c.	
Petunia Grandiflora, extra choice single mixed, trade pkt. \$1.00.	
Petunia Grandiflora, superb fringed mixed, trade pkt. \$1.00.	
Salvia Bonfire	per oz. \$2.50
Stocks, Ten Week, dwarf, large flowering, mixed, trade pkt. 25c.	

BEGONIAS & GLOXINIAS

Single separate colors	Doz. 1.00	50 \$2.50
mixed colors	30 2.25	
Double separate colors	65 5.00	
mixed	50 4.00	
Gloxinias, separate colors	50 4.00	
mixed	45 3.00	

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.
Mention The Florists' Exchange when writing.

FOR IMMEDIATE SOWING

Salvia Splendens Grandiflora	1-8 oz. \$0.25	Oz. \$1.60	Salvia Splendens Maroon Prince	1-8 oz. \$0.75	Oz. \$5.00
" Compacta	.40	2.50	" Fire Ball	.75	5.00
" Bonfire	.40	2.50	" Silverapote	.75	5.00
" Lord Faulstich	.75	4.00			

NOVELTY 1907

SALVIA ZURICH. Per original Pkt. 20c.

This Salvia is fully two weeks earlier than "Fireball" and is very compact. Excellent for a potplant and for forcing. Retains its flowers for a long time. One of the best novelties of this season. Our Seeds are absolutely fresh and of high germination.



W.W. RAWSON & CO.

5 UNION STREET, BOSTON, MASS.

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PACIFIC SEED GROWERS' CO.

109 MARKET STREET
SAN FRANCISCO, CAL.
Specialties:

Onion, Carrot, Lettuce, Sweet Peas

Mention The Florists' Exchange when writing.



Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.

New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

J. M. THORBURN & CO.
33 Barclay St., through to 33 Park Place, New York.

GREGORY'S SEEDS

FREE

Our catalog is rich with information for the guidance of farmers and gardeners. It has been a great help to thousands—has been the means of turning many a failure into success.

The great variety of vegetable and flower seeds include the best of the old standard and such new kinds as have proved of value by actual test.

J. J. H. GREGORY & SON,
Marblehead, Mass.

SEED PANSY PLANTS

THE JENNINGS STRAIN

25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, ready to bloom, \$1.00 per 100; \$7.50 per 1000; by express only. Second size, strong plants, 100 by mail, 60c.; 1000 by express, \$4.00.; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

E. B. JENNINGS,

Lock Box 254 Southport, Conn.
Grower of the Finest Fanalae
Mention The Florists' Exchange when writing.

Sow Now The True Thing!

Ageratum, Blue Star, the best of all for pots. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Alyssum, Carpet Queen, fine extra dwarf strain. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Begonia, Ertordia, for pots the best rose pink. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Begonia, Oracelis Luminosa, a fine Bedder, new with large bright scarlet flowers and bell-shaped habit, unexcelled for pots and outdoors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
Cyclamen, Giant flow, separate colors. 1000 seeds, \$8.00; Trade Pkt. \$1.00.
Petunia, Key Morris, a fine bedder. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Petunia, Californian single Giants, extra strain. 6 Trade Pkts. \$1.00; Trade Pkt. 75c.
Petunia, double fringed Giants. 6 Trade Pkts. \$5.00; Trade Pkt. \$1.00.
Phlox, New Cecil, the very best large flowered, real dwarf, compact. Drm. Phlox for pots, mixed colors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
Salvia, Bonfire. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Salvia, Fireball, this is a new, real dwarf compact early flowering, fine variety and there is hardly a better one for pots. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
Verbena, Mammoth, unexcelled strains; a Auricula flowered, Scarlet, Striped, Pink, Purple, White, each separate. Oz. \$1.50 Trade Pkt. 25c.
For larger quantities special quotations.
O. V. ZANGEN, Seedsman, Hoboken, N. J.

Mention the Florists' Exchange when writing.

GOLD MEDAL STRAINS BEGONIAS & GLOXINIAS

BEGONIAS		
Double Rose	Per doz. \$0.65	Per 100 \$5.00
" Orange	.65	5.00
" Red	.65	5.00
" Salmon	.65	5.00
" Dark Red	.65	5.00
" Yellow	.65	5.00
" Mixed	.50	4.00
NEW VARIETIES.		
Duke of Zappin	1.50	11.00
La Fayette	2.40	18.00
Single Giant, Fringed mixed	1.00	8.00
GLOXINIAS		
Emperor Frederick	Doz. \$0.75	100 \$5.00
Emperor William	.75	5.00
Princess Elizabeth	.75	5.00
Mont Blanc	.75	5.00
Viola	.75	5.00
Mad. Helene	.75	5.00
Single, Scarlet	Per doz. \$0.40	Per 100 \$2.50
" Dark Red	.40	2.50
" Pink	.40	2.50
" Rose	.40	2.50
" White	.40	2.50
" Yellow	.40	2.50
" Nankeen	.40	2.50
" Orange	.40	2.50
" Salmon	.40	2.50
" Mixed	.30	2.25
Double White	.65	5.00
Princ. Mathilda	Doz. \$0.75	100 \$5.00
Queen Victoria	.75	5.00
Defiance	.85	6.00
King of the Reds	.85	6.00
Prince Albert	.85	6.00
Finest Mixed	.60	4.00

STUMPP & WALTER CO., 50 Barclay St., N. Y.

XXX SEEDS

Verbena, Improved mammoth, the very finest grown, mixed, 1000 seeds, 25c.
Cineraria, Finest large flowering dwarf. Mixed colors, 1000 seeds, 50c.
Phlox Pumila Compacta. Very dwarf and compact; good for pots; in finest colors, mixed; Grand per cent of New Gicly. 1000 seeds, 50c.
Alyssum Compactum. The most dwarf and compact variety grown; perfect little balls when grown in pots, finest to be had. 1000 seeds, 25c.
Chinese Primrose. Finest large-flowering fringed varieties, mixed; single and double, 500 seeds, \$1.00; half pkt. 50c.
Pansy, Finest Giants. The best large-flowering varieties, critically selected; mixed, 5000 seeds, \$1.00; half pkt. 50c. Mad. Peritza's.
Petunia, New Star; from the finest marked flowers, extra choice. Trade pkt. 25c.
Cyclamen Giganteum. Finest giants, mixed 200 seeds, \$1.00; 1/2 pkt. 50c.
Salvia "Bonfire." Finest variety grown, brilliant scarlet and compact. 1000 seeds, 40c.

CASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.

The Home of Primroses
Mention The Florists' Exchange when writing.

ASPARAGUS PLUMOSUS NANUS
(Greenhouse Grown)
FINE PLUMP SEED
\$5.00 per 1000
ESTABLISHED 1824

Bridgeman's Seed Warehouse

Rickards Bros., Props.
37 EAST 19TH ST. Near Broadway
NEW YORK CITY
Telephone: 4235 Gramercy
Mention The Florists' Exchange when writing.

EXTRA CHOICE FLOWER SEEDS

List free on application.
FRED. ROEMER, Seed Grower,
QUEDLINBURG GERMANY.

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W. & D.'s Specialties for Forcing

Mignonette "New York Market"
Sweet Peas "True" Christmas Flowering (Pink and White)
Tomato "The Oon" Tomato "Sirling Castle"
Mushroom Spawn "English" and "Pure Culture"
Special prices on application
Seed Merchants
WEBER & DON, and Growers
114 Chambers Street, NEW YORK

SPRENGERI SEED

1906 CROP
10c. per 100; 60c. per 1000. Cash with order please.
F. J. BAKER & CO., UTICA, N. Y.
Mention the Florists' Exchange when writing.

ASPARAGUS SEED

1906 CROP
Plumosus Nanus, True..... 100 1000
Sprengeri..... 50c. \$3.50
Cycas Revoluta Seed..... 15c. .75
Cycas Revoluta Seed..... \$2.50 22.50

Headquarters for all the best flower seeds. 100-page seed buyer's guide free.

MOORE & SIMON, Seed Growers,
339 Market St., Philadelphia
Mention The Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA
Blue List of Wholesale Prices
mailed only to those who
plant for profit.
Mention the Florists' Exchange when writing.

TREE SEEDS

Send to-day for our
Trade Price List and our
Illustrated, Descriptive Catalog
Otto Katzenstein & Co., Atlanta, Ga
Mention the Florists' Exchange when writing.

LAST OFFER

Superfine Single Mixed
TULIPS

\$.60 - - per 100
4.50 - - " 1000

Single Mixed Hyacinths. Freesias
Paper White Narcissus

PRICES ON APPLICATION
JAMES VICK'S SONS
ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

Lambert's Pure Culture Mushroom Spawn

Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized.
Has never failed to run. Sold by Leading Seedsmen. Practical instructions on "Mushroom Culture" mailed free on application.
American Spawn Co. St. Paul, Minn.

Mention the Florists' Exchange when writing.

Pure Culture Mushroom Spawn

Per 10 bricks \$1.50. Per 25 bricks \$3.50
Per 50 bricks \$6.50. Per 100 bricks \$12.00

Fresh Tobacco Stems

In bales of 300 lbs. \$1.50.

W. C. BECKERT, Allegheny, Pa.

Mention the Florists' Exchange when writing.

The American Carnation

Price \$3.50
A.T. De La Mare Ptg. & Pub. Co., 2 Duane St., New York

Johnson's High Class

Flower Seed For Early Sowing

We would call special attention to our superior strains of Petunias, Verbenas, Stocks and Pansies, which are absolutely the best procurable.



- Ageratum Blue Perfection, dark blue, trade pkt. 15c., oz. 50c.
- Alyssum Little Gem or White Carpet, trade pkt. 10c., oz. 30c.
- Asparagus Plumosa Nanus (greenhouse grown), per 100 seeds 5c., per 1000 seeds \$4.00.
- Asparagus Sprengeri, per 100 seeds 15c., per 1000 seeds 75c., 5000 seeds \$3.00.
- Candytuft, Empress, pure white, trade pkt. 10c., oz. 25c.
- Candytuft, Giant Hyaclath Flowered, white, trade pkt. 10c., oz. 20c.
- Carnation Marguerite, choice mixed, trade pkt. 15c., oz. 60c.
- Centaurea Gymnocarpa, 1000 seeds 15c., oz. 25c.
- Centaurea Candidissima, 1000 seeds, 2c., oz. \$1.50.
- Cobaea Scandens, purple, 1/4 lb. 75c., trade pkt. 10c., oz. 30c.
- Cyclamen, English Prize, mixed (from show varieties unexpressed), per 100 seeds, 75c., per 1000 seeds \$6.00.
- Ipomoea Noctiflora (Moonflower), trade pkt. 10c., oz. 50c.
- Lobelia Crystal Palace Compacta, trade pkt. 25c., oz. \$1.25.
- Pansy, Johnson's Kingly Collection, mixed, unexpressed, 1000 seeds 30c., 2000 seeds 50c., 5000 seeds \$1.00, oz. \$5.00.
- Petunia Giants, of California, trade pkt. 50c.
- Petunia, Johnson's Choice Double Fringed, per 500 seeds, 75c., 1000 seeds \$1.50.
- Petunia, Johnson's Giant Single Fringed, trade pkt. 50c.
- Petunia Dwarf Inimitable (nana compacta), fine for pots, trade pkt. 25c., oz. \$1.25.
- Phlox Drummondii Grandiflora, mixed, trade pkt. 10c., oz. 40c.
- Phlox Drummondii Grandiflora, Dwarf mixed, trade pkt. 20c., oz. 75c.
- Phlox Drummondii Nana Compacta, mixed, trade pkt. 30c., oz. \$1.50.
- Pyrothrum Aureum, trade pkt. 10c., oz. 20c.
- Salvia Splendens Bonfire, 1/4 lb. \$3.00, trade pkt. 25c., oz. \$2.00.
- Salvia Splendens, 1/4 lb. \$3.00, trade pkt. 25c., oz. \$1.00.
- Smilax (New Crop), 1 lb. \$2.00, trade pkt. 10c., oz. 20c.
- Stock, Dwarf, Separate Colors, trade pkt. 25c., oz. \$2.00.
- Stock, Dwarf, Large Flowering, Ten Weeks, mixed, trade pkt. 25c., oz. \$1.75.
- Stock, Princess Alice, Cut-and-Come-Again, trade pkt. 30c., oz. \$2.50.
- Sweet Peas, Up-to-Date Varieties, 1/4 lb. \$1.75.
- Thunbergia, finest mixed, trade pkt. 10c., oz. 50c.

Johnson's Giant Flowering Verbena, pronounced the finest in the market. Giant White, Pink, Scarlet, Purple and Yellow; large trade pkt. (1000 seeds) 25c., 5000 seeds \$1.00, per ounce \$1.25. Giant Brilliant mixed, large trade pkt. (1000 seeds) 20c., 5000 seeds 75c., per ounce \$1.00.

Send for our New Illustrated Catalogue for Florists and Market Gardeners. Just issued.

MANETTI STOCKS

Now ready at \$8.50 per 1000.

ELIZABETH NURSERY CO., ELIZABETH, N. J.
Mention the Florists' Exchange when writing.

FLOWER SEEDS

ASTER. Queen of the Market.
The best variety for early blooming.

Dark Blue	.....	.20	.60
Light Blue	.....	.20	.60
Pink	.....	.20	.60
Scarlet	.....	.20	.60
White	.....	.20	.60
Mixed	.....	.20	.60

PHLOX. Choice New Crop.

Drummond Dwarf Mixed	.....	.40	1.25
Grandiflora Tall Mixed	.....	.29	.50

For a complete list of Phlox see our wholesale list.

PETUNIA. Selected from large well colored flowers which can be depended upon.

Single Giants of California	.....	
In mixture	.....	.30	.50
Dwarf Inimitable In mixture for pots	.....	.30	.50
Grandiflora fringed In mixture	.....	.30	.50
Double Hybridized and Fringed 500 seeds 75c., \$1.50 for 1000 seeds.	.....	

Our wholesale catalogue contains a full variety of Petunias.

WRITE FOR OUR SPECIAL HANOV COMBINATION ORDER SHEET AND CATALOGUE OF FLOWER SEEDS.

HENRY F. MICHELL CO.
1018 MARKET ST., PHILA.

Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

The total number of Farmers' Bulletins printed by the Department of Agriculture during the last fiscal year was 437, of which 404 were reprints, numbering 5,632,000 copies, and 33 were new publications, numbering 875,000 copies—6,568,000 copies in all.

In a recent decision by T. S. Sharretts, general appraiser, the board decided that lily of the valley pips must stand duty on a higher valuation basis. The pips, which were from H. Wrede of Hamburg, were entered at 20 marks per 1,000, whereas the local officials raised the price to 20.90 marks per 1,000.

UTICA, N. Y.—The Batchelor Seed Store of Utica was incorporated December 31, 1906, and January 1, 1907, \$5,000. The directors are Wm. M. Ross and Charles T. Saul of Syracuse and Arthur C. Langdon of Utica.

HOLLISTER, CAL.—A. J. Pieters, of the A. J. Pieters Seed Company, writing on January, 1907, says:

"As I advised you sometime ago I expected to leave for the East during December, but the almost continual rains we have had here has made it impossible to get away. I hope to leave now about the middle of this month. I presume you know about the heavy storm we had in December, when in various places between 5 and 11 inches of rain fell in 36 hours. Since that time we have had rains every two or three days so the planting of seeds has been seriously delayed."

"I hope to go East before the end of this month and see our friends of the trade during February."

JOHNSON SEED COMPANY, 217 Market Street, Philadelphia, Pa.
Herbert W. Johnson, of the late firm of Johnson & Stokes, Pres.

Tuberous Rooted Begonias

SINGLE, IN SEPARATE COLORS

Rose, white, scarlet, crimson, yellow, orange, salmon, bush, pink	.....	\$0.40	\$2.50	\$23.00
All colors mixed	.....	.30	2.25	22.00

DOUBLE, IN SEPARATE COLORS

White, rose, scarlet, crimson, yellow, orange	.....	.60	4.50	40.00
Mixed, all colors	.....	.50	4.00	38.00

GIANT GLOXINIAS

In separate colors, or to name Pure white, fiery red, blue, red with white border, violet with white border.

Tigred, all sorts mixed50	3.50
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Gladioli Shakespeare

Reduced to clear stock to per 12 50c., per 100 \$3.50. Very fine large Bulbs.

H. H. BERGER & CO.
47 Barclay St., New York
Mention the Florists' Exchange when writing.

All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscription to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, Lowdham, Notts
European Agents for THE AMERICAN CARNATION

C. C. MORSE & COMPANY
SEED GROWERS
171-173 Clay St. SAN FRANCISCO, CAL.
OUR SPECIALTIES: Onion, Lettuce, Sweet Peas

Also Carrot, Celery, Celeriac, Cucumber, Endive, Leek, Mustard, Parsley, Paraniip, Radish, Salsify, Spinach, Tomato and FLOWER SEEDS

Growers for the trade on Contract. Warehouses at Santa Clara; Farms and Farm Headquarters, Carnadero, near Gilroy.
Registered Cable Address: MORSEED, SAN FRANCISCO

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ARTHUR COWEE, GLADIOLUS SPECIALIST
MEADOWVALE FARM, BERLIN, N. Y.

United States Representative and Grower of GROFF'S HYBRIDS, MIXTURES and COLLECTIONS to color. Fine Mixtures of all colors. Named Novelties of rare beauty. WRITE FOR CATALOG.

GLADIOLI
For Forcing
All stock guaranteed to be as represented

America, flesh pink	.....	\$10.00	\$75.00
Shakespeare, light	.....	5.00	40.00
Nezinscott, red	.....	3.50	30.00
White and Light, mix good	.....	1.50	12.00
extra	.....	3.00	25.00

250 at 1000 rate.
8 per cent discount for cash with order.
JOHN LEWIS CHILDS, Floral Park, N. Y.

JOHN SCHEEPERS & CO.
2, 4 and 6 OLD SLIP
NEW YORK CITY

It pays you and us to handle ONLY the very best bulbs, plants, palms, Azaleas, Bay trees, Roses, Excellenta, Valley, etc. Of everything we handle the very best. Try us and ask for free book with cultural instructions.

Mention the Florists' Exchange when writing.

S. M. ISBELL & CO.
JACKSON, MICH.
Seed Growers for the Trade
BEANS, CUCUMBER, TOMATO,
Radish, Peas, Muskmelon,
Squash, Watermelon, Sweet Corn.
CORRESPONDENCE SOLICITED

Write for Prices on Superior Stocks for Immediate Shipment.
Mention the Florists' Exchange when writing.

A. J. Pieters Seed Company
HOLLISTER, CAL.
GROWERS OF
Vegetable and Flower Seeds

Special attention paid to selected Stocks
A. J. PIETERS, President and Manager.
Mention the Florists' Exchange when writing.



NEW CROP FLOWER SEEDS

Just Received New Crop Stocks in Fine Condition.

Salvia "Bonfire," My own growing, Celebrated "Floracraft Strain." Trade pkt. 80c., per oz. \$2.00.

Verbena (Mammolt) White, scarlet, purple, pink, mixed. Trade pkt. 80c., per oz. \$1.50.

Phlox Drummondii Grandiflora, in separate colors. Trade pkt. 20c., per oz. 75c. Dwarf Compact, "Snowball" and "Fireball." Trade pkt. 30c., per oz. \$1.50.

Asters, finest sorts, many of my own growing.

Antirrhinum, (Snapdragon) Giant white, garnet, pink, scarlet, striped, yellow, mixed. Trade pkt. 20c., per oz. 60c.

My 1907 Market Gardeners' and Florists' Catalogues, also my General Retail Seed Catalogue for 1907 are now ready for distribution. See my new "Stokes' Standard" way of selling vegetable seeds.

IT IS DIFFERENT.

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

Mention the Florists' Exchange when writing.

FLORAL PARK, N. Y.—The Brooklyn Eagle of recent date says: "Ex-Senator John Lewis Childs, who still holds between 300 and 400 acres at Floral Park, which is valued at from \$3,000 to \$4,000 per acre and upon which he raises his large crops of flowering bulbs, shipped to all parts of the world, has bought between 500 and 600 acres between St. James and Stoney Brook, Suffolk County, and will eventually move his entire business down to the new location in Suffolk County and dispose of his Floral Park lands for residence purposes."

CHICAGO, ILL.—J. C. Robinson of Waterloo, Neb., passed through this city on his way to the meeting of the executive committee of the American Seed Trade Association.

H. W. Buckbee of Rockford, Ill., was in this city the first of the week. Wm. Hageman, New York, stopped over for a few days on his way West.

Vaughan's Seed Store are remodeling their retail sales floor, making a number of changes which will add to their convenience for handling their local trade. Also it may be mentioned that several carloads of tuberosa bulbs have been received through their New York office, both for export and home trade. The concern will have their catalogue ready within a few days, which will be forwarded on application.

TOLEDO, O.—Toledo, the greatest clover seed mart in the world, is now obliged to buy large quantities of the seed in foreign market, says the "Elate."

This unusual condition is occasioned by the shortage in the crops this year in this country. March seed is being purchased at \$8.40 a bushel, or about 14 cents a pound, but this price, Toledo dealers say, is not in excess of what has been paid in this country. Toledo dealers are buying quantities of clover seed in English, German and Italian markets, because the stock cannot be secured in America. There is no duty attached to it. Toledo dealers are interested in the pure food law concerning the purchase of clover seed, which makes it mandatory that samples of all foreign seed be first submitted to the United States Department of Agriculture before entering. This will mean that a first grade seed will be more in evidence in America, as other grades will be designated according to their worth by the Government inspectors.

It may be possible that this session will knock out the appropriation for the free distribution of common garden seeds, but it is very doubtful if the hands of the Department of Agriculture will be so strengthened that its great work of seeking for new seeds and plants that can be made useful in this country can be widened. If Congress would quit monkeying with the whole seed question and leave it entirely to the Department, with a liberal appropriation, great good would be accomplished. The Department is in hearty sympathy with its work, and is conducted with ability in most if not all its bureaus, and it should be dealt with liberally by Congress. But there are too many corporate interests, too many political interests all pulling at the doors of Congress for other interests to get their full deserts.

MUSTARD SEED.—The representative of commercial interests of Southern States in Northern Europe writes the Department of Commerce and Labor that the European mustard seed crop having been nearly destroyed, with consequent higher prices, the sale of American mustard seed would be possible. He therefore desires prompt communication with American dealers who can supply large quantities of the seed.

IMPORTS OF SEEDS, etc.—December 31, 1906 and January 1, 1907.—Hamburg American Line, 105 bags seed; Murray & Mitchell Manufacturing Company, 213 bags seed; Henry Nungesser & Company, 45 cases seed; A. Olsen, 150 bags clover seed; L. J. Spence, 400 bags sugar beet seed; G. W. Sheldon & Company, 300 bags sugar beet seed; Maltus & Ware, 4 cases plants; P. E. Anderson & Company, 17 bags seed; E. Hoenicke, 47 bushels roots. To order, 15 bushels seed, 546 bags seed, 36 bags orris seed.

January 4, 1907—J. S. Bartle, 223 bags seed; Wakem & McLaughlin, 3 bushels seed; Maltus & Ware, 3 cases plants; A. Rhotert, 5 packages flower garden seed, etc.; J. M. Thorburn and garden seed, etc.; J. M. Thorburn Vaughan's Seed Store, 16 bags seed.

January 5 and 6, 1907.—H. F. Darrow, 31 cases lily of the valley pips; Peter Henderson & Company, 3 boxes seed; Herrmann's Seed Store, 6 boxes seed; R. F. Lang, 120 cases lily of the valley pips; A. Olsen, 150 bags clover seed; Portland Seed Company, 5 bags field seed; A. H. Ringk, 2 bags roots, 2 bags seeds; J. M. Thorburn & Company, 25 bags seed; Vaughan's Seed Store, 40 cases lily of the valley pips; R. F. Downing & Company, 10 bags seed; Holland-America Line, 19 packages seed; Maltus & Ware, 3 cases plants; J. M. Thorburn & Company, 20 bags grass seed; Vaughan's Seed Store, 16 bags seed.

THIS CONGRESSMAN BUYS "FREE SEEDS"—In the report of the hearing on the free seed distribution before the House Committee of Agriculture on December 12 last, the following statements appear:

"MR. DAVIS (of Minnesota). I buy 15,000 to 25,000 (packages of seed) every year aside from my regular quota. I have to do it in order to comply with the requests.

"THE CHAIRMAN. Do you buy from members of Congress?"

"MR. DAVIS. I buy some from the Department and some from men around the corridors here, who claim they have obtained them from the city Congressmen, who have no use for them. They sell them to me at reduced figures.

MR. CROMER. You never buy them from the seed men?"

"MR. DAVIS. I buy them for cash as cheaply as I can.

"THE CHAIRMAN. From fellow members of Congress?"

MR. DAVIS. No; I buy them from agents or from young men around the corridors here, who come to me and say, "Will you give me so much a package for 5,000 packages?" I ask them where they get them, and they say they get them from city members who do not need them in their districts and have them for sale."

If there is any better evidence of "graft" connected with this free (?) seed farce than the foregoing, coming from the lips of a United States Member of Congress, we have not seen it. We were not before aware that the Department of Agriculture was authorized to sell, or made a practice of selling the government seeds. It would be interesting to know where the purchase money for these seeds bought of the Department goes? It is easy to guess where it lands in the case of the seeds sold "around the corridors by agents or young men," who obtain their packages from city members. How long is such a state of affairs to be tolerated by our legislators worthy of that honored name?

Catalogue Covers, Premiums, Etc.

Editor Florists' Exchange:

For some time, the writer has been seeing in the several trade papers, comment by the various seed houses on catalogue covers, the use of premiums, etc., to draw trade.

Under separate cover, by even mail, we forward you a copy of our general catalogue for 1907, also a copy of our booklet "Why." We think we have a pretty good article in the way of a catalogue, for the class of trade for which it is intended. We have never at any time in the history of our business, made a practice of offering one dollar's worth of seed for forty cents; neither have we ever given the privilege of selecting one dollar and twenty-five cents worth, or perhaps more, for one dollar. Our prices are plainly carried out, and we have found this by far the best means of handling the trade.

We have made quality the first consideration, and we think our customers appreciate this, for the reason that we have gathered together the most critical gardeners into our list of buyers, from Florida to Boston. We have, however, for our mail order trade, tried the booklet this year for the first time. It is our intention, if it makes good, to use a series of booklets as a follow-up. It occurs to us that the booklet has been used with unvarying success in other businesses and we are, at present, having excellent returns from its use. It is only intended as a means of establishing interest and gathering new names which it is accomplishing to our entire satisfaction. We would like your comment on the idea, and would appreciate any additional ideas you may furnish us.

J. F. NOLL & CO.

Newark, N. J.

[A notice of your catalogue appears in another column. "Why?" contains some excellent practical hints to the farmer and gardener concerning seeds, and other advice. The next thing to securing names, which is the expressed intent of the pamphlet, is to get and hold the business that these names represent. Selling goods of superior quality, fair dealing, giving value for value, etc., help toward this end—all of which seems to be the aim of our correspondence.—Ed. F. E.]

European Notes.

With from 15 to 50 inches of snow over the whole of the northern half of Europe and severe frosts to keep it solid, all agricultural operations are suspended, and much of the railway and steamship traffic is seriously interrupted. There is much less snow in the south, and as the frost in the Riviera is very severe the French florists, as well as the growers of choice flower seeds, will have a bad time. Farther north the plants are protected by the snow and should escape injury.

Another instance of the tyranny of the Morgan steamship combine is furnished by the withdrawal of the direct steamer to New York, although huge consignments of cargo are awaiting despatch. This means a delay of 14 days at the most critical period of the year.

The glass roof of the pea-picking warehouse of Watkins & Simpson, London, was smashed in by a heavy fall of snow from a building near by and one of the pickers had to be conveyed to the hospital.

EUROPEAN SEEDS.

CATALOGUES RECEIVED.

NORTHAMPTON NURSERIES, Northampton, Mass.—Catalogue of Trees, Shrubs, Herbaceous Perennials, Roses, etc.

WALDO ROHNERT, Gilroy, Cal.—List of Vegetable and Flower Seeds, Sweet Peas a specialty, for the growing of which Mr. Rohnert is prepared to contract.

CHICO NURSERY COMPANY, Chico, Cal.—General Catalogue of Fruit and Ornamental Trees, Grape Vines, Small Fruits, Shrubs, Roses, etc. The firm's motto is "High Grade Nursery Stock true to Name." Illustrated.

CALIFORNIA NURSERY COMPANY, Niles, Cal.—Catalogue of Fruit and Ornamental Trees, Evergreens, Palms, Roses, etc. This firm has 600 acres under cultivation, and was awarded the gold medal for Nurseries at the Louisiana Purchase Exposition.

Dr. R. E. KUNZE & COMPANY, Phoenix, Ariz.—Price List of Cactaceae. This concern collects cactus plants for the U. S. National Museum at Washington, D. C., and the botanical gardens of several European countries. Those interested in this class of plants will find the list of much service.

R. & J. FARQUHAR & COMPANY, Boston, Mass.—Garden Annual for 1907. A very attractive catalogue, profusely illustrated, many of the pictures being half tone reproductions from photographs of natural subjects. The cover designs, in color, are Incarvillea Delavayi and Foxgloves. The lists of offerings enumerated are very complete in every line.

A. T. BODDINGTON, New York.—Catalogue of Flower and Vegetable Seeds, Bulbs, Plants, Supplies, etc. An interesting list of Novelties and Specialties is furnished, and the general lists are complete and comprehensive. A commendable feature of this catalogue, which is profusely illustrated, is seen in the various cultural directions written by well-known practical growers in the several lines of which they treat. The catalogue, generally, shows great care in its compilation and make-up, and the cover design of a conventional character by Harry A. Bunyard, is very attractive.

J. F. NOLL & CO., Newark, N. J.—Printed on enameled paper, profusely illustrated, with handsome covers showing on the front a spray of Kriemhilde dahlias and on the back a choice selection of vegetables, all very natural as to color and quite tempting in appearance, this carefully prepared and printed catalogue of Seeds, Plants, Bulbs and Poultry Supplies furnishes good evidence of the fact that seedsmen in order to maintain and increase their line must not only handle the best obtainable but must, as well, clothe their offerings in an attractive way in order to gain first the eye and then the ear of the people.

J. M. THORBURN & COMPANY, New York.—General Catalogue of High Class Seeds, Bulbs, Plants, Supplies, etc. In contradistinction to the majority of catalogue makers, the Messrs. Thorburn do not believe in flaming or gaudily colored covers, those of their catalogue being of the plainest kind, the firm name printed in white lettering on a dark brown background, a poppy flower and foliage and a bunch of celery, also in white, forming the only ornamentation—artistic and attractive. The catalogue, profusely illustrated, contains the usual lists of the best novelties and standard varieties, with the customary planting directions and useful tables regarding time of flowering, height, color, etc. of a long enumeration of plants. The firm has been in existence one hundred and five years, and is now located at 33 Barclay street, the store running through to Park place. Also Trade Price List of Seeds, etc.

JAMES J. H. GREGORY & SON, Marblehead, Mass.—General Catalogue of Seeds, Plants, Bulbs, Small Fruits, Implements, etc. Illustrated. An interesting list of Novelties and Specialties. Regarding 1906 crops Mr. Gregory says: "Did any of us, of the three-score-and-ten class, ever see a better season for sweet corn, or, in eastern New England, a worse one for beans and cucumbers? It was a season that emphasized more than ever before the value of rust-proof varieties in the bean family. An onion seed blight prevailed all over the country from the Atlantic to the Pacific, nearly ruining vast areas in California, and some vast areas in New England as badly. Another blight in the South struck some of the sections devoted to watermelons. In Europe, where is raised most of the radish seed sold in this country, the crop was nearly a failure; and this was true of some of the varieties of beet, mangel-worm and rutabaga seed. With these exceptions, the seed crop has, in general, been up to the average yield."

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

Orlando Harrison, Berlin, Md., president; J. W. Hill-Des Moines, Ia., vice-president; George C. Scager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

VERNON, TEX.—The Tecumseh nursery of Cedarville, Ohio, is putting in a nursery at this place. A few cars of their tree stock have already arrived. I. H. Frantz, the proprietor, is here, looking after the planting of the nursery stock.

VALLEYFORD, WASH.—H. M. Leslie has purchased land here and will start a nursery. A complete line of apple, pear, and peach trees will be carried, and such other fruit as proves favorable in this section.

TOPEKA, KAN.—Walter Wellhouse, of Topeka, won the contest for the office of secretary of the State Board of Horticulture at the meeting held on December 28, 1906, by a vote of 42 out of 83. His opponents were W. H. Barnes, the present secretary; A. V. Wilson, of Wyandotte county, and E. A. Popnow, of the State agricultural college. Mr. Wellhouse, the new secretary, is a son of Fred. Wellhouse, the "apple king" of Kansas. The other officers elected were: Edwin Taylor, of Wyandotte, president; Edwin Snyder, of Jefferson, vice-president; Edward Hoover, of Sedgwick, treasurer.

WESTERN ASSOCIATION OF NURSERYMEN.—At the seventeenth annual meeting, held at Kansas City, Mo., December 18, the following officers were elected: President, A. Willis, Ottawa, Kans.; vice-president, George A. Marshall, Arlington, Neb.; secretary and treasurer, E. J. Holman, Leavenworth, Kans.; executive committee, F. H. Stannard, Ottawa, Kans.; W. P. Stark, Louisiana, Mo.; R. J. Bagby, New Haven, Mo.; D. S. Lake, Shenandoah, Ia.; E. P. Bernardin, Parsons, Kans.

W. P. Stark spoke on the subject "Should commercial planters get the benefit of wholesale prices and where should the line be drawn on what constitutes a commercial planter?" A varied discussion followed, but it was left unsettled where the line should be drawn. J. W. Schuette introduced the subject of a uniform standard of grading stock. This resulted in the creation of the following committee: A. L. Brooke, Ralph Lake, Herbert Chase, F. H. Stannard and J. W. Schuette, with instructions to formulate grades with a view to a national standard on apple, peach, pear, plum and other stock, to make a full report at the next meeting. A two-days' meeting was ordered to be held July 8-10, 1907.

Horticultural Topics.

Colorado, New Mexico and Arizona furnish us many handsome evergreens, hardy in our coldest States. To add to the list of hardy sorts the following European ones are almost of Arctic hardness: *Pinus cembra*, *Abies pichta* and *Picea orientalis*.

In city yards in New York the Japanese persimmon is hardy. But as a tub plant, to be housed in a cold cellar, barn or stable, it is more satisfactory. Care should be taken that the plant is a fruiting one.

It was supposed for a long time that there were no trees of salisburya entirely fertile, but many cases are known where trees of it, miles away from any other one, have borne fruit. The Landreths of Bristol, Pa., had such a one as long ago as 1871; and other cases of the same nature exist in Philadelphia. The seeds, sown in Spring, grow readily.

Schinus molle, the Australian pepper tree, so-called, is a valued shade tree in California. It bears racemes of rose-colored berries in the Fall, which are highly ornamental. Florists have taken to using them for Christmas. Cut in lengths of two to three feet, they are very useful for many purposes. The leaves have an aromatic odor, and are retained on the branches for many weeks.

Cementing hollow trunked trees is to be recommended, as it prevents moisture accumulating which, with air, causes further rotting of the wood. But every bit of rotten wood should be scooped out first, that the cement may set close to the outer or live wood.

Azaleas, kalmia, rhododendron and similar seeds can be sown indoors and with fair success. They are so dust-like in appearance that a mixture of the moss, sand and leaf mold should be prepared, the seeds sown on the surface of it, and then covered with glass, with some shading afforded to promote darkness.

Ordinary pears are not supposed to thrive in the South, but a Mississippi correspondent writes of a Seckel pear grafted on an apple stock, which is a great success. As a rule the Kieffer, Le Conte and kindred sorts are looked on as the ones for the far South.

Morus multicaulis is looked upon as a form of *M. alba*, the common white mulberry, being a form the flowers of which are entirely male instead of having those of both sexes, as is usual with mulberries. No one would think from its appearance that it had any relationship to *alba*. Its leaves remind one of those of the catalpa, and grow in shape like an inverted bowl.

Shallow Sowing of Seeds.

A not uncommon question asked of seedsmen is how deep to sow seeds. Oftener than not seeds are sown too deep. Good seeds often fail to grow from this cause. A rule, and a good one, is to let the size of the seed be a guide to the depth of covering. For instance, a seed one-eighth inch in width should be sown one-eighth inch deep. Seeds need dampness and darkness to germinate, and with these provided there is not such a great depth of soil required. This is where the firming of the soil is such a great advantage to the seeds. It promotes both dampness and darkness, and with the soil firmly pressed on the seeds, but little of it suffices.

Another benefit a light covering firmly pressed down confers is, that seeds push their way up better than when the depth of soil is greater. This aids the weaker seeds, for often there are seeds that never push through the soil, being weaker than others, and not having the strength to lift the covering above them.

Grafting *Euonymus Americanus*.

There is so much beauty in the fruit of the *Euonymus americanus* that it deserves a place in all collections of shrubs. The difference in its pods of seeds from those of other *euonymuses* is in its having warty-looking pods, and the pods are of an orange-scarlet color. As with all the species, when the pods open the deeper colored scarlet seeds are displayed. As the *Euonymus americanus* grows in its wild state it is often but a trailing shrub; sometimes an upright growth of a few feet will be made. As the display of its fruit would be seen to much better advantage were it taller, it has been suggested that if grafted on the *E. atropurpureus*, another native species, or on the *E. europæus*, both of which grow to the size of large shrubs or small trees in time, specimens would be obtained which would be of a most ornamental character.

There is a growing demand for native shrubs and trees of merit that are but little known, and were nurseries to keep a supply of *Euonymus americanus* grafted on tall *E. atropurpureus*, there would surely be a call for them.

A Bed of Evergreens.

Where the grounds of the Congressional Library Building, Washington, D. C. begin, there is a bed of evergreens which attracts the attention of all who pass by it. It is a very large bed, and, placed where it is, at the junction of two avenues, it pleases because of its appropriate position, as well as the



Bed of Evergreens on Congressional Library Grounds, Washington, D. C.

Those who have tried the light covering, firmly pressed down on the seeds, are greatly in favor of the practice. Another thing to remember is, that soil for covering should always be light, so as not to pack hard about the seeds.

Hardy Rhododendrons.

There seems to be a never-ending discussion of the subject of hardy rhododendrons, for it has been going on for 50 years or more, and it is still a matter for a difference of opinion. So much depends on situation governing hardness that differences of opinion may well arise; and much, too, depends on soil and the vigor of plants.

It was of interest to come recently on an article written by Samuel Parsons, which appeared in the *Gardeners' Monthly* in 1877. It related to the hardness of rhododendrons, and he made three classes of them—hardy, almost hardy and tender. In the hardy class he named *Roseum grandiflorum*, *Bicolor*, *Everestianum*, *Purpureum grandiflorum*, *Album elegans*, Mrs. Milner, H. W. Sargent, *Caractacus*, Charles Bagley and Lady Armstrong.

His almost hardy ones consisted of Lee's Purple, *Blandyanum*, Mrs. Clutton, *Scipio*, *atrosanguineum*, Titian, Minnie, Purity, Stella, Mrs. Halford.

In the tender column are found *concessum*, John Waterer, *Barclayanum*, Sir Robert Peel, Michael Waterer.

This list is of interest to-day, though given 30 years ago, for it will strike many of those familiar with rhododendrons that the list—old as it is—would not be considered very far wrong at the present time.

In the vicinity of Philadelphia *Blandyanum* and Mrs. Clutton usually winter fairly well, so much so as to merit a position in the hardy list.

nice collection of evergreens it contains. There is not in the whole of the evergreens, any of particular rarity; they are simply well selected sorts, such as are to be had from all nurseries. The pleasure in viewing them comes more from the nice arrangement of sorts and their healthy appearance than from looking on rare varieties. There are in the collection, such well known kinds as white spruce, golden and Chinese Arbor vitæ, Austrian and mountain pine, tree box, hemlock spruce, *retinispora*, yews and like plants. Our recollection is that there are no broad-leaved evergreens in the assortment, all being of a coniferous nature.

When planting a bed of this kind, one must have in mind that in time many of the subjects will become too large. It is well to use such sorts as will admit of pruning back as occasion demands it, but prune as one will, the plants will need thinning out in time, or perhaps a re-arrangement of the whole bed.

Although there is no need of protecting the evergreens named in Washington, such beds are great protection to sorts that may need it; and often some of doubtful hardness can be had to thrive when placed among others in a large bed.

Many evergreens have foliage of a pleasing golden color, others that of a variegated nature, and these are so handsome and make such a desirable display, that they are employed to form whole beds, and at all seasons of the year such a bed is a pleasing object. Prominent in this class of evergreens are the several varieties of golden and silver-tinted Arbor vitæ, of both the American and the Chinese species, the golden yews, the several *retinisporas*, and the gold and the silver-tinted *euonymuses*. These evergreens are attractive the whole year through, even in Winter. The yews are particularly so just as their new growth is perfecting itself in early Summer.

JOSEPH MEEHAN.

Boxwood Exhausted

Manetti, for grafting, 3-16 to 1/4 inch, \$10.00 per 1000.
Manetti, for grafting, 2-16 to 3-16 inch, \$7.50 per 1000.

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

EBBINGE & VAN GROOS

Formerly THE HORTICULTURAL CO.
BOSKOOP, HOLLAND
Hardy Nursery Stock, such as H. P. Roses, Rhododendrons, Azaleas, Clematis, Box-wood, Choice Evergreens, Peonies, etc.
Ask for Catalogue.
Mention the Florists' Exchange when writing.

Special **HEDGE PLANTS** Best Varieties

CALIFORNIA PRIVET DEUTZIA PRIDE OF ROCHESTER NORWAY SPRUCE
BARBERRY THUNBERGII TARTARIAN HONEYSUCKLE AMERICAN ARBOR VITAE
Full assortment of Ornamentals, Fruits, Roses, Clematis, Vines, Peonies and Herbaceous Plants.
Write for our fall wholesale trade list.
W. & T. SMITH CO., GENEVA, N. Y.
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ROSES

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GRIMSON RAMBLER, DOROTHY PERKINS, and other leading climbers. **BABY RAMBLER**, Hybrid Wichurana Hybrid Sweet Briar. Hybrid Rugosa and Hybrid Perpetual. Large assortment of varieties, fine stock and reasonable prices. Send for catalog or trade list.
BAY STATE NURSERIES, North Abington, Mass.

F. & F. NURSERIES

Wholesale Growers **TREES AND PLANTS** in full assortment.

SPRINGFIELD NEW JERSEY
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MANETTI STOCKS

Especially for Florists' use. Best French Grower.

Grafting Size, 3 to 5 m-m., per 1000..... \$7.00; per 10,000.....\$65.00
First Size, 5 to 10 m-m., per 1000..... 9.00; per 10,000..... 80.00

Newark prices. **DUTY PAID.** For prompt delivery, order now and avoid disappointment.

ROSES, two years, field-grown, well-rooted

DOROTHY PERKINS..... per 100, \$3.00
CRIMSON RAMBLER..... per 100, 10.00
HYBRID PERPETUALS, in good assortment, per 100, \$10.00 to \$12.00.

Send for our Wholesale Price List of Roses, Clematis, Flowering Shrubs, Conifers, Etc.

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Rhododendrons, Azaleas, Spiraea Japonica, Liliun Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

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Holland Nursery Stock

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Wholesale price list on application.
We carry immense quantities of the finest named varieties of peonies.

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For TREES, SHRUBS, VINES Your and SMALL FRUITS
Descriptive Illustrated Catalogue Free
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OAKS AND MAPLES
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ANDORRA NURSERIES
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DECIDUOUS TREES and SHRUBS, EVERGREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties.
Send for price list.

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Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.
Pot-Grown Plants for Forcing.
RHODODENDRONS, H. P. ROSES, Etc.
Catalogue free on demand.

The Great Gold Medal Canna

"**KING HUBERT**." The grandest of all Cannas. It leads for size, color, and free blooming character. Strong started plants \$20.00 per 100. Brandywine and Egadale dry bulbs, \$4.00 per 100; \$30.00 per 1000. Crimson Bedder, a rich color and very profuse bloomer, \$2.50 per 100; \$20.00 per 1000.
Cash. **A. CORLIN, Elberon, N. J.**

CANNAS

600,000 plump, sound roots (no culls), true to name, 2, 3 eyes and more, all the leading kinds, \$7.50 per 100 and upwards. Write for list and prices before you buy elsewhere.

SHELLROAD GREENHOUSES, Grange, Baltimore, Md.
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DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

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Successors to L. K. PEACOCK, Inc.
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Has the largest and finest collection of Dahlias in the United States, with prices that will suit the trade.

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NEW DEPARTURE IN GRAFTING ROSES

SCIONS TO BE FURNISHED BY THE CUSTOMER.
If you are planning to use any quantity of Roses the coming season, write to us for prices. We cannot get enough wood from our plants for all of our orders, but our facilities for grafting are first-class. Write for prices.

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Rooted ROSE Cuttings

AMERICAN BEAUTIES	per 100, \$3.00; per 1000, \$25.00
KAISERIN	" 2.50 " 20.00
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GRAND NEW CANNAS

William Saunders

The flowers are large, of splendid form, and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson. Foliage is a rich bronze. Height, 3 1/2 to 4 feet. We believe that **Wm. Saunders** is decidedly the most perfect canna of this type that has been introduced. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Ottawa
is a strong grower, very robust and 5 to 6 feet high. The flowers are large and beautifully formed, color is carmine with tints of old rose and deep coral, add to this the silken sheen and you can imagine the effect a few plants will produce.
Note:—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert:
Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 massed in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size." 50c. each; \$5.00 per doz.; \$35.00 per 100.

New York

Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of cannas. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

ROSES Shrubby

Are our great specialty, 2 1/2 and 4 in. pot plants we have in great variety. Tea, Hybrid Tea and H. P. Roses on their own roots, Philadelphia Rambler, Crimson Rambler, Dorothy Perkins and other climbers in strong field plants.
in variety. Viburnum Plicatum, Spiraea, Altheas, Deutzias, Weigelia, Barbary Thunbergii, Hydrangea Pan. Grandiflora, Honeysuckles, etc.
Send for our Price Lists.

THE CONARD & JONES CO., WEST GROVE, PA.

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-CANNAS- ASTER SEEDS

At Exceedingly Low Prices—Send for List and Prices.

NATHAN SMITH & SON, ADRIAN, MICH.
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CANNAS

10 varieties, dry bulbs, my selection.....\$2.50
Geraniums, 10 varieties, my selection, 2 and 2 1/2 in. pots.....3.00
Pensy Plants, small from frames \$3.00 per 1000...50
Asparagus Plumosus Seed, Feb. 15, \$2.50 per 1000; 60c. per 100. Cash.

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Large Stock of PEONIES, M. L. RHUBARB LUCRETIA DEWBERRY

Write for Prices
GILBERT H. WILD, Sarcozie, Mo

Field-Grown ROSES

1 1/2 to 4 ft. high, 90 varieties, \$8.00 per 100.
CRIMSON RAMBLER
1 and 2 years, 1 1/2 to 4 ft., \$3.00 to \$5.00 per 100.
Climbing Clothie Soupert, \$6.00 per 100.
Mme. Plantier, \$5.00 per 100.

WM. K. NELSON, Augusta, Ga

Miss Kate Moulton

Is the **QUEEN** of all Pink Roses
Write us about it
Minneapolis Floral Co., - Minneapolis, Minn.

Rooted Cuttings of The Bride and Bridesmaid Roses

\$1.50 per hundred. Our Roses were awarded first prize by American Rose Society.
BRANT BROTHERS, Utica, N. Y.
Successors to Peter Crowe.
Mention the Florists' Exchange when writing.

The Johnson Seed Company.

This concern, of which Herbert W. Johnson of the old firm of Johnson & Stokes, Philadelphia, Pa., is president, was established in July, 1906, on the expiration, by limitation, of the last-named firm. In the catalogue just issued by the new concern appear the following statements which are of general interest:

Mr. Johnson says: "Before establishing the late firm of Johnson & Stokes in 1881, I served an apprenticeship of nine years with one of the best-known seed houses in Philadelphia, since which time I have taken personal and complete charge of the growing of and contracting with private growers for the entire garden seed supply of Johnson & Stokes. Thus I offer you the benefit of thirty-four years' all-round experience as employee, partner, seed-grower, business head and manager of a successful seed business."

Concerning the personnel of the new firm it is stated:

"In appreciation of their hard work for so many years, which contributed so largely to the success of the old firm, it was my desire to give to several of the old and deserving employees an interest in the business, by making them stockholders. With this object in view, the Johnson Seed Company was formed at that time, of which I am still the active business head and seedsman, being president and general manager; also giving, as I have done in the past twenty-five years, close personal supervision to our seed crops during growth.

"Joseph F. Bradley, for twenty-four years with the late firm of Johnson & Stokes, continues as manager of the order department of garden and grass seeds and poultry supplies. William J. Sherry, for twenty-two years with the late firm of Johnson & Stokes, also retains his old position as manager of the flower seed, bulb and mail order departments. Clifford Phillips, who has had charge of the books and accounts of Johnson & Stokes for twenty years, is secretary and treasurer of the new company. A large number of other old and competent employees also remain in their former positions."

The principal store of the firm is at 217 Market street. Since July 1 last over \$7,000 have been expended in the addition of new fixtures and other facilities to meet the requirements of trade.

The Johnson Seed Company also has seed testing and plant growing houses at Pavonia, N. J., but does not raise any stock of ornamental plants, cut flowers, etc., for market. In addition there are the Cedarcroft seed gardens and trial grounds, which comprise 28 acres of a great variety of soils, for the testing of flowers and vegetables, and for growing and developing choice high-grade seed stocks for planting at Gardendale or on the firm's other seed farms or those of its expert private contract growers.

Notes on Gladiolus.

A PROMISING YELLOW GLADIOLUS.—While yellow is far from being a rare color in gladiolus species and garden varieties, it is seldom found in clear, bright shades, and is usually associated with other tints or markings in the same flower. Good self-colored yellows are much to be desired, and breeders have from the earliest stages of improvement of this favorite flowering plant worked earnestly to obtain them, but so far the varieties that have found their way in commerce are too pale, or if the body color is good, there are often too conspicuous markings of other tints. Good yellow species for breeding purposes have always been lacking, for though the prevailing color of several wild kinds is yellow, it is so often obscured or associated with other colors, usually a dominant shade of red, that the progeny, even under the most careful systems of hybridization and selection, do not show up pure yellow varieties. Two really pure yellow-flowered species have recently been introduced from South Africa, and there is good promise that fine self-colored garden varieties suitable for general culture may be evolved from at least one of them. The first came to the Rural Grounds in 1899, kindly submitted for trial by Herr Max Leichtlin, Baden Baden, Germany, whose collector found it in the mountains of Central Madagascar. It proved to be a small plant, scarcely as large as a freesia, and a winter bloomer. No practicable degree of retarding or of early planting could induce it to bloom in summer. The flowers, however, were of good size and of a wonderfully pure and bright yellow, with no other marks or shadings whatever. A single hybridization was effected between it and a new red-and-yellow summer-blooming species of vigorous growth, also collected in Madagascar, resulting in very ordinary salmon-colored progeny, which, when later crossed with the best available commercial yellow variety, produced a fine bright self-colored flower borne on a robust plant. The original yellow Madagascar species has so declined in vitality that we fear it will soon be lost to cultivation. This species has not, to our knowledge, been named, and no further specimens have been collected.

GLADIOLUS PRIMULINUS.—We appear to have in this newly-introduced species a most hopeful source for breeding yellow varieties. While its existence has been known since 1890, its introduction to horticulture apparently dates from 1904, when Mr.

Francis Fox, Wimbledon, England, a distinguished civil engineer associated with the building of the great railroad bridge over the mighty chasm just below the Victoria Falls of the Zambesi River, of South Africa, first flowered and exhibited a superior natural variety of the species from corms he had collected in the "rain forest," as the wooded belt near the bottom of the gorge is called. This rain forest is constantly drenched with mist from the falls, almost the greatest in the world, and the vegetation there is usually provided with means for sheltering its essential organs of reproduction from the ever-falling moisture. The particular species of gladiolus under consideration was found growing almost under the falls, where nearly all parts of the plant are constantly bathed in warm moisture, the anthers and stigmas being protected from wet by the sheltering hood of the bloom, formed by the drooping upper petals or perianth divisions. Mr. Fox has named this beautiful variety "Maid of the Mist," on account of its very peculiar habitat, and kindly supplied the writer with sufficient corms for a very thorough trial. We have formed great hopes of it from two seasons of culture and observation, during which many hundreds of hybridizations were effected between it and selected species and garden varieties, generally with a view of developing better yellow kinds. Nearly 2,000 cross-bred seedlings have been raised, about 150 of which bloomed last summer. One, at least, bears flowers much larger than the parent, of excellent form and nearly as good a shade of yellow, with no other coloring whatever. The vigor of growth possessed by the

flowers larger and the plant more vigorous than that of the original *Gladiolus primulinus* found along the lower reaches of the Zambesi River. The great prospective value of this Victoria Falls variety lies in its vigor and adaptability to culture as well as its fine coloring. The Madagascar species had as good flowers, but it was small and weak, so difficult to grow that the stocks both here and in Europe died out under the most careful treatment. As *Primulinus* now stands it appears worthy of cultivation for its own sake as well as for breeding purposes.

YELLOW GARDEN GLADIOLI.—Quite a number of gladiolus varieties are listed as "yellow." While this is, of course, the prevailing tint they often disappoint purchasers from their lack of purity. The yellow is usually combined with red or purple, and is often too pale or dull to be agreeable. The yellow shades, as a rule, do not increase as freely as the reds and pinks, and are usually held at higher prices. Canary Bird, which originated in Long Island, we regard as the finest yellow now in commerce. The color is good and clear and is commonly free from other markings, the only objections being the moderate size of the flowers and the weak and crooked form sometimes assumed by the spike. Ferdinand Passay, sent out several years ago by the Lemoines, of Nancy, France, is the best yellow of the "butterfly" type we have tried. The shade is light sulphur, and there is the usual crimson blotch characteristic of this group. Isaac Buchanan is an old and still popular variety of the gandavensis type. It has a dense spike of narrow, deep yellow flowers thickly



First Floor of Johnson Seed Company's Store, 217 Market Street, Philadelphia. Photo Taken One Week Before Christmas, 1906.

Maid of the Mist variety of *Gladiolus primulinus* and the readiness with which it crosses with other species appear to foreshadow great possibilities as a breeder of desirable new forms. The hybrids already bloomed show it to be prepotent, either when used as a seed or pollen parent, over all other colors, except intense red, and it even then impresses rich yellow throats in the blooms of its offspring.

A GOOD GROWER.—It might be supposed that this very distinct gladiolus, the outcome of countless generations of special adaptation to very peculiar conditions, would not do well away from the steamy atmosphere and saturated soil of its native locality, but it turns out to be a thrifty grower under ordinary garden conditions. In dry soil the blooms are smaller and the leaves more rigid than if allowed plenty of moisture at the roots, but a saturated atmosphere does not seem to be needed for the perfect development of plant and flower. Good-sized corms send up from one to five strong spikes, about four feet high at blooming time. They are furnished with the usual side spikes, and will average eight blooms each. The flowers last two or three days, standing our hot sun very well. The foliage is very upright and deep green in color. It is a rather early bloomer, opening in July when planted in May, and blooms splendidly in winter when grown under glass. The color of the blooms is uniform bright yellow all over, inside and out. The shade is said to be much richer,

flaked with dull red or purple. It has been in commerce over 40 years, and nothing much better has yet appeared. The much heralded "yellow" novelties usually turn out to be commonplace seedlings that should never be offered to the public. Growers generally find that yellow hybrid varieties produce red seedlings, no matter what pollen is used on them, and most of the few meritorious yellow kinds now known are thought to have been grown from red-flowered parents. The introduction of a good yellow species that not only breeds true, but is able to impress its coloring on cross-bred progeny, is therefore a cheering incident.—W. V. F., in Rural New Yorker.

ELBERON (N. J.) HORTICULTURAL SOCIETY on January 7 held a most interesting meeting. The principal feature was the elegant display of fine carnations consisting of fifteen vases of which the following varieties were shown, Enchantress, Mrs. Lawson, Victory, Robert Craig, Lady Bountiful, White Lawson, and one large vase of Winsor from Pierson Company of Tarrytown, N. Y., which was admired by all. Mr. Bauer gave an interesting talk on the carnation of the past and present in a most able manner. The society as an organization held true to the old and tried varieties of carnations, and certainly were loyal to Red Lawson, Enchantress, and Lady Bountiful. F. W. D.

WE ARE NOW GRAFTING ROSES

This is the Best Time to Place your Order.

In this Way you will Get Just What you Want

Read what some of your customers say about our stock of previous years:

Auburn, R. I., April 28, 1906.
 "The grafted Richmond we had from you this spring were as nice as could be, which has been the case with all the stock we ever had from you. You may rest assured when we want grafted roses or plants of any kind you can furnish you will have our order."
 (Signed) The J. A. BUDLONG & SON CO.

Hyde Park, Dutchess Co., N. Y.
 "I would like to thank you for the quality of grafted roses and American Beauties, on own roots, which you have sent me each year. I can-

sider the stock A No. 1 in every respect and doubt if better could be obtained from any other firm."
 (Signed) HENRY J. ALLEN,
 Gardener to Mr. F. W. Vanderbilt.

Amherst, Mass., April 30, 1906.
 "I never saw finer or cleaner stock sent out by any firm than I received from you this year."
 (Signed) W. WESTLAND,
 Gardener to Mr. Francis Blake.

Flushing, L. I., May 1, 1906.
 "The Richmond rose plants come to hand in good shape, fine healthy stock, well packed and good count. I am very much pleased with them

as I have been in the past with all stock purchased of you. It gives me great pleasure to send an order to your house for I know I will get just what my order called for, no outs, no runts, but clean, healthy stock."
 (Signed) A. L. THORNE.

Whitinsville, Mass., April 25th, 1906.

"The rose plants received from you this spring were the best I ever received from any source."
 (Signed) THOMAS BOWDEN,
 Gardener for Mr. Arthur F. Whitin.

Lenox, Mass., Dec. 4th, 1908.
 "The grafted rose stock which you have supplied me with for the past six or seven years has been of the highest quality and has given me the greatest satisfaction. I have great pleasure to again send you my order."
 (Signed) EDWIN JENKINS,
 Supt. B. Lafontaine Gardens.

Morton Grove, Ill., Dec. 12, 1906.
 "The grafted Killarney you supplied us was extra fine. Our only regret was that instead of getting 2600 plants we didn't order twice as many."
 FOELLMANN BROS. COMPANY.

We intend to maintain our usual high standard this year. Send for catalog of varieties and prices.

A. N. PIERSON

Cromwell, CONN.

Mention the Florists' Exchange when writing.

ROSES

A New Development in Rose Growing.

For some time past The Floral Exchange at Ridgely, Md., has had its establishment was too near the Delaware River to grow American Beauty roses successfully, so the proprietors have been looking around for a new location and finally have purchased a farm of 50 acres at North Wales, Pa., 22 miles from Philadelphia. A new corporation has been formed under the name of The Florex Gardens, with D. Fuerstenberg, president; H. C. Geiger, treasurer; and Eugene Bernheimer, secretary. George Samtman, formerly of Myers & Samtman, has been engaged as superintendent.

While the new company has not yet positively decided just what it will do, the present intention is to build one large single-span trussed house, 150 feet wide by 425 feet long, covering 1 1/2 acres of ground, and to hold 40,000 plants of American Beauty. This variety only will be grown on the new place, giving up the houses at Edgely entirely to tea roses. It is hoped to start operations at once, so that the place can be in working order by next July.

North Wales is a good shipping point, being on the North Penn. division of the Reading railway. The ground is close to the station.

We learn that some parties are looking up land values, etc., around Hillside, Pa., where the famous Liberty and Richmond roses are grown.
 DAVID RUST.

"Not a bloomin' thing but ROSES to offer you."

ROSES

101 Best Sorts. Own Roots. 2 1/2 and 4 in. Get our price list. Send your want list.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO.
 Mention the Florists' Exchange when writing.

American Beauties

We have them. You want them. We're booking orders or early delivery. Fine stock. Write us for price.

ALDRICH FLORAL COMPANY, 26 E. High St., MENTON THE FLORISTS' EXCHANGE WHEN WRITING.

Beautiful New Pink Rose "Aurora"

See announcement and full description in Florists' Exchange, Dec. 8 issue.

PAUL NIEHOFF, Leighton, Pa. Mention the Florists' Exchange when writing.

Roses! Cannas! Violets!

Roses. We have in stock upward of 1000 different varieties, consisting of the very latest European varieties, as well as all the leading varieties of American origin. Stock from 2 1/2 and 4 in. pots, all on own roots. Ask for catalogue.

Cannas. 40 leading varieties. \$10.00 per 1000 and upward. Write for list and prices. Louisiana Canna \$6.00 per 1000.

Violets. Lady Hume Campbell, Princess of Wales, Swanley White, Admiral Ayell and Luxonne, nice strong plants, from 2 1/2 in. pots, \$3.50 per 100; \$30.00 per 1000.

Clematis Paniculata. two-year-old field-grown stock, strong plants, per 100 \$7.00, per 1000, \$65.00.

Cissna Discolor. nice plants, from 2 1/2 inch pots, per 100, \$4.00.

Cyperus Gracilis. from 2 1/2 in. pots, per 100, \$3.50.

Weeping Lantana. from 2 1/2 inch pots, per 100, \$3.50.

Viburnum Plicatum and a complete list of hardy shrubs, vines and miscellaneous plants of all kinds. Send us your list for prices. Ask for Catalogue—it's free. Address

THE DINGEE & CONARD CO.,
 Rose Growers, WEST GROVE, PA.
 Established 1850. 70 Greenhouses.

ROSES

EXTRA HEAVY IMPORTED HYBRID PERPETUALS

in all leading varieties, per 10 \$1.50, per 100 \$12.50
CRIMSON RAMBLER..... 15.00
BABY RAMBLER..... 17.50

PERENNIAL GARDENS CO., - TOLEDO, O.

500,000 VERBENAS

60 Finest named varieties; rooted cuttings 75c. per 100; \$6.00 per 1000.

Plants, \$2.50 per 100; \$20.00 per 1000.

Our list is the choicest from millions of seedlings. Order early.

J. L. DILLON, Bloomsburg, Pa.

The Floral and Plant Business of the late Mr. J. L. Dillon will be continued under his name by his executors. LOUISE H. DILLON, ALICE D. FURMAN. { Executors

Cultural Directions

Are leaflets written by practical men especially for the use of amateur customers.

If you have a counter trade, either in plants, seeds, flowers or bulbs, you should have a supply of these leaflets on hand to present to your customers when they seek cultural information about their purchases.

(The leaflets embrace over forty subjects.) We can supply them at \$2.50 per 1000, or 500 for \$1.50 and can make a reduction of those prices on large quantities.

At a small extra cost we can put your imprint on each leaflet. Try a thousand and see what it help they are in selling goods.

THE FLORISTS' EXCHANGE

P. O. Box, 1697 NEW YORK
 Mention the Florists' Exchange when writing.

DREER'S UNRIVALED STRAIN OF DOUBLE PETUNIAS

ROOTED CUTTINGS BY MAIL 100
 White, pink, red, crimson and variegated... \$1.25
 Petunia Grandiflora, single, 10 varieties... 1.25
 Abutilon Savitzi... 1.50
 Cuphea (Cigar Plant)... .75
 Ageratum, 4 varieties... .75
 Strobilanthes Dyeriana... 1.25
 Gazania Splendens... 1.50
 Flowering Begonia, 8 varieties... 1.50
 Heliotrope, Da 2, from soil... 1.00
 Lantanas, dwarf, 6 varieties, from soil... 1.25
 Lantanas, trailing... 1.25
 Scarlet Sage, tall and dwarf... 1.00

PLANTS
 Dracaena Indivisa, 18 to 38 in. high... \$10.00, \$15.00 and... \$20.00
 Shasta Daisy, 3 in... 3.00
 Rose and Oak Leaved Geraniums, 2 in... 2.00
 Mad. Salleron Geraniums... 2.00
 Cash with order please.

GEO. J. HUGHES, BERLIN, N. J.
 Mention the Florists' Exchange when writing.

A FEW GOOD THINGS YOU WANT

DRACAENA INDIVISA, 4 and 5 in., \$10.00 and \$25.00 per 100.
 ASPARAGUS SPRENGERI, 2 in., \$2.50 per 100.
 GERANIUMS. S. A. Nutt, John Doyle, Perkins, Double Gen. Grand 2 in. pots, \$2.00 per 100. 2 in. pots, E. H. Trego, and Castellane, \$4.00 per 100. Rooted cuttings, \$1.00 per 100.
 GLADIOLUS, blooming bulbs, extra fine mixture to close out while they last, 60c. per 100; \$5.00 per 1000.
 VINCA, Var., 2 inch, \$2.00 per 100.
 REX BEGONIA, nice plants, 2 and 2 1/2 in., \$5.00 per 100.
 ASPARAGUS PLUMOSUS, 2 in. \$3.00 per 100; 3 in. \$5.00 per 100.
 BOSTON FERN, 5 in. 30c. each.
 PIERSON FERN, 6 in. 50c. each.

GEO. M. EMMANS, Newton, N. J.
 Mention The Florists' Exchange when writing.

ROOTED CUTTINGS

AGERATUM (Inimitable new). It is the finest Ageratum in cultivation. R. C., \$1.00 per 100; 2 1/2 in., \$2.00 per 100.
 PETONIAS, double mixed; R. C., 76c. per 100; \$6.00 per 1000; 2 1/2 in., \$1.50 per 100.
 VINCA, variegated, fine plants, 2 1/2 in., \$1.60 per 100.
 LEPIDACE, ORSnd Rapids, fine plants \$1.00 per 1000.

J. C. SCHMIDT CO., BRISTOL, PA.
 Mention the Florists' Exchange when writing.

2 1/2 in. ASPARAGUS PLUMOSUS, \$3.00 per 100, 3 in. SPRENGERI, \$4.00 per 100.
 2 in. HIBISCUS, in variety, \$2.50 per 100.
 2 in. Flowering BEGONIA, \$2.50 per 100
 2 in. BOSTON FERN, \$3.00 per 100
 2 in. TARRYTOWN FERN, \$5.00 per 100.
 2 in. SCOTTII, \$4.00 per 100.
 3 in. " \$6.00 per 100.
 4 in. " \$10.00 per 100.

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

Special Offer

Cyclamen Splendens Giganteum. This strain has no equal or better; in five colors, including fringed varieties twice transplanted from flats \$3.00 per 100, \$25.00 per 1000.

Primula Obconica Grandiflora. The celebrated Ronsdorfer and Lattmans Hybrids in bud and bloom, from 5 in. pots, \$1.80 per doz., \$15.00 per 100.

Primula Chinensis. Fringed varieties, extra fine plants in bud and bloom, from 4 in. pots, \$1.00 per doz., \$8.00 per 100.

Cinerarias Hybrida Grandiflora. Well grown plants, 2 1/2 in. \$3.00, 2.50, from 3 in. pots, \$4.00, from 5 in. pots \$15.00 per 100.

Asparagus Plumosus Nanus. Fine plants, 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 3 1/2 in. pots \$8.00 per 100.

Geraniums. Alpb. Ricard, Doyle, Castellane, Nutt. Poitevine, Hill, Landry, Viard, Jaulin, Favorite, Gloire de France, extra fine cool grown stock from 2 1/2 in. pots \$2.50 per 100, \$20.00 per 1000.

Cannas. Pres. McKinley, Alpb. Bourvier, Chicago, Queen Charlotte, Florence Vaughan, Egandale, J. D. Cabos, fine tubers, no better, true to name; \$2.00 per 100, \$17.50 per 1000.

PAUL MADER, EAST STROUDSBURG, PA.

Mention the Florists' Exchange when writing.

Superb Boxwood, just arrived, perfectly shaped bushes for window boxes, 75c. a pair; 24 in. high, \$1.00 to \$1.50 a pair.
 Pyramid Box, 3 ft. high, \$2.50 to \$3.00 a pair; 3 1/2 ft. high, \$4.00 a pair; 4 ft. high, \$4.50 and \$5.00 a pair; 4 1/2 ft. high, \$5.00 to \$7.00 a pair; 5 feet, \$8.00 a pair; 5 1/2 and over, perfect specimens, \$9.00 a pair.
 Boston Ferns, 5 in. pots, \$3.00 per doz.; 6 1/2 in. pots, \$9.00 per doz.; 8 in. pots, \$15.00 per doz.; 11 in. pots, \$25.00 and \$30.00 each. Specimens in 12 in. pots \$5.00, \$6.00 and \$7.00 each. 14 inch pots, \$15.00 per pair.

ANTON SCHULTHEIS
 18th Street & 4th Avenue
 COLLEGE POINT, N. Y.

Mention the Florists' Exchange when writing.

TRUE STOCK
 Aquilegia Coerulea

Rocky Mountain Columbine

From the Rockies
 SEED—1 oz. \$1.00, 1/2 lb., \$3.50; lb. \$12.00 by mail.
 ROOTS—4 and 5 year old, doz. \$1.25; 100 \$3.00, by express.

Order from headquarters.

THE BARTELDES SEED CO., DENVER, COLO.
 Mention the Florists' Exchange when writing.

LIST OF ADVERTISERS

INDEX TO STOCK ADVERTISED

Table listing advertisers with their names and associated numbers, including Aldrich Floral Co, Allen J K, American Spaw Co, etc.

Table listing stock items with their names and numbers, including Abutilon, Agratum, Alyssum, Aracaria, etc.

Contents.

Table listing contents of the issue with page numbers, including America's Most Northerly Greenhouse, American Breeders' Association, etc.

A CARNATION NUMBER

Our issue for January 26 will contain a full report of the annual meeting and exhibition of the American Carnation Society, to be held in Toronto, Wednesday and Thursday, January 23 and 24.

Never before were buyers so eagerly on the lookout for good carnation stock, both in standard varieties and in novelties.

YOU SHOULD SECURE YOUR SHARE OF THIS TRADE.

Send your advertisement intended for that issue so as to reach us not later than Wednesday noon, January 23, 1907.

San Francisco.

News Notes. Two evenings before Christmas the Dwight Way Nursery, a valued source of choice flowers for San Francisco florists, suffered a mishap to the extent of \$500.

Cincinnati.

News Items. Monday the thermometer stood at 66 degrees, with cloudy weather. We have not seen Old Sol more than three or four times for all day in the past two months.

TRADE NOTES:

Cincinnati, San Francisco 37 Cleveland, New York, St. Louis 39 Detroit, Indianapolis 49 Boston, Passaic, N. J. 55 Kalamazoo, Pittsburg 56 Chicago, Philadelphia 57 Milwaukee, New Orleans, St. Paul 58 Week's Work, The 47 Weld, S. M. (Portrait) 44 Wintzer, Antoine (Portrait) 44

AMERICAN SEED TRADE ASSOCIATION.

The Executive Committee met at the New Willard Hotel, Washington, D. C., on January 10, and decided to hold the next convention at New York city. There were present President H. W. Wood, W. H. Grennell, J. C. Robinson, and C. E. Kendel, secretary and by invitation, Albert McCullough, Henry Nungesser, George S. Green, Vice-president C. S. Burge, Alexander Forbes, W. Atlee Burpee, and F. W. Bolgiano

A Los Angeles newspaper just to hand reports that Rudolph Fischer, of Great Neck, L. I., has bought five acres of land about twelve miles from Los Angeles and has built a house and planted about an acre of Freesia Purity; that his family already is living on the place, and that Mr. Fischer



Salvia Splendens "Bonfire"

New Crop DREER'S RELIABLE FLOWER SEEDS

The following short list embraces but a few of the things which should be sown early. New Crops are now ready to send out.

	Trade	pkt.	Oz.
Ageratum Blue Perfection.....	\$.15	\$.50	
Alyssum Little Gem, extra dwarf.....	.10	.30	
Centaura Gynocarpus.....	.15	.35	
Cobaea Scandens.....	.10	.30	
Dracaena Indivisa.....	.10	.30	
Grevillea Robusta.....	.15	.50	
Lopelia Crystal Palace Compacta.....	.30	1.25	
Speciosa, dark blue trailing.....	.15	.50	
Patunia, Dreer's Superb Single.....	.50		
Fringed.....	.50		
Patunia Dreer's Superb Double.....			
Fringed.....	\$1.50		per 1000 seeds

	Trade	pkt.	Oz.
Salvia Splendens (Scarlet Sage).....	\$.25	1.00	
Ball of Fire, dwarfest.....	.50	1.00	
Bonfire, compact.....	.40	2.25	
Burning Bush.....	.30	1.50	
Smilax.....	.10	.30	
Vinca, rose, white and white with eye.....	.15	.50	
Mixed.....	.15	.40	
Verbena, Dreer's Mammoth, extra fine, white, scarlet, pink, purple or striped.....	.30	1.25	
Verbena, Mammoth, finest mixed.....	.25	1.00	

Our Wholesale and Retail Catalogues for 1907 have been mailed to the trade. In case you have not received a copy, let us know, and we will send you another. These catalogues con-

tain the most complete offering of Seeds, Plants and Bulbs in the country. Do not wait until the Spring rush, but order now.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

SPIRAEAS, AZALEAS, RHODODENDRONS, Etc.

- SPIRAEA NANA COMPACTA, Strong clumps in best condition, \$4.00 per 100.
- AZALEA INDICA, Msd. Van der Cruysen, Prof. Walters, Empress of India, Helen Thielman, Simon Marder, at import prices to close out.
 - 12 to 14 in. crowns—\$45.00 per 100.
 - 14 to 16 in. crowns—\$55.00 per 100.
 - 16 to 18 in. crowns—\$90.00 per 100.
- AZALEA MOLLIS, Fine for forcing, bushy and full of buds.
 - 12 to 16 in. high—\$25.00 per 100
 - 16 to 18 in. high—\$35.00 per 100
- RHODODENDRONS, bushy, perfect plants, brightest and best we ever had—full of flower buds.
 - 18 to 20 in. high, \$9.00 per doz.
 - 20 to 24 in. high, \$12.00 per doz.
- LATANIA BORBONICA, 4 in. pots, short and bushy, \$15.00 per 100.
- KENTIA BELMOREANA, 5 in. fine, \$60.00 per 100.

The STORRS & HARRISON CO., PAINESVILLE, OHIO.

Mention the Florists' Exchange when writing.

LATANIA BORBONICA

	100	1000
2 inch.....	\$3.00	\$25.00
3 inch.....	6.00	
4 inch.....	12.00	

These are good value and in fine condition. Still a few Begonia Gloire de Lorraine at 50c. and 75c. each.

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

Primula Obconica Grandiflora

2 1-2 in., \$2.50 per 100. Ask for list (seedlings of hardy plants) BAUDISCH & CO., 537 Fulton Street UNION HILL, N. J. Mention The Florists' Exchange when writing.

Chrysanthemum growers who have a surplus of stock plants should advertise them in THE FLORISTS' EXCHANGE. Mention the Florists' Exchange when writing.

For Decoration Day SPIRÆAS

Are a most useful plant

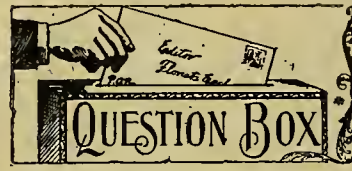
We have an excellent lot in cold storage, extra large clumps, and offer them as follows:
 Spiraea Japonica. Per 12 60c., per 100 \$4.50, per case, about 300, \$12.00.
 Spiraea Compacta Multiflora. Per 12 60c., per 100 \$4.50, per case, about 300, \$12.00.
 Spiraea Astilboidea Floribunda. Per 12 60c., per 100 \$4.50, per case, about 300, \$12.00.
 Spiraea H. Witte (new). Undoubtedly one of the finest and most profitable Spiræae for florists. Per 12 \$1.00, per 100 \$7.50, per case, about 300, \$21.00.

POT GROWN LILACS

Extra strong and well set with buds.
 50 Marie Le Graye. 50 Chas. X. 50 Md. Cassier Parler, 50 Md. Lemoine, \$6.00 per dozen while they last.
 50 Deutzia Lemoine! (pot grown), at 18c. each

Arthur T. Boddington

342 W. 14th St., New York
 Mention the Florists' Exchange when writing.



Lilium Speciosum in Pots.

(4) Please give instructions for starting and blooming Lilium speciosum in pots for Summer. A succession of batches desired.

Penna. A. M. B.
 —Pot the bulbs separately in 5-inch pots and plunge them in a cold frame. Commencing about the first week in March, bring a few into the greenhouse once a week; leaving the last batch to flower in the frame.

A Boiler Question.

(5) I am building a small greenhouse, 11 x 30 feet. I am offered a boiler that was used for heating a dwelling. Can it be employed as a greenhouse heater?

New Jersey. A. D.
 —Any boiler that is in good repair is suitable for heating a greenhouse, whatever it may have been used for previously.

Stocks for Memorial Day.

(6) Please tell me if Ten-week stocks for cut flowers for Memorial Day can be grown under sash covered with prepared cloth, by starting them in the greenhouse and transplanting to frames first of April, the frames being heated by hot water pipes. SUBSCRIBER.

Maine.
 —Stocks sown the latter part of this month, and treated in the manner suggested, should be quite satisfactory for cut flower purposes for Memorial Day.

Kindly tell me when is the best time to sow seeds of stocks to have them in flower to cut for Decoration Day; also if the same sowing will produce good salable plants in flower in 3 1-2-inch pots for the same occasion; and if not, when is the best time to sow for pot plants? What are considered the best kinds for cut flowers, and for pot culture? Mass. A SUBSCRIBER.

—The stocks required for cutting purposes we would sow at once; in the case of those intended for pot sales we would sow the seed the middle of February. Consult any seedman's catalogue for the best varieties.

Roses.

(7) Will alfalfa sod composted with cow manure make a good soil for growing roses?

Is rain water as good or better than water from wells for watering roses in greenhouses? I have a pond that I can use for holding water, and by carrying water through pipes from the roofs of my greenhouses I can have a large supply to draw from. Furthermore, there would be the liquid manure from the stable and yards running into it.

Whom can I address as to analyzing soil and water for growing roses, chrysanthemums, and carnations?

Kan. W. E. B.
 —We have had no experience with alfalfa turf, but if it decays in a manner similar to what other turf does it will make good sod for roses. Rain water is good for plants, because it is soft. Water from a pond is equally so, therefore just as good as rain water, so there is no need to try and save all the rain water.

To obtain analysis of soil and water, address your State Experiment Station, or the Department of Agriculture, Washington, D. C.

Under separate cover I send you one of my roses together with some of the soil in which they are planted. I got the small plants about June and planted them in three-inch pots, which I bedded in the ground, and in this way grew the plants until about the first of October, when I planted them in my greenhouse. The plants were a little small, but looked thrifty, and I thought they had done very well considering the unusual wet weather last Summer. Some of the pots had a grub worm working in them during the Summer and those plants were much smaller. After planting them in the bed they shot out a number of small shoots and had little flowers. I then wrote you asking what to do to make the flowers larger, and you replied that you thought the next crop would be larger and that the liquid cow manure I was using was all that was necessary. I trimmed the plants back then, thinking it would make them more bushy and that they would produce stronger flower shoots. Since then they have hardly done anything, although I have watered them every week or two with liquid manure and done everything else I know of to make them grow.

The soil I planted them in was composed of about equal parts of good garden soil, woods dirt, sand and sifted compost made from rotted leaves, grass, sweepings, etc., I also put some manure with the soil. Last week I practically replanted one of my beds, that is, pulled up the plants, shook the roots apart, stirred up the soil thoroughly and replanted them. Around the roots of about half the roses I found a large fish-worm and three or four others around in the bed. Please tell me what you think is the matter and whether there is anything wrong with my soil. I hardly think the cause could be altogether from the worms, as all the roses have been affected alike.

North Carolina. R. E. G.
 —The soil mentioned as used for the roses is entirely unsuitable. The good garden soil and the manure would have been all right, but the other materials should have been left out. In addition to the soil used being unsuitable, the treatment accorded the plants has been equally so. The cutting back of the young growths at this season of the year was a very unwise thing to do.

If inquirer will read carefully the articles on rose culture, as they appear in The Florists' Exchange, he will gain much information regarding rose culture under glass. If the rest of the plants are similar to the one sent for inspection, we would clean out the benches entirely and start afresh with new plants and new soil. I am interested in six rose houses, 20 x 150 feet. These houses are suffering severely from thrips that appear on the rose petals, having made their way into the green buds, eating the roses as they matured. What can I do to thoroughly exterminate them?

We seem to have exhausted, without apparent effect, the usual remedies, such as spraying with nicotine, painting the steam pipes with nicotine, spraying with Ivory soap suds and kerosene. Last year we had the specialist who advertised in your columns spend a week fumigating with hydrocyanic gas, but all without results.

Now we grow splendid roses apart from this scourge which, of course, completely spoils them. We grow the plants in solid beds, and do not want to throw out the 10,000 plants next Summer. Would it be possible in the Summer, when the plants are resting and we find no market for the blooms, to burn sulphur in all of the six houses, which are open construction,

JAN 12 1907

without actually killing the plants themselves? We would, of course, expect to destroy the foliage temporarily;

New York. M. L.
 —It would seem that every known method for the removal of thrips has been tried in the present case; and the next thing in order would be to find out the source from which the thrips come. If there is any uncultivated land in the neighborhood it might be from it that the thrips come in the Fall, and become so numerous in the greenhouses during the Winter months that it is impossible to get rid of them all. Or it might be that they proceed from accumulations of leaves and rubbish under the benches in the houses. If everything inside and outside is properly cared for, the insects can be subdued by persistent efforts, and we would rely as much upon the Ivory soap method as any other, giving two or three syringings a week, and keeping up the treatment right along until the thrips were all exterminated. Fumigating with sulphur would kill the plants, and we would not attempt its use.

Scale on Palms.

(8) Please name the best remedy for scale on palms?
 New York. VIRIDIS.
 —To remove the scale from palms apply any of the tobacco insecticides, all of which make a suitable wash.

Hardiness of Azalea Indica.

(9) How low a temperature will Azalea indica stand without injury?
 VIRIDIS.
 —With the exception of the two varieties *Kempferi* and *amena*, the Indian azaleas are all tender greenhouse plants, and while dormant, they will stand a temperature of 40 degrees without injury. A few specimens of *Azalea indica alba* have withstood the Winters in Philadelphia and a few in Greenwood Cemetery, Brooklyn, N. Y., but under most favorable conditions in regard to their surroundings.

HEATING.

Growers' Problems Solved by U. G. Scollay.

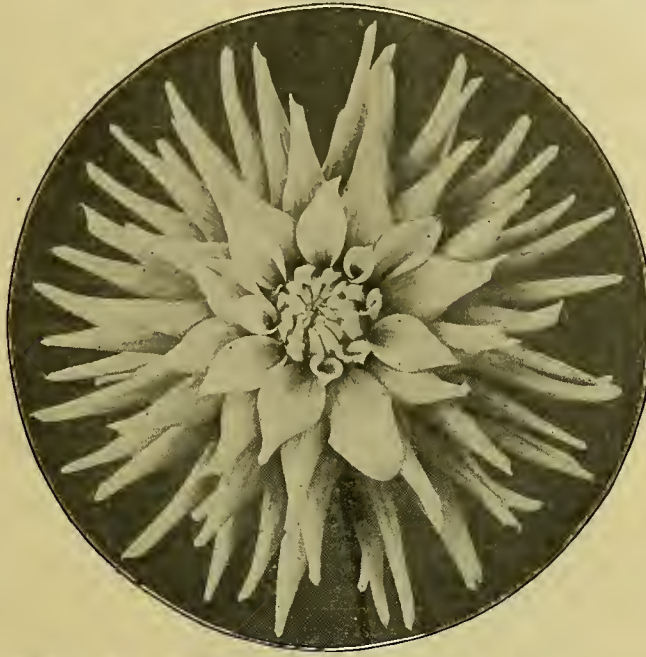
In a 100-foot house, 18 feet wide, with a 4-inch overhead flow take care of 16 1 1/4-inch returns, eight on each side wall, on the uphill system and what will be the temperature maintained at zero? The house stands alone, exposed sides, and one end. Will a 3 1/2-inch pipe be all right, instead of the 4-inch? I have a small boiler heating a house of 100 x 100 feet, with three 2-inch flows under bench piping uphill system. I want to put in the overhead system uphill using one 3-inch flow instead of the three 2-inch flows. Can I connect the three 2-inch flows from the boiler into the 3-inch flow? Is that all right—the difference between one 3-inch and three 2-inch? Will the three 2-inch feed the one 3-inch; all hot water heating?
 F. W. H.

—Provided that the house, 100 x 18 feet, has no glass on the sides, I would say that the amount of pipe as mentioned will maintain a temperature of about 65 degrees inside when the thermometer is at zero outside. You mention "uphill" system, and an overhead main—I presume you mean to allow the overhead main to rise from the boiler end to the far end of the greenhouse, that is, the highest point will be at the far end where you will put on the air vent? You must be sure and have the 16 runs of 1 1/4-inch pipe all drop with good grade to the boiler. I prefer the 4-inch to the 3 1/2-inch overhead main in your case. I would also suggest that you make the 3 1/2-inch pipes into four coils of four pipes each, placing a full opening gate valve on each coil between the overhead and the coil at the far end. Regarding the 100 x 11 foot house, I would say that surface, which I assume to be 2-inch, and connect it in the same manner to the overhead main as described for the 100 x 18 foot house. You do not state how many returns you have in the smaller house, so I cannot furnish you a lay-out in detail. If the boiler for the small house is fitted with three 2-inch flows you can arrange to have them flow into one 3-inch main. The combined area of three 2-inch pipes is greater than one 3-inch, but in your case it will not matter. Be sure in both houses to have the same area in the returns to the boiler as in the flows.
 U. G. SCOLLAY.

DREER'S SELECT DAHLIAS

Varieties Specially Suited for Cut Flowers.

Strong dormant field roots, grown at our own Nurseries where every precaution has been taken in the handling and our customers may depend on receiving stock absolutely true to name.



Winsome (Cactus). A fine white	1.50	10.00
Wm. Agnew (Decorative). Brilliant red	1.00	8.00
White Swan (Show). A good white of medium size	1.50	10.00
Waltheri (Cactus). Sulphur shading to white centre	4.00	30.00
Zephyr (Cactus). Crimson carmine	2.50	15.00
Zulu (Decorative). Deep maroon shaded black	1.00	8.00

	Per Doz	Per 100
A. D. Livalo (Quilled) Pink	\$1.00	\$8.00
Aezir. (Cactus) Warm cardinal red	1.00	8.00
Aunt Chloe. (Cactus) Rich black maroon	1.00	8.00
Admiral Dewey (Decorative). Rich french purple	1.00	8.00
Baron Schroder (Decorative). Purple with bluish shading	1.00	8.00
Catherine Dner (Decorative). The favorite Newport red	1.00	8.00
Clifford W. Bruton (Decorative). Bright yellow	1.00	8.00
Countess of Lonsdale (Cactus). Pleading Salmon	1.50	10.00
Eva (Cactus). Medium sized pure white	2.50	15.00
Earl of Pembroke (Cactus). Rich plum color	1.00	8.00
Fire-rain (Decorative). New Brilliant red	3.00	20.00
Floradora (Cactus). Blood red	2.50	16.00
Florence N. Stredwick (Cactus). A grand white	2.50	15.00
Flora (Cactus). The ideal white	4.00	30.00
Frute (Cactus). Soft rose pink, passing to cream centre	2.50	15.00
Gigantea (Giant). An immense creamy white	2.50	15.00
Gurellinde (Cactus). Finest yellow	2.50	15.00
Grand Duke Alexie (Quilled). Standard Ivory white	1.50	10.00
Hohenzollern (Cactus). Bronzy orange	1.00	8.00
Keynes White (Cactus). Free flowering white	1.00	8.00
Krischilde (Cactus). Soft pink	1.50	10.00
Lyndhurst (Decorative). Brilliant red	1.00	8.00
Lenax (Cactus). Coral red enfused sprout	4.10	30.00
Mary D. Hallock (Quilled). A useful yellow, very free	1.00	8.00
Mrs. Alfred Morean (Show). A fine large pink	1.50	10.00
Mrs. May Loumls (Show). White enfused with soft roses	1.50	10.00
Mrs. Winters (Decorative). Fine white	1.00	8.00
Mrs. Roosevelt (Giant). Pink	2.50	15.00
Nymphsea (Decorative). Light pink	1.00	8.00
Sylvia (Decorative). Soft pink	1.00	8.00
Standard Fearor (Cactus). Rich fiery scarlet	1.00	8.00
Strahlen Krone (Cactus). Intense cardinal red	1.00	8.00
Thuringia (Cactus). Very large fiery red	4.00	30.00
Uncle Tom (Cactus). Deep maroon	2.50	15.00
Victor von Scheffel (Cactus). Beautiful soft pink	2.50	15.00
Volker (Cactus). A grand yellow	1.50	10.00

SINGLE CENTURY DAHLIAS

Good divided roots—field grown stock.

Crimson Century. Rich velvety crimson	2.00	15.00
Scarlet Century. Brilliant rich scarlet	3.50	25.00
White Century. Large pure white	4.00	30.00
Twentieth Century. The standard single	1.50	10.00

For full descriptions of the above as well as for a complete list of all the good varieties of Dahlias, new as well as standard sorts, see our current **Quarterly Wholesale List** just issued, which also contains offers of all reasonable Plants, Bulbs and Seeds.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA

New York.

News of the Week.

The first meeting of the year of the New York Florists' Club will be held on Monday evening, January 14, in the club's rooms, corner of Twenty-third street and Eighth avenue. At this meeting the newly elected officers will be installed, always a most interesting event, and much other important business will come before the members, so that a large attendance is assured.

George Fallon, a Greek florist, well and favorably known to the trade, who kept a flower shop at Eighty-second street and Columbus avenue, and who boarded with Mr. and Mrs. Weidman, one block away, became infatuated with Mrs. Weidman, and on Monday last, because she resented his attentions, shot her in the head and slashed her with a razor, from which injuries she died. In the meantime Mrs. Weidman had pulled a revolver and shot Fallon through the head, and he is now in the Bellevue hospital, not likely to recover.

G. F. Ditzenberger, formerly in business as a florist in Bay Ridge, Brooklyn, has formed a partnership with his brother-in-law, R. Siedler, of Woodcliff, N. J., where they have built two greenhouses, each 125 by 26 feet, for the cultivation of carnations. Their firm name is the Woodcliff Floral Company.

Julius Kretschmar suffered a slight paralytic attack a few days before Christmas, but is recovering nicely now. Mr. Kretschmar had a similar attack several years ago from which he fully recovered.

The Horticultural Society of New York held its fourth regular meeting of the season in the rooms of the American Institute, 19-21 West Forty-fourth street, on Wednesday, January 9, when Dr. H. H. Rusby gave an il-

lustrated lecture on "The Wild Grains and Nuts of the United States."

The Tarrytown Horticultural Society held its annual dinner on Wednesday evening, January 9; and the Morris County Gardeners and Florists' Society held its annual smoker the same evening.

St. Louis.

News Notes.

L. Bauman, of L. Banman & Co., Chicago, is in town this week with a line of florists' supplies.

Frank M. Ellis is in town, but says that by the end of next week he will leave for his future home in Panama, where he is interested in a large banana plantation. Smith & Co., who are his successors, are doing quite well, and are receiving some nice shipments from new consignors, as well as all the old ones.

The St. Louis Horticultural Society will hold its next meeting on the night of January 21. The place of meeting has as yet not been announced. Some prominent speakers will address the gathering.

James North & Company, will this week open their new retail store at Vandeventer and Finney avenues. This firm has had an office down town where they did a shipping business in funeral work for out-of-town orders.

C. A. Kuehn has had an unusual amount of extra fine stock of late in roses and carnations, which are cleaning up fairly well each day.

Henry Berning is receiving nearly every day some 40,000 California violets of fine quality. His growers are among the best in Kirkwood, where most of our violets come from.

At Augermuller's some extra fine quality stock of all kinds is being received, especially in American Beauty roses.

Wm. Adles is reported as being in Chicago.

The St. Louis Florists' Club will hold its next meeting this week Thursday in the new meeting hall, 310 Olive street, at which a large attendance is expected.

Frank A. Weber, of the firm of H. J. Weber & Sons, left last week for an extended Eastern trip in the interest of his nursery business.

ST. PATRICK.

Cleveland, O.

The marriage of Mr. Gilbert L. Shutt, late of the Park Board of Minneapolis, Minn., to Miss Helen T. Updegraff, daughter of the late Judge Robert D. Updegraff and granddaughter of the late Congressman J. T. Updegraff, was solemnized at the family residence 6314 Franklin ave., December 23, 1906.

The bride is well known in Cleveland circles and is one of the most popular young women of the West Side. The young couple left amidst many congratulations and good wishes for their future home, corner Hamline and Hoyt avenues, St. Paul, Minn.

Mr. Shutt is a hard-working, enthusiastic and progressive horticulturist, having spent his whole life at his chosen profession. He for a number of years was employed by some of the leading firms in the country, such as the Wm. H. Moon Company, the Storrs & Harrison Company, J. C. Vaughan, Robert Simpson, the Park Floral Co., Denver, etc. He was employed on the Westinghouse and Jones estates, Pittsburg, Pa., for some time and later as superintendent of "Ben Macdunn," one of the best equipped and most beautiful rural estates in Michigan. He has resigned his position with the Park Board to associate himself with the Hoyt Plant & Seed Company of St. Paul, where he will take charge of the fast growing work of their landscape engineering and nursery department.

FOUNDED IN 1888



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Seedsman and the Trade in General

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

American Breeders' Association.

The meeting of this organization will be held at Columbus, O., January 15, 16, 17, and 18, 1907. The association will be the guest of the Ohio State Board of Agriculture and of the College of Agriculture of the Ohio State University, and will meet in conjunction with the various agricultural organizations of the State. The Association headquarters will be the Great Southern Hotel, corner Main and High streets; rates—European plan, \$1 per day and up; American plan, \$2 per day and up.

A most interesting and comprehensive program has been prepared. Chas. Willis Ward, Queens, N. Y., will preside over the plant section on Tuesday and Wednesday morning, and the following papers of interest to our readers will be presented: "Carnation Breeding," by Fred Dörner, Lafayette, Ind.; "A Plant Breeder's Trip to Eurasia," by Professor Hansen; "Teaching the Subject of Breeding," by Professor L. H. Bailey; "Problems in Breeding," by Dr. H. J. Webber; "Gladioli Results," by H. H. Groff; "Disseminating New Varieties of Plants," by C. W. Ward; "Important Plant Development Problems," by Dr. A. F. Woods; "Hereditry," by Dr. A. G. Graham; "Securing Accurate Descriptions of Varieties," by Professor L. C. Corbett, and G. M. Tracy.

Burbankiana.

A correspondent sends us the following clipping from the New York Telegram, and adds, "ask our friend Pat if that's true?"

"Notice that Mr. Patrick O'Mara, who combats many of the claims of 'Wizard' Burbank, is lecturing before the Horticultural Society of New York. This thing wouldn't have happened if Mr. Burbank had told his right name, which is Luther O'Burbank."

Also the following from the New York Herald, with the remark, "I would like to know what John Blinrie has to say about it."

"He has given us 'seedless' apples and pears, but think of the good that the California wizard Burbank would do if he found a way to distil 'harmless' whiskey."

FULL REPORT OF The American Carnation Society Meeting and Exhibition

WILL APPEAR

in our issue of

JANUARY 26, 1907.

'Tis an opportunity for Advertisers of Carnation Stock not to be missed. Send in your copy early.

Improved Plan of Free Seed Distribution.

Reform in the plan and character of the distribution of free seeds by the United States Government, finds no more ardent advocate than Professor B. T. Galloway, Chief of the Bureau of Plant Industry, Department of Agriculture. Ever since the governmental distribution of free seeds has been placed under his supervision, Dr. Galloway has endeavored, so long as Congress compels the carrying out of this farce, to so order things that the seeds sent out from Washington shall prove of the greatest utility—should they possess any such—to agriculturists and citizens throughout the country, who desire to be recipients of the governmental "pap," and so condone, if not encourage its eleemosynary paternalism, by sending seeds adapted to particular localities, thus doing away with the miscellaneous and indiscriminate scattering of seeds heretofore in vogue. Professor Galloway, however, has always been convinced of the comparative uselessness of the distribution of common varieties of garden and field seeds by our lawgivers; and has for years, with commendable pride in the dignity and helpfulness of his department, has been endeavoring to devise ways and means whereby the appropriation for free seeds, etc., may be diverted into much more useful channels than at present obtains. The opportunity recently came to him, when he appeared before the Agricultural Committee of the House, to present some of the projects he has in contemplation and otherwise carried to a culmination, in the furtherance and promotion of his proposed plan of reform. The plan as outlined by Dr. Galloway before the committee in question, which has received the sanction of Secretary of Agriculture Wilson, proposes:

First: The abandonment of the miscellaneous distribution of ordinary seeds.

Second: The securing, through all the sources at the command of the Department, of valuable new seeds, plants, bulbs, etc., which are being developed at home and which are known only locally; the distribution and testing of these new things in regions where it is believed they may have value.

Third: The securing from abroad of new seeds, plants, etc., for introduction into this country, and the upbuilding of agricultural industries as a result of this work.

In order to crystallize the suggestions made in the foregoing, Dr. Galloway submitted the subjoined outline of a substitute for the existing authority for the purchase and distribution of seeds.

"For the purchase, propagation and testing of new, rare and uncommon seeds, bulbs, trees, shrubs, vines, cuttings and plants foreign and domestic; for the rent of buildings (not to exceed \$3,000); the employment of agricultural explorers, local and special agents, clerks, assistants, and all other necessary labor required in the city of Washington and elsewhere; the purchase of necessary office fixtures and supplies, paper, twine, gum, printing, postal cards, fuel, gas and electric current, transportation, traveling expenses and all necessary material for securing, testing, propagating, packing and distributing the seeds, bulbs, trees, etc., above specified—two hundred and forty-two thousand dollars. And the Secretary of Agriculture is hereby directed to spend the said sum, as nearly as practicable, for the encouragement and advancement of agriculture and horticulture throughout the United States, through the systematic introduction of new, rare, or uncommon seeds, bulbs, trees, vines, cuttings, etc., in the establishment of new or the improvement of existing plant industries; in collating, digesting, reporting and illustrating the results obtained through the testing and distribution of new and rare seeds, bulbs, and plants herein provided for, and the Secretary of Agriculture is further directed to purchase such new and rare seeds, bulbs, plants, vines, and cuttings in such manner as he may deem expedient, obtaining, so far as practicable, the advice and co-operation of Senators, Representatives, and Delegates in Congress; providing that such seeds, bulbs, and plants shall be distributed to actual experimenters only for experimental tests and that the Secretary of Agriculture shall cause a record to be kept of all persons to whom seeds, bulbs, or plants are sent, in order that reports on the results of the experiments may be secured in as many instances as possible, and provided further that the Secretary shall, so far as practicable, co-operate with the State experiment stations and practical farmers, fruit growers and others, in order that the seeds, bulbs, and plants may be distributed with due regard to their adaptability to the various soil and climatic conditions prevailing in the United States. The Secretary of Agriculture is hereby also directed to prepare annually a report showing what the results of the distribution have been."

In giving his testimony Dr. Galloway said:

"In explanation of the foregoing I may say that the Department has been doing this kind of work for a number of years, as is well understood by the Members of this Committee. The amount annually appropriated for foreign exploration work has been increased from \$20,000 to \$37,780. In addition to this we have expended about \$63,000 annually in

the purely demonstration work and the upbuilding of new industries. In order that this work might be systematically carried on, we have, as has been done with all the other work of the Bureau, divided the lines of investigation into various projects, each of which is specific and each of which shows on its face, I think, the value that would result to the country by carrying it out.

"We have now developed and elaborated about 75 distinct projects, with the machinery and men for carrying them on. To conduct all this work would require more funds than the total appropriation here asked for, but in view of the fact that the projects are arranged as projects, we could bring them within the scope of the present appropriation, although we believe that additional funds could be used to good advantage.

"Now the question will naturally be asked, In what manner would these different lines of work be conducted, and in what way would they benefit the districts where the seeds and plants might be sent? Some of this work would be done through individuals secured directly by the Department, and a considerable portion would be done through individuals secured as a result of the advice and co-operation of the Senators and Members who know the individual needs of their constituents and districts. I may cite our present tobacco work as an example of the manner in which all of these lines of investigation would be carried on, with such modifications as the exigencies of each case might require. Under the old plan of a few years ago it was customary for the Department to go to the trade and simply purchase a certain number of pounds of the different varieties of tobacco seed offered by tobacco seed growers. No special effort was made by these growers in the matter of developing types. In fact the Department secured just the ordinary everyday seed used by the majority of small growers. Three or four years ago the Department entered upon a critical investigation of tobacco types with a view to the breeding and selection of those which would be better adapted to existing conditions in the different sections. This work has been in charge of one of our ablest young men and has been quite successful in a number of sections. High grade types of tobacco have been developed by breeding and selection, which make it possible for practical growers to realize much more from their crops than they have ever done before. It is this carefully and scientifically selected seed which the Department is now sending out to the different tobacco growing sections which have, up to this time, been studied. Instead, however, of assigning each Member in the tobacco districts a certain number of packages, at the end of the season and with a knowledge of how valuable types we have and what the types are, we have asked the Members who have constituents capable of taking hold of this matter to furnish us with a certain number of names of reliable parties with whom we could get into correspondence. We take up the matter with them in a careful way, go over the ground, confer with them relative to their soil conditions, and supply them with sufficient seed to make a demonstration and comparison with the seed that they are already using. This correspondence is always conducted in such a way as to shift to the Department the responsibility of not being able to supply seed to everyone.

"This, in brief, would be our general plan in handling all of these projects. In the matter of work on dry land, alfalfa, for example, it is our desire to introduce these alfalfas into the drier sections of the United States, namely, the Panhandle of Texas, western Kansas, eastern Colorado, western Nebraska, eastern Wyoming, and western South Dakota.

"We could secure the names of a sufficient number of reliable men in these districts to enable us to start the work and if it were successful, the Member through whose instrumentality the work was inaugurated would, of course, get the credit therefor. By the plan here proposed, Senators and Members would be relieved of all the necessity of distributing each year a certain specific number of packages. They would be relieved of any criticism that might be made on the ground that because Mr. A. secured this thing, Mr. B. ought to have a supply also. They would, instead, be equally instrumental with the Department in introducing new and valuable industries in their respective districts and the upbuilding of agriculture therein."

From the printed report of the hearing before the House Committee, a copy of which is now before us, it would seem that the majority of the members thereof were in hearty accord with Dr. Galloway's plan. One or two of the more hidebound legislators desired to see the old method of distribution continued, although also favoring the new. It is to be hoped that when the subject is presented to the House it shall have the full endorsement of the Agricultural Committee, receive unanimous or a big majority approval there, so that a practice, which has been proven by evidence is breeding a horde of mendicants throughout the country, may be abolished, and a useful, valuable, helpful, and commendable custom substituted therefor.

OUR READERS' VIEWS

Sports.

Editor Florists' Exchange:

Referring to the contribution on "Sports," prepared by my friend, Patrick O'Mara. I have read this article with much interest, and heartily agree with him in his conclusions that we know very little of the true cause of ordinary variations, much less extreme variations, which we call "sports" or bud varieties. In speaking in a general way of the phenomena of variation and sporting, people are very apt to say that certain environments, including the food supply, are the cause of variation or of sporting. I think it would be better if in discussing these questions we were to say that, instead of causing the variations, these environments allowed the variations to occur. In other words, every plant has a certain potential which cannot be seen or pre-determined, but when the plant is brought under a certain environment, different perhaps from the environment in which it previously existed, this becomes manifest in decided variations or in sporting, using the word sport in the same sense as a variation or bud variety. If, instead of saying that we can induce these changes, we were to say that we can provide conditions which, if the plants contain these latent tendencies, will give it opportunity to manifest them, we would be coming much nearer the truth than the present and common way of expressing these phenomena.

I think that Mr. O'Mara's ideas are not at all in conflict with those held by all plant breeders and horticulturists in general, that the basis for variation in any particular direction must reside in the plant itself, and that it is impossible to foretell with any degree of certainty what direction these lines of variations will take, and it is also impossible for him to provide conditions which will cause the plant, or induce the plant to manifest these latent tendencies. He may produce the extreme conditions, and if the plant feels the result of them to a sufficient degree and also carries the latent tendency of variation, then it is possible for the variation to occur, otherwise not.

With hybrids, however, the case is somewhat different, and I suppose that we might argue that all of our plants, since they are of mongrel origin, are hybrids in one sense of the word, and that all the variations might be accounted for by the Mendelian theory. Since the Mendelian theory has been expounded many cross-bred and hybrid plants have been developed, which have tendencies that conform pretty definitely to mathematical rules, and this theory has placed the work of plant breeding, particularly with hybrids, upon a very much more satisfactory basis than it was previously. Because hybrids do not always show an intermediate condition in the first generation from seed they were frequently discarded as of no value. The Mendelian idea is that the breaking up does not occur in the first generation, but takes place in the second generation, and that it takes place in definite proportions. This has proven to be the case in many instances; in fact in a great majority of instances, and it is now deemed best to select from the second generation the particular tendency which most nearly conforms to the ideal sought and in that way start toward the final goal. The breeding work which has been done since the Mendelian theory was expounded some five years ago, has brought much more satisfactory results than that which was attempted prior to that date, simply because breeders have learned that the second generation can be counted upon to give variations which do not occur in the first.

The more discussion we can have upon such subjects, bringing out apparent contradictions and misinterpretations, the more healthful and helpful will be the future observations. I commend Mr. O'Mara's article to everyone interested in this subject, as it contains most interesting and valuable historical data.

L. C. CORBETT,

Horticulturist, Bureau of Plant Industry.

Dept. of Agr., Washington, D. C.

The Hill Company Explains.

Editor Florists' Exchange:

The cataloguing of Double Dryden in our list last Spring grew out of a careless oversight on the part of the catalogue maker. In a lot of our own seedlings, from which were selected Richmond Beauty, Alice of Vincennes, Gen. L. Wood, etc., we had several slightly double forms of the English round-flowered and fancied, which were labeled Double Crabbe, Double Dryden, Double Chancer, etc., for descriptive purposes; most of them proved very slow growers and were not disseminated. In 1902 a stock plant of Mr. Eichholz's Double Dryden was bought for comparison, and later lost sight of. Last Winter our grower, noting plants labeled Double Dryden, referred to our seedling book, found description and handed it in with the novelty list. The facts were discovered very early in the year, and the variety was dropped into the standard list.

The incident shows an oversight, but, we think, is no argument against the registry system.

Richmond, Ind.

THE E. G. HILL CO.

Reflections on Current Topics.

Mr. EDITOR.—I see by the trade papers that more Scotsmen have been receiving horticultural honors in America; one new director of the S. A. F. being a native of "The land of brown heath;" the other, though born in Brooklyn, N. Y., was reared in Scotland, and, on account of that fact and of his many excellent qualities, will be claimed by the Scotch, anyway. (No bagpipe introduction, I hope.)

In speaking of Sam Murray's good traits one of your contemporaries says: "his characteristic modesty is such that his name seldom has appeared in the reports of the discussions; he ever has been more ready to listen to the opinions of others than to voice his own." That is a most excellent qualification, and seems to be one possessed by the majority of the recent appointees to the S. A. F. directorate. They are silent men, but that is no indication that they don't think and work. You will notice that those who have most to say in the reports are, generally, the fellows who aspire to the presidency, or, having got there, continue to orate ever afterwards through force of habit.

One of your other contemporaries makes much of the re-election of a director. He, too, from the reports, is a man of few words. The inference from all this is, the less you say the more valuable you are, and the more you're thought of. There is no reason or wonder, though, why a good man should not receive a re-appointment on the executive board, any more than a good president is worthy of re-election. The S. A. F. wants and needs the best—always—and, as a rule, gets it.

* * *

That essay on credit by Mr. Skidelsky is a hum-



General S. M. Weld
President Mass. Hort. Society

ner, and Philadelphia seems to me to have been a good place for its promulgation. The essayist reverses the order of things by first flattering the trade, telling them what noble examples of self-sacrifice they all are, or were, then going for them, in a general way, about their lax business methods, and how slow they are in paying their bills, etc. The usual plan is like that adopted by the Quaker, who after rolling his antagonist in the mud handed him a brush to clean his clothes, considering the latter act a Christian duty. However, we are glad to have our defects so clearly pointed out by Mr. Skidelsky. He talks like one who speaks from experience, and every word he utters has the ring of genuine sincerity. The greatest drawback about credit, I think, is a too indiscriminate and careless granting of the privilege; in other words, it is too easily obtained. And when that is the case, it is valued and, of course, abused, accordingly. The conducting of a business on other people's money is, in my opinion, not at all creditable to the conductor; and something that every self-respecting merchant will steer clear of as far as he can. There is a good deal in the saying, "pay your debts and be respected." How much we all admire the type of man portrayed by Longfellow in the Village Blacksmith: "He looks the whole world in the face, for he owes not any man." The "payment shlrker," as you term him, generally, when a creditor is around, looks for a convenient back-door.

* * *

A Chicago contemporary commends the "reader" form of advertisement recently adopted by a Baltimore craftsman, and quotes the effort. It is a bit of fine writing; but I am somewhat of Henry Ward Beecher's view, who says: "There is nothing more detestable than fine writing. It is painted emptiness." Besides the commercialism shown in the

climax of the "reader" referred to spoils the whole thing and is sure to heighten resentment rather than custom. For advertising purposes there is nothing like saying what you have to say in as few words as possible. It costs less, and, to my mind, shows greater business acumen than a long rigmarole of platitudes and empty nothings.

The bosom of the Boston paper editor I notice continues to "swell with the praise which he hears from his own tongue," as Dr. Johnson puts it. But then the Boston man may believe more in the statement of Erasmus, who asserts: "It is right that he whom no one else will commend should bestow commendations on himself" or—ask for them from others. Our friend in the Huh, if he continues to tell what a "rara avis" in horticulture is appearing under his management will actually begin to believe the statement himself. However, it may be that after the "boastin'" journal has passed the Jumping-Jack stage of its career, the editor may come to regard his present Jack Hornerisms as worthy of being placed in the "gush" category, alongside the watery whimperings of Birnie, and the effusions of

JOB.

Massachusetts Horticultural Society.

At the meeting held on Saturday, January 5, the newly-elected president, General Stephen M. Weld, delivered his inaugural address. After complimenting the organization on the excellent work it had accomplished, General Weld made a few suggestions, the carrying out of which would tend to broaden the work and increase the usefulness of the society. He praised the school garden work inaugurated about fifteen years ago; and thought much good could be done by aiding the State in the control and possible extermination of the gypsy and brown-tail moths, as well as of various other pests which attack fruits, vegetables and flowers. Speaking of the finances of the society President Weld said: "For the year ending December 31, 1906, the income was \$21,710.71 and the expenses were \$24,112.73. For the year 1905 the income was \$17,811.37, the expenses were \$20,588.27. For the last 4 years the average expenses were \$22,042.32, and the average income was \$19,372.05. No business concern, whether incorporated or not, can be run successfully with such figures as these. We must cut down our expenses to our income, or increase our income." As tending toward the latter end the speaker recommended the increased use of the hall for the purposes of fairs and lectures, urging the improvement of the acoustic properties of the lecture room. He dwelt upon the need of adding to the membership, and the securing of as many bequests as possible from friends of horticulture. In the latter connection he announced two legacies recently bequeathed to the organization, one of \$3000; this sum to be held in trust and the income therefrom expended in prizes for the best specimens of such fruit or vegetables as may be selected by the trustees, the trust to be known as the "Benjamin V. French Fund;" another of \$5000, this sum to be held in trust and the income therefrom distributed in prizes for such specimens of flora as the trustees may select, this trust to be known as the "John Allen French Fund."

The president suggested as a means of decreasing expenses, a reduction both of the number and the amount of the society's cash prizes, and the giving of certificates of merit, or medals, which would not be so expensive. This was in line with the work of the most successful horticultural societies abroad. He closed his interesting address with a complimentary reference to the excellence and usefulness of the society's library.

After the meeting some of the members discussed among themselves the various recommendations made in the address; considerable differences of opinion were developed, especially in regard to the limiting of the number of cash prizes, which have already become less liberal than they were a few years ago.

Plant breeding has been in use but about 200 years, though it was discovered in 1691. The first notable example was Fairbank's carnation, or "Fairbank's sweet william," as it was then called. The important work in plant breeding began in the latter half of the last century.

CARNATION MEN

Should take advantage of
The Opportunity Afforded

for advertising their Stock in our issue of

JANUARY 26, 1907,

which will contain a full account of The American Carnation Society's Doings at Toronto, Ont. The Florists' Exchange Report is always looked for, and held for future reference. Send your ads. in EARLY.

AMONG THE GROWERS

Mount Clemens, Mich.

August von Boeselager, although he is far away from his fellow tradesmen, has not lost any of the growing genius for which his name has become familiar to Detroit retailers. He grows good carnations, of which Mrs. Lawson, Enchantress, Lady Bountiful, Wm. Scott, G. H. Crane and Harlowarden are his mainstays. When chrysanthemums are gone, lettuce and Winter radish offer desirable substitutes. Here also one may find good California single violets and a few fair double ones. Every inch of space is used. Sweet peas are grown to the best advantage around the supports for the roof. A bed of thrifty callas speaks for itself.

Anthony Ottes devotes his glass to vegetables after cutting a crop of chrysanthemums, and discontinues it when he gets his bedding stock sufficiently advanced to demand the space. His soil is well adapted to the growing of vegetables, being very sandy. So well do they grow that three crops of lettuce and radish are grown along with one crop of cucumbers and tomatoes.

James Taylor grows carnations principally, and grows them well. Mr. Taylor is very much interested in the forced circulation of hot water under the Holley Castle system. HARRY.

John E. Haines, Bethlehem, Pa.

A very interesting collection of carnations was seen at this place. Mr. Haines, who began this business 12 years ago, he tells us, has all his life-time been a great lover of flowers. He has taken a great fancy to raising seedlings and has a very fine collection. Twelve years ago he put up a small greenhouse to raise lettuce, radishes, etc., more as a pastime than for profit. In a few years he began experimenting on carnations, etc., and finally devoted all his time to raising new varieties of the flower, finding the work so interesting and having fine success in that line.

The variety John E. Haines is looking grand, full of buds from one end of the house to the other. Wm. Mangan, the foreman, tells us the plants look that way from the time they begin to bloom until thrown out in July. He says they make three blooms to any other red he has yet seen. In color, it certainly is a very fine scarlet. Though it was disseminated in 1906, orders are coming in nicely this year.

The benches of Imperial and Pink Imperial show that these varieties are very vigorous growers. The stems rise high above anything else grown in his houses. The colors are takers in his vicinity as well as in New York, at A. J. Guttman's store, where they found ready sale at the Christmas holidays. Mr. Haines was not able to supply one-third of the demand. Each year he uses more plants for flowering purposes and each year the demand is greater.

Among his coming varieties is a fine Daybreak pink, a shade deeper than Enchantress, somewhat like the La France rose shade, beautifully formed, fine calyx. A flower now in bloom measures 3 3/4 inches. It has long, stiff stems and is a very thrifty grower. He has also a pink which he has marked No. 6. Mr. Haines tells us that it is the greatest producer of flowers he has ever grown or heard of,

beginning very early and continuously flowering the whole year round, being good for field-blooming as well as indoors. The Star of Bethlehem, is of a pleasing shade of yellow, a very free bloomer and has a good stem.

There are other very promising pink, white, red and variegated seedlings coming on.

On the place can be seen growing Enchantress,



John E. Haines,
Carnation Specialist

My Maryland, White Perfection, Pocahontas and Jessica.

Wm. J. Mangan, a good all around man, has charge of the growing part, and is proving to be very efficient. The houses never looked better. He has worked among flowers nearly all of his lifetime, starting at the age of ten. The last six years previous to entering the employ of Mr. Haines, he was in the employ of John Wanamaker, Esq., of Philadelphia. He certainly is a careful man in the management of the carnation, as well as in the rooting of cuttings, the propagating bed being filled with fine, healthy stock.

Mr. Haines is also assisted by his daughter, Mrs. Geo. Haines Weber, who takes great interest in the business and aids her father by keeping the books and attending to the correspondence.

In the Summer of 1906, there were erected on the place three greenhouses. They are filled with his three new varieties, John E. Haines which was disseminated in 1906, Imperial and Pink Imperial. Their productiveness and vigorous growth can well be seen in the photos, which were taken on December 28, 1904, after Christmas, when blooms were closely cut, to supply the great demand. J.

Strength of Packing Boxes of Various Woods.

The Forest Service of the United States Department of Agriculture has been making some investigations into this subject, the results of which are set forth in a recent circular (47) from which we take the following particulars, which should be of much interest to shippers of plants.

Purpose of Tests.

The increasing demand for boxes, combined with the decreasing supply of lumber suitable for their manufacture, has practically revolutionized the methods of box making. Many kinds and sizes of boxes are demanded by the different trades, and the long-continued use of certain woods has often convinced the customer that these are the only ones which can be used for the purpose. But with the increasing scarcity of familiar material the manufacturer is being forced to adopt new woods, and it was with the purpose of determining the merits of different kinds of wood as box material that the tests here described were undertaken.

Woods Tested.

The woods tested were Michigan white pine, New England white pine, loblolly pine, western spruce, western hemlock, cottonwood, and red gum.

Construction of Boxes.

The lumber for the boxes used in the tests was of average box quality, and contained only sound, live knots. Most of it was kiln-dried, and at the time of test contained about 14 per cent. of moisture. It was of the same width and thickness for all boxes of the same size and style, and when more than one piece was used in any side or end it was tongued and grooved. While it is now known that sap stains do not affect the strength of wood, yet it was required that the lumber furnished should be free from them.

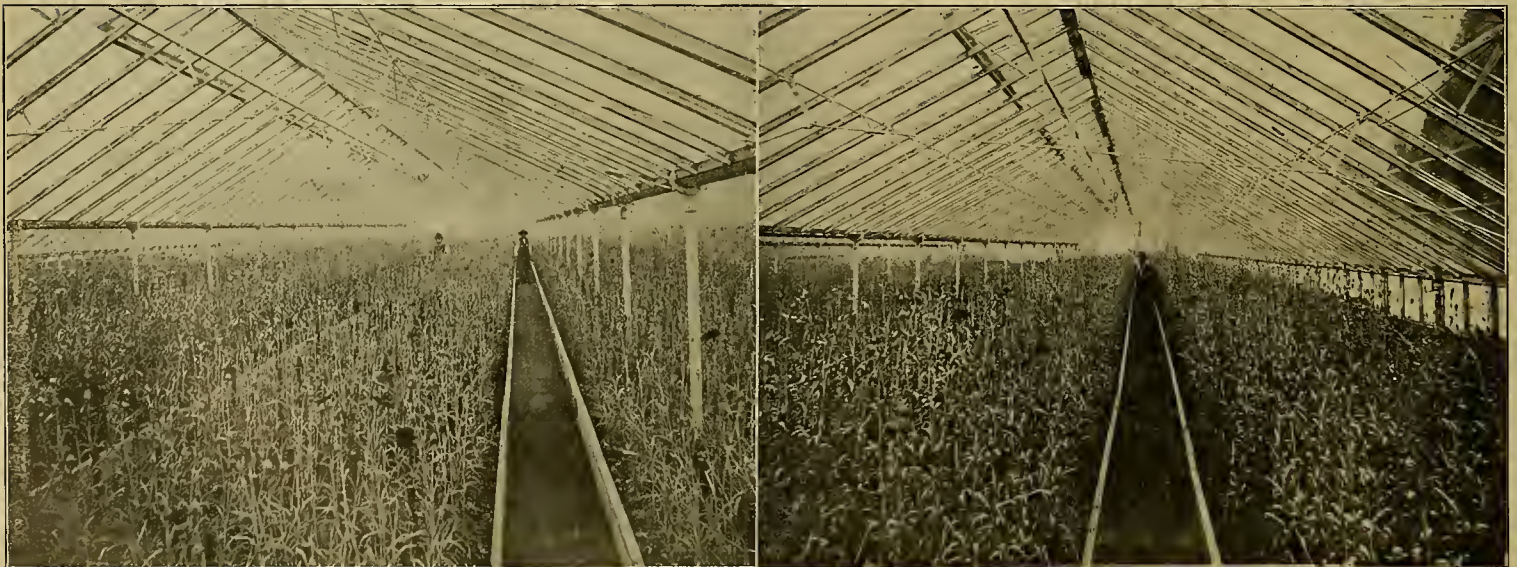
The nails were cement-coated wire box nails. No steel bands or other strengthening elements were used.

The shooks were made up into boxes at a factory in Louisville, Ky., under the inspection of a member of the Forest Service. From the factory the boxes were shipped to the testing laboratory at Purdue University, Lafayette, Ind.

Three sizes of boxes were made, designated as small, medium, and large. The small boxes were identical with those commonly used for small articles up to 100 pounds. The medium boxes corresponded to those used for hardware, soap, or canned goods up to 250 pounds. The large boxes were like those used for dry goods up to 600 pounds. Four boxes of each size were made of each kind of wood.

The styles of the boxes numbered 1, 2, 3, and 4 were as follows: No. 1, plain without battens; No. 2, four square battens on each end; No. 3, four bevel battens on each end; No. 4, two battens on each end.

Three or five nails to each piece were used on the ends, as specified. When a box was made with a batten, every third nail was driven into the batten. Along the sides three nails were used in 18-inch lengths, four nails in 30-inch lengths, and five nails in 40-inch lengths. The nails in the battens were staggered and clinched with 5-inch spacing.



Benches contain Imperial, Pink Imperial and John E. Haines' INTERIOR VIEWS OF CARNATION HOUSES OF JOHN E. HAINES, BETHLEHEM, PA.

Results of Tests.

New England white pine is the standard by which the others are judged. It shows that of the weeds tested cottonwood was the strongest for medium and large boxes, and red gum for boxes of small size. For all sizes cottonwood and red gum occupied the first two positions in regard to strength. The weakest wood differed for each kind of box. For the large size it was western spruce, for the medium size Michigan white pine, and for the small size North Carolina pine. Red gum was the heaviest wood in all cases, although yellow pine and North Carolina pine closely approached it in this respect.

The factors of weight and strength for a given wood vary with the different boxes. When goods are shipped at high freight rates this factor of combined weight and strength is important. The strength per unit of weight of New England white pine boxes is the standard by which the strength of the others is judged, and is therefore taken as 100 per cent. Here, of the weeds tested cottonwood appears the strongest. Another fact brought out is that while for small boxes four species—namely, cottonwood, red gum, western spruce, and western hemlock—show a greater strength per unit of weight than does white pine, yet for boxes of large size the strength of white pine per unit weight is exceeded only by that of cottonwood. It is true that neither western hemlock nor Michigan white pine were tested for large boxes, yet their relative positions in the tests for the other two sizes plainly indicate that their strength per unit of weight decreases more than that of New England white pine with the increase in the size of the box.

Slight differences of seasoning of the wood enter into these results to modify somewhat the conclusions. The strength of the large boxes is largely the strength of the joints, and depends on the holding force of the nails and the size and character of the battens.

In addition to this series of tests to indicate the relative value of the woods used in furnishing strength to a box, other matters were suggested by manufacturers for investigation.

The relative strength of square and bevel battens in the case of large boxes was tested. Two large boxes of each of seven species of wood were furnished with level battens and tested as described. There was no advantage in beveling the battens, since the square battens made a somewhat stronger box.

The possibility of saving lumber by substituting thin end boards for end boards of standard thickness was investigated. The standard sizes cannot be reduced without reducing the strength of the box.

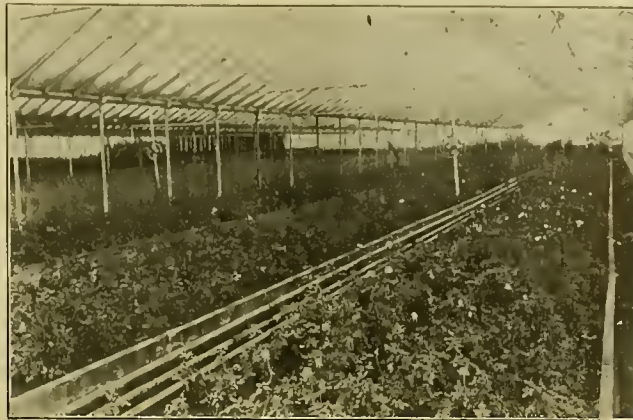
In the case of small boxes of New England pine, the strength of lock-cornered boxes exceeded that of the dovetailed boxes and the latter that of the nailed boxes.

In addition to the tests of boxes under a load applied along the diagonal, other boxes were tested under a load applied along the entire length of the edge of the box, and these tests confirm the results of the tests described above.

In all, 171 boxes were made up and tested. A further conclusion to be drawn from the tests is that the majority of nails at the end of the side, top, and bottom boards should be driven into the end boards rather than into the battens. For example, if five nails are to be used at the end of the side board, three should be driven into the side boards and two into the battens. This would prevent the common failure due to the nails in the side boards pushing out a section of the weed.

American Carnation Society.

President Dunlop has authorized me to announce through the trade papers that exhibits for the show to be held in Toronto, Ont., January 23 and 24, will



Interior of Walter Ramsay's Greenhouse

have to be staged by 2 p. m., January 23 instead of 1 p. m., as announced in the premium list. This addition of one hour to the time for staging was thought advisable on account of the fact that some of the trains do not get into Toronto until 10:30, and if they should be a bit late, it would not give exhibitors time to get their flowers staged by 1 p. m.

Kindly remember that entries are to reach the secretary not later than Wednesday, January 16. Entries made at the show cost \$1 for each entry, and if they do not reach here by the 16th, there is danger of their coming in after I have left for Toronto. ALBERT M. HERR, Secretary. Lancaster, Pa.

DR. WEBBER GOES TO CORNELL.—Professor Herbert J. Webber of the Bureau of Plant Industry has resigned from the Government service to accept a professorship at Cornell University. He has been in charge of the plant breeding experiments of the Agricultural Department. He entered the Government service in 1892. Dr. Webber has produced new varieties of long staple upland cotton, which is regarded as a valuable contribution to scientific agriculture. He has also developed a hardy orange capable of withstanding a severe frost. When this result was obtained, however, instead of being a hardy orange it was found to be a composite fruit, with the combined characteristics of the orange, the lemon and the tangerine. Dr. Webber will not take up his duties at Cornell until next Spring, when he will take charge of a new department of the university to be known as the department of experimental plant biology.

THE WORCESTER (MASS.) HORTICULTURAL SOCIETY has issued its programme of meetings for discussion during the Winter season of 1907, which, as usual is an interesting one.

America's Most Northerly Greenhouse Plant.

The Walter Ramsay greenhouses at Edmonton, Northern Alberta, have the distinction of being the most northerly range of glass on the American continent. Their location is about 375 miles north of the state of Montana international boundary line, about 900 miles farther north than New York, and nearly 3000 miles distant from that city by rail.

Being greatly sheltered by the Rocky Mountains the Winters are not nearly as severe as might be expected; and although the thermometer shows very low readings occasionally the intense calmness and dryness of the atmosphere makes the cold quite bearable.

The city of Edmonton, known extensively at present as the Gateway to the "Last West," has only reached the dignity of a city the past three years, formerly being only a Hudson Bay Company trading post. It has at present a population of about 15,000, which is rapidly growing.

The greenhouses of Mr. Ramsay, five in number, each 150 x 21 ft. 9 in., are the latest pattern King Construction, built ridge and furrow and give every satisfaction. The heating is done by a No. 490 Florence low pressure steam boiler which works satisfactorily. During the almost continuous sunlight of Midsummer growth of all kinds is very rapid, but at the present time the very short days are not conducive to rampant growth. This is especially noticeable of lettuce and tomatoes.

The present Christmas being practically the first that residents have been able to get modern and fresh flowers, brought out a very satisfactory trade. Of course the supply of cut flowers was unequal to the demand, but good flowering plants made up the deficiency. FRED. BENNETT.

Hedges of Ligustrum Japonicum.

The wish that the California privet was entirely evergreen is so often expressed that it is certain there would be a good demand for a species, that is, Ligustrum japonicum, were it better known. Having in mind the latitude of Philadelphia, the California privet is evergreen only in well sheltered places, where free from the severest cold and from cutting winds. In the same locality, L. japonicum is evergreen through the entire Winter. Its foliage will be scorched when the weather freezes hard and the sun shines on the plant throughout the day, just as happens to rhododendrons under similar circumstances, but it is nevertheless a good evergreen. Were it used in a hedge, as the California privet is, one would protect the other and in this way a beautiful evergreen hedge would result.

How far north this evergreen privet will endure the Winter remains to be seen. It has been in collections here for several years, and in a few instances hedges of it have been set out which were satisfactory and attractive. While it has withstood the severity of our Winters when standing alone, it has preserved the bright green of its foliage better when in a hedge, as it naturally would.

This privet will root from hard weed in Spring, but not as freely as it will form half-ripened shoots made into cuttings in Midsummer or before. Those acquainted with the common myrtle of Europe, Myrtus communis, see in the Ligustrum japonicum foliage a great resemblance to that of the former.

All of the following trees are grown for the production of rubber: Hevea brasiliensis, Castilloa elastica, Sapium Marmieri, Hancornia speciosa and Manihot Glazievil. What is known as Para rubber is the hevea, and this is considered the best of all. Half of the world's supply comes from the valley of the Amazon.

Common Names for Plants.

Much as may be said in favor of having common names for plants, it cannot be disputed that to be intelligible the world over, the scientific appellation is the only one to be recognized. To latinize the names of varieties appears uncalled for often, and yet in the commerce of the world it assists trade to have even these.

Plant collectors unacquainted with the botanical names of plants are a plague to the nurseryman. Take the case of cedar for instance; depending on which part of the country the collector is in, all the following trees are called cedar—Chamaecyparis thujoides, Libocedrus decurrens, Thuja occidentalis, Cupressus Lawsoniana and all the many juniperus. If it be New Jersey, it is chamaecyparis, as this is the white cedar tree, while red cedar is Juniperus virginiana. From collectors unacquainted with scientific names it is impossible to know what will be received under a common name, unless one is well acquainted with the trees that grow with them. There is nothing better to do than for catalogue makers to stand by scientific names. When these are rightly adopted there is no fear of being misunderstood, both buyer and seller know what they are doing, and trade is made easier for all concerned.



Walter Ramsay's Greenhouse Establishment at Edmonton, Northern Alberta, Can.

A Prominent Plant Propagator.

Among the increasing number of men in the United States who are devoting much of their time and attention to the improvement of plants and flowers by hybridization and cross-fertilization few names stand out more prominently, are more favorably or wider known than that of Antoine Wintzer of the firm of Conard & Jones Company, West Grove, Pa.

It has therefore occurred to The Florists' Exchange that a brief sketch of Mr. Wintzer's career, as well as a look at his portrait, would prove of much interest to its readers, and we have pleasure in presenting both herewith:

Antoine Wintzer's father emigrated to America in 1854. He brought with him all his family except the oldest son, who was then an active participant in the Crimean War. The elder Wintzer was a professional gardener and soon obtained a good position after landing at New York. Antoine was six years old when they arrived, and between the years 1854 and 1862 he attended the public schools—most of the time at Flushing, New York, where his father had moved in 1857. In March 1862, when he was 15 years old Antoine entered the Parsons establishment as an apprentice. At this time the Parsons were the largest growers of nursery stock in America.

Mr. Wintzer inherited a genius for finding out the requirements of plant life, and under the skillful supervision of J. R. Trumpy, he rapidly acquired the practical features of growing grapes and roses. After spending two years with Parsons, he became dissatisfied, because the line of work they kept him at was too restricted—so he left and engaged with Eugene Bauman, one of the most prominent landscape gardeners in the East. His idea was to learn landscape work, but Mr. Bauman, who had now settled at Rahway, N. J., found that Mr. Wintzer was such a skillful propagator that he gave him full charge of the one greenhouse he then owned. He allowed Mr. Wintzer to experiment with different methods of propagation, and it was here that Mr. Wintzer reached settled conclusions, in certain lines, especially in the propagation of hardy shrubbery, and he still feels that his experience with Mr. Bauman was a most valuable asset in his life work.

At Rahway Mr. Wintzer contracted malaria, and left his position with Mr. Bauman, to recuperate at his father's home in Flushing. After regaining his health he felt afraid to go back to Rahway, so he engaged with Mahlon Moon at Morrisville, Pa., as propagator of evergreens, roses, etc., but his stay here was a short one, he being again threatened with an attack of malaria. From Morrisville he went to Sewickley, Pa., and engaged with James Wardrope. Mr. Wintzer's stay with Mr. Wardrope was short, as he again contracted malaria and left for home; yet Mr. Wintzer has most delightful recollections of his short sojourn at Wardrope's.

This brings us to a new chapter in the life of Mr. Wintzer. After recovering from the attack of malaria, he went to West Grove, Pa., and accepted a position with Dingee & Conard. He arrived at West Grove on July 31, 1866, the anniversary of his wife's birth, so he says he cannot forget the date. On August 1 he commenced work for the concern as propagator. They had two small greenhouses, 10x80 feet each, at this time. This firm at that time was doing a general nursery business, having over three hundred acres devoted to the growing of fruit and ornamental trees, shrubbery, roses, etc., which they sold almost entirely through agents. The business proved to be unprofitable. The firm perceived that there was an increasing demand for roses grown on their own roots and Mr. Wintzer was very successful in growing roses by a process which he claims was his own invention. At this time the roses were sold almost entirely as one-year plants and shipped by mail to the purchaser. By advertising in a very few papers, enough customers were found to take all the roses the firm could grow in the few greenhouses that then comprised the plant. Other greenhouses were built and a catalogue published to help make sales. The business grew and prospered, and almost every year new greenhouses were added. This continued till the year 1892 when the greenhouses numbered seventy.

Mr. Wintzer's ability as a propagator was now fully established; he had produced fine healthy rose plants all these years and the number he could grow was only limited by the space at his command to grow them in. Unfortunately, also in 1892, differences arose in the management of the Dingee & Conard Company and the late Alfred F. Conard, who had always been president of the company, withdrew, and a year later, in 1893, Mr. Wintzer also withdrew.

Mr. Wintzer had purchased a small farm about one mile from West Grove and had built thereon a commodious modern residence, and in the Fall of 1893 he erected there two greenhouses. His business was continued with varying success and connections till 1897. He was very anxious to enlarge the business, and the late Alfred F. Conard, who had been associated with him for so many years previous to 1892, and S. Morris Jones, a business man of West Grove, knowing Mr. Wintzer's great ability as a propagator, they furnished capital to organize the Conard & Jones Company. The new company purchased from Mr. Wintzer 35 acres of ground and his greenhouse plant, which had grown to seven greenhouses. That year the company erected seven more greenhouses, an up-to-date

packing house, a large boiler room, and coal bins, and a frost-proof house for storing dormant plants. The new company has been successful. The plant has been largely increased, so that in 1907 the company ranks among the largest in this line of business in America. They issue a catalogue of 136 pages; roses having first place, and in connection therewith shrubbery, cannas, bedding and decorative plants, flower seeds and bulbs.

In 1893, when Mr. Wintzer started business on his own account, he commenced a careful methodical line of work to improve the canna, in which he has been successful beyond his most sanguine expectation, but most deservedly so, for no one who has not followed him in it, can imagine the amount of work, or the time required to develop a shade of color when there is no parent of that shade to work with. It takes exceptionally good judgment on the part of the hybridizer to improve each succeeding year the feature in the plant or flower that he is trying to develop. Mr. Wintzer has shown that he has this ability in a marked degree, and Mont Blanc, Buttercup, Betsy Ross, West Grove, Maiden's Blush, and other varieties that he has succeeded in originating, place him in the first rank, if not at the head of canna producing experts.

Mr. Wintzer at the age of 59 is still as hard a worker as ever; his health is good and we look forward to many more years of successful work from his hands and brain. Above everything else, Mr. Wintzer wants it to be understood that rose



Antoine Wintzer

growing is his specialty; he wants the company that he is connected with to be recognized as second to no other concern in disseminating roses of the very best quality, and on their own roots, and he wants to live long enough to establish the fact that his method of propagating roses is the very best that has yet been devised for producing roses of the highest grade and greatest vigor of growth.

Mr. Wintzer is vice-president of the Conard & Jones Company, and has been general manager of the greenhouse department ever since the company started in 1897.

The New Philippine Lily.

One of the very few good things brought here from the Philippine Islands is the Benguet or white trumpet lily of Luzon, *Lilium philippinense*, says Dr. Van Fleet in the Rural New Yorker. It was first collected in 1874, and introduced in a small way to the European trade, but though recognized as very desirable it did not attain commercial importance until the American occupation of the Philippine Archipelago. Since then it has been imported in increasing numbers, and finds favor wherever tried, among professional as well as amateur growers. If bulbs can be procured in sufficient quantity this elegant species will go far to replace, for Easter blooming, the other white trumpet kinds so extensively known. The Benguet lily is in reality a very distinct form of the variable, long-tubed *Lilium longiflorum*, the type of which grows naturally in China and Japan, and is therefore closely related to *L. Harrisii*, the very tree-flowering variety popularly known as the Bermuda Easter lily. It has longer and more perfectly proportioned blooms, at times fully nine inches in length, borne on stiff but slender stems two feet high, clothed with very narrow grasslike foliage. Notwithstanding its almost tropical origin, this lovely lily grows well under ordinary greenhouse conditions, blooming with great certainty in about 90 days after starting into growth. The flowers are not as numerous as with

the best strains of *longiflorum* and *Harrisii*, the largest obtainable bulbs seldom producing more than four blooms, but they are so refined in their elegant tapering form, their waxy purity of color and richness of perfume, as fairly to outclass other white-flowered forcing varieties. We do not know of any trials in the open ground, but in all probability it will not prove hardy in the North, although bulbs have been frozen during transportation without appreciable harm.

Of Easy Culture.

Three ordinary commercial bulbs, potted up last January, bloomed beautifully in the Rural Grounds glasshouse in early April, and the bulbs, contrary to general experience with potted lilies, doubled in size by the time growth ceased in September. They were grown singly in six-inch pots of rather poor loamy soil, but were provided with good drainage and fertilized with weak liquid manure every week after six inches of growth had been made until Midsummer. After the stems died down in October the pots were allowed to dry out and in fact, to lie outside, but protected from rain, until hard freezing weather in late November. The bulbs under this treatment came out firm and plump, and we expect them to bloom still better the coming season. Thus far the bulbs in commerce appear free from the dreaded bacterial disease that plays havoc with our regular Easter lilies. They were offered last season at \$3 the dozen, and will probably rise in value as the demand increases. One present drawback is that the collected bulbs do not arrive in time for early potting. They are seldom ready for distribution before January, while Bermuda-grown *Harrisii* and Japan *longiflorum* are usually to be had in early September, but this difficulty is likely to be overcome as their culture on this continent is better understood. One importer is trying the experiment of growing his stock in Porto Rico, with what success we have not learned.

A Charming Wild Flower.

The natural distribution of *Lilium philippinense* appears to be pretty much confined to the plateau of Benguet on the Island of Luzon, the most northern of the Philippine Islands, where it grows abundantly on grassy slopes in clay soil of very moderate fertility. The flowering season is August and September, the massive fragrant trumpets being so numerous in localities as to whiten the hillsides. At this season, there is much rain and humidity, but afterward a prolonged drought sets in, the tops die down and the bulbs become entirely dormant—a cultural hint that should be carefully followed by the grower.

We found little difficulty in hybridizing the Benguet lily with good specimens of *Harrisii* and *longiflorum*, and hope to bloom the results in due time. It appears to be a good seeder under ordinary cultural conditions, and is also quite free in forming bulblets about the stem near the surface of the soil, so that it may be regarded as easy to propagate. The Department of Agriculture at Washington, D. C., has also crossed this species with various forms of *longiflorum*, and we understand is about to experiment with its outdoor culture in California and the South. Those of our readers who would care to grow a belated Easter lily of unique and elegant type, might test this Philippine acquisition in their window gardens and greenhouses. Bulbs will shortly be available, and will be offered by several prominent dealers. The main requirement, besides light and cool growing temperature, seems to be thorough drainage, but plenty of water and weak soluble fertilizer until the blooms are perfected, then gradual tapering off to complete dryness. Plant the bulbs near the center of a five or six-inch pot of garden soil. Space above the bulb is needed for the fibrous stem roots that have so much to do with the development of good flowers. The earth should be well moistened after planting, and the pots are best kept in a moist and cool dark place until growth starts.

Hardiness of the Fremontia

There is so much praise bestowed on the *Fremontia californica* in the English horticultural papers, that it makes us wish greatly that this beautiful shrub could be grown in our Northern States. It has been tried several times in Pennsylvania, but has failed every time. In California papers, this shrub is said to be found on high elevations, where it is much colder than lower down where it is more abundant, and perhaps if seeds were secured from these in high altitudes, plants might be obtained that would be hardy with us.

It is related that those who gather the seeds of *fremontia* have to wear gloves, because of a fuzziness attached to it that greatly irritates the skin. *Fremontia* is not the only case of this nature from the Pacific coast; the *Acer macrophyllum* is another. The seeds are full of minute hairs, which greatly irritate the hand that comes into contact with them.

The flowers of *fremontia* are light yellow, some two inches across; and really it is the calyxes and not the petals that are called the flowers.

JOSEPH MEEHAN

Jan. 12, 1947

ELEGANTISSIMA FERN RUNNERS

Very fine stock, \$1.50 per 100; \$12.00 per 1000. BOSTON, Bench, 3 in. 5c; 4 in. 10c.

TARRYTOWN, Bench, 2 1/2 in. 4c; 3 in., 10c.; 4 in., 15c.; 5 in., 25c. Runners \$1.50 per 100.

ROOTED CUTTINGS, prepaid per 100.

BYER BROS., Chambersburg, Pa

FERNS MY SPECIALTY

Please notice the big reductions. Cibotium Schledel, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:

Strong plants from 2 1/2 in. pots, \$10.00 per 100, \$95.50 per 1000.

3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100; 5 in. pots \$60.00 per 100; 7 in. pots \$100.00 per 100.

Adiantum Regina, a beautiful fern, also called the hardy Farleyense, 4 in. strong plants, \$25.00 per 100; 5 in. \$40.00. Adiantum Rhodophyllum, 4 in., \$20.00; 5 in. \$35.00 per 100.

J. F. ANDERSON,

Successor to Anderson & Christensen, SHORT HILLS, N. J.

WHITMANI FERN

Large stock of strong plants, 2 1/2 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN

3 inch pots.....\$ 8.00

SCOTTII

2 1/2 inch pots.....\$ 5.00

KENTIA FORSTERIANA

4 inch pots, made up, strong and bushy.....\$25.00

5 inch pots, made up, strong and bushy..... 60.00

CHAS. H. CAMPBELL,

3601 GERMANTOWN AVE., PHILA., PA

5,000 FERNS THAT MUST BE SOLD.

In fine shapes: low, stocky plants. Boston, from 8 in. to 20c, from 5 in., 15c. Pteris, from 6 in., 20c; from 5 in., 15c. Scottii, from 5 in., 25c.

BENJ. CONNELL -:- WEST GROVE, PA.

PALMS AND FERNS

The Geo. Wittbold Co. 1657 BUCKINGHAM PLACE CHICAGO

BOSTON FERNS

Very fine bushy stock from 5 in. pots 60c.; 7 in pots \$1.00; 8 in pots \$1.50; 9 in. pots \$2.00.

FRANK N. ESKESEN, MADISON, N. J.

JOHN SCOTT

5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 par dozen.

ADIANTUM FARLEYENSE

The Very Best Only

JULIUS ROEHRS COMPANY

Excotic Nurseries Rutherford, N. J.

Mention the Florists' Exchange when writing.

Decorative Plants.

ADIANTUM FARLEYENSE. — Of all the ferns in cultivation Adiantum Farleyense is admittedly the choicest and most decorative; and were it not the ease that the difficulty in raising a stock of it has in the past been very much exaggerated, growers would take more kindly to its cultivation, knowing as they do of a ready market at all seasons for plants and fronds.

In the growing of Adiantum Farleyense, if there is one detail that requires stricter attention than another it is cleanliness—a clean house, clean pots, clean sand, clean soil, and above all a clean bench for the pots to stand on.

Adiantum Farleyense is propagated by division of the crowns, and as every requisite condition for successful work is more likely to be generally available from now on than at a much later period, operations should not be much longer delayed.

The first step in preparation is the filling of the bench with clean sand. What I mean by filling is a reasonable depth of sand—about 3 1-2 inches.

When the sand is ready and in condition the stock plants can be divided. If the operator is fortunate in being in a position to choose, he will do well to use only medium-sized plants for breaking up.

DREER'S SUPERB DOUBLE PETUNIAS



For nearly half a century we have been making a specialty of DOUBLE PETUNIAS and our strain is accepted as second to none, either here or in Europe.

HENRY A. DREER, - Philadelphia, Pa.

Mention the Florists' Exchange when writing.

As noted before, the plants when young, thrive best when placed over a gentle bottom heat, and as moisture is always necessary it will be well to put sphagnum moss on the bench for the pots to stand upon.

When the plants are young and making luxuriant growth they require more shade than they will later, after they are a little hardened.

Plants started into growth from divided stock now will, if carefully attended to, make good specimen plants by July, and nice young stock, easily marketable, at a much earlier period.

Adiantum Farleyense needs good drainage without fail, and careful watering, and that at the roots only; syringing overhead destroys them.

FERNS FOR FERNERIES

From 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Asparagus Plumosus and Sprengeri, 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000.

EVDEN BROS., Williamsport, Pa.

Adiantum Farleyense

The Very Best Only

JULIUS ROEHRS COMPANY

Excotic Nurseries Rutherford, N. J.

NEPHROLEPIS

Whitmani, 2 1/2 in., \$10.00 per 100. Barrowsii, 2 1/2 in., \$3.00 per 100.

Holly FERNS

We still have fine stock in 2 in. pots, and will give you specially good count on all orders you send us during January. 20 per cent. extra count on all orders for mixed ferns at \$3.00 per hundred.

KENTIA BELMOREANA

5 in., clean and bushy, 50c. and 75c. each. 2 1/2 in., for center of fern dishes, 10c. each; \$9.00 per 100.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.

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IN LORE, LYRIC AND LAY

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Tells the Story of Scotland's Famous Mountain Flower in Prose and Poetry. Full cloth, 280 pages, freely illustrated, including frontispiece in color.

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JOHN SCOTT

5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 par dozen.

JULIUS ROEHRS COMPANY

Excotic Nurseries Rutherford, N. J.

FOR THE RETAILER

[All questions relating to the Retail Trade will be cheerfully answered in this column. We solicit good, sharp photographs of made-up work, decorations, store interiors, etc., for reproduction here.—Ed. F. E.]

Window Decorating.

A well-dressed window is an all important subject in all branches of business and especially so with the retail florist. And surely there is nothing quite so beautiful and attractive as a well-decorated florists' window! I have often heard the remark from customers that the florists' windows of New York are the most beautiful in the world. I do not think, however, this remark should be confined to this city, as I consider the best flower stores of the larger cities are well up to those of New York in that respect.

A retail florists' window is usually a good barometer of the business done inside, and should always be the acme of neatness and good taste. Cleanliness is the first principle of a good window decoration. I have often made the remark, "It matters little what you put in your window so long as it be clean." The best way to make sure of this, is to change your window decoration every day and have the place thoroughly washed inside and out. Glazed tiling is the best flooring for the florists' window, as water will not injure or make it unsightly, and it is easily cleaned up. Rubber tiling is being used to advantage by some up-to-date florists, and it saves breakage in pots and vases. The most attractive windows are often those that have the least in them, although a well-filled window, if arranged right, can be made very attractive.

Always put the very best you have in your window whether it be plants or flowers. Every flower should be perfect, and every plant a specimen. Be careful to have a window that harmonizes. To be on the safe side it is better to confine your decoration to one color, although a judicious blending, or a striking combination, is often a winner. Never mix colors if it can be avoided. Kaleidoscopic effects are not good as window decorations; a massing of color is far more effective. Some flower stands seen in this city, and even some stores, remind one of a crazy quilt, absolutely no regard as to arrangement—yellow, red, pink and blue all being jumbled together.

I noted in a Fifth avenue window the other day a very clever arrangement—a large square case, with a glass front built to represent a picture on an easel. It was about four feet square, lined throughout with green silk, and lighted from above with miniature electric lights. Several vases of choice flowers, including orchids and gardenias, were tastefully arranged and placed inside, the effect from the street being that of a beautiful painting. A feature of this kind, if well done, will attract a great deal of attention and that should be the aim of the window decorator. He must be a creative genius, with endless resources.

If you have a large decoration on hand, get your stock a day or two ahead, and use it in your window. Nothing will attract like a large quantity of one variety of flower. One firm this Winter, who was fortunate enough to book some large dinner orders, filled its window entirely with Enchantress carnations and Adiantum Farleyense. Three thousand flowers were used in the window at once, and several hundred were sold that day to transients, owing to the display made. On another occasion this concern's window was filled with potted lilacs. These were used next day, as a screen to hide the musicians at a large dinner given by one of the millionaire customers. Such affairs always afford an opportunity for elaborate window displays, and every advantage should be taken of them. A large wedding decoration booked last Summer by this firm was entirely due to its excellent window decorations, the customer giving it as her reason for wishing the concern to do her work, which goes to prove the value of careful and artistic window decoration.

The average florist has a habit of allowing his window display to dwindle almost to nothing during the Summer months. This is undoubtedly a great mistake. Of course, it hardly pays to keep a display of cut flowers at this season, but a window may be made very attractive with foliage plants, such as crotons, aracas or ferns in variety, Cibotium Schiedel being particularly good, with its fresh cool green fronds. The plants must, however, be kept fresh and free from dust. An aquatic display has much to recommend it as a Summer window as then water lilies are at their best. A large tank filled with a variety of these charming flowers, in addition to other aquatics, will attract much attention, and a supply of them may

be obtained throughout the Summer months. Nelumbiums, nymphæas, Cyperus alternifolius, papyrus and a host of other suitable plants may be included. And if a fountain can be conveniently introduced, it will add much to the cooling effect. Frogs, minnows, gold fish, and even turtles all add to the interest, and afford a touch of reality.

D. RAYBUN.

CLUB AND SOCIETY DOINGS.

NEW JERSEY FLORICULTURAL SOCIETY.—The installation of new officers, reading of reports and the conferring of seven silver cups engaged the attention of this society at its meeting on January 4. The officers installed were: W. J. Bennett, president; Arthur T. Caparn, vice-president; Henry Halbig, secretary; and William Reid, treasurer. The master of ceremonies was the retiring president, D. Kindsgrab. The secretary's report showed seventy members in good standing, five in suspension under the by-laws, and ten dropped. Five new members have been elected during the year of which only three have qualified. The society has held eleven competitive shows, a Fall exhibition and special rose and dahlia nights. The winners of the seven silver cups were: Peter Duff, William Reid, Max Schneider, William Phillips, Arthur T. Caparn, A. W. Bodwell and Lager & Hurrell. Eighty-six certificates were given during the year; among the recipients of these were: Julius Roehrs Company, Alex. J. Guttman, F. R. Pierson Company, Lager & Hurrell, John E. Haines, and Joseph A. Manda. A balance of three hundred dollars remains in the treasury.

Essays or addresses have been made at nine meetings at which the average attendance was thirty-two.

It was decided to continue the monthly floral displays, and the giving of medals is under consideration in place of silver cups to which several drawbacks exist. An invitation was read from the



Arrangement of Cattleyas and Adiantum

Artists, L. L. May & Co., St. Paul, Minn.

Morris County Society to attend its smoker on the 5th. Among the floral exhibits of the evening were a vase of lily of the valley shown by Julius Roehrs Company and a white Cattleya labiata by Thomas Jones, Short Hills, N. J.

J. E. D.

MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY.—The regular meeting of this society was held on Friday evening, January 4, President Hale in the chair. Five new members were elected. The society is in good financial standing, which is encouraging. Arrangements were completed for our annual dinner, to be held, as usual, at the Sheridan Hotel; we are all anticipating a good time. Arrangements were also made for the society's annual ball for the early part of February. The installation of officers for the year was as follows: President, W. W. Kennedy, vice-president, Percy Hicks; secretary, H. A. Kettel; financial secretary, George R. Kuhn; treasurer, N. Butterbach. H. A. Kettel exhibited a fine vase of tulips which scored 80 points.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 MADISON AVENUE. My facilities for delivering flowers for any and all occasions are unexcelled; I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

LAMBROS MULINOS, 503 Fifth Avenue, and 301 Columbus Avenue. I have at all times a superb stock of seasonable cut flowers and can fill telegraphic orders at a moment's notice.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders, placed with us, will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1708 Broadway, J. A. Valentine, Preset. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Tex. and La. Mail and telegraphic orders solicited.

LENOX (Mass.) HORTICULTURAL SOCIETY.—The regular meeting of this society was held January 5, President F. Heeremans in the chair. The entertainment committee submitted a program for the ensuing meeting nights. For the February meetings they have arranged the annual dinner for the 2nd, and carnation night for the 16th. H. A. Bunyard of New York, gave a very interesting talk in which he offered a medal to the winner of the society's checker tournament, and a donation from A. T. Boddington, toward our Fall show premium list. A. J. Lovelass was awarded a first-class certificate for Cypripedium Leeannum Adela, a seedling raised by himself, also diplomas for Cypripedium insigne Sanderae, C. insigne Harefield Hall, and C. Leeannum Chinkaberryannum. J. R. Shields was awarded a cultural commendation certificate for some extra fine plants of Begonia Gloire de Lorraine and a diploma for Primula obconica. G. F.

A CALYX SUPPORT.—Maxfield & Dimond, Warren, R. I., are introducing to the trade a patented device for the prevention of the splitting of the calyx of carnation flowers. The device is made of spring brass, is somewhat of the shape of an entire calyx, with an interlocking arrangement at the base to hold it in position when placed around the calyx of the flower.

THE WEEK'S WORK.

Timme's Timely Teachings.

After the Holidays.

Holidays in general and the happenings before and during Christmas in particular afford a deal of timely teaching. Prosperous times were reflected in the lavish holiday displays. In the dense throng of purchasers that crowded streets and stores for weeks, and in the enormous business done on every hand, florists have done exceedingly well. The lavish holiday displays, in the dense and their goods been in every case of the right kind, color and price and in plentiful supply, there is no telling. Why, it would almost seem as if nothing better for a whole year's campaign could be planned than the growing of Christmas stock alone in all the colors from brightest pink to flaming scarlet. A specialist in this sort would fare no worse than the farmer; he would have one great harvest, one grand haul, and at the rest of the year, for preparations with some time left to count his money. Anyone taking this hint seriously would do well to confine his efforts to the growing of red roses and carnations alone, for these two items have invariably been scarce at every Christmas, bringing prices that put all kinds of small coin out of circulation. Nothing, it seems, will ever be able to displace these matdorees in the Christmas floral arena, not even the gorgeously bright poinsettia. For the first time we had of poinsettias a few too many; perhaps lots of these would have been left over had there been enough carnations. It is the red carnation that has its inning at Christmas.

A Plethora in White.

As usual there was an over-abundance of white flowers and white flowered plants. It seemed, especially, to be the Christmas. White carnations, Roman hyacinths, Paper White narcissi, lilies, mignonette and stevia, all are welcome and desirable when supplied in moderate quantities and regular shipments right along throughout the season, as I have often advised. Christmas crops for the commission house, or when all thrown on the market at one time, the profits in their raising will amount to little. Lots of white material remained unsold after Christmas. It is nice and always pleasing to relieve bright colors with a tinge of white, but that is about all the use white stock can be put at Christmas. Some white flowering plants are disposed of through the aid of artificial rimming in bright and strongly contrasting colors, but though pretty enough in appearance, such articles occur slowly. Were it not that funerals occur around Christmas as well as at other times, little use would there be for large quantities of white flowers at that holiday.

The Christmas Plant Trade.

The number of holiday customers who prefer plants to cut flowers is still on the increase. This Christmas, as also last, any plant that was in fairly decent shape sold readily. The prices obtained and obtainable were about the same as last year for the same kind and grade of stock. What is new this season, however, taken all through, was better than that handled last year, I believe at any previous Christmas. For this reason the receipts for plants must amount to considerably more than they did in former years. This year's plant trade from Easter to Christmas proved that the most active and best paying business is done in medium-sized and moderately-priced single specimens of whatever kind they happen to be.

Made-up and appropriately trimmed plant arrangements sell as fast almost as they can be handled, especially at the very last hour, but do not yield the clear profit that single plants do. A high-priced basket or receptacle of a dozen plants, filled with a great number of plants and adorned with a lot of costly ribbon, must bring a high price to leave a fair margin of profit to the one who raised the plants. Some close figuring must be done to arrive at a sound and comfortable footing in the field of horticultural traffic. But it certainly is an easy flowing line of trade, and in localities where it flourishes cost seems to be no bar to public appreciation.

Some of the larger-sized single specimens in flowering plants, the least at many were left over from this season's holiday sales, a few still being after this date. The sales in this line have in no way dropped off, even more stock being sold all through than last Christmas. But the supply seems to have been uncommonly large this season, which fully accounts for the greater number left over. All kinds of foliage plants sold well, more being dis-

posed of than last year, also more having been used in made-up arrangements of this type of filling in fancily striped baskets and in many other ways, into favor with a large class of buyers. Large and medium-sized plants of the decorative species met with ready sales right along for weeks. The natural green forms a most attractive setting to a bit of bright trimming artistically adjusted.

The Christmas Tree.

Fifty years ago the New Year and the Fourth of July were the only two public holidays observed in this country. Christmas was a day like any other; everybody worked or attended to work-a-day business as usual, unless it happened to fall on a Sunday. The Christmas tree only lived in the memory of people who had emigrated from continental Europe. A year after the close of the Civil War I first beheld with keen delight a few cut-down spruces offered as Christmas trees, vividly recalling childhood joys. Little then did I expect, war-worn and crippled as I was, to ever witness so widespread a revival of the time-honored custom as is evidenced nowadays.

It is stated that this season in Chicago alone the number of Christmas trees sold amounted to 750,000. Nearly as many more were rejected, remained unsold or were lost by shipwreck on the lakes in the great storm a week before Christmas. Last year one-and-a-half million young spruces and hemlocks were cut down in Vermont alone for the Christmas trade in the principal Eastern cities, a much greater number having likely been brought to the markets this last Christmas. In the last few years at least the million trees, from two to fifteen feet high, have actually been wasted in having been cut down and then found to be not good enough or too late for the trade. These are the only authentic figures I can put my finger on concerning this branch of the holiday business. Here is food for thought.

How much longer will our forests hold forth the needed supply? These young trees, sacrificed on the altar of the holiday spirit, are the finest and most thrifty of their kind. What splendid timber, what an immense money value, they would have grown into in fifteen or twenty years! It would seem that statements like those just cited would furnish sufficient cause for alarm, unless we are justified in upholding the shopworn belief that our forests are inexhaustible. Few stop to think of the economic questions connected with the lavish sacrifices made to the sentiment of the season. It is not at all unlikely that a time is near at hand when fine nursery stock at hand when fine nursery stock will take the place of spontaneous woodland products in meeting the increasing demand for natural greens of nearly all kinds. A truly glorious future awaits the araucaria, now already fast gaining favor with the better class of patronage. These Norfolk Island pines, as well as pot-grown hardy evergreens, may yet have to pose as Christmas trees, not cut down in their prime, but living symbols of a living spirit.

Propagation.

Florists who raise any and all kinds of plants for an ever open market carry out their business at all seasons of the year with hardly any let-up at any time. Still these growers, as well as all the rest of indoor gardeners, wisely manage their affairs in such a way as to have the largest and main part of the work come in at a time when conditions are most favorable for the multiplication of stock. This, with few exceptions, is the case in Midwinter. Were it not for the great scarcity of room and time prevailing before the holidays, there would be no better period for the propagation of many kinds of stock, roses and carnations included, than the two last months of the old year. The percentage of loss in cuttings and seedlings then is the smallest and the young stock, after being potted up or pricked off, makes a more promising headway in the two first months of the new year than it would later on in the season. This is true in the case of all hothouse and hard-wooded greenhouse stock and would also bring best results in working up stock of many kinds of softer growth, were they cared for properly and attended to as required in their subsequent stages of progress, which, if they are admitted, is almost impossible to do in early Spring, the high pressure period of the plant grower.

For this reason and because many of the stock plants are only coming into right condition now, most of all the propagating is done in January and February. During these two months the propagating house should be run at its full capacity; not a square foot must be idle any longer than can possibly be helped. And if this is the case, an astonishingly large quantity of new stock for the coming season can be called into existence in a comparatively small area of sand bed.

The Propagating Bench.

The bench or benches on which most or all of the propagating is done should be exposed to the full light, but be so built or fixed up as to afford ready means for convenient and expeditious placing and removal of shading contrivances, of whatever kind these may be. The heating pipes underneath should be sufficient in number, prompt in responding to the fireman's exertions and placed within a few inches below the bench carriers or cross-pieces. Any bench not level or already showing signs of decay, should be rejected or reconstructed for same purpose. A wooden bottom will never give as good results as a tile or slate bottom. The latter, common roof-slate a little over a foot square, a quarter of an inch thick, placed on iron or wooden cross-bars, I have now used for many years in my propagating benches, and I know of nothing better for the purpose. Plenty of minute openings for perfect drainage are provided for in placing the slates. On these a layer of coarsely broken up soil, usually the rough leavings from the sittings of potting soil, is spread about half an inch in thickness. On this the sand, if the benches are to serve the purpose of rooting cuttings, and a thin layer of sifted ashes if for seed-trays.

The Sand.

In all my experience of many years in the rooting of cuttings of the usual greenhouse kinds, not excepting carnations, I have never been able to discover the least difference as to suitability for the purpose in the various grades of sand I was compelled to use. As long as the sand was strictly pure it fulfilled its mission, no matter whether it was white, yellow or brown, coarse and gritty or fine and dust-like. I have to buy every handful of sand, and for several years now use the sand from our lake shore with unflinching good results. I use the same sand two and three times within a few months, never removing any until all the propagating is done and the benches are needed otherwise. Should I run out of sand for propagation, being unable to procure more at any cost—and this occurs sometimes—I employ finely sifted soil, made as triflingly lighter as the mixture of sand, and never fail to root any of the ordinary cuttings in it. Where the bottom heat is strongest I use a layer of three inches of sand, less where the pipes send a mild, steady heat through the tiles into the bed. The sand when in actual use as a medium to hold unrooted cuttings in position, should be constantly warm to the touch, never hot or heated to a degree contrasting strongly with the temperature of the house; and this should never be so high as to excite top growth before root formation has begun. When this has taken place bottom heat is readily, and light and air more freely admitted.

The Cuttings.

The principal points to be observed in propagation by cuttings are proper condition of the cutting when taken from the stock plants, the avoidance of anything that might cause the cuttings to wilt either before or after they have been put in the sand, and good firming of the sand when putting them in. Complete success depends on whether or not the administration is headed, if all other things are in order, in the smallest batch of cuttings, some will in most cases generally refuse to root along with the rest of them, but the actual loss will be exceedingly light if the stem end of the cuttings has the right degree of firmness, neither too hard nor too soft, this difference being in the many kinds of stock to be propagated. We hear a good deal of cutting bench fungus, a destroyer of stock I know only from what I have seen on some nearby places. I never had a tinge of it on my own place. I think cuttings, too soft, quickly decaying and not removed in time, start the trouble. The rotting wood of an old bench may also aid in its development. Cuttings properly selected and cared for should go through the process of forming roots without any harassing trouble.

FRED W. TIMME.

ORCHIDS

Arrived in fine condition, Cattleya Harrisoniana, C. Intermixta, C. Mrs. C. Trueman, Spectabilissima, C. Leopoldii, Laelia purpurata, Pteridium Varicosum Rogersii, O. M. schallianum, Phalaenopsis Amabilis and P. Schilliariana. Write for prices. LAGER & HURRELL, Summit, N. J. Growers and Importers. Mention The Florists' Exchange when writing.

PLANT CULTURE

PRICE \$1.00. A. T. DE LA MARE PTG. & PUB. CO. 2 DUANE STREET, NEW YORK



ARAUCARIAS Our Specialty

Price: 6-7 in. pots, 4-5 year old, as broad as high, 4-5-6 tiers, from \$2.35 in. in height, \$1.50, \$1.75, \$2.00 to \$2.50 each. Olauca specimens 7 in. pots, 30 in. high, 30 in. wide, 5 tiers, \$2.50 to \$3.00; 6 in. pots, 3 years old, 4-5 tiers, \$1.00, \$1.25 to \$1.50 each. KENTIA FORSTERIANA PALMS not scarce with us; have plenty and can meet all wants, cheaper than ever: 5 1/2 in. pots, 30 in. high, 6 good leaves, 60c., 75c., and 85c. each. 7 in. pots, made up, 1 large size, about 40 to 45 in. high in the centre, and three smaller size plants 25 to 30 in. high around, which give them a fine appearance, price, \$2.00 to \$2.50 each. 6 in. pots, single plants 36 to 45 in. high, 5 to 6 good leaves, 4 years old, \$1.25-\$1.50, \$1.75 each. 8 in. pots, 32 to 36 in. high, 5 to 6 good leaves \$1.00 each. 6 1/2 to 6 in. pots, 3 in. high, 5 good leaves, 4 years old, 75c. to 85c. each. ARECA SAPIDA, just imported from Belgium, something new, looks like Kentia palms, about 25 in. high. Look! only 50c. each, worth \$1.00. This is a hangata s-ldom offered. ASPARAGUS SPERNGERI, 4 in. pots, 10c.

FERNS,

All raised in pots and not on benches as follows: NEPHROLEPIS BARROWSII, 7 in. pots, as big as a bushel basket, 75c. to 1.15 each. 9 in. pots, large, ready for 7 in., 50c., 6 1/2 in. 40c.; 6 in., 30 to 35c.; 4 in. 25c. BOSTON FERNS, 7 in., very bushy, only 75c.; 6 in., 50c. or \$5.00 per doz.; 5 in., 30c. to 35c.; 4 in. 25c. NEPHROLEPIS SCOTTII, 8 in., as big as a bushel basket, worth \$2.00, now \$1.25; 7 in. as big as a bushel basket, worth \$1.25, now 75c.; 6 in., 50c.; 5 1/2 in. 40c.; 4 in. 20c.

ORACAENA BRUANTI, Imported from Belgium. This is the best draecena grown for house cultivation. Most favored all over Europe; can stand any amount of dry heat, dust or dirt. Always full of green waxy foliage from top to bottom. 6 in. pots, about 30 in. high, 50c.

GINEKARIA HYBRIDA. H. F. Michell's best strain, 2 1/2 in. pots \$4.00 per 100, 3 in. strong plants, ready for a shift, into 3 1/2 or 6 in. pots, \$7.00 per 100; 4 in. \$10.00 per 100.

AZALEA INDICA for Easter blooming, all best American varieties, 50c. 75c., \$1.00, \$1.25, to \$1.50 each. AZALEAS in bud and bloom now, Deutsche Rose, Simon Warden and variegated 6c, 75c. to \$1.00 each.

All goods must travel at purchaser's risk. When ordering, say whether the plants should be shipped in the pots or not. Cash with order.

GODFREY ASCHMANN

Importer and Wholesale Grower of Pot Plants, 1012 Ontario St., PHILADELPHIA, PA. Mention the Florists' Exchange when writing.

ROBERT CRAIG & CO.

ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts. PHILADELPHIA, PA. Mention The Florists' Exchange when writing.

COCOS PALMS.

Strong 2 1/2 inch at \$1.50 per dozen. Write for lowest prices on Kentias.

Jas. F. Barclay R. I. GREENHOUSES Pawtucket, R. I. Mention The Florists' Exchange when writing.

FOR SALE

Greenhouse Material milled from Gulf pines, to any detail furnished, or our own patterns as desired, cut and spliced ready for erection. Estimates for complete constructions furnished.

V. E. REICH, Brooklyn, N. Y.
1430-1437 Metropolitan Ave.

Mention the Florists' Exchange when writing.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application.
ROESCHELL BROS. CO., 33 Erie St. Chicago.

Mention the Florists' Exchange when writing.

FOR SALE

90 H. P. horizontal tubular boiler, price, \$40.00. O. D. Boiler is 5 feet in diameter, 13 feet long. Is insured for \$5 lbs. steam pressure. All fixtures are included, and these are as good as new. To any florist in need of a first-class boiler, this is an opportunity seldom offered.

GEORGE E. BUXTON, NASHUA, N. H.
Mention the Florists' Exchange when writing.

AUCTION SALE

The undersigned will sell on Thursday, January 17th, 1907, at 10.30 o'clock in the forenoon. Owing to a change from horse to electric power, have concluded to dispose of the entire contents of my stable consisting of the following stock and plant, to wit:

10 business horses, 8 delivery wagons, 2 double sets of harness, 8 single sets of harness, 2 sets of road harness, 1 fast trotting mare, record 2:14.4, bay road mare, Standard bred, 1 pair of spotted unies, wagon and harness, 1 brown saddle horse, surrey, 1 natural wood trap, 3 ransabouts, 1 depot wagon, New sulky built by Toomey, 1 Brewer rump-ham.

All carriages have rubber tires. A lot of wagon and stable blankets, halters and stable utensils, etc.

The above mentioned stock and plant will be sold at public auction at the stable in the rear of No. 250 Fifth Avenue, known as No. 3 West 28th Street, Borough of Manhattan, New York City.

By order of Charles Millang (Florist)
SAMUEL NEWITTER, Auctioneer,
280 BROADWAY,
Manhattan Borough, New York City
Mention the Florists' Exchange when writing.

FOR SALE

One (1) No. 536 Burnham Boiler hot water, new. Capacity 2800 sq. ft. of heating surface. This boiler is absolutely new and was taken in trade by me. Special low price to first customer.

J. E. GALLAGHER,
Manufacturer of Pipe and Fittings,
6 John Street, NEW YORK, N. Y.
Mention the Florists' Exchange when writing.

GRAFTED ROSES

On Dickson's Irish Manetti.
We are now booking orders for March delivery.
KAISERIN, BRIDE, BRIDESMAID,
KILLARNEY & RICHMOND; \$120 per 1000.

Order Now
ROBERT SCOTT & SON,
SHARON HILL, DEL. CO. PA.
Mention the Florists' Exchange when writing.

THE ECONOMY GREENHOUSE BRACKET
15
THE MEANS OF ADDING WEALTH

to your pocketbook. It increases the capacity of your houses. Just the thing for cuttings, etc. endorsed by leading growers. Send for prices and circular.

BUXTON & ALLARD, Nashua, N. H.
Mention the Florists' Exchange when writing.

CANADIAN NEWS

OTTAWA—The weather for Christmas was all right—cold, of course, but not extremely so. The supply was ahead of that of former years and the sales record-breaking. Everything was cleaned up that was in salable condition. Graham Brothers' new store, Scrim's store and plant annex and the Wright Floral Company did a steady business the whole week through and on Monday it was a big rush all day, with stock just holding out to the finish.

The old reliable Boston fern took the lead; hundreds were sold at from 75c. to \$5. Pteris and Scottii all going when the Boston were disposed of. Next came Jerusalem cherries and azaleas. One firm sold 350 each of these. Next came cyclamen; there were many good ones and they sold well at from 75c. to \$2. dollar plants being the favorites. Gloire de Lorraine begonia when good sold on sight at reasonable figures, but it seems to me that there is no plant so subject to a "fancy price" without cause and also damaging to its popularity. Poinsettias sold at 50c. to \$2. Bulbous plants were cleaned out.

Scrim had a grand lot of plant baskets, ranging in price from \$4 to \$20. Wright Floral Company and Graham Brothers also cleaned out about the same number, and the sale of these did not interfere with the cut flower sales, which were ahead of last year's. Carnations easily took the lead. The local crop was plentiful and of the best quality. Those ordered from outside also came in good; \$1.50 per dozen and \$2 for extras were the ruling prices. Roses were not so plentiful as they might have been but of good quality and sold well at \$3 to \$4. Stock of American Beauty was limited. Some very fine roses were shipped in from Boston, U. S.

Large quantities of lily of the valley were sold—mostly local grown. Scrim took out of cold storage an original case of 2,500 and it seemed as if every pip told. These were never opened, but sent straight to Mr. Scrim when received, and it seems to me a very good thing to chance the condition of the package when received and store the pips away as originally packed. Hyacinths, narcissus, and stevia sold out. Violets were short for the demand. Graham Brothers had a fine cutting of W. H. Chadwick chrysanthemums which sold at \$3 per dozen.

Since Christmas we have had a very mild spell of weather, quite a relief to the coal bin. New Year's day trade was very good, the demand for cut flowers being ahead of that of former years and quite a lot of plants was sold. Carnations were in great demand, selling at Christmas prices.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock
ROBERT CRAIG, VICTORY, HELEN GODDARD, \$5.00 per 100.
RED LAWSON AND VARIEGATED LAWSON \$5.00 per 100.
ENCHANTRESS, LADY BOUNTIFUL, NELSON FISHER, and WHITE LAWSON \$3.00 per 100, \$25.00 per 1000.
BOSTON MARKET, GENERAL MACCO, MRS. T. W. LAWSON, PINK ARMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

VERBENAS—Best Mammoth, rooted cuttings..... \$1.00 \$ 8.00
Ageratum, Cup's Pet, White Cap, P. Pauline and Stella Gurney..... 1.00 8.00
Achyranthes, 4 sorts..... 1.00 8.00
Coleus, best bedding and fancy sorts..... 1.00 8.00
Onchus, Platycodon..... 1.25
Fuchsia, double and single varieties..... 2.00 15.00
Feverfew, The Bell..... 1.50 12.00
Geranium, double and single..... 2.00 15.00
Heliotrope, light and dark..... 1.25 10.00
Ivy, German..... 1.25
Moon White, true white..... 1.25 10.00
Salvia, splendens, Bedman, etc..... 1.25 10.00
Salvia, new early flowering curls..... 1.50 12.00
Vines, variegated and Elegans, 2 1/2 in. pots..... 3.00

ASPARAGUS
PLUMOSUS NANUS, 2 1/2 in. pots ... 4.00
" " " 3 in. pots ... 8.00
" " " 4 in. pots ... 10.00
SPRENGERI, 2 1/2 in. pots ... 8.00
" " " 3 in. pots ... 8.00
" " " 4 in. pots ... 8.00

Send for List.
WOOD BROS., FISHKILL, N. Y.
Mention the Florists' Exchange when writing.

and as we had some sunny weather between New Year's and Christmas, the local cut was larger than expected. There was also a big demand for funeral flowers.

We are now turning our thoughts to the lily business and speculating on the probable results. The best in sight at present are L. Harrish, Azores grown; they are looking very fine, with no disease, and promise to be of medium height. Lillium giganteum, which did not arrive until the beginning of December, I potted at once, placed in the warmest house under the center bench, with pipes all round. They started right off, top and bottom (although rather harsh treatment) and are coming along fine, many of them being six inches high. I really believe they will be in for Easter. I tried a few last year, in the same way, that came in late and the flowers were all right.

Tulips are just coming, also new lily of the valley which promises to be very good.

The receipt of all stock from Europe has been very unsatisfactory this year. The spiraea and new dahlias came in the middle of December, arriving here on the freight wagon with the thermometer standing at 24 below zero. Dahlias gone. I do not know if the extreme freeze would hurt our rhododendrons and acubas arriving about the same time. Then the week before Christmas our rubrum, album and auratum lilies came very hard frozen; I don't know how they will turn out. Our European shippers want to be a little more in a hurry about their shipments.

TORONTO. — Christmas business this year was better than ever before; nearly all report a great advance over other years. Dunlop's manager had to turn away orders for both choice roses and violets. The weather was very cold both on Saturday and Monday, and plants did not sell as well as they have done in some years. Cut flowers were very scarce in the early part of the week, but a couple of fine days helped both roses and carnations, immense quantities of which were to be seen on Saturday. I have not for many years seen so little pickled stock around as this Christmas. Roses were generally good; some very fine American Beauty, Richmond and Killarney were sold and prices were high; and it was not the growers only who put them up. Some very fine poinsettias were offered, the best of them coming from Gammage of London. Splendid carnations and violets came in from Brampton. Tidy had a nice bunch of lallias in his window; and Dunlop showed some good cat-tleas.

There were plenty of azaleas offered, also ferns and palms. But few Gloire de Lorraine begonias were seen this year, also few good cyclamen. They were asked for, but were not much missed, as the weather was so cold. Scarcely any berried plants were sold. Holly was more popular than ever before, and holly wreaths were sold by the hundreds. Mistletoe was not as good as is usually seen here, but what was offered was sold out clean.

MONTREAL. — The newly-elected president of the Montreal Gardeners and Florists' Club, Archibald Hunter Walk-

er, whose portrait appeared in last week's issue, was born at Largs Ayershire, Scotland, May 12, 1874. At the age of fourteen he went to work with his father at Cathkin House, Rutherglen, remaining there three years. He then went to Aschnaig House, Sitchmorlie, where he worked 3 1/2 years, going to Drumlanrig Castle for four years, and from there to Canada in 1900. He worked two years for S. S. Bain, and has been with Hall & Robinson since that time.

Mr. Walker is an able grower of all lines of florists' stock, being especially well up in holiday pot plants. He has made a great many friends since coming to Montreal, and is held in high esteem by all. With a genial disposition and his word as good as his bond, it goes without saying that Mr. Walker's future is bound to be successful.

W. C. H.
FREDERICTON, N. B.—The weather being mild several days preceding Christmas made it favorable for delivering. The trade all and all was very satisfactory. Carnations sold at from \$1 to \$1.50; all seemed to want the best quality, and the call was for red, crimson or pink; no one wanted white. Carnations are our leading specialty. Sales of roses were made at from \$2 to \$4 per dozen, except American Beauty, which brought from \$6 to \$12 per dozen. Violets and lily of the valley sold out. Roman hyacinths and narcissus did not go well. In plants, azaleas, poinsettias, Gloire de Lorraine begonias, cyclamen, primroses, obconica and chinense were sold a little in advance of last year. There was an increased demand for fern dishes, also for Asparagus plumosus. A greater demand was experienced for Piersoni and Tarrytown fern, also for holly.—J. BEBBINGTON & SON.

Detroit, Mich.

Murray Patterson, who left the service of the Strand on Saturday before New Year's, was not long in securing a stand. He made a bargain with Edward A. Fetters, for the latter's store, took possession and commenced doing business in his new store January 1, 1907. The terms upon which Mr. Fetters sold, provided for a thirty day option. This option gave him first chance to buy, in case Patterson is not satisfied. Mr. Fetters was not in good health and it was his intention to retire from active life for a short time at least. He intends to make a trip to Europe in the near future.

The club rooms were well filled with a good contingent of both growers and retailers Wednesday evening, January 2, 1907 in anticipation of the lively exchange of views which was to follow. The subject of the evening was "Christmas Trade," and it was well handled. The members present enjoyed the pleasure of smoking in honor of a visitation of the stork to the home of Ed. Phillips. Mr. Phillips is in the employ of Beard Brothers. Another smoker is also in sight, as A. Sylvester has a little baby girl. Two boxes of cigars are required to fill the order in his case.

BUSINESS DIFFICULTIES.

CEDAR RAPIDS, MICH.—On December 29, 1906, Fred H. Shaver et al, filed suit in the superior court against Howard L. Morgan et al. The suit is for \$105 rent due the Shaver estate from the Cedar Rapids Floral Company. A landlord's writ of attachment was secured and the stock and other property belonging to the company was levied on, John Burianek, Jr., being appointed receiver.

Fancy or Dagger Ferns

\$2.00 per 1000

Galax, Bronze or Green, 75c. per 1000.
Boxwood, No. 1 Stock, 50 lb. cases, \$3.50
Laurel Footstooling, 4c., 5c. and 6c. per yard. Finest quality
Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
Southern Smilax, fancy stock, 50 lb. cases \$5.60
Laurel Branches, 35c. per bundle

Long distance telephone connections

Telegraph Office: New Salem, Mass.

CROWL FERN CO., MILLINGTON, MASS.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties
 Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order

A. J. GUTTMAN,
 The Wholesale Florist of New York,
 43 WEST 28TH STREET

JOHN E. HAINES,
 BETHLEHEM, PA.

ARISTOCRAT, beautiful cerise, leader of all carnations. Mar. 1st. delivery—\$12.00 per 100, \$100.00 per 1000.
 RED RIDING HOOD, scarlet \$12 per 100, \$100.00 per 1,000.
 WHITE PERFECTION and

DAYBREAK LAWSON, \$6.00 per 100, \$50.00 per 1,000 and many others ready now. There are no better cuttings than We grow nothing but the best varieties.

ours. Stock is clean and healthy. The quality is guaranteed. Order from reliable people and get what you want.

There is nothing too good for the florist.
CHICAGO CARNATION CO.,

A. T. PYFER, Mgr.

JOLIET, ILL.

Mention the Florists' Exchange when writing.

CARNATIONS

WELL ROOTED CUTTINGS, HEALTHY STOCK

PINK	Per 100	Per 1000	WHITE	Per 100	Per 1000
Lawson.....	\$1.50	\$10.00	Boston Market.....	\$1.25	\$10.00
Nelson.....	1.50	10.00	Lady Bountiful.....	2.00	17.50
Nelson Fisher (cerise).....	2.00	17.50	White Lawson.....	3.00	25.00
LIGHT PINK			RED		
Enchantress.....	2.00	17.50	Robert Craig.....	5.00	50.00
VARIEGATED			Cardinal.....	2.50	20.00
Mrs. Patten.....	2.00	17.50	Estelle.....	2.00	17.50

ROSES Strong and Well Rooted Cuttings

	Per 100	Per 1000		Per 100	Per 1000
Richmond.....	\$1.50	\$12.50	Uncle John.....	\$1.50	\$12.50
Liberty.....	2.00	17.50	Chatenay.....	1.50	12.50
Bridesmaid.....	1.50	12.50	Ivory.....	1.50	12.50
Bride.....	1.50	12.50	Perle.....	2.00	17.50
Sunrise.....	3.00	25.00			

Peter Reinberg

51 Wabash Ave., CHICAGO

CARNATION CUTTINGS

Ready for Immediate or Later Delivery

VICTORY, \$6.00 per 100; \$50.00 per 1000
 LADY BOUNTIFUL, \$3.00 per 100; \$25.00 per 1000
 WHITE LAWSON, \$3.00 per 100; \$25.00 per 1000
 VARIEGATED LAWSON, \$4.00 per 100; \$30.00 per 1000
 PINK PATTEN, \$5.00 per 100; \$40.00 per 1000
 ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000
 PINK LAWSON, \$1.50 per 100; \$12.50 per 1000
 BOSTON MARKET, \$1.50 per 100; \$12.50 per 1000

We can also give you immediate delivery on the two grand novelties, "Winsor" and "Aristocrat." We have watched the above named novelties for several seasons, and can conscientiously recommend them to all carnation growers, and you cannot afford to miss them. Send for complete list and special prices on large quantities.

JENSEN & DEKEMA, Carnation Specialists,
 674 West Foster Ave., CHICAGO, ILL.

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
WHITE—Queen.....	\$1.50	\$12.50	Helen Goddard.....	\$4.00	
Lady Bountiful.....	2.50	15.00	Ethel Ward.....	2.00	\$15.00
White Lawson.....	2.00	15.00	RED—Red Lawson.....	2.00	15.00
PINK—Enchantress.....	2.00	15.00	Robert Craig.....	5.00	
Lawson.....	1.50	12.50	Harry Fenn.....	2.00	15.00
Pink Patten.....	4.00		VARIEGATED—Mrs. Patten.....	2.50	20.00

QUIDNICK GREENHOUSES I. H. CUSHING, Prop., QUIDNICK, ANTHONY P. O., R. 1

THE CHRYSANTHEMUM

Arthur Herrington's New Book

The most complete and comprehensive work on the cultivation of the Chrysanthemum that has as yet been published in America. Handsomely illustrated, 168 pages, 5 x 7 inches. Price only 50 cents, postpaid.

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A. T. De La Mare Ptg. & Pub. Co., Ltd

MABELLE-- New Pink Carnation for 1907

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest and does not injure the color. Size.—Three to four inches in diameter when established. Odor.—Pleasant, but not strong. Stems.—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.—A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after bending. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness.—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. Delivery Jan. 6th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD.

Mention The Florists' Exchange when writing.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa
 Mention the Florists' Exchange when writing.

White Enchantress

white sport of Enchantress, rooted cuttings \$12.00 per 100; \$100.00 per 1000.

E. SCHRADER, NEW SPRINGVILLE
 Richmond Borough, N. Y.

Mention the Florists' Exchange when writing.

ABUNDANCE

Rooted cuttings of the most prolific white carnation will be ready for delivery in January. Price, \$5.00 per 100; \$40.00 per 1000; 250 at 1000 rates; 5 per cent. discount for cash with order.

RUDOLPH FISCHER, Great Neck, L.I., N.Y.

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S. J. GODDARD

Framingham, Mass.

Rooted Carnation Cuttings a Specialty.

Correspondence Solicited.

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JOHN E. HAINES

The leading scarlet, brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place. Rooted Cuttings ready December 15, 1906. Price, \$6.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa.
 Mention the Florists' Exchange when writing.

CARNATIONS

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

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CARNATIONS

THE BEST rooted cuttings of the following varieties viz:—
 Pink Lawson, Red Lawson, Var. Lawson, White Lawson, Enchantress, Harry Fenn, General Lord L. Naumann.

Plants clean; healthy and free from rust. Prices right. Address

A. W. WILLIAMS - Highland, N. Y.
 Mention the Florists' Exchange when writing.

ROOTED CUTTINGS
 February and March Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices.

ALBERT M. HERR, LANCASTER, PA.
 Mention the Florists' Exchange when writing.

CARNATIONS

Rooted cuttings ready January 1. Victory, \$6.00 per 100; \$50.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patten, \$3.00 per 100; \$25.00 per 1000; Pink Lawson, Boston Market, Queen, H. Fenn, and Fair Maid, \$2.00 per 100; \$15.00 per 1000. 5 per cent. discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.
 Mention the Florists' Exchange when writing.

CARNATIONS

	Per 100	Per 1000
VICTORY.....	\$5.00	\$45.00
ABUNDANCE.....	4.00	35.00
ENCHANTRESS.....	2.50	20.00
HARLOWARDEN.....	1.25	10.00
PROPERTY, rooted to order.....		

CANNAS—Robusta \$1.00 per 100, \$10.00 per 1000; Eisele, Marlborough, Austria, Christie, Queen Charlotte, each \$1.50 per 100, \$15.00 per 1000.

KRAMER BROTHERS, FARMINGDALE, L. I.
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ROOTED CARNATION CUTTINGS

Good clean stock, Send for catalogue of 30 good varieties.

LOCUST STREET GREENHOUSES, Oxford, Chester Co., Pa.
 J. H. A HUTCHISON, Prop.

A Positive Cure for Split Pinks!
 The M. & D. ARTIFICIAL CALYX
 Will obviate your trouble.
 A Perfect Flower guarantee \$1.75 per hundred, \$15.00 per thousand, 250 at thousand rates.
 Send for MAXFIELD & DIMOND, Manf. Pat. Sep. 16, 1906, P. O. Box 804A Warren, R. I.
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Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Prices \$6.00 per 100. \$50.00 per 1000. 43 W. 28th St. NEW YORK Grower, LYNBROOK, L. I.

ROOTED CARNATION CUTTINGS

Ready for Delivery

100	1000	100	1000
Enchantress	\$2 50 \$20 00	Helen Goddard	5 00 45 00
" Rose Pink	7 00 60 00	Robert Craig	6 00 50 00
Lawson Pink	2 00 15 00	Victory	6 00 50 00

We can furnish cuttings of all the Standard Varieties
Send for Price List

THE LEO NIESSEN CO.
1217 Arch Street, Philadelphia
Mention the Florists' Exchange when writing.

ASPARAGUS CARNATIONS ROOTED CUTTINGS

ASPARAGUS PLUMOSUS, 3 in. at \$6.00 per 100; 4 in. at \$10.00; 6 in. at \$25.00 per 100.	LEIGHT PINK LAWSON..... \$7.50	100	1000
ASPARAGUS SPRENGERI, 3 in. at \$6.00; 4 inch at \$8.00 per 100.	OLENDALE..... 6.00	60.00	
BOSTON FERNS, 6 in. at \$1.25 each.	ROBERT CRAIG..... 6.00	50.00	
PIERSONI FERN, 6 in. at 40c. each.	VICTORY..... 6.00	50.00	
ASPIDISTRA, green, 6-7 in., 6-12 leaves, at 6c. per leaf.	WHITE PERFECTION..... 6.00	50.00	
	CARDINAL..... 4.00	35.00	
	FIANCEE..... 3.50	30.00	
	WHITE LAWSON..... 2.50	20.00	
	ENCHANTRESS..... 2.50	20.00	
	LADY BOUNTIFUL..... 2.50	20.00	
	THE BELLE..... 2.50	20.00	
	MRS. LAWSON..... 2.00	15.00	
	HARRY FENN..... 2.00	15.00	
	ESTELLE..... 2.00	15.00	
	BOSTON MARKET..... 1.50	2.00	
	WHITE CLOUD..... 1.00	6.00	

CHRYSANTHEMUM STOCK PLANTS
Opah, Monrovia, Omega, Lady Harriet, Vivland-Morel, Dnckham, Halliday, Robinson, Appleton, Dalekov Ivory, Dr. Enguehard, Timothy Eaton, Yellow Eaton, White Bonnafon, Major Bonnafon, \$5.00 per 100 Cash or O. O. D.
W. J. & M. S. VESEY, Fort Wayne, Ind.
Mention the Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS

We have about 30,000 R. C. we are offering for January delivery. This is not cheap stock but it is guaranteed and if not satisfactory may be returned and money will be refunded.

Prices per 1000, 100 at the same rate.

Enchantress, light pink.....	\$20.00	Harlowarden, crimson.....	\$15.00
Lawson, dark pink.....	15.00	Bountiful, large white.....	25.00
Cardinal, scarlet.....	25.00	B. Market, ordinary white.....	15.00

These varieties we have selected as the "cream of the list" for the commercial grower. Cash with order.
SMITH & GANNETT GENEVA N. Y.
Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS READY NOW

Strong, healthy and Thoroughly Rooted Cuttings of the following varieties:

100	1000	100	1000
Victory (scarlet).....	\$6.00 \$50.00	Lieut Peary (white).....	\$3.50 \$30.00
Robt. Craig.....	6.00 50.00	Lady Bountiful.....	3.00 25.00
Red Sport.....	3.50 30.00	White Lawson.....	3.00 25.00
Enchantress (pink).....	2.50 20.00	Boston Market.....	2.00 15.00
Lawson.....	2.00 15 00	Queen.....	2.00 15.00
Mrs. M. A. Patten var. 2.50	20.00	Queen Louise.....	2.00 12.50

Remember we guarantee satisfaction.
250 of any one variety at 1000 rate. Write for discount on large orders.
J.D. COCKCROFT, Northport, Long Island, N. Y.
Mention the Florists' Exchange when writing.

UNROOTED CARNATION CUTTINGS

ENCHANTRESS, QUEEN, FAIR MAID, RED SPOT, HARLOWARDEN, pink, white and variegated LAWSON, \$10.00 per 1000. WHITE PERFECTION and VICTORY, \$30.00 per 1000.
LADY BOUNTIFUL, \$12.00 per 1000.
LIEUTENANT PEARY, \$16.00 per 1000.
SCOTTI FERN, 6 in., \$25.00 per 100.
COLEUS, Verechaffeldi and Golden Bedder, 2 in., \$18.00 per 1000.

ROOTED
VICTORY, \$50.00 per 1000.
QUEEN, \$16.00 per 1000
LADY BOUNTIFUL, \$30.00 per 1000
Larchmont Nurseries
Larchmont, N. Y.

ROOTED CARNATION CUTTINGS

Good clean, healthy stock, free from all disease. Enchantress, best light pink; Robert Craig, fine red; Nelson Fisher, best dark pink; M. A. Patten, excellent variegated; W. Lawson. Orders taken now will be ready for January delivery. Write for prices.

VALLEY VIEW GREENHOUSES
VELIE Bros., Props. MARLBOROUGH, N. Y.
Mention the Florists' Exchange when writing.

A. B. DAVIS & SON, Inc.
PURCELLVILLE, VA.

Place your orders now for Red Sport cuttings, the best red carnation grown. \$3.50 per 100; \$30.00 per 1000.
Mention the Florists' Exchange when writing.

Plant Notes.

A SEASIDE SHRUB.—There are not many dark red foliaged shrubs or trees that thrive well on the seashore, but Prunus Pissardii grows and thrives remarkably well in very exposed places near the ocean. This prunus is very decorative either when planted in considerable numbers in a group or as single specimens. A good plan to adopt when planting Prunus pissardii, even if the ultimate object be specimens, is to plant them when small in clumps, or groups, and as they need more room remove as many as necessary until finally, if desirable, only one specimen remains where the original group stood. A unique if not pleasing effect is produced with Prunus Pissardii and California privet planted promiscuously in an extensive group. To some the contrast between the two might not appeal very strongly, but occasionally contrasts are required in spots, if for nothing else than to emphasize what is harmonious.

HOLLYHOCKS grown from seed sown late in the Fall or early in the Winter should not be checked in any way if it is desired that they should bloom next Summer. If the seedlings have been pricked off into flats and are now crowding, about half the number of plants in each flat should be removed carefully, taking a little soil along with the roots of every plant. These should either be put into other flats, or what will be still more satisfactory, be potted into small pots and later on when they require it, shifted into 3 or 3½-inch pots. Then there will be no question about their flowering next Summer.

ENGLISH IVY.—Although the increased demand for English ivy recently has been very pronounced, I question if there is much money in it in its small size, I mean in plants rooted in the Fall and marketed in the Spring following. Considering the difference in the price obtained for these and that received for plants carried over another year, it would seem more profitable to carry larger plants, especially since many consider the work necessary on ivy the first six months more bothersome, if not greater than that necessary during the more extended period following.

ECHEVERIAS do very well in a cold frame all Winter if protected from frost. They require but little water; in fact, if they were watered when put in they will do without any more until Spring. If by accident the plants get frozen a little, do not uncover them until they and the ground in which they are planted get thawed out.

Rip Van Winkle

Has finally got awake, and finds that he has at least 125,000 Geraniums in 2 in. pots and in fine condition, and will sell at \$18.00 per 1000; composed of the following varieties: Poitevine, La Favorite, F. Perkins, Viaud, Doyle, D. Grant, Brnanti, Paetour, Brett, Nutt and several other varieties. This is to make room "Get a move on you," and get some fine stock.

Cash with order.
J. E. FELTHOUSEN,
154 VAN VRANKEN AVE., SCHENECTADY, N. Y.
Mention the Florists' Exchange when writing.

GERANIUMS

25,000 bushy, 3 in., \$4.00 per 100; \$35.00 per 1000; ready February. Strong, 2 in., \$18.00 per 100; standard varieties, 20,000 transplanted Evergreens, trees, etc. Come and see stock and get a bargain for cash. 15,000 standard, 5 in. pots, \$1.00 per 100; \$8.00 per 1000.

WM. S. HERZOG, MORRIS PLAINS, N. J.
Mention the Florists' Exchange when writing.

GERANIUMS

Ricard, Doyle, Buchner, Nutt, Poitevine, Brett, 2 in. pots, ready in January. Orders booked now at \$20.00 per 1000.

ROOTED CUTTINGS BELOW READY NOW

Fuchsias, best varieties.....	\$1.50
Double Petunias.....	1.50
Heliotropes.....	1.00
Ageratum.....	.75
Lobelia Compacta, dwarf blue.....	.60

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

GERANIUMS

Rooted Cuttings, S. A. Nutt and Buchner, \$10.00 per 1000. Cash with order.
PETER BROWN, Lancaster, Pa.
Mention the Florists' Exchange when writing.

GERANIUMS

Rooted, then grown in pots over a month. Sent free of soil. Brnanti, Buchner, Poitevine, Ricard, Perkins, Viaud, Etc., at \$16.00 per 1000. Nutt and Doyle, extra strong, \$14.00 per 1000.
COLEUS. G. Bedder and bright fancy, extra strong, 60c. per 100; Giant, grand, 80c. per 100.
GLADIOLI. Groff's mixed, 50c. per 100. CASH.
DANIEL K. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.

Chrysanthemums

STOCK PLANTS
Tasout, Nonin, White Shaw, The Baby, \$1.50 per doz., \$10.00 per 100.
Ivory, Bonnafon, Jones, white and yellow, Kalb, Mrs. Duckham, Robinson, Amorita, Smith, Helen Frick, Am. Beauty, Carrie, Godwin, crimson, Appleton, White Bonnafon, 75c. per doz., \$5.00 per 100.

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

CHARLES H. TOTT

WHOLESALE FLORIST
MADISON, N. J.

CHRYSANTHEMUM NOVELTIES A SPECIALTY
List Now Ready. Send for It.
Mention the Florists' Exchange when writing.

Chrysanthemums

JEANNE NONIN, the very finest white stock plants, \$7.00 per 100, one doz., \$1.00. Cash with order.

HUGO PLADECK - Elmhurst, N. Y.
Mention The Florists' Exchange when writing.

VEGETABLE PLANTS

CABBAGE New Early and Succession \$1.25 per 1000.
LETTUCE Grand Rapids, Big Boston, Boston Market and Tennis Ball, \$1.00 per 1000.
PARSLEY Moss Curled, \$1.25 per 1000.

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

GERANIUMS in good varieties 2 1/2 in. pots, ready March 1 1907.
WM. J. CHINNICK, Trenton, N. J.
Mention the Florists' Exchange when writing.

PLANT CULTURE
PRICE \$1.00
A. T. DE LA MARE PTG. & PUB. CO.,
2 Duane Street, New York

The Florists' Exchange

A. L. YOUNG & CO.

WHOLESALE FLORISTS
 54 WEST 28th STREET, - - - NEW YORK
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 CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL
 Mention The Florists' Exchange when writing.

REVIEW OF THE MARKET

NEW YORK.—While the retailers throughout the city report a general good business, it is evident throughout the wholesale district that there are more than enough flowers coming in to maintain the prices and there seems to be a general inclination all around toward a cheapening for all kinds and grades. It is a noticeable fact also at this time that the quality of Bride and Bridesmaid roses is away below the usual grade. The recent lack of sunshine and the muggy weather we have had, are no doubt responsible in a great measure for these conditions. While there is an occasional sale of American Beauty of the best grade at 60c. each, the majority are offered at 50c., and the same seems to be enough to supply all demands at that figure. Owing to the fact above mentioned, the values of Bride and Bridesmaid are not so firm as are those of such varieties as Killarney, Uncle John and Richmond.

Carnations are weakening in values perceptibly, and in many instances stock is falling away in quality, pink varieties particularly showing a faded appearance, brought about, no doubt, by lack of sunshine.

Lilies are keeping fairly firm in price, but the same cannot be said of lily of the valley, which is almost becoming a glut, and is freely offered at prices ranging from \$1 to \$3 per 100. The incoming of large supplies of Roman hyacinths seem always to affect the sales of lily of the valley, and as the former can be had in quantity at any price from \$1 to \$2 per 100, lily of the valley is somewhat ignored by many buyers for the time being.

Cattleyas are offered at figures ranging from 40c. to 60c., and do not go very briskly. Paper White narcissus are very plentiful, and \$2 per 100 is considered a good price for them. Tulips, in both red and white colors, are coming in fairly large numbers, many of them, however, being rather short in stem. There are still supplies of cut poinsettias and Euphorbia jacquiniflora, for which there does not seem to be much demand. Lilac is coming in more plentifully, but does not move at all satisfactorily.

PHILADELPHIA.—The market has been slow this week; all kinds of stock have been lagging, with no snap to the business. American Beauty are still held at \$9 for the very best. Tea roses are rather more plentiful; good prices are obtained for a few very choice flowers of Killarney, Bride and Bridesmaid; these have brought \$20 per 100, the general stock of teas going at from \$10 to \$12 per 100.

Carnations are more plentiful. Some extra choice Enchantress and Beacon have sold at \$3 per 100; other stock can be bought at from \$2 per 100 upward. Euloh stock sells slow. Golden Spur narcissus being the best seller at \$3 to \$10 per 100.

Cattleyas are in good supply at \$60 per 100. Gardenias are also more plentiful; \$6 per dozen is still asked, but a lower price can be given on 100 or more. All green stocks are selling slowly. Asparagus plumosus and Sprengeri are quoted at 60c. per bunch; smilax at \$15 per 100. Violets are in excess of demands; \$1.50 per 100 is asked for the best doubles and \$1 per 100 for the best large singles, but they hang at those prices. Some extra choice lily of the valley has been coming in for which \$6 per 100 is obtained. D. R.

MILWAUKEE.—Trade since Christmas has been beyond expectations. The supply of roses has decreased considerably and high prices were maintained. Carnations, however, are coming in more freely and in sufficient quantity to meet all demands. White leads the call and prices rule firm. Violets have dropped in price and are being moved slowly at \$1 per 100. The supply of stevia is shortening up and returns will double on it now until the end of the season. Paper White narcissus, Roman hyacinths, lily of the valley and French Trumpet Major narcissus are plentiful; \$2 per 100 are the prevailing prices. Dark, foggy, rainy weather continuously for almost a month now is showing its effect on the stock. Roses seem to suffer the most; weak stems and discolored flowers are much in evidence. Carnations appear soft, \$2 dozens and daffodils are coming on slowly.

Much propagating is now being done to work up a stock of bedding plants. The early frost nipped all the outdoor stock before stock plants were taken in, and a shortage is expected, especially in geraniums, coleus and vincas. P.

ST. LOUIS.—Trade for the past week has entirely subsided to its normal condition, although the uptown florists claim that the cut flower trade for New Year's was very surprising; quite a number of large orders being filled on the first day in the New Year. The weather since has been very fine and clear, and a great glut in violets and of other stock as well is looked for this week. The past week's stock of all kinds was not any too plentiful in roses and carnations. Of bulbous stock there is more than enough in the market. Quite a number of big events in the social world will take place this week, for which a lot of extra fancy stock is needed, and as stock to be plentiful there will be no trouble in filling orders of any size. Prices are down from those of a week ago. Some extra fancy stock in smaller roses can be bought for \$3 per 100 and from that down to \$2 and \$4 for seconds. American Beauty are coming in of better quality, extra long, and are selling at \$6 and \$8 per dozen and over according to length of stem.

The quality of carnations is keeping up. Prices are somewhat lower than during the holidays; \$1 and \$5 will buy extra large stock to be plentiful \$2 and \$3 for next choice. Violets are coming in fine and are too abundant for the demand. This week 25c. to 35c. per hundred for extra fine California is the price. No doubles to speak of are in this market. Bulbous stock is quite plentiful. Roman hyacinths are down to 2c., Paper White narcissus, 3c., and good lily of the valley runs from 4c.; callas, 12c. to 15c.; sweet peas, 75c. to \$1 per 100. All greens are in plenty at usual price. ST. PATRICK.

INDIANAPOLIS.—New Year's business was a surprise. For several years this holiday has been decreasing in the florist's estimation, but the one just past stands forth as an extremely busy one. There was little decorating, but the counter trade on that day nearly equaled that of Christmas. Violets, orchids and other seasonal flowers were in demand. American Beauty sold well at \$4 to \$5 per dozen. Since then miserable weather has checked all lines of trade, excepting funeral work, which has been particularly heavy. Roses are clearly showing the effects of about ten days of dark, warm weather. Bride and Bridesmaid have decreased in price to \$8 and \$10 per 100 for select stock. Richmond and Liberty are selling well at \$7 to \$15 per 100. American Beauty bring \$3 to \$5 per 100, although a large part are bulbheads. A few poor Mme. Abel Chateaux are shipped in at \$10 per 100.

Carnations, particularly red, are as scarce as they were during the holidays; \$4 to \$5 per 100 is the prevailing price for them. A limited quantity of jonquils sell on sight at \$3.50 per 100. Paper White narcissus and Roman hyacinths are plentiful at \$4 per 100. Excellent home-grown sweet peas bring \$1.50 per 100.

Plants are still selling well. Medium-sized azaleas, cyclamen and primroses are readily wholesaled at fancy figures.

Tomlinson Hall market reports a lively business, but the amount of stock brought there at present is very limited, as several of the growers retail their output at home. I. E.

BOSTON.—Business has been good the past week. There has been a brisk market for roses, but carnations and violets weakened toward the end of the week. There are not many good American Beauty to be had, consequently a comparatively high price has been maintained. Some very fine Richmond and Killarney are being brought in which realize higher prices than are general for these varieties.

Carnations are of fine quality bringing from \$2 to \$6, according to grade. Violets have dropped somewhat in price. Yellow narcissus are getting plentiful at \$4 and \$5; Paper White are abundant at \$1.50 and \$2. Lily of the valley brings from \$3 to \$5; mignonette \$3 and \$4 while fancy grades realize a little more. Lilies sell at \$1.20, but not many are in the market. Sweet peas bring \$1 and \$1.50. J. W. D.

NEW BEDFORD, MASS.—Trade since the holidays has been very good, with an active demand for cut flowers. The supply was none too plentiful. Prices were the same as at Christmas. The usual values now prevail—60c. and 60c. per dozen for carnations; roses \$1.50 and \$2 per dozen. Violets have been rather scarce lately. Some good sweet peas are now coming in; these bring \$1 per hundred.

THE METAIRIE RIDGE NURSERY COMPANY LTD.

NEW ORLEANS, LA.
GROWERS OF CHOICE CUT FLOWERS
Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.
 Mention The Florists' Exchange when writing.

LATER CHRISTMAS REPORTS

GRAND RAPIDS, MICH.—The weather preceding Christmas was very unfavorable for growing, being dark and cloudy right at Christmas; it turned cold and bright, making the wrapping of plants and their safe delivery rather burdensome. Numerous instances of both frozen plants and flowers were noted. All the florists were heavily stocked to meet the usual holiday demand, and every salable flowering plant and all cut flowers were cleaned up to the last scrap, except that a few more carnation orders could have been filled by one of the down town stores. The heaviest demand was for something red—roses, carnations, poinsettias, anything so it was red. At the last stretch nothing red, in flowers or plants of any kind, could be had for love or money. Carnations and roses were so scarce that none but original shipping orders could be filled in full; some could not be filled at all. This was especially true of late rose orders. Business showed a healthy increase in the call for flowering plants; more could have been sold if the supply had been greater. Holly, as usual, was very popular. Brown's seed store handled it in carload lots, supplying some of the florists and pretty nearly every corner grocery in town with wreathing and holly. Red bells were overdone and have fallen flat, as far as the florists are concerned; the dry goods stores handled them in quantity, retailing them at just about what the florists paid for theirs at the supply houses.

In plants poinsettias led; the three firms best stocked with these were Henry Smith, Grand Rapids Floral Company and Crabb & Hunter Floral Company. Cross had a fine lot of cyclamen, and they were his leaders. Azaleas came next and all had a good supply, as they did also of Roman hyacinths and Paper White narcissus in pans. The volume of business was, as a whole, about 20 per cent in excess of last year's. Violets were in fair supply and sold well, but as a matter of record, fewer violets were picked in this market Christmas week, than in any similar week in the past fifteen years. The violet industry here is on the wane.

Prices were: American Beauty from \$2 per dozen to \$1.50 each, other roses \$1.50 to \$2.50 per dozen; carnations, 75c. to \$1 per dozen; lilies, \$3 per dozen; violets, 35c. per bunch of 15 or 60c. for bunch of 25; Paper White narcissus, and Roman hyacinths, 75c. per dozen; poinsettias, from \$3 to \$6 per dozen. G. F. C.

COLUMBUS, OHIO.—There seem to be as many different opinions regarding the volume of Christmas business, as compared with other years as there are among the florists of the city; but the writer feels that if, on the whole, we did an average trade, we did very well under the many adverse circumstances against which we contended. In the first place the weather from start to finish could not have been worse; it rained, it snowed, and there was no sun worth counting. This would not have been so bad had the temperature been seasonably cold, but it was so warm that our streets became and stayed a nasty mess of slippery mud. Again, for some days before the holiday buying started, there was heavy incident to the whole trade that the cost price of all cut flower stock would be such that our flower sales would be limited to the regular customers. What makes a great holiday business here, is when retail prices can be made such that the general public come in and buy. But prices must be reasonable to have them do so. When American Beauty roses are at \$12 to \$20 a dozen; white roses \$2 to \$3.50, and red roses at \$3 to \$4; carnations, \$1.50 to \$2.50, Paper White narcissus, \$1, lily of the valley, \$1, by the dozen; we need never expect any large amount of outside trade.

Owing to so little sun all through December, plants were only of fair quality; and while they sold very well and at good prices, there were plenty of them left over. As regards Christmas greens of all kinds, the demand was very good in fact, I think somewhat in excess of that of previous years. But here again the supply was

ahead of the call. This was especially noticeable in Christmas trees of which there were many left over; but I noticed that many lots of this surplus stock were of especially poor quality. In regard to holly this season it went hard; it was so very poor in quality—poor color, few berries, and much of it very woody—customers found fault with it on sight and it certainly did take superhuman efforts on the part of the salesmen to get rid of the "stuff." Prices of greens were just about as in past seasons; it was especially noted that an unusual demand for laurel wreathing developed. Christmas, 1906. F. W.

SAN FRANCISCO.—Christmas day was not marked by ideal winter weather, yet shoppers refused to remain indoors and those who had not had opportunity to purchase flowers on Christmas eve crowded the flower booths on the great holiday. One veteran florist put it this way: "We had one of the biggest 'second day' Christmas sales in the history of the firm," and this, substantially, was the report from every flower store section of the city.

In a medium size city like this it is altogether remarkable that the monthly average number of union labor toilers in rebuilding the city at from \$3.50 to \$7 per day per man has been from 35,000 to 40,000. This state of affairs has been in vogue for eight months and money is abundant. Florists tell me these workmen have made a colossal record this Christmas season as free and easy buyers and that only the choicest of blossoms were good enough for them.

The florists got their prices this holiday season at one object and probably did not know they were advance prices of from 20 to 35 per cent above normal. I found no novelties, growers having had all they could do since the earthquake to get things in order to supply in abundance the ordinary run of seasonable products, having more accurately discounted the season's abnormal demand and got themselves in readiness with the adequate supplies. American Beauty roses sold at from \$5 to \$7 per dozen and teas at from \$1.75 to \$6. Chrysanthemums brought \$1 to \$2.50; carnations, 75c. and \$1.25; orchids, \$1 to \$1.60 each. Decorated crocks and vases of poinsettias sold well at 75c. and \$1, a quarter of a dollar was the usual price for small bunches of violets. Fine plants were in good demand, such as Begonia Gloire de Lorraine, azaleas and cyclamen. Lily of the valley was a good seller, also Roman hyacinths and Paper White narcissus, and many thousands of holly-decked wreaths were disposed of.

KNOXVILLE, TENN.—The weather was not propitious for any large increase in Christmas business—sharp frosts, snow and slush prevented many from shopping. All the florists, however, are quite satisfied with the business done. There was a heavy call for violets and red carnations; the supply of both was far below the demand. Carnations had the lead in cut flowers and sold at from \$1.50 to \$2 a dozen. American Beauty realized \$5 to \$10 per dozen; other roses, \$2.50 to \$4. Hyacinths, Paper White narcissus and lily of the valley sold well and were cleaned up. Cut poinsettias found a ready sale at \$12 per dozen. In pot plants azaleas took the lead and were cleaned out at good prices. Poinsettias in pots were quite a feature and were eagerly bought up. There was a brisk trade in palms and ferns. Begonia Gloire de Lorraine found few customers and seems to have had its day in this market. There was more holly on the streets than ever before; the quality was good, but much was unsold. The call for immortal wreaths was the largest ever known. H. A. Y.

DAYTON, O.—J. E. Heiss says his Christmas trade was about the same as last year. There was a very healthy demand for plants, especially azaleas, cyclamen and Gloire de Lorraine begonias. The supply of cut roses and carnations was about equal to the demand, but there was a shortage of American Beauty and violets. Poinsettias moved well, both in plants and cut. The weather was unusually unfavorable for a good supply of all cut flowers.

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Receiver and Shipper of all varieties of Cut Flowers
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Wholesale Prices of Cut Flowers, New York, Jan. 9, 1907
 Prices quoted are by the hundred unless otherwise noted

Roses	A, BEAUTY fancy-special	40.00 to 50.00	Carnations	Infr grades, all colors	2.00 to 3.00
	EXTRA	25.00 to 30.00		White	3.00 to 4.00
	No. 1	15.00 to 20.00		Pink	3.00 to 4.00
	No 2	8.00 to 12.00		Red	3.00 to 4.00
	No 3	6.00 to 8.00		Yel. & Var.	3.00 to 4.00
	Bride, Maid fancy-special	10.00 to 12.00		White	4.00 to 5.00
	extra	8.00 to 10.00		Pink	4.00 to 6.00
	No. 1	4.00 to 5.00		Red	4.00 to 6.00
	No. 2	2.00 to 3.00		standard var)	4.00 to 6.00
	Golden Gate	3.00 to 15.00		(NOVELTIES)	Yel. & Var.	4.00 to 6.00
RICHMOND	4.00 to 20.00	GARDENIAS, per doz	LILAC, per bunch	4.00 to 9.00	
Mme. Abel Chatenay	3.00 to 12.00	LILIES	1.00 to 1.50		
ADLANTUM	.50 to 1.00	LILY OF THE VALLEY	1.00 to 3.00		
CROWEANUM	1.00 to 1.50	MIJONNETTE	2.00 to 6.00		
ASPARAGUS	25.00 to 50.00	NARCISSUS, Paper White	1.00 to 2.00		
Fluorous bunches	8.00 to 15.00	Yellow	2.00 to 4.00		
Sprengerl, bunches	8.00 to 15.00	ROMAN HYACINTHS	1.00 to 2.00		
CALLAS	16.00 to 15.00	SMILAX	8.00 to 12.00		
CATELEYAS	40.00 to 80.00	TULIPS	2.00 to 3.00		
CYPRIPEDJUMS	12.00 to 15.00	VIOLETS	.60 to 1.00		
DAISIES	1.00 to 3.00				

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ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING
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CATTLEYAS, the finest in the country, \$60.00 per 100
GARDENIAS, \$6.00 per doz., in lots of 100 or more \$35.00 per 100
WHITE LILAC, \$1.00 per bunch

BEAUTIES IN QUANTITY Open from 7 a. m. to 8. p. m.

Cattleyas
White Orchids
Wild Smilax \$5.00 per case

THE LEO NIESSEN COMPANY, 1217 Arch Street, PHILADELPHIA, PA.

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RHINEBECK VIOLETS
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Valley, American Beauties, Brides and Maids; Sprengeri, Asparagus Plumosus, Carnations and Violets, all reasonable flowers.

Large stock of Stevia on hand, can supply you at lowest market prices at short notice. Telephone and telegraph when you need cut flowers to

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Wholesale Prices of Cut Flowers-Per 100

Table with columns for Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburgh, St. Louis. Rows list various flower types and prices per 100.

PHILADELPHIA CUT FLOWER CO.

Wholesale Florists
1516-18 SANSON STREET
High Grade Cut Flowers
Open Evenings until 8

NEW LONDON, CONN.—Christmas trade was slightly better than last year's. In cut flowers carnations led, as usual; roses also sold unusually well. Everything in cut flowers sold out clean and the supply of carnations was not nearly equal to the demand. A much larger business could have been handled if more carnations had been obtainable, as many orders were turned away. The quality was the best ever handled. Carnations sold for \$1 and \$1.25 per dozen as against 75c and \$1 last year. Choice roses brought \$2.50 per dozen—same as last year. Sweet peas were in unusually fine condition and sold out clean at 25c per dozen.

In plants the Begonia Gloire de Lorraine easily led. They were in superb condition in 5 and 6 inch pots and sold for \$1, \$1.50 and \$2 each. Araucarias also went well. Flowering plants, such as 'primroses, cyclamen and azaleas, were decidedly late in blooming, but those that were in sold well. The weather was very cloudy for some time before Christmas and that made a decided shortage in the cut.—EDWARD A. SMITH.

POUGHKEEPSIE, N. Y.—Christmas trade this year was very good, as everybody had money to spend, and they are more and more every year giving flowers and plants as gifts. Among the plants the best sellers were a number of pans of growing poinsettias with from 8 to 10 plants in each and a foot or a foot and a half in height. We put a number of these in brass jardinières and the combination sold very well. A lot of small hanging baskets lined with zinc pans were filled with moss and then finished off with choice sprays of holly, a bell, and plenty of ribbon; these sold as fast as we could make them up and brought good prices. Flowers were very scarce, but our retail prices remained the same as last year's. W. G. SALTFOED.

YORK, PA.—Christmas business was 15 per cent. better than that of former years. Plants sold very well, as did baskets made up of blooming plants, ferns, etc. Cut flowers were somewhat scarce and higher in price than in former years; and they did not sell as well. C. E. S.

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COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
 White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00
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Boston.

News Notes.

There was a large attendance at the inaugural meeting of the Massachusetts Horticultural Society on Saturday. General Stephen M. Weld, the new president of the society, was introduced by Mr. Hunnewell, one of the vice-presidents.

Reports by the chairmen of the various committees were read. J. K. M. L. Farquhar, for the committee on exhibitions, gave a review of the different shows during the year; A. H. Fewkes, for the committee on plants and flowers, told of the number of prizes that had been awarded. The reports of Wilfred Wheeler on fruits, and Warren W. Rawson on vegetables, were also read, as well as that on children's gardens by H. S. Adams, the chairman of the committee.

The program of lectures and discussions for the Winter season of the Massachusetts Horticultural Society has been issued as follows, the meetings to be held at 11 a. m., at Horticultural Hall:

January 12—The Iris and its Culture, by J. Woodward Manning, Reading.

January 19—Peach-growing Possibilities of New England, by A. A. Hixon, Worcester.

January 26—The Collecting of Orchids, by John E. Lager, Summit, N. J.
 February 2—The Renovation of an Old Orchard, by Geo. T. Powell, New York.

February 9—The Home Vegetable Garden, by John W. Duncan, Jamaica Plain.

February 19—Certain uses of the School Garden, by Miss Anne Wittington, Boston.

February 23—Forestry from a Commercial Standpoint, by Prof. F. Wm. Rane, Boston.

March 2—Planting for Streets and Waysides, by John A. Pettigrew, Boston.

March 9—Some Bacterial Diseases in Plants; Their Nature and Treatment, by Professor H. H. Whetzel, Ithaca, N. Y.

March 30—Gardens of Italy, with Stereopticon Illustrations, by J. K. M. L. Farquhar, Boston.

At the meeting of the board of trustees of the Massachusetts Horticultural Society on Saturday, the resignation of the treasurer, C. E. Richardson, who has held the office for many years, was presented. Walter Hunnewell was appointed treasurer, and W. P. Rich was appointed secretary, librarian and superintendent of the building.

The Boston contingent to the meeting of the American Carnation Society at Toronto, will leave Boston about 4:30 on the afternoon of the 22nd inst. The fare from Boston, on the certificate plan, is \$16.50, and all intending going should not fail to get certificates at the starting point. Full particulars may be had by writing to William Nicholson, Framingham, Mass.

The next meeting of the Gardeners and Florists' Club will be on the 15th inst. It is Ladies' Night and special attractions are on the program. Make an endeavor to be present and bring your lady friends along. By the decision of several judges of the municipal courts last week, florists were held exempt from the Sunday bane laws, which are being so strictly enforced by the present Police Commissioner. This was welcome news to many last Sunday, who delivered their orders as formerly.

Phil. Hauswirth, Chicago, secretary of the S. A. F. O. H., was in town this week on business for the society.

J. W. DUNCAN.

Passaic, N. J.

Mr. McAllister the florist was run into by a trolley, and his wagon wrecked. Mr. McAllister was bruised considerably, but is recovering from his injuries.

W. L. Hundertmark closed his flower store on Monday and filed a voluntary petition in bankruptcy.

ALLIANCE, O.—A recent fire in the greenhouse establishment of George Kiser did damage to the extent of about \$200.

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 WESTERN HEADQUARTERS FOR
DOUBLE AND SINGLE VIOLETS
 Valley, Carnations and Roses
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 Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers, Chicago, Jan. 8, 1907
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ROSES		CARNATIONS	
American Beauty		STANDARD	
36-inch stems.....per doz.	6.00 to 8.00	White.....	2.00 to 4.00
30-inch stems.....	4.00 to 5.00	Pink.....	3.00 to 4.00
24-inch stems.....	4.00 to 3.00	Red.....	2.00 to 4.00
20-inch stems.....	2.00 to 2.00	Yellow & var....	2.00 to 4.00
18-inch stems.....	1.50 to 1.50	*FANCY White.....	4.00 to 6.00
12-inch stems.....	1.00 to 1.00	(The high- set grades) Pink.....	4.00 to 6.00
8-inch stems and shorts "	to .75	of stand var.) Red.....	4.00 to 6.00
Bride Maid, fancy specials.....	10.00 to 15.00	Yellow & var....	4.00 to 6.00
" extra.....	8.00 to 10.00	NOVELTIES.....	to 1.00
" No. 1.....	to 6.00	ADIANTHUM.....	.75 to 1.00
" No. 2.....	4.00 to 5.00	ASPARAGUS Plum. & Ten.....	.35 to .50
Golden Gate.....	12.00 to 15.00	" Sprenger, bunches.....	.35 to .50
Uncle John.....	5.00 to 10.00	LILIES, Longiflorum.....	to 20.00
Liberty.....	6.00 to 15.00	FLORIBUNDA.....	to 20.00
Richmond.....	6.00 to 15.00	Orchids—Ostleyas.....	50.00 to 75.00
Killarney.....	8.00 to 12.00	SMILAX.....	10.00 to 15.00
" extra.....	15.00 to 20.00	LILY OF THE VALLEY.....	2.00 to 5.00
Perle.....	5.00 to 10.00	VIOLETS.....	.75 to 1.00
Onatany.....	5.00 to 12.00	" single.....	to 1.00
Callas.....	to 16.00	HARDY FERNS per 1000.....	to 2.00
HYACINTHS, Roman.....	2.00 to 4.00	GALAX.....	1.00 to 1.25
MIGNONETTE.....	3.00 to 5.00	NARCISUS, Paper White.....	2.00 to 4.00
	to	SWEET PEAS.....	to 1.50

J. A. BUDLONG
 37-39 Randolph Street, CHICAGO.
 Wholesale CUT FLOWERS
 Roses and Carnations A Specialty....
 GROWER OF
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 and FLORISTS' SUPPLIES
 Manufacturers of WIRE DESIGNS
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 Phone, Main 574. P. O. Box 103

NEW BEDFORD, MASS.—Christmas trade was a record-breaker in this section. Everything was sold out clean. The sale of evergreen wreaths was away beyond last year's record; most of those sold brought from \$1 upward. Some good holly was seen, well berried and with good foliage. There was a good supply of Christmas trees which sold at from 25c. to \$2 or \$3. Nothing in the way of novelties was offered in the plant line. Well-grown azaleas, cyclamen, primroses, ferns and palms found ready sale and brought good prices. This branch of the business exceeded last year's volume. The cut flower trade was a hummer, with the demand far ahead of the supply. The week previous to Christmas being so dull and cloudy curtailed the cut a great deal. Prices ranged from 75c. to \$1.50 per dozen for carnations; for roses from \$2 to \$3 per dozen. Violets and sweet peas were also on the market. Prospects for New Year's trade seem bright, with prices holding firm as stock is very scarce.

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 and FLORISTS' SUPPLIES
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 MILWAUKEE, WIS.

Be your own Commission Man
 THE
FLOWER GROWERS' MARKET
 furnishes the facilities
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J. B. DEAMUD CO.
 Wholesale Cut Flowers
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 Consignments Solicited

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 All telegraph and telephone orders given prompt attention.
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All Leading Varieties of
 Roses and Carnations
PETER REINBERG
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 Headquarters for American Beauty Rose
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 Careful attention to all
SHIPPING ORDERS.
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SOUTHERN WILD SMILAX

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in any
quantity }

Book orders now for future delivery. **Beavon's Fadeless Sheet Moss**, \$3.50 per bag, delivered. Send for samples. Also **Fancy Holly** for Xmas trade. Satisfaction guaranteed. Write for prices.

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EVERGREEN, ALA.

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Introducer of the Wild Smilax

Wild Smilax \$2.50 Per Case

The only place where you can **always** get it. Long Needle Pines, \$1.00 per doz.; Palm Crowns, \$2.50 per doz.; extra nice long stemmed Palmetto leaves, \$2.50 per 100; Magnolia, \$2.50 16 cubic ft. cases. Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000

SPEED A SPECIALTY

Write for Catalogue

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HEADQUARTERS FOR HARDY CUT GREENS AND FLORIST'S SUPPLIES



Fancy & Dagger Ferns. Fine Quality \$1.50 per 1000.
New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.
Southern Wild Smilax \$3.50 and \$7.00 per case.
Laurel Festooning, good and full, 5c. and 6c. per yard.
Branch Laurel, 50c. per bundle.
Leucothoe Sprays, \$1.00 per 100.
Sphagnum Moss, 50c. per bag; five bags \$2.00.
Green Moss, \$1.00 per bbl.



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes, cut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

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Mention the Florists' Exchange when writing.

EXTRA FINE NEW CROP FANCY FERN

\$1.50 per 1000. Discount on large orders. **GALAX**, per 1000, \$1.25. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE

WILLIAM DILGER, Manager.

Let us have your standing order for Ferns; we will make Price right all through the season.

38 & 40 Broadway. Formerly **DETROIT, MICH.** Miami Ave.

Send for our weekly price list on Cut Flowers.

Mention The Florists' Exchange when writing.

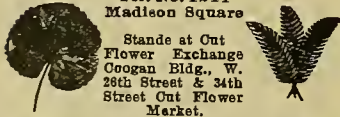
REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of **FLORIST'S SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

N. LECAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214
Madison Square



Stands at Cut Flower Exchange Coogan Bldg., W. 28th Street & 34th Street Cut Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Leucothoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves

BRILLIANT

Galax and Leucothoe SPRAYS

Wholesale Trade Solicited

J. L. BANNER & CO., Montezuma, N. C.

HOW TO GROW MUSHROOMS

Price, . . . 10 cents.

A. T. De La Mare Ptg. & Pub. Co.

2-8 Duane St. New York.

HARDY CUT FERNS



Fancy or Dagger. \$1.25 per 1000.
SPHAGNUM MOSS, 50c. per bbl.
LAUREL ROPING 5c. per yard.

On two days notice I am obliged to raise the price of my ferns, as a large lot of them have spoiled and have to be sorted over. All orders by mail or dispatch promptly attended to.
THOMAS COLLINS, Hinsdale, Mass.

Mention the Florists' Exchange when writing.

Southern Smilax

If you want SMILAX, and you want to get it when you want it, send your orders to **JAS. TOMLINSON - Newton, Ala**

Mention the Florists' Exchange when writing.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, BERLIN, N. Y.

Samples free. For sale by dealers.

Mention the Florists' Exchange when writing.

BOXES BOXES BOXES

Light Wood Cut Flower Boxes

Sizes in Stock

	Per 100
3 x 4 x 20	\$ 4 00
3 x 5 x 24	4 50
3 x 7 x 21	4 50
6 x 6 x 24	6 80
4 x 12 x 24	9 00
6 x 12 x 24	10 50
6 x 12 x 30	12 50
5 x 12 x 36	14 00
6 x 12 x 36	15 00
6 x 15 x 42	20 00
6 x 15 x 48	23 00

Write for samples. Special prices on Car lots.

GETMORE BOX FACTORY Inc. BELLEVILLE, ALA.

Mention The Florists' Exchange when writing.

THE BEST WAY

to collect an account is to place it with the

National Florists' Board of Trade 56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

Mention the Florists' Exchange when writing.

WHOLESALE GALAX and LEUCOTHOE

Direct from the woods to the dealer.
Galax Green and Bronze \$0.50 per 1000
Leucothoe Sprays (green only) \$2.00 per 1000
Ferns (dagger and fancy) 70c. per 1000
Special prices on lots of 100,000 and up.
Terms strictly cash, F. O. B. Elk Park, N. C.

F. W. Richards & Co., Banners Elk, N. C.

Mention the Florists' Exchange when writing.

GALAX LEAVES

New crop; fresh from the patch; prices as follows:
Bronze and Green Galax Leaves \$0.50 per 1000
Fancy and Dagger Ferns 1.00 per 100
Green Leucothoe Sprays 2.50 per 1000
Bronze " " 5.00 per 1000
Rhododendron Sprays 3.00 per 1000
Kalmia or Mountain Laurel 3.00 per 1000
Also Rhododendron Plants which will grow.
10 to 15 inches, 10c. each; 20 to 25 inches, 15c.; 30 to 40 inches, 25c.; 50 to 60 inches, 40c. Discount on large orders. Fourteen years' experience enables me to guarantee perfect satisfaction. 250 customers now in U. S. Send cash with first order.

J. N. PRITCHARD, Elk Park, N. C.

Mention the Florists' Exchange when writing.



Mention the Florists' Exchange when writing.

Pittsburg.

The Week's News.

Trade conditions so far as the new year is concerned, were satisfactory. New Year's Day was observed with many delightful entertainments and large receptions. The old time custom of keeping "open house" has been revived somewhat, and many families were at home throughout the afternoon. The ordinary trade in cut flowers for the holiday was about as usual, and prices were perhaps a little lower than for Christmas. Stock was of good quality.

The weather is peculiarly Spring-like—the thermometer in the sixties, and plenty of rain. If this condition should continue much longer great harm will be done to vegetation.

M. Foss, whose greenhouses are in the suburbs of Allegheny, suffered a loss of about \$1,000, through carelessness of an employee neglecting the fire; stock was frozen during the holiday cold spell.

Mrs. Heid, mother of Oscar Heid, the Allegheny market florist, died last week.

Erhardt & Schwartz furnished the decorations for the Concordia Club's ball on New Year's night, which were quite elaborate.

The smoker to be held by the Florists' Club this month has been somewhat delayed on account of several members of the committee being too busy to give the matter much attention; but all will likely be arranged for a near date and invitations sent out.

The Pittsburg Rose and Carnation Company is still buying more property adjoining its farms in Bakers town; the last purchase was 28 acres of land.

P. S. Randolph of Randolph & McClements has sold the property on South Highland avenue, on which their store room is located, for \$100,000. Mr. Randolph bought the property about fifteen years ago for \$6,500, and five years ago offered it for \$50,000, but could find no purchaser. Randolph & McClements have bought the business of the late C. Siebert, the East End florist, including the large greenhouse on Stanton avenue, and the lease on the buildings at Baum street, which are well arranged, with store room and conservatories. The plot is fairly large and not entirely built up, and the firm having a long lease will erect more buildings and remove their store to that location within the year.

The South View Floral Company has been sending in some stock of good quality from its new plant on the South Side Hills, and the stockholders are well satisfied with the results of the new enterprise which is managed by Ernst Fischer, the well-known plant grower.

E. C. REINEMAN.

Kalamazoo, Mich.

Retrospective.

Summing up the business of the last year, the chief points noted are: a general increase in the volume of trade, probably due to good times and a larger population; prices on pot plants and bedding stock averaged as usual, but on cut flowers values were lower at times, which will reduce the average somewhat compared with previous years. Working expenses show an increase, owing to advances on labor, material, etc. Some rebuilding and improvements were done, but no practical increase of the glass area in this vicinity is noted. The florists in general express themselves satisfied with the past year's business, and are expecting to do better yet in the future. New Year's trade was as good as expected, although no great rush was needed to supply all wants.

S. B.

VIOLET CULTURE

Price, \$1 50 Postpaid

A. T. De La Mare Ptg. & Co. Ltd., New York

Chicago.

Trade Notes.

The report is received that the carnation rooted cutting demand is far ahead of any previous year at such an early date.

T. E. Waters, who has spent the past two years in Minneapolis and Chicago with retail houses, opened the year by entering the employ of Vaughan & Sperry, thus returning to his old line, he having been at different times for upwards of a decade connected with the leading wholesale houses in Boston.

The report which was carried on New Year's night that the lumber houses on Blackhawk and Hawthorn and Wood streets was burning up was considerably exaggerated. The five-story structure filled with inflammable material, occupied by the Chicago Linoleum Company and in close proximity to the huge lumber piles, was destroyed, and it was only by the strenuous exertions of the large section of the fire department that the report was not fulfilled, as the lumber was several times on fire.

At the Chicago Rose Company's headquarters John Ziska in charge of the cut flower department reports a more than fair receipt of goods of excellent quality which sell readily at good prices.

Peter Reinberg's sales department is to be congratulated on having had for the past few weeks an exceedingly large supply of short to medium length American Beauty roses, of which good generous shipments are still being received, particularly from the block of houses east of Robey street.

The J. A. Budlong establishment is still showing an A1 special cut of Bride and Bridesmaid roses from their grafted stock. It is reported that other concerns will go into grafted teas this year on more than an experimental scale, as manetti stock is arriving in lots up to fifty thousands.

The Benthay-Coatsworth Company is receiving a good cut of roses of very satisfactory quality.

Emerson Coatsworth who was re-elected Mayor of Toronto on New Year's day, and who will doubtless participate in the reception of the American Carnation Society, is a cousin of L. Coatsworth of this city.

C. S. Grant, who has recently managed Frank William's State street Store, has returned to Small's New York store with which he was formerly connected.

Chas. Balluff has been slightly incapacitated for the past week owing to the spraining of his wrist, caused by the giving way of a ladder at the Eaton Flower shop.

It does not seem probable, from what is said, that the delegation from Chicago to Toronto will be a large one.

H. E. Philpot of the Chicago Floral Company of Winnipeg, Manitoba, arrived here Sunday morning. He reports that they had a very satisfactory Christmas business and that his company has moved into more commodious quarters nearer the city.

E. Becker of Becker & Jackson, at whose establishment many of the florists have held their suppers and reunions, dropped dead after midnight of the opening of the New Year.

Vaughan & Sperry continue their past success in violets both single and double, and are now receiving an especially fine line of lily of the valley, as well as other general supplies.

W. H. Edwards of Hinsdale, Ill., has posts set for two houses, to be erected in the Spring, the products principally to be devoted to local trade.

A. L. Randall offers a fine exhibition of Easter ideas, and Miss Toner reports that important features are still to arrive.

Henry Payne of Hinsdale has completed a commodious propagating house and is going largely into carnation cuttings; though he will continue to grow asparagus, he will discontinue adiantum and his other specialties in this line.

C. L. Washburn is spending a few days recuperating at West Baden.

George Weldon, who for many

Tobacco Paper "NICO-FUME" LIQUID

Is the
**STRONGEST,
BEST PACKED,
EASIEST APPLIED**

24 sheets . . . \$0.75
144 sheets . . . 3.50
288 sheets . . . 6.50
1728 sheets . . . 35.10

**Furnishes the Most
Nicotine for the Money!**

Mfgd. by THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

Over 40% Nicotine
By far the
CHEAPEST.

Just Note Prices!

Plat \$1.50
½ Gallon 5.50
Gallon 10.50
5 Gallons 47.25

Mention the Florists' Exchange when writing.



The Whilldin Pottery Co. STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.



years has been known around the market as "Geo. Darby" met with an accident in a collision with a street car, which necessitated his removal to the Cook County hospital.

J. E. Kranz of Muscatine, Iowa, was a recent visitor, as was John Willius of Denver, Col.

WM. K. WOOD.

Philadelphia.

News Notes.

Starting Tuesday, January 8, the Florists' Gun Club will begin a series of five shoots at the Wissinoming grounds for a handsome and valuable trophy donated to the club by a big manufacturing concern. The conditions of the shoots are that a series of five are to be held on the second and fourth Tuesday of each month. Each gunner is to shoot at fifty targets, handicap rise, with the use of both barrels. The scores of three shoots only will be used in making up the winning total. Any member attending more than three shoots may select his three best scores. All contestants will start at a 16-yard rise, and will be handicapped by their own score, the handicap changing on each twenty-five targets.

Business has been quiet this week. During the early days of the week there were very few social affairs going on, except one or two dinners before the opera on Tuesday evening. The private hall of James W. Paul, Jr., will be given at Horticultural Hall; the decorations are by Habermehl's. This ball will also make a lot of dinner table decorations for that evening.

Victor Groshens, for many years manager of the Hugh Graham Company nurseries at Logan, has given up that position, with the view of building a plant of his own. He has been succeeded as manager, by George Hoelph, who has his second man at Logan.

The Johnson Seed Company reports a very good business; orders for flower seeds are coming in very satisfactorily. The new catalogue goes out this week; it was made up on the same lines as those of the old Johnson & Stokes catalogue, thereby retaining the firm's identity with customers.

Alex. B. Scott has gone South for a few weeks to recuperate; he finds this necessary after the severe attack of bronchitis he went through.

The finance committee of the Florists' Club, for the S. A. F. convention, met on Tuesday, and organized by electing Chas. D. Ball, chairman; J. Wm. Colfesh, treasurer, and Edwin Lonsdale, secretary.

DAVID RUST.



**THE BEST
Bug Killer and
Bloom Saver**

For PROOF
Write to

P. R. PALETHORPE CO.
LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

**Pure Kiln
Dried Ground Sheep Manure**
Put up in packages expressly for retail purposes
Write for prices

Pure Culture Mushroom Spawn
Best that is made—Write for Book
F. A. Bolles, Coney Island Ave. & Ave. L,
Brooklyn, N. Y.
Mention The Florists' Exchange when writing.

IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.
Mention the Florists' Exchange when writing.

Sheep Manure
Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.
Mention the Florists' Exchange when writing.

FREE HOSE

trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our price on Guaranteed wrought iron pipe. Send for Free catalogue "Ray" Boilers, Ventilating apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY COMPANY,
244 Fulton Street, - - New York City

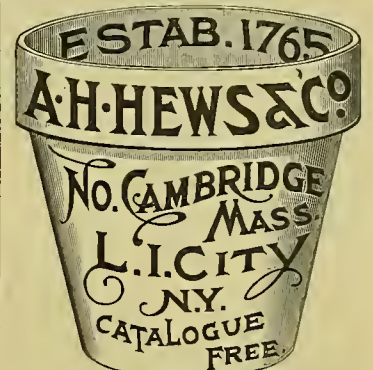
Mention the Florists' Exchange when writing.

PLANT CULTURE

Price, - - - \$1.00.

A. T. De la Mare Ptg. & Pub. Co.

2-8 Duane St. New York.



Mention the Florists' Exchange when writing.



Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle
Price per crate Price per crate
1600 2 in. pots in crate, \$4.20 120 7 in. pots in crate, \$4.20
1500 2 1/4 " " " 6.25 60 8 " " " 8.00
1500 2 1/2 " " " 6.40 HAND MADE
1000 3 " " " 5.30 48 9 in. pots in crate, \$3.80
800 3 1/2 " " " 4.80 48 10 " " " 4.80
500 4 " " " 4.50 24 11 " " " 5.50
320 5 " " " 4.51 24 12 " " " 4.80
144 8 " " " 3.16 6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.
Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Roiker & Sons, Agts., 81 Barclay St., N. Y. City

Mention the Florists' Exchange when writing.

Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.
GEORGE RIPPERGER,

LONG ISLAND CITY, N. Y.

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THE WIDE HOUSE IS NO LONGER A THEORY

for we have proven to the progressive florists that the trifling amount saved on the wood framed house, over our iron frame construction, is swallowed up many times in repair expenses. That the wide house is cheaper to erect, easier to work, heat and ventilate than narrow houses. Let us prove these things up to you in a most conclusive manner by what has proven to others, and you'll have pleasant dealings.

HITCHINGS & COMPANY

GREENHOUSE DESIGNERS AND BUILDERS

Manufacturers of Heating and Ventilating Apparatus

1170 BROADWAY, NEW YORK



Mention the Florists' Exchange when writing.

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS. IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS

DILLER, CASKEY & CO.

Successors to JENNINGS BROS.

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

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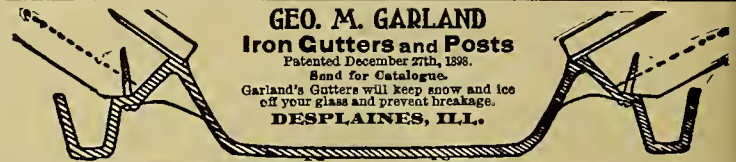
GEO. M. GARLAND
Iron Gutters and Posts

Patented December 27th, 1898.

Send for Catalogue.

Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.

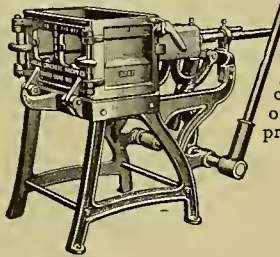
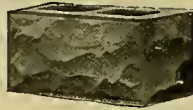


A sample of this gutter is on exhibition at Chicago Flower Growers' Market.

Mention The Florists' Exchange when writing.

FROST-PROOF ECONOMY

With the Ideal Concrete Machine you can yourself make these blocks from sand, gravel and cement at little cost—far below the cost of brick, stone or lumber. Ideal Blocks not only give frost protection, but are absolutely fire-proof, and effect a perpetual saving in insurance.



IDEAL Concrete Machines

May be operated by any man without previous experience. The process of making blocks is simple as making mortar. Blocks for every building purpose, with plain, tooled, ornamental face or natural stone effect made with the same machine. Simple, durable and adaptable to any size block within capacity.

Our catalogue will show you how to secure frost protection and fuel economy, as well as initial saving over cost of other materials. Write for it and it is freely yours.

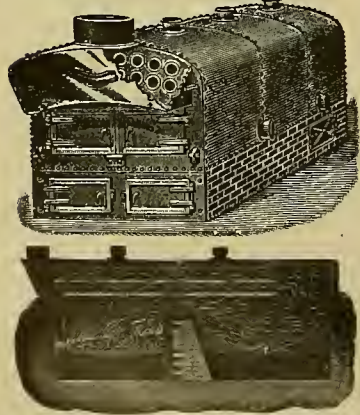
IDEAL CONCRETE MACHINERY CO., Dept. Z. South Bend, Ind.

W. H. C. MUSSEN & CO., Montreal, Canada, Sole Agents for Canada.

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KROESCHELL BROS. CO. IMPROVED Greenhouse Boiler

33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information. Mention the Florists' Exchange when writing.

For Greenhouses, Graperies, Hot beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.

GLASS

N. COWEN'S SON,
14 & 16 Wooster Street, NEW YORK

Mention the Florists' Exchange when writing.

Holds Glass
Firmly
See the Point at
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

Mention the Florists' Exchange when writing.

GREENHOUSE GLASS

10x12
10x14
10x15
10x16
12x12
12x14
12x16
12x18
14x18
14x20
14x24
16x18
16x20
16x24

C. S. WEBER & Co.,
10 Desbrosses St., New York

Mention the Florists' Exchange when writing.

TILE DRAINED LAND IS MORE PRODUCTIVE
Earliest and easiest worked. Carries off surplus water; admits air to the soil. Increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Encaustic Side Walk Tile, etc. Write for what you want and prices. JOHN H. JACKSON, 50 Third Ave., Albany, N.Y.



New Orleans, La.

News Notes.

Christmas trade in this city was satisfactory. Flowers were scarce and rather high in price. There was also a shortage of Christmas trees; for two or three days before Christmas there was not a tree to be had for love or money. This was caused by one dealer who heretofore at Christmas always brought in a carload, but who this year neglected to do so, consequently many an old Arbor vitae and various other shrubs did duty as Christmas trees.

At the last meeting of the New Orleans Horticultural Society it was decided to hold a chrysanthemum show in 1907. The secretary of the society, C. R. Panter, would be pleased to receive from secretaries of other societies prospectuses and prize schedules of shows so as to see what is done in other cities.

E. G. Hill, Richmond, Ind., spent a few days in this city recently.

The first killing frost of the season appeared on December 23, which put an end for the time to all outdoor flowers.

Jas. A. Newsham of the Nashville avenue rose gardens has just replaced one of his boilers with another of larger capacity.

CRESCENT CITY.

WINONA, MINN. — Fuhlbruegge Brothers, who operate a greenhouse plant on East Fifth street in this city, opened the ew twice tat of the — opened the new year with a capacity of nearly twice that of the beginning of the year just closed. During the past few months they have been making extensive improvements at their greenhouses and the business they are doing now is almost double that of a year ago. Three new greenhouses were erected, giving them a total of seven houses and 23,000 square feet of glass. One of the new houses is 24 x 100 feet in size, one 12 x 100 feet and the other 8 x 100 feet. The total cost of the improvements will not be less than \$4,000, and it is their intention to do more along this line during the present year.

St. Paul.

News Notes.

L. L. May Company had the McCormick-Ferguson wedding, Thursday, December 27, which was one of the nicest decorations so far this season. Color effects to harmonize with the colors of each room were used. The stairways were profusely trimmed with wild smilax, poinsettias being interspersed, which produced a beautiful effect. The work was done by J. W. Hoffman, manager of their retail department.

E. F. Lemke has still some very fine chrysanthemums. The demand for them, however, is light; they appear to be out of season, and customers do not take well to them.

Thos. Cashman, proprietor of the Clinton Falls Nursery Company, Owatonna, Minn., called recently. He said he was well pleased with his Christmas trade in the cut flower line, and was fortunate in having his roses all in crop for that occasion.

H. Krinke has been confined to his bed for the last three weeks, but is reported as improving. PAUL.

Milwaukee, Wis.

News Items.

The Florists' Club had a well attended meeting Thursday evening last. The newly elected officers were installed. Lunch and refreshments were served.

The mild weather has been kind to the coal pile, and perhaps this saving to the grower will make up for the loss in the shortage of stock.

N'o Zweifel will probably be the only Milwaukeean attending the American Carnation Society's show at Toronto.

Ed. Winterson, Phil. Hauswirth and George Asmus spent New Year's day in Milwaukee. P.

KNOXVILLE, TENN.—A. N. Crouch has just put in his store a steel ceiling with electric lights all around which gives a most charming effect.

C. Baum is cutting some good carnations, his Enchantress being the best. H. Y.



YOU don't have to bother painting the interior of U-Bar Greenhouses every year or so. U-Bar Greenhouses are the best greenhouses built because the interior finish is aluminum and it's a finish that lasts. It's just as light as the day it was put on five years ago in the first house we tried it in. Not a speck of mildew to be seen. It's just the kind of house that fills the gardener and the owner with merited pride. Send for U-Bar Catalog. Pierson U-Bar Co., Designers and Builders of U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23d St., New York.

Mention the Florists' Exchange when writing.

The STANDARD VENTILATING MACHINERY

The original machine with self oiling cups; the most powerful, least complicated very compact, with ease of operation.

The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market.

The standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION
Price, \$3.50
A. T. DE LA MARE PTG. & PUB. CO. LTD.
2-8 Duane Street, New York

THE BEST SERVICE

Our facilities for handling orders are better than those of any other manufacturer in this line and we can assure you of prompt delivery. However a

QUICK SHIPMENT IS NOT ALL

there is to good service---the material must be made right---it must be made of the right kind of cypress and it must be inspected before shipment by an expert. We do not ship too quick to make the material right.

JOHN C. MONINGER CO.,
115 E. Blackhawk St., CHICAGO

Mention the Florists' Exchange when writing.

In Your New Houses



You surely wish to combine all approved new features of construction with the best grade of material at reasonable prices.

Write us for Estimates and Suggestions
THEY WILL INTEREST YOU.

Louisiana Cypress and Washington Red Cedar **GREENHOUSE MATERIAL**
A. DIETSCH CO.
615 Sheffield Ave., Chicago, Ill.

Mention The Florists' Exchange when writing.

ARE YOU GOING TO BUILD

Assure yourself of **HONEST COMPETITION** figures by obtaining an estimate from me on Iron Frame or Sash bar greenhouses. My prices are the lowest for the best class of work.

FRANK VAN ASSCHE
(FORMERLY SUPT. FOR WEATHERED)
FACTORY: Fulton and Rose Ave., Jersey City, N. J.

Mention the Florists' Exchange when writing.



SUN DRIED
CYPRESS
GREENHOUSE MATERIAL

IS THE BEST.
WRITE
FOLEY MFG. Co.
471 W. 22ND ST.
- CHICAGO -
FOR FREE CATALOGUE
"VENTILATING APPARATUS, FITTINGS, HOT-BED SASH. WE MAKE SKETCHES AND ESTIMATES -"

If you are having delay in getting your roof material, send your orders to us and don't be in trouble. We will handle any order in the time agreed. Try us.

FOLEY MANUFACTURING COMPANY
471 W. 22nd St., Chicago

Mention the Florists' Exchange when writing.

PLANT CULTURE
PRICE, \$1.00.
The best book for the plant grower.
A. T. DE LA MARE PTG. & PUBCO. LTD.

GOING TO Build a Greenhouse?

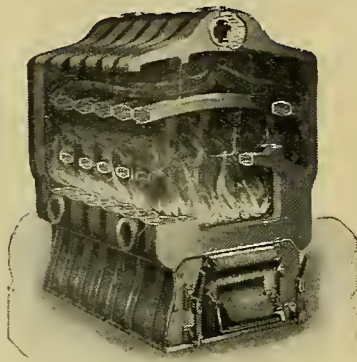
Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.

The A. T. STEARNS LUMBER CO.
Boston, Mass.



WHOLESALE TRADE LIST

ASPARAGUS PLUMOSUS, 2½ inch pots, \$3.00 per 100.
 ASPARAGUS SPRENGERI, 2 in. pots, \$2.00 per 100.
 BOSTON FERNS, 5 in. pots, 20c. 6 in. pots, 25c.
 CLEMATIS PANICULATA, 4 in. pots, \$1.50 per doz., \$10.00 per 100; 3 in. pots, 75c. per doz.; \$5.00 per 100.
 DRACÆNA INDIVISA, 5 in. pots, \$2.00 per doz.
 HYDRANGEA Thos. Hogg, 5 to 8 buds, \$10.00 per 100; larger plants for tubs, 25c. each.
 IVY, Hardy English, 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
 NEW DAISY, Queen Alexandra, 3 in. pots, \$5.00 per 100. 2½ in. pots, \$3.00 per 100.
 YELLOW DAISY (Etoile d'Or), 3 in. pots, \$5.00 per 100. 2½ in. pots, \$3.00 per 100.
 SANSEVIERA (Zebra plant), 4 in. pots, strong, \$1.50 per doz.; 3 in. pots, \$1.00 per doz.
 SMILAX 2½ inch pots \$2.00 per 100.
C. EISELE, 11th & Roy Streets, PHILADELPHIA, PA.
 Mention the Florists' Exchange when writing.



"THE BEST INVESTMENT I EVER MADE"

is the verdict of one of the largest rose growers who placed two of these GREENHOUSE BOILERS instead of two others of well known make.
 Estimates furnished for heating plants erected complete, or for material only.

JOHN A. PAYNE

Horticultural Architect and Builder
 33 Clendenny Ave., Jersey City, N. J.
 Sash opening apparatus and all kinds of greenhouse structural material.

WEATHERED COMPANY

Builders of Iron and Cypress Greenhouses
 Greenhouse Heating and Ventilating Apparatus.
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 New York City.**

SUMMER IN WINTER

BY USING
 Standard Greenhouse Boilers
 One cent gets our catalogue.
GIBLIN & CO., UTICA, N. Y.

STANDARD Pumping Engines

Now is the time to provide for pumping the water you will have to use next summer.
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Evans Improved Challenge

Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
 Write for catalogue and prices before placing your orders elsewhere.
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SAVE TIME AND MONEY
 OUR GULF CYPRESS

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 LET US ESTIMATE ON YOUR HEATING, VENTILATING APPARATUS, HOT-BED SASH
 Putty--**GREENHOUSE GLASS**--Points
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The wooden post is a costly case of weakness at the very point it should be strongest. Get our cast iron foot pieces and save money and get them now.

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 Greenhouse Designers and Manufacturers.
 1133 Broadway, corner 26th St., NEW YORK.
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 ARE BEST
 For Green House heating. Standard Cast Iron Green House Pipe and Fittings.
 We are Headquarters for all sizes wrought iron pipe and fittings.
 It will pay you to get our special quotation. We also contract for and erect Steam and Hot Water Heating apparatus in all parts of the country.
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EASTER BASKETS
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THE FLORISTS' EXCHANGE

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

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

Vol XXIII. No. 3

NEW YORK AND CHICAGO, JANUARY 19, 1907

One Dollar Per Year

WHAT A FEW OF OUR CUSTOMERS SAY ABOUT THE

Winsor Carnation Cuttings

THAT WE ARE SHIPPING

We Have Still to Receive the First Complaint

"Winsor arrived in splendid condition, and we do not hesitate to say that it is the finest lot of cuttings we have ever received of any novelty, and it is a pleasure to receive such stock."

JENSEN & DEKEMA, Chicago, Ill.

"The rooted cuttings of Winsor arrived Saturday night—but they are as fresh as can be. I do not think I will loose any. You do your packing almost to perfection, and you deserve credit for it."

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P. CLAUSEN, & SON, Albert Lea, Minn.

"The Winsor cuttings were very fine. Thanks for the extra hundred."

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"Winsor came in fine shape, and entirely satisfactory."

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See our full page advertisement in this number, for list of the carnation cuttings that we are offering

DO NOT FAIL TO COME TO TORONTO!

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.
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We are now booking orders for early delivery of

GRAFTED AND OWN ROOT ROSE PLANTS
BRIDE, BRIDESMAID, KAISERIN, CARNOT,
WELLESLEY, LIBERTY, KILLARNEY
and RICHMOND

SEND FOR PRICES

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Asparagus Plumosus Nanus

Northern Greenhouse Grown

Large Plump Freshly Picked Seed
Sure to Grow

Per 1000 seeds \$4.50

Per 250 seeds \$1.25

WRITE FOR PRICES ON QUANTITY

Fresh Flower Seeds for Florists

See Adv. last issue or send for list

SPIREA to Close Out

Per 100 in N.Y.

Astilboides Floribunda.....	\$4.00
Compacta Multiflora.....	4.00
Blondin (Extra).....	5.00
Superba.....	5.00

TUBEROUS BEGONIA Finest Strain

Single white, scarlet pink, salmon, yellow, etc.....	.40	2.50	22.50
Single mixed.....	.30	2.25	20.00
Double mixed, scarlet, Salmon, Pink, Yellow, Etc.,	.65	4.75	45.00
Double mixed.....	.50	4.00	37.50
GLOXINIA			
Finest named kinds.....	.50	4.00	
Mixed kinds.....	.40	3.50	

Vaughan's Seed Store

14 BARCLAY ST.
NEW YORK

CHICAGO, 84-86 Randolph Street. Greenhouses, Western Springs, Ill.

GERANIUMS

Ready for Immediate Shipment from 2 in. pots.

Alliance

1905 introduction. A cross between an ivy and a zonal. A beautiful shade of lilac white, blotched with crimson rose. Excellent habit for vase or pot plants.

25 cts. each. \$2.50 per doz. \$20.00 per 100.

Caesar Franck

1905 introduction. Double ivy, magnificent shade of soft crimson; splendid habit.

25 cts. each. \$2.50 per doz. \$20.00 per 100

Fleuve Blanc

A pure white semi-double, and a perfect type of the Brunt race.

\$1.50 per doz. \$10.00 per 100.

SPECIAL OFFER FOR ONE WEEK:

We will send 1000, 100 each of the following for \$20.00, cash with order; or 500, 50 each, for \$10.00.

DOUBLE DRYDEN, E. H. TREGO, EL CID,
MAR. DE MONTMORT, COMTESSE DE HARCOURT,
CENTAURE, PETER HENDERSON, MME. CHARLOTTE,
MME. BARNEY, MME. LANDRY.

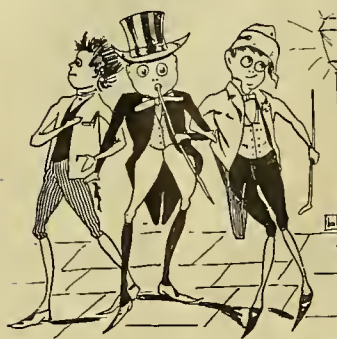
Do not ask us to send less than 500 or broken assortments at this price. Standard and New varieties from \$2.00 per 100 up. Send for our Special Geranium Catalogue.

A cordial invitation is extended to all interested in Horticulture to visit us. Cowenton Station, Philadelphia division, B. & O. R. R. 12 miles north of Baltimore.

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

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NEW SEED



- Asparagus Plumosus Nanus..... 1000 seeds \$4.50
 - Sprengeri..... 1000 seeds 75c.
 - Begonia Varion, fine strain..... trade pkt. 25c.
 - Bellis Perennis, double..... trade pkt. 25c.
 - Candytuft Empress..... per oz. 25c.
 - Centaurea Gymnolepis..... per oz. 35c.
 - Golden Feather, dwarf selected..... per oz. 40c.
 - Lobelia, Crystal Palace Compact, true, trade pkt. 25c.
 - Petunia Grandiflora, extra choice single mixed, trade pkt. \$1.00.
 - Petunia Grandiflora, superb fringed mixed, trade pkt. \$1.00.
 - Salvia Bonifire..... per oz. \$2.50
- Stocks, Ten Week, dwarf, large flowering, mixed, trade pkt. 25c.

BEGONIAS & GLOXINIAS

- | | | |
|---------------------------------|--------|--------|
| Single separate colors..... | Doz. | 100 |
| mixed colors..... | \$0 40 | \$2 50 |
| Double separate colors..... | 30 | 2 25 |
| mixed..... | 65 | 5 00 |
| Gloxinias, separate colors..... | 50 | 4 00 |
| mixed..... | 45 | 3 00 |

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

FOR IMMEDIATE SOWING

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| Salvia Splendens Grandiflora..... 1-8 oz. Oz. | Salvia Splendens Maroon Prince..... 1-8 oz. Oz. |
| Compacts..... \$0.25 \$1.80 | Fire Ball..... \$0.75 5.00 |
| Bonfire..... 40 2.50 | Silverpot..... 75 5.00 |
| Lord Fauntleroy..... 75 4.00 | |

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SALVIA ZURICH. Per original Pkt. 25c.

This Salvia is fully two weeks earlier than "Fireball" and is very compact. Excellent for a potplant and for forcing. Retains its flowers for a long time. One of the best novelties of this season. Our Seeds are absolutely fresh and of high germination.



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5 UNION STREET, BOSTON, MASS.

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109 MARKET STREET
SAN FRANCISCO, CAL.

Specialties:

Onion, Carrot, Lettuce, Sweet Peas



Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.

New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

J. M. THORBURN & CO.
33 Barclay St., through to 38
Park Place, New York.

ASPARAGUS PLUMOSUS NANUS
(Greenhouse Grown)
FINE PLUMP SEED

\$5.00 per 1000
ESTABLISHED 1824

Bridgeman's Seed Warehouse

Rickards Bros., Props.
37 EAST 19TH ST. Near Broadway
NEW YORK CITY
Telephone: 4235 Greenwich

TREE SEEDS

Send to-day for our
Trade Price List and nur-
Illustrated, Descriptive Catalogue
Otto Katzenstein & Co., Atlanta, Ga

Mention the Florists' Exchange when writing.

SHAMROCK

Strong and fine plants. Better order early.
\$4.00 per 100, or 80c per doz., by mail.

XXX SEEDS

- Verbena. Improved mammoth, the very finest fringed varieties, mixed; single and double. 500 seeds, \$1.00; half pkt. 60c.
 - Fancy, Finest Giants. The best large-flowering varieties, critically selected; mixed. 5000 seeds, \$1.00; half pkt. 60c. Mad. Perritgrais, 25c.
 - Alyseum Compactum. The most dwarf and compact variety grown; perfect little balls when grown in pots, finest to be had. 1000 seeds, 25c.
 - Chinese Primrose. Finest large-flowering fringed varieties, mixed; single and double. 500 seeds, \$1.00; half pkt. 60c.
 - Fancy, Finest Giants. The best large-flowering varieties, critically selected; mixed. 5000 seeds, \$1.00; half pkt. 60c. Mad. Perritgrais, 25c.
 - Petunia. New Star; from the finest marked flowers, extra choice. Trade pkt. 25c.
 - Cyclamen Gigantum. Finest giants, mixed 200 seeds, \$1.00; 1/2 pkt. 50c.
 - Salvia "Bonifire." Finest variety grown, brilliant scarlet and compact. 1000 seeds, 40c.
- CASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.,
The Home of Primroses

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THE JENNINGS STRAIN
25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, ready to bloom, \$1.00 per 100; \$7.50 per 1000; by express only. Second size, strong plants, 100 by mail, 60c; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

E. B. JENNINGS,
Lock Box 254 Southport, Conn.
Grower of the Finest Pansies

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The American Carnation Price \$3.50
A.T. De La Mare Ptg. & Pub. Co., 2 Duane St., New York

ENGLISH MANETTI STOCKS

We have about 5000 extra selected English grown Manetti stocks to offer.
Per 1000, \$11.00. Per 5000, \$50.00

STUMPP & WALTER CO. 50 Barclay St., N. Y.

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DREER'S SUPERB DOUBLE PETUNIAS



For nearly half a century we have been making a specialty of DOUBLE PETUNIAS and our strain is accepted as second to none, either here or in Europe. We annually plant many thousand seedlings from which only the finest double fringed forms are selected for propagating purposes, thus improving the strain every season, and this year's collection is the brightest and most pleasing one we have yet sent out. We offer fifteen distinct varieties.

3 inch pots..... 75cts. per doz.; \$6.00 per 100; the set of 15 for \$1.00
5 inch pots..... 60cts. 4.00
10 inch pots..... 50cts. 3.75

Seed of Our Superb Strain of Fringed Petunias. Double, 75cts. per 500 seeds; \$1.50 per 1000 seeds. Single, 50cts. per trade packet. Our Quarterly Wholesale List offers a full line of reasonable Plants, Seeds and Bulbs.

HENRY A. DREER, - Philadelphia, Pa.

TRUE STOCK
Aquilegia Coerulea

Rocky Mountain Columbine

From the Rockies

SEED—1 oz. \$1.00; 1 lb., \$3.50; 1 h. \$12.00 by mail.

ROOTS—4 and 5 year old, doz. \$1.25; 100 \$3.00, by express.

Order from headquarters.

THE BARTELDES SEED CO., DENVER, COLO.

W. & D.'s Specialties for Forcing

Mignonette "New York Market"
Sweet Peas "True" Christmas Flowering (Pink and White)
Tomato "The Don" Tomato "Stirling Castle"
Mushroom Spewer "Eggplant" and "Pure Culture"
Send for 1907 Catalogue.

WEEBER & DON, Seed Merchants
114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

Sow Now The True Thing!

Ageratum, Blue Star, the best of all for pots. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.

Alyseum, Carpet Queen, fine extra dwarf strain. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.

Begonia, Etruria, for pots the best rosy pink. 8 Trade Pkts. \$1.25; Trade Pkt. 25c.

Begonia, Gracilis Luminosa, a fine Bedder, new with large bright scarlet flowers and bell-shaped habit, unexcelled for pots and floors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.

Cyclamen, Giant flower, separate colors. 1000 seeds, \$6.00; Trade Pkt. \$1.00.

Petunia, Rosy Morn, a fine hedder. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.

Petunia, Californian single Giants, extra strain. 6 Trade Pkts. \$1.00; Trade Pkt. 75c.

Petunia, double fringed Giants. 6 Trade Pkts. \$5.00; Trade Pkt. \$1.00.

Phlox, New Caedly, the very best large flowered, real dwarf, compact. Drum Phlox for pots, mixed colors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.

Salvia, Bonifire. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.

Salvia, Fireball, this is a new, real dwarf compact early flowering, fine variety and there is hardly a better one for pots. 8 Trade Pkts. \$2.50; Trade Pkt. 50c.

Verbena, Mammoth unexcelled strains; as Auricula flowered, Scarlet, striped, Pink, Purple, White, each separate. Oz. \$1.50; Trade Pkt. 25c.

For larger quantities special quotations.
O. V. ZANGEN, Seedsman, Hoboken, N. J.

Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS

ALYSSEUM, Carpet of Snow, extra	Trade Pkt. Oz.
ANTIRRHINUM, Tom Thumb	150 50c
Mixed	150 75c
ANTIRRHINUM, Giant flowering	150 60c
Mixed	150 60c
ASTERA, Queen of the Market.	20c 60c
Pure White, Rose Dark Blue.	20c 60c
ASTERS Finest Mixed.	20c 60c
CANDYTUFT, Empress, Pure	100 25c
White.	100 25c
CANDYTUFT, White Rocket.	100 25c
CENTAUREA.	
Margaritas, White for cutting.	15c 75c
Imperialis, White	80c 1.00
PHLOX, Drummondii, Nans	36c 1.50
SALVIA, Fire ball, dwarfest	26c 60c
STOCKS, Large flowering dwarf	6c 3.00
dbl. 10 Weeks Light Blue Bright	6c 3.00
Rose, Pure White.	6c 2.60
STOCKS Finest Mixed.	25c 1.25
VERBENA, Mammoth Choice	
Mixed.	

M. H. BRUNJES & SON,
SEEDSMEN.
1581 Myrtle Ave., Brooklyn, N. Y.

Asparagus Plumosus Nanus

Greenhouse grown, 100 seeds, 60c.; \$2.75 for 500 seeds; 1000 seeds, \$5.00; \$23.75 for 5000 seeds.

Please don't compare this with cheap outdoor grown seed which is inferior and offered at tempting prices.

Verbena, Mammoth Fancy Strain, in separate colors, blue, pink, scarlet, striped and white, 30c. per trade pkt.; per oz. \$1.50.

Mammoth Fancy Mixed of all colors, 30c. per trade pkt.; per oz. \$1.50.

Vinca—Carefully selected from choice plants. Trade pkt. Oz. Alba, white with rose center.....20c 60c
Alba Pars, pure white.....20c 60c
Rosea, pink.....20c 60c
Mixed, all colors.....15c 50c

Send for our combined order sheet and price list of Florists' Flower Seeds

HENRY F. MICHELL CO.
1018 Market St. Philadelphia, Pa.

High-Grade Lily of the Valley Pips

NO BETTER QUALITY OFFERED TO THE TRADE

Selected Hamburg, for forcing..... \$1.25 per 100; \$10.00 per 1000; \$25.00 per case, (2500 Pips)
 Johnson's selected Berlin, unsurpassed 1.50 14.00 27.00 (2000 Pips)

Tuberous-Rooted Begonia Bulbs, SPLENDID BULBS

	Per doz.	Per 100	Per 1000
Single, separate colors, Scarlet, Crimson, Rose, White and Orange.....	\$0.40	\$2.50	\$23.00
Single, choice mixed.....	.35	2.25	22.00
Double, separate colors same as above.....	.60	4.25	34.00
Double, choice mixed.....	.50	4.00	34.00

Giant-Flowering Gloxinias, EXCEPTIONAL QUALITY

	Per doz.	Per 100
Separate colors. Spotted Red, White, Blue, Red with White Border and Blue with White Border.....	\$0.50	\$3.50
Choice mixed.....	.45	3.25

See our Flower Seed offer in last week's Exchange. Send for our New Florists' Catalogue

JOHNSON SEED CO., 217 Market Street, PHILADELPHIA, PA.

Herbert W. Johnson, of the late firm of Johnson & Stokes, President

Mention The Florists' Exchange when writing

ASPARAGUS PLUMOSUS NANUS SEED

True sort—Greenhouse grown—best germination
 100 50c., 1,000 \$3.50., 5,000 \$16.50

ALL OTHER SEASONABLE SEEDS FRESH

Watch our add in Ornation number January 26th

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

Mention The Florists' Exchange when writing.

EXTRA CHOICE FLOWER SEEDS

List free on application.

FRED. ROEMER, Seed Grower, Quedlinburg Germany.

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BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit

Mention The Florists' Exchange when writing.

C. C. MORSE & COMPANY

SEED GROWERS

171-173 Clay St. SAN FRANCISCO, CAL.

OUR SPECIALTIES: Onion, Lettuce, Sweet Peas

Also Carrot, Celery, Celeriac, Cucumber, Endive, Leek, Mustard, Parsley, Parsnip, Radish, Salsif, Spinach, Tomato and FLOWER SEEDS

Growers for the trade on Contract. Warehouses at Santa Clara; Farms and Farm Headquarters, Carnadero, near Gilroy.

Registered Cable Address: MORSEED, SAN FRANCISCO

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ARTHUR COWEE, GLADIOLUS SPECIALIST

MEADOWVALE FARM, BERLIN, N. Y.

United States Representative and Grower of GROFF'S HYBRIDS, MIXTURES and COLLECTIONS to color. Fine Mixtures of all colors. Named Novelties of rare beauty. WRITE FOR CATALOG.

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GLADIOLI

For Forcing

All stock guaranteed to be as represented

	100	1000
America, flesh pink.....	\$10.00	\$75.00
Shakespeare, libt.....	5.00	40.00
Naxinscutt, red.....	3.50	30.00
White and Light, mix good.....	1.50	12.00
extra.....	3.00	25.00
	250	at 1000 rate.

3 per cent discount for cash with order.

JOHN LEWIS CHILDS, Floral Park, N. Y.

Mention The Florists' Exchange when writing.

JOHN SCHEEPERS & CO.

2, 4 and 6 OLD SLIP

NEW YORK CITY

It pays you and us to handle ONLY the very best bulbs, plants, palms, Azaleas, Bay trees, Roses, Excellent, Valley, etc. Of everything we handle the very best. Try us and ask for free book with cultural instructions.

Mention The Florists' Exchange when writing.

GREGORY'S SEEDS

If you have never planted them, try them this year. They never disappoint—they grow—they yield. Always sold under three guarantees, insuring freshness, purity and reliability. For this reason, thousands of farmers, gardeners and planters, both in the United States and Canada, plant Gregory's Seeds exclusively. Our new Catalogue contains many suggestions and directions—the fruit of fifty years' experience in the seed business.

J. J. H. Gregory & Son, Marblehead, Mass.

Mention The Florists' Exchange when writing

ASPARAGUS SEED

1906 CROP

Plumosus Nanus, True.....	100	1000
Sprengeri.....	50c.	\$3.50
Cycas Revoluta Seed.....	15c.	.75
		\$2.50 22.50

Headquarters for all the best flower seeds. 100-page seed buyer's guide free.

MOORE & SIMON, Seed Growers, 339 Market St., Philadelphia

Mention The Florists' Exchange when writing.

A. J. Pieters Seed Company

HOLLISTER, CAL.

GROWERS OF

Vegetable and Flower Seeds

Special attention paid to selected Stocks
 A. J. PIETERS, President and Manager.
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S. M. ISBELL & CO.

JACKSON, MICH.

Seed Growers for the Trade
BEANS, CUCUMBER, TOMATO, Radish, Peas, Muskmelon, Squash, Watermelon, Sweet Corn.
 CORRESPONDENCE SOLICITED

Write for Prices on Surplus Stocks for Immediate Shipment.

Mention The Florists' Exchange when writing.

SPRENGERI SEED

1906 CROP

10c. per 100; 60c. per 1000. Cash with order please.

F. J. BAKER & CO., UTICA, N. Y.
 Mention The Florists' Exchange when writing.

LAST OFFER

Superfine Single Mixed TULIPS

\$.60 : : per 100
 4.50 : : " 1000

Single Mixed Hyacinths, Freesia Paper White Narcissus

PRICES ON APPLICATION

JAMES VICK'S SONS
 ROCHESTER, N. Y.

Mention The Florists' Exchange when writing.

MANETTI STOCKS

Now ready at \$8.50 per 1000.

ELIZABETH NURSERY CO., ELIZABETH, N. J.
 Mention The Florists' Exchange when writing.

ASTER EARLY Branching

Invincible, the finest aster, and freer of disease than any so far; per oz., \$2.50. Queen of the Market, in separate colors, per oz., \$1.00. This aster seed comes from M. A. Graveoran, who has no disease in his crops. All other seeds at market prices. Sample free on application.
BEAULIEU, Woodhaven, N. Y.

Mention The Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
 Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

During the year 1906 ginseng to the value of \$1,175,800 was exported to Hong Kong, China, from the United States.

IMPORTS OF SEEDS, ETC.—January 9, 1907—Maltus & Ware, 7 cases bulbs; Wells, Fargo & Company, one box bulbs, two crates bulbs.

The following imports of seeds, with their values, are reported for week ending January 5, 1907:

	Packages	Value
Anise.....	.....36	\$471
Canary.....	.....734	1494
Cardamom.....	.....2	71
Castor.....	.....3064	16386
Clover.....	.....650	13719
Coriander.....	.....306	915
Cummin.....	.....6	191
Fennel.....	.....15	178
Grass.....	.....465	11177
Mustard.....	.....309	2623
Rape.....	.....19	53
Sugar beet.....	.....706	6550
Other.....	.....	3582

A TEXAS VIEW OF FREE SEEDS.—The South Texas Fruit and Truck Growers' Association at a recent meeting resolved that the association should thank the Texas representatives in Congress for past favors in the way of free seeds, but assure them these favors were mistaken kindnesses on their part; that they condemn the practice of free distribution of garden seeds as an economic waste, wholly unjustifiable; that "in the future we will not accept from the government free garden seeds; and that we urge our representatives as a favor, which we will appreciate, to vote against the bill appropriating funds for the distributing of free garden seeds, and to use their influence to have the amount thus saved appropriated to the experiment stations of the country."

The South Texas Fruit and Truck Growers' Association consists of affiliated local associations throughout South Texas and the gulf coast country, comprising a membership of more than 1,300.

HUNTSVILLE, ALA.—The scarcity of cotton seed has caused all of the cotton oil mills of this city to close down temporarily. The seed crop was very short in this section, and even the limited supply available is not received with regularity because of the shortage of cars.

You Want This ASTER SEED!

Mention The Florists' Exchange when writing.

No novelties, grown specially for my growers, best commercial sorts, Branching White, Blue, Shell Pink, 25 cents a trade packet, 60 cents ¼ oz.

Ostrich Plume, 50 cents a trade packet, 75 cents ¼ oz.

GEORGE B. HART Wholesale Florist, 24-28 Stone Street, ROCHESTER, N. Y.

The Florists' Exchange

FLOWER SEEDS

ASTER. Queen of the Market. The best variety for early blooming. Trade Pkt. Oz.

Dark Blue	20	.60
Light Blue	20	.60
Pink	20	.60
Scarlet	20	.60
White	20	.60
Mixed	20	.60

PHLOX. Choice New Crop. Trade Pkt. Oz.

Drummond Dwarf Mixed	40	1.25
Grandiflora Tall Mixed	29	.50

For a complete list of Phlox see our wholesale list.

PETUNIA. Selected from large well colored flowers which can be depended upon. Trade Pkt. Oz.

Single Giants of California	30	.50
In mixture	30	.50
"Dwarf Intimistic in mixture for pots"	30	.50
"Grandiflora fringed in mixture	30	.50

Our wholesale catalogue contains a full variety of Petunias.

WRITE FOR OUR SPECIAL HANDY COMBINATION ORDER SHEET AND CATALOGUE OF FLOWER SEEDS.

HENRY F. MICHELL CO.
1018 MARKET ST., PHILA.

APPLYING THE NURSERY INSPECTION LAW TO BULBS.—A local paper of Fort Smith, Ark., in a recent issue states: "A new ruling by the State Entomologist this past Fall has proven a radical departure from the past customs of the department, and not a little inconvenience to many importers in the State. The ruling is that the nursery inspection laws shall be extended to cover certain bulbs, which, under the new ruling, cannot be imported into the State unless the packages containing them bear the stamp of the inspector."

In reply to an inquiry, a Chicago importing house wrote: "We are familiar with the inspection laws of the various States; the law of Arkansas differs in no degree from the rest; yet such a ruling as the one in question by the entomologist of Arkansas has no parallel in this country. "This Fall we imported from Holland a cargo of bulbs which were rigidly inspected and were shipped by us into a score of States. The portion which were shipped to Arkansas and stopped by the railroads, on the order of the entomologist, were the only shipments in any way questioned. If the recent ruling is enforced the importation of such bulbs into Arkansas will be driven out of the hands of the importers of that State into the mail and express lines directly to mail order patrons."

BURBANK TO ISSUE A BOOK.—The world, says the New York Sun, is to get a set of volumes clearly defining from a scientific standpoint Luther Burbank's work in the creation of new fruits and flowers. For many years Burbank has been getting requests from all over the world for such a work, and he has at last consented to stand sponsor for it. It will be issued under his authority. There will be ten volumes, and in them Burbank hopes to furnish a complete description of his labors, which will do away with thousands of queries he is asked to answer each year.

BOSTON.—W. W. Rawson and Company have installed an electric sign on the corner of their store building which flashes "Rawson's Seeds." This is the first seed house in this city to adopt this method of advertising. This firm has just leased an additional four acres of land at Marblehead for the cultivation of dahlias, their list of which includes over 375 varieties.

Thos. Howarth, for several years with T. J. Grey & Company, is now with R. J. Farquhar & Company. Peter Miller, recently with Jos. Breck & Sons, is expected to arrive from Scotland next week where he has been visiting for several weeks past. On his return he will join the



Tomato, Sparks' Earliana. Stokes' special strain. This is not to be compared with the sort usually offered. Per oz. 40c, 1-1 lb. \$1.25, 1 lb. \$4.00.
Rhubarb, for forcing. Whole clumps that have been frozen and are just ready for business. Per doz. \$2.00, 100 \$20.00, 1000 \$100.00.
Five-Year Old Asparagus, for forcing. Very profitable. Same price as Rhubarb.

Stokes' Seed Store

219 MARKET ST., PHILADELPHIA.

Mention the Florists' Exchange when writing.

establishment of T. J. Grey & Company.

A. Watkins of New York and George Miller of Newark, Ohio, are now on the staff of W. W. Rawson & Company. Invitations are out for a dinner party to be given by W. W. Rawson to his friends, at the Vendome on the 23rd inst. to celebrate his sixtieth birthday anniversary.

J. W. D. GENERAL APPRAISERS' HEARINGS DURING 1907.—The Treasury Department has issued the following circular:

In accordance with T. D. 27097, dated February 8, 1906, appointing fixed calendar dates for the hearing of customs appeals at the ports outside of the port of New York, the hereinafter-mentioned dates at the hereinafter-mentioned ports are hereby fixed and designated for the year 1907. In all respects not herein expressly or by necessary implication modified, said T. D. 27097 is continued in full force and effect.

Baltimore (office of the appraiser): January 12, February 9, March 13, April 13, May 11, June 3, July 13, September 14, October 12, November 9, and December 14.

Boston (office of the appraiser): January 18, February 18, March 15, April 19, May 17, June 21, July 19, September 20, October 18, November 15, and December 20.

Chicago (office of the appraiser): February 6, March 6, April 3, June 5, July 3, September 4, November 6, and December 4.

Los Angeles (office of the collector): February 26, June 25, and November 23.

New Orleans (office of the appraiser): April 9 and September 11.

Philadelphia (office of the appraiser): January 11, February 8, March 8, April 12, May 10, June 7, July 12, September 13, October 11, November 8, and December 12.

Portland, Ore. (office of the appraiser): February 15, June 14, and November 13.

St. Louis (office of the surveyor), April 6 and September 7.

St. Paul (office of the collector): February 9, June 8, and November 9.

San Francisco (office of the appraiser): February 20, June 19, and November 18.

Seattle (office of the appraiser): February 13, June 12, and November 11.

European Notes.

A few miniature blizzards are still raging locally in various parts of Europe, but on the whole the snow has cleared away and left the land exposed to the rather severe frosts which continue. As the sun has practically no power at present, the danger to plant life from alternate frost and thaw is absent, and it hardly seems possible that any serious injury has been the result up to the present.

The close of the Christmas holidays, and the cessation of the press of holiday traffic has liberated consignments of seeds from southern ports that had been wellnigh given up as lost. It seems incredible that goods should be two months on the way between Naples and London, but such is the case; in fact, a shipment of early flowering bulbs which left Naples in July was more than ten weeks on the road. The results of these delays must be very disastrous to the Italian seed growers.

As the culture of green beans for market in the south of France has, in

CHOICE VEGETABLE SEEDS FOR FORCING

"STOKES' STANDARDS."

Are Simply the Cream of the Lists. You can't get better value.

Cucumber, Perfection Hot-House Forcing. Repeated selections of green, upright White Spine. Per oz. 50c, 1-1 lb. \$1.50, 1 lb. \$5.00.
Cauliflower, "Stokes' Standard." The very earliest in existence, close-growing, compact, perfect snow-white heads. Per pkt. 25c, 1/2 oz. \$2.50, 1-1 lb. \$7.50.
Lettuce, Stokes' Big Boston. A splendid strain of this very popular greenhouse lettuce. Per oz. 15c, 1-1 lb. 40c, 1 lb. \$1.25.
Lettuce, Stokes' Grand Rapids. A fine forcing strain, the true underground sort. Per oz. 15c, 1-1 lb. 40c, 1 lb. \$1.10.
Radish, Stokes' Scarlet Globe Forcing. The true 18 to 20 day sort, with small top and of a deep scarlet color. Per oz. 10c, 1-1 lb. 25c, 1 lb. 75c.
Radish, Stokes' White Marble. 18 to 25 day sort, snow-white, crisp and tender. Per oz. 10c, 1-1 lb. 25c, 1 lb. 75c.

This is not to be compared with the sort usually offered. Per oz. 40c, 1-1 lb. \$1.25, 1 lb. \$4.00.

Stokes' Seed Store

219 MARKET ST., PHILADELPHIA.

Mention the Florists' Exchange when writing.

a measure, superseded the culture of seeds we shall soon have to seek "fresh fields and pastures new" for crops that are associated with this highly favored district.

The brisk demand for peas from your side is very welcome, and as our samples are on the whole good, and the conditions at the time of reguering were extremely favorable, they can hardly fail to give satisfaction, and will, we hope, lead to the revival of a trade that had almost died out. Owing to lack of plants for other crops, and the very excellent yield obtained last season, there is every probability that a larger acreage than usual of the large wrinkled marrow varieties will be planted in England this year.

Market seeds are receiving attention now that the New Year has opened. White clover is said to be good and abundant. Red clover is the same so far as England is concerned, but the keen competition among buyers for shipment to your side has opened the eyes of the farmers, and a rise of from 3 to 5 shillings per hundredweight is the result. Rape has again moved upward and is now quoted at an advance of 25 cents per 100 pounds, really good samples easily bring over higher prices. The probabilities are that as sowing time comes round, a further considerable rise is certain. Thousand-headed kale, which has been suggested as a substitute, is now fetching double the money it realized two years ago. The scarcity of sheep feed will prevent any surplus of this article being thrown on the market next season.

EUROPEAN SEEDS.

CATALOGUES RECEIVED.

FLETCHER & HARRISON, Cleveland, Tenn.—Surplus List of One-year Peach and Two-year Apple.

SCHLEGEL & FOTTLER COMPANY, Boston, Mass.—Illustrated Catalogue of Seeds, Bulbs and Plants, with list of Specialties. The firm says: "Our new salesroom on the street floor has proved to be a decided attraction and our business has largely increased since we leased the entire building 26 and 27 South Market street. No more critical and exacting class of trade can be found than that of the market-gardeners and florists around Boston, and to them annually we have sold large quantities of seed for many years."

JOHNSON SEED COMPANY, Philadelphia, Pa.—Garden and Farm Manual, 1907, being a Catalogue of Vegetable and Flower Seeds, Bulbs, Supplies, etc. A long list of Novelties and Specialties among them Dreamwood Muskmelon, Longkeeping Prizetaker Onion and Jack Rose Tomato, which form the cover designs. The catalogue is profusely illustrated, many of the pictures being half-tone cuts from photographs from life. Also Wholesale Catalogue for Winter and Spring 1906-7.

WEEBER & DON, New York.—Catalogue of Garden, Farm, and Flower Seeds, etc. A profusely illustrated catalogue with a well selected list of Novelties and Specialties including the Don Tomato, extra early for forcing, Brussels Sprouts Brechin Castle, Turnip White Model, etc., in vegetables, and the best of the new things in flowers. The standard offerings are, as usual, complete and comprehensive. The cover designs, taken from photographs, show results from the use of the firm's "Central Park" Lawn Grass Seed, and "Sure Crop" Mushroom Spawn.

IDEAL CONCRETE MACHINERY COMPANY, South Bend, Ind.—Catalogue concerning Concrete Machinery for its manufacture, etc. A very complete and interesting publication. Illustrated Copies can be secured by remitting 25c. to the firm named.

JOHN LEWIS CHILDS, Floral Park, N. Y.—Illustrated Catalogue of Flowers, Vegetables and Plants. Special attention is directed to Novelties in Early-flowering Garden Pinks, Burbank's New Shasta Daisies, and Nicotiana Sandera hybrids. A specialty of this firm is Phenix Rebeccah. The offers listed are complete and comprehensive. This is the firm's 33rd edition of its catalogue. To meet increasing patronage the concern has established a bulb and seed growing park in California, and another bulb and seed farm on Long Island (Childsville, 600 acres), the gardens now aggregating nearly 1000 acres.

WM. ELLIOTT & SONS, New York.—Catalogue of Seeds, Bulbs, Plants, Supplies, etc., with an interesting List of Novelties and Specialties, the former including Sweet Peas, Norway Turnip, Mrs. Alfred Watkins, Frank Dolby, E. J. Castle, Impatiens, Holstii hybrids, Ricinus panormitanus, Chrysanthemum carinatum, Northern Star, etc. The lists of standard offerings, are, as usual, very complete. The present is the firm's sixth and annual catalogue. It is profusely illustrated, and the cover designs are most attractive, the front one being that of a Japanese garden scene, in color, with pretty maidens viewing a patch of iris, the back cover design being formed of Phlox Drummondii grandiflora Sunbeams in color.

W. W. RAWSON & COMPANY, Boston, Mass.—Catalogue of Seeds, Bulbs, Plants, Supplies, etc. This catalogue is of more than ordinary interest inasmuch as it has been produced under difficulties which do not often confront catalogue-makers. After the disastrous fire of last Spring the firm was left without an illustration of any kind, and had to procure everyone of the pictures used in the catalogue, which are all halftones taken from photographs. The results is a most attractive catalogue, profusely and artistically illustrated—a credit to the firm's enterprise and pluck. Many Novelties are presented; also excellent planting tables for Flowers and Vegetables. The new Shasta Daisies have been selected as a cover design.

PETER HENDERSON & COMPANY, New York.—Everything for the Garden; a beautiful and handsomely gotten-up catalogue, maintaining well the high artistic standard of its predecessors. The "garden beautiful;" and the "garden beautiful;" are portrayed by charming rare and native illustrations on a white background with embossed lettering in gold. The offerings of Seeds, Bulbs, Plants, Supplies, etc., show their customary completeness and comprehensiveness, while the lists of Novelties and Specialties are full and interesting. The pages of the catalogue are profusely and attractively illustrated, among those in color being Ponderosa tomato; the Henderson collection of new Sweet Peas, showing the latest novelties; "the Delightful" collection of Ever-blooming Roses, including Cardinale, Triumph, and Van Dupuy and others; and the "Imperial Japanese" collection of Chrysanthemums. A complete index adds value to the catalogue, which is well worthy of perusal.

HENRY A. DREER, Philadelphia, Pa.—The Garden Book for 1907. An indication of the wonderful growth of this well-known house's business is afforded by the statement that the annual catalogue of the concern has grown from a four page leaflet in 1838 into a handsome and instructive book of 224 pages, in 1907, the latter containing, as the firm says, "what is undoubtedly the most complete offering of horticultural needs under one cover in any country." This year a change has been made in the arrangement of the book by placing the Novelties and Specialties directly in front of the General List of each year, instead of tacked on together as heretofore. These are numbered in every line and well deserving of the attention of every progressive florist and gardener. The cover designs, always beautiful, are, we think, more charming than ever before. The front one shows a reproduction of spikes of Salvia Bonfire and Gysophilis elegantis alba grandiflora embossed in natural colors; the back cover design representing flowers of the Ever-blooming Hybrid Sweet William, with sprays of Gysophilis paniculata, or "baby's-breath" in natural color. There are contained in the Garden Book beautiful colored plates of collections of Novelties in vegetables; select large-flowering Phlox Drummondii, fancy dahlia Frank Smith, and a collection of Iceland poppies, all lovely and life-like. Every one interested in the cultivation of a garden, or engaged in conducting a greenhouse establishment should procure a copy of this handsome valuable publication.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

TRENTON, N. J.—The State Horticultural Society at its annual meeting elected the following officers: President, Horace Roberts, Moorestown; vice-president, Ellas S. Blake, Little Silver; secretary, Miss Mary W. Budd, Mt. Holly; treasurer, George E. DeCamp, Roseland. Mr. DeCamp succeeds I. J. Blackwell, of Titusville, who retired on account of ill health.

Horticultural Notes.

Foreign journals mention that when the Chionanthus virginica is grafted on the ash it never fruits. It is more than likely that the sterile form was used for grafting. At any rate, why graft it at all when seeds can be had so easily, and grow so freely as they do?

The Sicily nut, which is sometimes found in nursery lists, is a very large variety of filbert. It is sometimes called Barcelona nut. To increase it layering is resorted to, although it will come fairly true from seed.

In those States having a climate too cold for the average kinds of peach trees those with large flowers should be tried. It is claimed that they are harder than those with small flowers.

Russian olive, so-called, is *Elaeagnus hortensis angustifolia*. The common name of all *elaegnuses* is wild olive or oleaster. It is a rather misleading name as the plant has no affinity to the true olives, which are oleas. Silver thorn is a much better name for all the *elaegnus*, for one and all have thorny stems and silvery leaves.

The oak-leaved mountain Ash has the same flowers and berries as the common one, and in addition has the large cut-leaved foliage that makes it valued as a variety. So far as concerns the berries, it can be planted in place of the typical form if so desired.

Just how the Siberian Arbor vitae got its name, Siberian, is hard to say, as it is but a variety of the American, *Thuja occidentalis*, just as are the golden, the variegated and many other varieties of it. Many years ago the late Robert Douglas sowed a quantity of seed of the Siberian. The result was, that the greater number of the seedlings were pure American Arbor vitae, the remainder varying from this to the Siberian in appearance.

A correspondent writing from Florida states that some of his Japanese persimmons change their sexual character as years pass by. He had one that for six years bore but male flowers; then it had a few female ones, and from year to year thereafter it bore increased numbers of female flowers, becoming satisfactorily fertile. Such cases are not uncommon among trees and shrubs.

Juglans prapauriensis is not a dwarf form of the English walnut as some suppose. It gets to be a good-sized tree. Its merits are its early fruiting qualities. One does not have to wait ten years for it to grow to a bearing size, as is the case with the common one, *J. regia*.

Cercidiphyllum Japonicum.

A fine Japanese tree, still not over common in collections, is the *Cercidiphyllum japonicum*. Travelers in Japan tell us that it is one of the finest forest trees of that country, and from its appearance here, when in favorable situations, this statement can well be believed. Without knowing the nature of the ground it occupies in its native forests, it has proved here to be a moisture-loving tree, doing far better when in a deep, moist soil than when in a shallow, dry one. The foliage is of a light green; the leaves being almost heart-shaped, and when at their best almost the size of those of the English linden. The male blossoms are on separate trees from those bearing the female, but so far as concerns this as a merit it matters not which one it is, as the flowers are greenish-white and almost inconspicuous. But there is a difference in the growth of the trees which many think favors the female form. Francis Canning, of the botanic gardens of Smith College, Northampton, Mass., says, "I think the female form of this tree much the handsomer of the two forms. It is easily distinguished from the male form by its more spreading habit, the male form being columnar in outline."

As already said there is no occasion to be particular which one is had so far as concerns the flower display, but for the sake of getting seeds for propagating purposes; or for curiosity seeds may be desired; in this case the two forms of trees should be near each other. The seeds are contained in small, narrow pods; and although the tree is in the natural order *Magnoliaceae*, to ordinary observers no relationship to magnolias is apparent in it.

Although withstanding our severest Winters, with the mercury away below zero, Nicholson says of it in England that "it proves hardy on walls in our more southern districts." This statement may have appeared before many tests of the tree for hardiness had been made, for surely it would withstand the climate anywhere in Great Britain.

Soaking Seeds Before Sowing Them.

A question was asked me recently whether osage orange seed would grow when a year or more old and had been kept dry. This question was answered in the affirmative. Excepting a few flower and vegetable seeds and some coniferous ones all seeds are at their best when fresh, and when they are a year or more old it is safe to say they are not quite as good as at first. But in the case of the osage orange many nurserymen use the seeds when a year old, and with quite satisfactory results. It seems to make but little difference, excepting that old seeds are longer in sprouting than when new. It appears to require more moisture to swell the seed coats the older seeds are. As seasons in Spring are often short the soaking of old seeds, or even of new ones with hard coats, is to be recommended. Osage orange seeds should be soaked in tepid water for 24 hours. Hard seeds, such as those of honey and yellow locust, should have boiling water poured on them and then be allowed to remain in the water for perhaps two days. But it is recommended that as soon as any of the seeds come to the surface of the water they should be skimmed off and sown at once; or they will rot. It follows that ground for sowing should be prepared before the seeds are put to soak.

In dry seasons many seeds perfectly good fail to grow because of lack of moisture, and no doubt better results would follow the soaking of many seeds besides those with hard-shelled coats.

Propagating the Eglantine.

Mrs. J. W. Sparkman of Tennessee writing of the eglantine and its seeds states it is in a half wild condition there in some places. This may be, as where conditions are suitable the seeds vegetate very well. Nurserymen propagate it by securing the pods in the Fall, pounding them to pieces, letting them rot for a few days, and then washing out the seeds. Should the weather be open the seeds may be sown at once; but if mixed with slightly damp sand and kept in a cool place through the Winter they do very well sown in early Spring. In this way beds of seedlings are easily had. In olden times the common dog rose, *Rosa canina*, of England, was known to some as eglantine. Nicholson says of Eglantine: "A name that has been the subject of much discussion, both as to its exact meaning and as to the shrub to which it belongs," but he agrees with the general opinion that the name belongs to the *Rosa rubiginosa*, the sweetbrier.

A few plants of the eglantine should always be included in the planting of shrubs, especially when they are to be near a dwelling. In early morning, when dew is on them or after a shower, there is a fragrance from the leaves which is very agreeable.

Hovenia Dulcis.

A Japanese tree, introduced to this country some thirty years or more ago, is the *Hovenia dulcis*. Not much is known of this tree by our gardeners, and

this may be partly accounted for by the fact that it is not sufficiently hardy to stand the rigors of the colder States. It is hardy about Philadelphia, and no doubt it will stand the Winters north of that city. There are some quite large specimens in Bucks County, Pa., as well as in the city of Philadelphia, but the specimen illustrated is growing in the White Lot, near the President's grounds, Washington, D. C. It is crowded rather more than we liked, but it happens two others we know of are in the same condition, so we took the present one for illustration.

As stated, the *hovenia* comes from Japan. It has good-sized, shining, green leaves, and its flowers are small, white and borne in flat heads, in appearance somewhat like those of hawthorn. Its pink, thick, fleshy fruit stems are eaten by the Japanese.

To get the benefit of the flowers on trees of the size of the *hovenia* pictured, the planting of them should be in open situations where they may develop well, and the branches be near the ground. From what we have seen of this tree, the *Hovenia dulcis*, we believe it would make a very handsome lawn subject, and we would recommend its trial as such. It can be increased from cuttings or seeds. The latter can be obtained from Japan, or from the trees growing here, as they flower and fruit freely. Green wood cuttings are used, made when the wood is in a half-ripe state, in early Summer. And there is layering, which done in late Spring, gives rooted plants by Fall.

Some years ago, when the late curator of Kew, George Nicholson, was in this country, he was much interested in seeing some of the large trees of *hovenia* growing about Philadelphia.

An Evergreen Climber for Walls.

It is rare to see the *Euonymus radicans* used as a vine for covering walls, a position it is well fitted for. In fact the first mention of it when it was introduced was in connection with its beauty as seen climbing up trees in Japan. That it could be used as the common ivy is, is proved by the beauty it presents in the few cases where it has been so employed. In most cases its use is confined to covering low walls, a position it suits well. As there is no other evergreen creeper of equal hardness to it, and but few persons that do not care for an evergreen vine on their dwellings, this *euonymus* should be brought to the attention of those looking for a vine for the purpose. It is not a vine that will take the place of the English ivy where this is hardy, as its foliage is smaller, and the vine sets close to the house. But the English ivy will not endure the Winter much farther north than Philadelphia, while the *euonymus* can be grown in all but the very coldest States.

Euonymus radicans is not a species as it is often thought to be, but it is a variety of the well known *E. japonicus*; so it is claimed. It is, however, so unlike *japonicus* in every way, hardness and all, that one feels almost like doubting the correctness of our botanical authorities in making it a variety of *E. japonicus*. JOSEPH MEEHAN.



Hovenia Dulcis

Catalpa for Timber.

The demands all nurserymen experience for catalpa seedlings for forestry purposes bring up the question whether the *C. bignonioides* is not of use for the purpose as well as *C. speciosa*, the one preferred in the West. It is admitted by all that the latter is hardier than *bignonioides*, which fact makes it alone suited to the colder parts of our country. But where the *bignonioides* is hardy, as it is all over the Middle States, it could certainly be planted to advantage where any difficulty exists in getting the *speciosa*. The reason why *speciosa* is preferred even here, is because it is of more tree-like growth than the other, making a taller tree. All trees make a straighter growth when they are grown close together, and planted in this way the *bignonioides* would make a straight growth. This end is better obtained if when the seedlings are two or three years old they are cut down to the ground in late Winter. Shoots will be then made which will be 5 to 6 feet high by Fall and as straight as a line. Regarding the durability of the wood of the *C. bignonioides* there is no reason to doubt it being as lasting as that of the *C. speciosa*. Over 30 years ago its durability was known, and it was mentioned in the horticultural magazines of that day, probably before *C. speciosa* was known, for this one was not named until 1879.

Boxwood Exhausted

Manetti, for grafting, 3-16 to 1/4 inch, \$10.00 per 1000.
Manetti, for grafting, 2-16 to 3-16 inch, \$7.50 per 1000.

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

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DECIDUOUS TREES and SHRUBS, EVERGREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties. Send for price list.

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CRIMSON RAMBLER, DOROTHY PERKINS, and other leading climbers. BABY RAMBLER, Hybrid Wichramiana Hybrid Sweet Briar, Hybrid Engosa and Hybrid Perpetual. Large assortment of varieties, fine stock and reasonable prices. Send for catalog or trade list.
BAY STATE NURSERIES, North Abington, Mass.

ROSES

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Wholesale Growers **TREES AND PLANTS** in full assortment. Trade Catalogue Free
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MANETTI STOCKS Especially for Florists' use. Best French Grown.

First Size, 5 to 10 m-m., per 1000.....\$9.00; per 10,000.\$80.00

Newark prices. DUTY PAID. For prompt delivery, order now and avoid disappointment.

ROSES, two years, field-grown, well-rooted

DOROTHY PERKINS per 100, \$8.00
CRIMSON RAMBLER per 100, 10.00
HYBRID PERPETUALS, in good assortment, per 100, \$10.00 to \$12.00.

Send for our Wholesale Price List of Roses. Clematis, Flowering Shrubs, Conifers, Etc.

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WEEHAWKEN HEIGHTS, N. J.

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JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiraea Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lillacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

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Hollandia BOSKOOP, HOLLAND Nurseries

Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.


Pot-Grown Plants for Forcing.

RHODODENDRONS, H. P. ROSES, Etc.

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For TREES, SHRUBS, VINES and SMALL FRUITS
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SCIONS TO BE FURNISHED BY THE CUSTOMER.

If you are planning to use any quantity of Roses the coming season, write to us for prices. We cannot get enough wood from our plants for all of our orders, but our facilities for grafting are first-class. Write for prices.

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Beautiful New Pink Rose "Aurora"

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Write us about it

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Per 10 bricks \$1.50. Per 25 bricks \$3.50
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In bales of 300 lbs. \$1.50.

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Has never failed to run. Sold by Leading Seedsmen.
Practical instructions on "Mushroom Culture" mailed free on application.
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75,000 Gladiolus Bulbs

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ROSES

Planning for the Future.

With the holidays past, it behooves the growers to make plans for next season. Now is the time to decide about how much space is to be allotted to the different varieties, for we now have more than three or four to choose from, not counting some of the later additions. But each grower should raise those varieties which do best with him to make the most money.

Having formed an idea of what is wanted, preparations should be made for propagating or grafting. Where a new variety is to be tried, better order stock now so as to get nice plants early in the season, thus giving them a fair start.

On large places thousands of cuttings are already in the sand. Some possibly may have started potting, but the great majority of growers wait till about now to begin operations, for, in the first place, it is not advisable to cut out much wood from the plants, in the shortest days of the year, especially when we have so cloudy weather as at present. Then, also, it necessitates tearing out a room for young plants, which means some loss of flowers. Not alone that, but stock is seldom wanted for benches till the latter end of May or June, and if started too early the plants will be potbound in fours long before then.

Propagation.

With nearly all varieties propagating is quite a simple matter, the first requisite being clean, sharp sand; if a little coarse it will not matter. This should be screened. Where a separate house is not provided, select a bench where the pipes can be boxed in, so as to furnish bottom heat. Remove the soil and wash out the bench well, then apply a heavy coating of hot lime. Arrange the drainage so that the sand will not wash through. The sand should be packed as firmly as possible before any cuttings are put in.

The next step is to procure some well-ripened wood from clean healthy plants. This should be carefully looked after, for if healthy young stock is desired weak or off-colored stock must be avoided. Two-eye cuttings are the best. Use a sharp knife, making the lower cut right below the lower eye. If small, leave on four, and if larger only two leaves. Use wood as near alike as possible to insure even rooting.

After the cuttings are in the sand give a good watering, and then, if possible maintain a temperature of from 64 to 66 degrees in the sand with about ten degrees cooler on the top. The latter, however, can only be secured where a regular propagating house is used. Never allow the sun to strike the cuttings; also avoid draughts. If the drainage is right, a watering each day will be necessary, but a little care exercised will soon show how much water should be afforded.

It will take from three to four weeks for nearly all roses to root, except American Beauty—these from four to five weeks. The latter rose is at times difficult to manage, and when small numbers are wanted, or a separate house is not available, it would, perhaps, be better to purchase

WE ARE NOW GRAFTING ROSES

This is the Best Time to Place your Order.

In this Way you will Get Just What you Want

Read what some of your customers say about our stock of previous years:

Auburn, R. I., April 28, 1906.
 "The grafted Richmond we had from you this spring were as nice as could be, which has been the case with all the stock we ever had from you. You may rest assured when we want grafted roses or plants of any kind you can furnish you will have our order."
 (Signed) The J. A. BUDLONG & SON CO.

Hyde Park, Dutchess Co., N. Y.
 "I would like to thank you for the quality of grafted roses and American Beauties, on own roots, which you have sent us each year. I con-

sider the stock A No. 1 in every respect and doubt it better could be obtained from any other firm."
 (Signed) HENRY J. ALLEN,
 Gardener to Mr. F. W. Vanderbilt.
 Aahuradade, Mass., April 30, 1906.
 "I never saw finer or cleaner stock sent out by any firm than I received from you this year."
 (Signed) W. WESTLAND,
 Gardener to Mr. Francis Blake.

Fineburg, L. I., May 1, 1906.
 "The Richmond rose plants came to hand in good shape, fine healthy stock, well packed and good count. I am very much pleased with them

as I have been in the past with all stock purchased of you. It gives me great pleasure to send an order to your house for I know I will get just what my order called for, no outs, no runs, but clean, healthy stock."
 (Signed) A. L. THORNE,

Whitinsville, Mass., April 26th, 1906.
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 (Signed) THOMAS HOWDEN,
 Gardener for Mr. Arthur F. Whitin.

Leaon, Mass., Dec. 4th, 1906.
 "The grafted rose stock which you have supplied me with for the past six or seven years has been of the highest quality and has given me the greatest satisfaction. I have great pleasure to again send you my order."
 (Signed) EDWIN JENKINS,
 Supt. Bellefontaine Gardens.

Morton Grove, Ill., Dec. 12, 1906.
 "The grafted Killarney you supplied me was extra fine. Our only regret was that instead of getting 2800 plants we didn't order twice as many."
 FOEHLMANN BROS COMPANY.

We intend to maintain our usual high standard this year. Send for catalog of varieties and prices.

A. N. PIERSON

Cromwell, CONN.

plants in 2 1/4 or 2 3/4-inch pots, than to bother raising them yourself.
 With due respect to some of our best growers, it is safe to say that the larger portion of the plants grown commercially are on their own roots. It is claimed that grafted plants are always more vigorous growers, but after careful trial we have found they are so early in the season, but when the shorter days come along and the young stock throws up a few bottom canes there is not much difference. It is certainly easier to take care of own root than grafted stock. But this point must be decided by each grower for himself.

Grafting.
 Grafting is a much more difficult operation than the sticking of a batch of cuttings, requiring far more care and attention. The stock used is mostly manetti, imported, though some American grown, is now being employed. This is generally potted about four to six weeks, and kept in a temperature of 40 degrees or below, but above freezing. The one-eighth inch stock is about the best size to use, though stock and cion should be of as uniform a size as possible. Cut the manetti as close to the pot as is possible for convenient handling, by making a slanting cut about three-fourths of an inch long, then cut the cion to suit. If the latter is smaller than the stock, place it to one side so that the bark of one fits closely with the other. Tie securely with raffia, and keep the cion moist by covering it with moist rag.

The grafting frame should be as nearly air-tight as possible and so arranged that a temperature of 80 degrees can easily be maintained. As for the propagating bench, first apply a good coating of whitewash to the woodwork, then arrange for free drainage; finally finish off with screened ashes or sand on which to stand the pots. Before these are put in, give the prepared bench a good soaking; this will furnish enough moisture for the plants for three or four days. Keep the frame close and if the temperature is maintained near 80 degrees they will "take" in about two weeks. Gradually harden off the grafted plants by raising the sash or top of the frame a little more each day. When the union is complete and the plants are well-hardened, they should be put in another place, staked and carefully tied, and then receive practically the same care as is given other young stock. PENN.

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Are a most useful plant
 We have an excellent lot in cold storage, extra large clumps, and offer them as follows:
 Spiræa Japonica. Per 12 60c., per 100 \$4.50, per case, about 300, \$12.00.
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 Spiræa H. White (new). Undoubtedly one of the finest and most profitable Spiræas for florists. Per 12 \$1.00, per 100 \$7.50, per case, about 300, \$21.00.

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 Extra strong and well set with buds.
 50 Marie Le Graye. 50 Chas. X. 50 Wd. Cassier Perier. 50 Md. Lemoine, \$8.00 per dozen while they last
 50 Dentzia Lemoinei (pot grown), at 18c. each

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CANNAS

600,000 plump, sound roots (no culls) true to name, 2, 3 eyes and more, all the leading kinds, \$7.50 per 100 and upwards. Write for list and prices before you buy elsewhere.
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William Saunders
 The flowers are large, of splendid form and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson. Foliage is a rich bronze. Height, 3 1/2 to 4 feet. We believe that **Wm. Saunders** is decidedly the most perfect canna of this type that has been introduced. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Ottawa
 is a strong grower, very robust and 5 to 6 feet high. The flowers are large and beautifully formed, color is carmine with tints of old rose and deep coral, add to this the silken sheen and you can imagine the effect a few plants will produce.
 Note:—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert:
 Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 massed in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size." 50c. each; \$5.00 per doz.; \$35.00 per 100.

New York
 Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of cannas. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Send for our list and prices of 60 other leading varieties of cannas.
 Are our great specialty, 2 1/2 and 4 in. pot plants we have in great variety. Teas, Hybrid Teas and H. P. Roses on their own roots, Philadelphia Rambler, Crimson Rambler, Dorothy Perkins and other climbers in strong field plants.
 in variety. Viburnum Plicatum, Spiræas, Altheas, Deutzias, Weigelas, Barberry Thunbergii, Hydrangea Pan. Grandiflora, Honeysuckles, etc.
 Send for our Price Lists.

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DRACAENA BRUANTI. Imported from Belgium. This is the best dracaena grown for indoor cultivation.

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H. WESTON, HEMPSTEAD, N. Y.

LIST OF ADVERTISERS

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CARNATION NUMBER NEXT SATURDAY

Our issue for January 26 will contain a full report of the annual meeting and exhibition of the American Carnation Society, to be held in Toronto, Wednesday and Thursday, January 23 and 24. To all carnation growers, we would say, that this issue will present a most favorable opportunity to make special offerings of plants or rooted cuttings of carnations.

Never before were buyers so eagerly on the lookout for good carnation stock, both in standard varieties and in novelties. YOU SHOULD SECURE YOUR SHARE OF THIS TRADE. Send your advertisement intended for that issue so as to reach us not later than Wednesday noon, January 23, 1907.

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FOR SALE One (1) No. 536 Burnham Boiler hot water, new. Capacity 2800 sq. ft. of heating surface. This boiler is absolutely new and was taken in trade by me. Special low price to first customer. J. E. GALLAGHER, Manufacturer of Pipe and Fittings, 86 John Street, NEW YORK, N. Y. Mention the Florists' Exchange when writing.

Philadelphia. At the ball given by Mr. James W. Paul, Jr., at Horticultural Hall, the decorations were by Habermehl's Sons and were very effective. More cut flowers were used than has been customary at many of these affairs in recent years. American Beauty roses were foremost in all the work. E. Habermehl tells the writer they used 3,000 Beauties. There were also numbers of azaleas and lilies used. The front of the stage was divided as it were into three sections. The center section was composed of lilies interspersed with palms, etc. These were massed five feet high, at one side gradually sloping to one foot high-- s-i-acmrdllu w section were massed pink azaleas and on the right white azaleas, each section backed with palms and other plants as a screen to hide the orchestra. Around the main floor were screens back of which was the promenade. The arches of the screen effect were of lattice work covered with wild smilax, the whole outlined with miniature electric lights. On the stairway the balustrades were outlined with small lights; at this point many Cibothum Scheidel in 19 and 12 inch pots were used and were very effective. P. J. Hauswirth paid us two visits while on his eastern trip, Fridy of last week and Tuesday of this week. Wm. Gude was in town on Tuesday. The finance or ways and means committee of the Florists' Club for the S. A. F. Convention met on Tuesday, when the subcommittees, to cover the eight sections into which the city or county has been divided, were appointed. Work will now go right along. The Pennsylvania Horticultural Society met Tuesday evening when Dr. Henry Skinner, Professor of Entomology, gave a very interesting illustrated lecture on "How Insects Live Through the Winter," in which he gave the habits of all the most destructive insect pests and showed where to find them during the winter months. A very nice exhibit of orchids was staged by Mr. G. Roehling, Trenton, N. J., James Goodyear, gardener, consisting of Cattleya Trianae, Mrs. E. Warren Hook, for which a silver medal was awarded. This is a light colored flower, with rich pink shading to purple markings or rings. Cypripedium adrastus (Lecanum X Boxallii) was also given, gave a medal, and was a very perfect flower. Cypripedium insignis Sanders a grand plant in about an 8-inch pan and having 12 perfect flow-

ers received certificate for culture. Laelia anceps Williamsii, a grand specimen with 35 flowers, certificate for culture. There were also cut flowers of four types of Laelia anceps viz. rosea, Williamsii, Schroederiana and Hollidiana. The competition of the evening was for prizes offered by Henry F. Michell Company for Primula sinensis, the prize being awarded to Mrs. Charles Wheeler (Wm. Fowler, gardener), this being the fourth year that this exhibitor has taken the prize. A certificate was awarded in addition. DAVID RUST. Boston. The employees of the firm of A. H. Hews & Company, flower pot manufacturer, Cambridge, Mass., were entertained to a banquet by Mrs. Hews on Saturday the 12th inst. This is an annual event by which Mrs. Hews keeps fresh, with the employees, the memory of the late A. H. Hews. George McKee, the president of the company, presided; and after the dinner an enjoyable evening was spent listening to songs by the Harvard quartet and specialties by several other artists. SOUTHAMPTON, N. Y.—A horticultural society has been organized here styled the Southampton Horticultural Society. The first regular meeting was held January 14 and the following officers elected: President, H. W. Clark; vice-president, Wm. F. Halsey; recording secretary, Wm. Gray; treasurer, Julius King; executive committee, F. Babcock, U. L. Agar, Martin McLaughlin and Jas. Guilfoyle. The Seed Adulteration Law. Through the efforts of Henry W. Wood, President of the American Seed Trade Association, a conference has just been held in Washington with the Chief of the Bureau of Plant Industry and the officers directly under him for the purpose of discussing the administration of the seed adulteration law. Some of the more important questions brought up were in relation to the present methods of obtaining samples for analysis, the limit below which the presence of foreign seed in a sample should not be considered as adulterants, and methods for preventing the importation of yellow trefoil for adulterating purposes. The conference was very harmonious and satisfactory, and it is believed will lead to a better understanding between the Department of Agriculture and the reputable seedsmen, who are just as much interested in stopping willful adulteration as the Department.



Salvia Splendens "Bonfire"

New Crop DREER'S RELIABLE FLOWER SEEDS

The following short list embraces but a few of the things which should be sown early. New Crops are now ready to send out.

Table listing various seeds like Ageratium Blue Perfection, Alyssum Little Gem, etc. with prices.

Table listing various seeds like Salvia Splendens (Scarlet Sage), Ball of Fire, etc. with prices.

Our Wholesale and Retail Catalogues for 1907 have been mailed to the trade. In case you have not received a copy, let us know, and we will send you another.

tain the most complete offering of Seeds, Plants and Bulbs in the country. Do not wait until the Spring rush, but order Now.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

GERANIUMS

Ricard, Doyle, Buchner, Nutt, Poitevine, Brett, 2 in. pots, ready in January. Orders booked now at \$20.00 per 1000.

ROOTED CUTTINGS BELOW READY NOW

Table listing rooted cuttings like Fuchsias, Double Petunias, Heliotropes, etc. with prices.

GERANIUMS

Rooted, then grown in 2 in. pots over a month. Sent free of soil. Bruantii, Buchner, Poitevine, Ricard, Perkins, Viad, etc., at \$16.00 per 1000. Nutt and Doyle, extra strong, \$14.00 per 1000.

GERANIUMS

All rooted cuttings booked for January. Cash with order. PETER BROWN, Lancaster, Pa.

GERANIUMS

25,000 bushy, 3 in., \$4.00 per 100; \$35.00 per 1000; ready February. Standard varieties. 20,000 transplanted Evergreens, trees, etc.

GERANIUMS

In good varieties 2 1/2 in. pots, ready March 1 1907. WM. J. CHINNICK, Trenton, N. J.

GERANIUMS

S. A. Nutt, from 2 1/2 in., strong plants, \$20.00 per 1000; \$2.50 per 100. Other standard varieties ready to ship February 1st.

Chrysanthemums

Tastout, Nonin, White Shaw, The Baby, \$15.00 per doz., \$10.00 per 100.

Chrysanthemums

JEANNIE NONIN, the very finest white stock plants, \$7.00 per 100, one doz., \$1.00. Cash with order.

Holly FERNs

We still have fine stock in 2 in. pots, and will give you specially good count on all orders you send us during January.

FERNs FOR FERNERIES

From 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Asparagus Plumosus and Sprangeri, 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000.

GERANIUMS

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

FERNs MY SPECIALTY

Please notice the big reductions. Cibatum Schiedel, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown.

J. F. ANDERSON

Successor to Anderson & Christensen, SHORT HILLS, N. J.

WHITMAN FERN

Large stock of strong plants, 2 1/2 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN SCOTT

2 1/2 inch pots.....\$ 5.00 4 inch pots..... 12.00

KENTIA FORSTERIANA

4 inch pots, made up, strong and bushy.....\$25.00 3 inch pots, made up, strong and bushy..... 50.00

ELEGANTISSIMA FERN RUNNERS

Very fine stock, \$1.50 per 100; \$12.00 per 1000. BOSTON, Bench, 3 in. 5c.; 4 in. 10c.

ROOTED CUTTINGS, prepaid per 100.

Paris Daley, white, yellow, \$1.00; Alexandria, \$1.25. Fuchsias, 5 kinds, \$1.25. Ageratium, white, Gurney, Pauline, 60c. Vinca Variegata, 90c. Swainsona Atba, \$1.00. Double Petunias, 10 kinds, \$1.00; Salvia Bonfire, Splendene, 90c.; Alternanthera, 3 kinds 50c.

BYER BROS., Chambersburg, Pa

Mention The Florists' Exchange when writing. Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round JOHN SCOTT

Rutland Road & E. 45th St., BROOKLYN, N. Y. Telephone 2890 Bedford.

5,000 FERNS THAT MUST BE SOLD.

In fine shape; low, stocky plants. Boston, from 6 in 20c. from 5 in. 15c. Pieroni, from 6 in., 20c.; from 5 in., 15c. Scottii, from 5 in., 25c. 2 year old Grimson Rambles, 3 to 4 ft., \$12.00 per 100. 2,000 field Vinca Major, variegated, from 4 in., \$5.00 per 100. 2,000 Hydrangea Otakaa and Vinca Major, variegated, 2 1/2 in., \$2.50 per 100. 10,000 Cannas, cbrubs, vines, etc., low. List free. Cash Please.

BENJ. CONNELL - WEST GROVE, PA.

Adiantum Farleyense

The Very Best Only 6 in., 6 in., 7 in. pots-\$12.00, \$18.00 and \$24.00 per dozen.

JULIUS ROEHRs COMPANY

Exotic Nurseries Rutherford, N. J. Mention The Florists' Exchange when writing.

CHARLES H. TOTTY

WHOLESALE FLORIST MADISON, N. J. CHRYSANTHEMUM NOVELTIES A SPECIALTY List Now Ready. Send for it.

Your Money is well spent when you advertise to THE FLORISTS' EXCHANGE

THE WEEK'S WORK.

Timme's Timely Teachings.

The Raising of Stock.

It is time to wisely plan for the coming season's work. To lay the course to be pursued and to consult notes and memoranda bearing on bygone experience. It is true there is neither a distinctly marked beginning or ending of seasons as understood by florists, one morning into the other and all combining to make things lively from one end of the year to the other.

To raise new stock from seeds or cuttings, although entailing much work, is in itself nothing especially difficult or perplexing, calling for far less knowledge or skill than the treatment of the stock in its equipment and especially final stages of development.

When trying to catch a train, but a works mischief when trying to catch a train in anything grown by commercial florists. It is not a whit less disastrous to be too early than it is to be too late with whatever may be raised for the stock trade. Success depends on having the stock ready to go at the right time, and this again depends on when the first start is made.

Bedding Plants.

The time has passed long ago when the raising and marketing of bedding plants was looked upon as a line of horticultural activity scarcely worth considering. Many of the florists, who in their high-held dignity regarded the industry with contempt when they first started into business on their own account at the outskirts of a large city, gladly turned to it as a means of timely salvation when their neighborhood grew up and home trade knocked at their door.

Much of the stock raised for outdoor effects during the Summer season is worked up from last year's stock plants. These until stripped of the last batch of cuttings must now occupy a favored spot, on a warm and well-lighted bench. Sturdy, short-jointed growth is the best for cuttings, and unless there is enough of this for home propagation it is wiser to purchase rooted cuttings, or good two-inch stock, to complete the needed supply than to root material unfit for propagation.

And while making up an order in this line some things not represented in the collection carried, should also be sent for in limited quantities in order to widen the range in variety and thus open up the best opportunities for the grower as well as his customers to test new sorts and to become familiar with varieties that might prove of greater value for that particular locality than some of those handled heretofore.

Cuttings.

As already said, good cuttings only will grow into good plants, and spindly and yellowish, unhealthy shoots should be shunned for the purpose of propagation. It is well to use the cuttings as they reach the desired size and proper condition for rooting, thus obtaining several successive batches of the most prominent kinds. The first lot of cuttings, should the stock plants hold forth the ready material, could now be struck of begonias, fuchsias, lemon verbenas, salvias, lantanas, double petunias, ivy-leaved geraniums, vincas, scented and fancy geraniums, English ivies, heliotropes and lobelias, with one or two more batches to follow later on.

BOSTON FERNS

Very fine bushy stock from 6 in. pots 60c.; 7 in pots \$1.00; 8 in pots \$1.50; 9 in. pot \$2.00. FRANK N. ESKESEN, MADISON, N. J.

DREER'S SELECT DAHLIAS

Varieties Specially Suited for Cut Flowers.

Strong dormant field roots, grown at our own Nurseries where every precaution has been taken in the handling and our customers may depend on receiving stock absolutely true to name.

There are many things in the pot plant and bedding line yet grown from cuttings which could with less expense and greater satisfaction be raised from seeds. In the case of the various kinds of lobelia, for instance, of verbenas, nasturtium, petunias, antirrhinum, Marguerites, Impatiens, Begonia semperflorens and salvia, a vastly better kind of stock is obtained by making a sowing in time or several in succession than by saving, housing and properly accommodating a lot of old stock plants and working up a new stock from cuttings. The seeds of all these, as they can now be had from all of our reputable seed firms, are as reliable as to vitality as if the grower had raised them himself, come as true to variety, name and color as it will ever be possible to produce them, and seedlings are better in all respects than plants raised from cuttings.

When to Sow Seeds.

Much of what florists grow is started by sowing seeds, but at present we will only consider the kinds of stock that come under the head of bedding plants and as such are raised from seeds and grown into good salable shape for that particular trade. All those kinds I shall find occasion to mention, if grown in a gardener-like manner, can readily be disposed of in great numbers wherever there exists any sort of up-to-date bedding plant trade. Where this is the case it will be found that this is a branch of the florist's business yielding good profits and full of bright possibilities for beginners.

Now and up to the middle of February the following kinds of seeds should be sown—lobelia, grevillea, Musa ensata, snapdragons, impatiens, Nicotiana glauca, verbena, myosotis, torenia, verbena and salvia.

From the beginning of March until the middle of April we start the seeds of petunia, nicotiana, cobra, ageratum, Phlox Drummondii, maurandya, centaurea, Marguerite carnation, celosia and annual dianthus.

All through April several sowings are made of the following sorts, scabiosa, schizanthus, asters, cosmos, stocks, wallflowers, zinnias and single dahlias.

In May many varieties of perennials for a following year's bedding trade are sown, such as pyrethrum campanula, delphinium, gallardia, digitalis, Shasta daisy, etc. These are sown outdoors in well-prepared seed beds, (not in frames) and are transplanted into the open field when large enough. Some of these are potted up in the Fall, as they sell best in that form the following Spring, while many of the perennials, now much called for, are sold in the form of large clumps dug from the field.

How to Sow Seeds.

Where many thousands of seedlings must be raised, as is the case where plants are grown for the wholesale trade or in fact on any fairly well-located retail place, things should be in ship-shape and so arranged and provided for as to cause no delay, confusion or inconvenience in carrying on the work as it should be. Any lengthy and detailed instruction on this point would be of little avail, if the grower himself is unable to detect faultiness in method or to quickly find means of bettering ways and equipment so as to economize in time and labor, without in the least curtailing the possibilities of good results.

Not just necessary, but most helpful for the raising of seedlings at this time of the year is a bench with brisk bottom heat. Wooden trays or boxes, not too heavy to handle, all of one size and just nicely fitting into this bench, are best to use for most of the seeds named. Let them be strongly made, three inches deep, provided with openings for drainage and with a bottom layer of an inch or so of unsifted fresh soil. On this an inch and a half of sifted good potting earth, moderately moist, is placed, and after being nicely leveled the seeds are sown. With a smooth piece of wood the soil is firmed and at the same time the seeds pressed into it. It is now when the watering is done, not before the seeds are sown as is so often advised. Any ordinary watering-can with a finely-punctured rose will do for the purpose of the first and every subsequent watering, since with any sort of care it is nearly impossible to disturb the seedlings. In adopting this way of sowing the seeds, only a very slight covering of sifted hops or light compost is needed for most of the kinds. This receives no watering until the little plants show above the soil, which is from three to eight days on a bottom-heat bench.

After Treatment.

If a good watering has been given at the time of sowing, no more will be needed for the coming of seeds until the plants are up, paper, lath shadings or muslin frames being used for shading during this interval. Those boxes, first showing the green tinge of sprouting seeds, are lifted and placed under a glass or themselves under bottom heat but now exposed to the full light. They now, as they grow, need water more regularly and will soon be in a condition when a removal to cooler and more airy quarters is necessary. Most



Wtosome (Cactus). A fine white	1.50	10.00
Win. Agnew (Decorative). Brilliant red	1.00	8.00
White Swan (Show). A good white of medium size	1.50	10.00
Waltheri (Cactus). Sulphur shading to white centre	4.00	30.00
Zephyr (Cactus). Crimson carmine	2.50	15.00
Zulu (Decorative). Deep maroon shaded black	1.50	8.00

	Per Doz	Per 100
A. D. Lyon (Quilled) Pink	\$1.00	\$8.00
Aezir (Cactus) Warm cardinal red	1.00	8.00
Aunt Chloes (Cactus) Rich black maroon	1.00	8.00
Admiral Dewey (Decorative). Rich french purple	1.00	8.00
Baron Schroder (Decorative). Purple with bluish shadings	1.00	8.00
Catherine Duor (Decorative). The favorite Newport red	1.00	8.00
Clifford W. Bruton (Decorative). Bright yellow	1.00	8.00
Countess of Lonsdale (Cactus). Pleasing Salmon	1.50	10.00
Eva (Cactus). Medium sized pure white	2.50	15.00
Earl of Pembroke (Cactus). Rich plum color	1.00	8.00
Fire-rain (Decorative). New Brilliant red	3.00	20.00
Floradora (Cactus). Bined red	2.50	15.00
Florencia N. Stredwick (Cactus). A grand white	2.50	15.00
Flora (Cactus). The ideal white	4.00	20.00
Fruite (Cactus). Soft rose pink, passing to cream centre	2.50	15.00
Gigantea (Giant) An immense creamy white	2.50	15.00
Gorellade (Cactus). Finest yellow	2.50	15.00
Grand Duke Alexis (Quilled). Standard ivory white	1.50	10.00
Hubszollera (Cactus). Bronzy orange	1.00	8.00
Keynes White (Cactus). Free flowering white	1.00	8.00
Kriemhilde (Cactus). Soft pink	1.50	10.00
Lyndhurst (Decorative). Brilliant red	1.00	8.00
Lenan (Cactus). Coral red suffused apricot	4.00	20.00
Mary D. Hallock (Quilled). A useful yellow, very free	1.00	8.00
Mme. Altrad Morean (Show). A fine large pink	1.50	10.00
Miss. May Leonis (Show). White suffused with softrose	1.50	10.00
Mrs. Winters (Decorative). Fine white	1.00	8.00
Mrs. Roosevelt (Giant). Pink	2.50	15.00
Nymphsea (Decorative). Light pink	1.00	8.00
Syria (Decorative). Soft pink	1.00	8.00
Standard Bearer (Cactus). Rich fiery scarlet	1.00	8.00
Strahlen Krone (Cactus). Intense cardinal red	1.00	8.00
Thuringia (Cactus). Very large fiery red	4.00	20.00
Uncle Tom (Cactus). Deep maroon	2.50	15.00
Victor von Scheffel (Cactus). Beautiful soft pink	2.50	15.00
Volker (Cactus). A grand yellow	1.50	10.00

SINGLE CENTURY DAHLIAS

Good divided roots—field grown stock.	
Crimson Century. Rich velvety crimson	2.00 15.00
Scarlet Century. Brilliant rich scarlet	2.50 25.00
White Century. Large pure white	4.00 30.00
Twentieth Century. The standard single	1.50 10.00

For full descriptions of the above as well as for a complete list of all the good varietale of Dahlias, new as well as standard sorts, see our current **Quarterly Wholesale List** just issued, which also contains offers of all reasonable Plants, Bulbs and Seeds.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA

of the kinds are fast growers and will in a few weeks need a transplanting, either a potting up into small pots or a pricking off into other, deeper boxes, any good kind of potting soil being right for nearly all kinds. And now the half-hardy sorts, such as verbenas, petunias, stocks, snapdragons, lobelias, phlox, dianthus, wallflowers, dahlias and asters, should be placed in the coolest house, one with an abundance of ventilation and the clearest of direct light. Some of these, if the season is well enough forward, may go into frames. Whatever is in pots of the selling size should be placed, the pots closely packed and touching, where they can remain without further handling until picked over and thinned out in the selling. It is well never to lift any pot and tear it from its under-rooting until actually sold or brought forward for repotting. All the seedlings of this kind need no stopping or pinching in. They all grow into sturdy, bushy, well-branched plants without this aid, but not without the fullest allowance of air and light. The closer they can be stood to the glass the finer will they be. Any of them wanted for continued pot culture should be shifted along and re-potted before they become root-bound.

The Selling of the Stock.

In recent years I have been successful in educating many of my best customers up to the point of knowing good stock when they see it. This is not so easy to do as it would seem to anyone not in the bedding plant trade. We have yet lots of buyers, and new ones coming every Spring, who will prefer the poorest strip of a plant with a flower to the finest and sturdiest one without bloom, though it may show ever so many buds. The grower who manages to have all his stock in bloom at the right time is sure to win out against him who has the very thriftiest stock but behind in bloom. This will always be so and must be reckoned with and borne in mind from the start. But it is just as true that a poor plant stands no show alongside a good one, when both of them are flowering, which again proves that to hit it right must be the good grower's main aim. He should try to have all his plants in full bloom when the bedding season is on, which is not hard to do in the case of geraniums, heliotropes, pansies, ver-

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SHOWING POT PULLED UP TO



Made of Extra Heavy Manila Waterproof Card Board, Fertilized, Wire Stitched Seams, Perfect Drainage and Shipped flat.

If you grow Tomatoes or Pot Plants you cannot afford to pass over this.

These square pots economize space, give more room to the roots than the tapering round pots. In setting out plants the pots are not removed. Simply unlock the bottom flaps and turn them up (see cut), allowing the roots to grow down.

Size.	Gross Weight	Per 1000.	Per 250.	Per 1000
2 1/2 inch..... about 2 1/2 lbs\$0.75		\$2.25
3 " " " " " 40 lbs1.00		3.50
3 1/2 " " " " " 50 lbs1.25		4.50

In Setting out Plants unlock the bottom, pull pot up one inch, and you have a wall to protect the roots against Grubs and Worms.

No extra charge for case or cartage.

Terms, Not Cash with order. Address all orders to

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benas, petunias, lobelias and others, while many kinds, of course, as asters, dahlias, Marguerite carnations and the like are readily sold to a class of people who know enough of plants not to look for flowers on these at bedding out time. With the exceptions of daisies, pansies and a few other things which are sold in clumps from frames or out of the border, all bedding plants are now

sold out of pots, this form being preferred by all householders who plant their own beds. The grower also finds it to his advantage to raise all he can in pots. The potting up takes no longer than pricking off, and the difference in price amounts to enough to render the former the most profitable way of doing business; it being also the most satisfactory to buyers.

FRED. W. TIMME.

FOUNDED IN 1868



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Seedsmen and the Trade in General

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American Carnation Society.

On Wednesday and Thursday of next week, January 23 and 24, 1907, the American Carnation Society holds its sixteenth annual meeting, with the customary accompanying exhibition, at Toronto, Ont. There is every indication of a most successful show and convention; the brethren across the line are doing all in their power in the preparatory work which shall conduce to that end. Assembly Hall of City Hall is where the affair will take place. Arrangements have been made with the Custom House authorities whereby undue delay to consignments of flowers, etc., for the exhibition will be avoided, and a special shipping label will be provided by Secretary Herr, Lancaster, Pa., to all who make an entry with him.

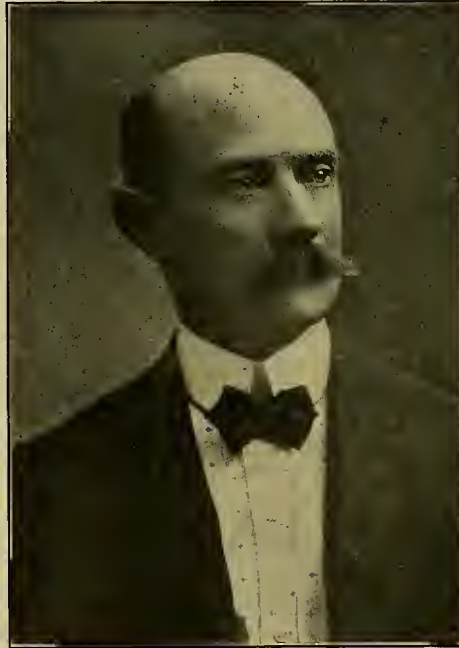
The prize list including the special premiums offered, is such as should call forth the largest

display of carnations ever brought together by this always interesting event in horticultural circles. An enumeration of the prizes has already appeared in our columns.

When one recalls the extensive and comprehensive character of the literature that has been issued by the American Carnation Society, and also has in mind the great wealth of contributions concerning the divine flower appearing in the trade press, the difficulty of presenting something new in the way of essays at each annual meeting of the organization at once becomes apparent. But the officers of the society have not fallen short in this respect for the Toronto convention, where will be discussed such interesting subjects as, "Are There Too Many New Carnations Introduced?" "Greenhouse Construction," "Carnations from a Canadian's Point of View," and, taking into consideration the growing popularity of the American carnation abroad, papers dealing with "American Carnations and Their Prospects in Europe," have been solicited, one from a grower in England, another from a Denmark specialist. In addition to the papers contained in the program the Question Box will doubtless elicit perplexing problems, the solution of which by those present will be of general benefit. It will thus be seen that a literary feast of no mean character is promised.



Albert M. Herr
Secretary A. C. S.



John H. Dunlop
President A. C. S.

It is only necessary to refer to the well-known hospitality of the Canadian brethren, who in their generous and courteous treatment of the stranger within their gates stand second to none.

A most important subject that will come up before the society for discussion and settlement will be the report of the Committee on Rules, composed of Messrs. C. W. Ward, F. R. Pierson, and J. A. Valentine. In this report the committee will make suggestions regarding a practical plan of inspection of new varieties at the establishments of growers who seek for such new sorts the society's certificate. The object of this innovation is to make the certificate, in a larger measure than now obtains, indicative of the real worth of the newcomers, thus becoming a more reliable guide to purchasers of novelties than it at present affords, at the same time rendering the much-coveted and highly-valued certificate more difficult of acquisition. The drift of the discussion on this subject at Boston last year was to the effect that, in addition to the reports of the visiting committees, the owners of the novelties be requested to furnish, under affidavit, information relating to the varieties not apparent to the committees, such as number of flowers per plant produced, the number of defective blooms, etc., the desire of the society being to collate every valuable point about a new carnation that should be known by intending purchasers. In other words, the blooms exhibited, and the raiser's bald statements concerning the variety, as to its growth, habit, productiveness, and other attributes, are no longer to "go" in the granting of a certificate by the American Carnation Society.

The certifying of new varieties has been, above all others perhaps, the one branch, of the society's work that has received most careful consideration, and, unfortunately, one that has been the most severely criticised. That it has been of value to the originator and distributor, and, to a greater or less extent, to the purchaser of carnation novelties is unquestionable, hence we suppose, the so-

ciety's pertinacity in holding on to it in its varying forms. Whether the plan as outlined at Boston, which, no doubt, in its most salient features will be incorporated in the report of the Committee on Rules, will increase the certificate's value, is a question that can hardly be finally decided offhand.

Looking at it from a disinterested point of view, and bearing in mind that an introducer of a new carnation could not, for his own self-interest as a merchant, willingly and maliciously utter and promulgate false statements concerning his introduction, the procedure proposed to be put in operation by the society appears to us to put a premium on the honesty and integrity of the American carnation specialists. If the word of a man cannot be believed without an affidavit, it would seem to be a risky undertaking to accept it with one. On the other hand, the introducer with "nothing to hide," may welcome this kind of investigation with the calmness and serenity that come from a complete knowledge of himself and his correct business methods—although wondering why these should be thus challenged. The society's proposed plan, as we see it, is simply the pitting of the visiting committee against the introducers as to veracity, capability to judge the merits of a carnation, and each from an interested standpoint—the one as seller, the other as buyer. It necessitates on the part of the society the appointment of committees, the men composing which shall be fearless, liberal-minded, unbiased, competent as expert judges in every particular, men whose morale is above the slightest suspicion—something that may not, as a whole, be always available or presented. Nor should the fact be forgotten that occasions are not wanting where expert inspection of novelties, where growing, with a view to certification of these, as well as in a general way, has been abortive; though these exceptions may go to prove the rule.

Far be it from us, however, to throw cold water on any scheme tending to the improvement of trade



William J. Palmer
Vice-President A. C. S.



Fred. A. Dorner
Treasurer A. C. S.

methods or to that which will make business run smoother or become more profitable to all concerned. Our object is to point out the drawbacks and difficulties of the committee-inspection and affidavit method, as these present themselves to us; and they are of so pronounced a character that, all things considered, we view them more in the light of a hindrance than a help to the society. We, however, await patiently the result of the deliberations at Toronto on a question that has, we think, great bearing on the organization's future welfare.

In this connection it may be of interest to summarize the various suggestions made with a view to the society getting at the actual merits of a new carnation and its adaptability to different localities, since the organization of the American Carnation Society.

At the initial meeting, held at Philadelphia October 15, 1891, the committee on resolutions recommended: "To submit all new varieties to a test committee of practical and successful carnation growers to be located in different sections of the country, to be named by the executive committee and approved by the president." We do not know that this plan was ever put into active operation.

In his address at Buffalo, February 16, 1892, President Lonsdale said: "It was proposed at the initial meeting in Philadelphia, that new varieties be tested by the vice-presidents representing the various sections of the country. These officers might hesitate to undertake so delicate a duty but if the plants came to them through the secretary under number, there need be no objections raised, and all that would be necessary for each vice-president to do, would be to report to the secretary upon the behavior of the varieties under trial. I hope that some such measure will be adopted before it gets too late, for I feel sure that seedling carnations will soon be as plentiful as seedling chrysanthemums." This suggestion in its entirety, too, as far as we know went by the board; and how true was Mr. Lonsdale's prediction regarding seedling carnations.

At the Pittsburg meeting in 1893 the matter was again up for discussion. There Mr. Hill advocated the testing of new varieties for three years before dissemination, and recommended tests in different parts of the country and in different soils. It was at the Pittsburg meeting that the society first decided to grant certificates of merit to varieties not in commerce, Mr. Hill advising that the judges "question very closely the growers and originators of these new varieties as to their characteristics."

Mr. Hill, then president, referred again to the matter in his address at Indianapolis in 1894, urging care in the bestowal of the society's medals and certificates. "Better that disappointment should occur to originators than that this society should endorse any variety that does not measure up to the very best—or a little better—than any at present in commerce. On the other hand, it is important that proper encouragement be given to those working on the lines of raising new varieties," said Mr. Hill.

At this meeting Fred Dorner in his paper on "New Carnations and Their Introduction into Commerce," said:

"The introduction of new varieties is a topic of much discussion. A great deal of dissatisfaction is experienced by seller and buyer. Various ways have been suggested to test the merits of a variety before it is thrown on the public, to save the purchaser from buying worthless stuff. A suggestion was once offered to appoint experimental stations, noted growers in different parts of the country to try their adaptation to locality as well as to test their merits on the originator's description. But what will all these measures avail in a large country like ours? Can we restrict the usages and liberties of trade as long as there is no physical or moral harm done by the article in question? Can the American Carnation Society compel a grower to observe its rules? No; not even if the society compel its own members. For if the membership becomes a fetter to his ideas he will simply leave it. Our society is not a society for amusement; it treats of our occupation, and any wrong, supposed or real, on one side, with dollars on the other, will soon decide which way to go."

Mr. Dorner added:

"I repeat it again, every grower must experiment for himself and grow that which will do best with him. He is not expected to try every new variety he sees advertised, but to select what may suit his wants or may prove a betterment over what he is growing, and give them a test on his place. It is unjust for one to condemn a variety he cannot grow with profit while another can. The grower of a new variety, if honest in his convictions, can not be blamed when it turns out a failure at other places. Sometimes the introducer of a new variety is accused of propagating the life out of a variety in trying to fill all his orders from a small number of plants. Such an accusation may sometimes be true; but on the other hand, the buyer sometimes follows this same example and keeps on propagating from the young, weakened plants and makes two and three out of one. The question of this kind of practice can be answered with the adage, 'as we sow we reap.'"

"Like all new articles, our new carnations have to run the gauntlet of taste and criticism of the grower and consumer; if tasteful to the consumer and remunerative to the grower, it is a 'go.'"

Eugene Dalledouze, presiding at the Boston meeting in 1895, recommended the method in vogue by the Chrysanthemum Society of America, in having judges in all the carnation centers, "members who, without favor or prejudice, will pass on the merits of new varieties as far as practicable. The plants should be seen growing not less than twice in the season, so that the judges may be able to report fully the particulars of each variety at our annual meetings." The plan proposed at Boston last year seems a slight amplification of the one recommended by Mr. Dalledouze eleven years ago. In the discussion following, it was suggested that the various florists' and gardeners' clubs could do

the work of inspection better than committees of the American Carnation Society, and the matter "was referred to the executive committee, with power to act."

It seems that committees were appointed in various localities, several reports appearing in the 1896 proceedings of the New York meeting, where Fred Dorner presided.

The subject was revived at the Cincinnati meeting in 1897, Richard Wilterstatter in the chair. Mr. Hill, while acknowledging that errors of judgment were liable to occur, said: "I believe that the men who are striving and seeking to introduce new varieties of carnations are conscientious in their endeavor and conscientious in regard to the statements they make concerning them." He believed that "before long we shall arrive at a method of dealing with this particular subject that will be much more satisfactory than obtains at the present time."

At Chicago in 1898, W. N. Rudd, president, a discussion of the matter also ensued. In a paper by Mr. Dorner, in regard to visiting committees Mr. Dorner said: "To see them (the varieties) once would be, in my opinion, not much better than the present system, and to see them several times would, by the increasing number of seedlings grown every year, cause more expense than the society or the growers would care to shoulder." Mr. Dorner favored the appointment of standing committees in the principal cities, "and let them sit once a month for five successive months, say the 15th of November, December, January, February and March," be-



George Mills
Superintendent of A. C. S. Exhibition

fore whom flowers of the novelties could be shown.

President Wm. Nicholson, at Philadelphia, in 1899, recommended the sending of a few plants of new varieties to prominent growers in different parts of the country for trial. The exhibition of a plant of a new variety was at this meeting characterized as "a humbug, a fraud, and an unnecessary element." Greenhouse examination was advocated. Mr. Ward discussing the subject said: "The man who buys carnations to any extent goes to the greenhouses anyway, if he is wise, and makes up his mind there. That is the only proper way." Mr. Ward also favored for the general benefit, to get some expert "to go to the greenhouses and examine the plants and report to the society before the certificate is awarded." He added: "Of course, we all know that there is the element of partiality in all these things, and the friendship of one man to another insensibly colors his reports. It is a known fact in human nature in everything that is reported upon, and an absolutely impartial report is almost an impossibility to get." He also said: "I have been opposed to making these certificates commercial affairs. * * * Having a variety refused a certificate to-day does not cut any figure with me, or with the majority of people who purchase carnation plants or new varieties."

Mr. Rudd expressed himself thus: "In my opinion the certificate simply says to us, that the variety, when grown to the limit, is capable of producing a very fine flower—at that period. It is utterly out of the question to go beyond that. This country is too big, and this society is too small, to enable us to follow that matter to the logical end, and that is to examine the variety at various times in the year as it is growing in the houses. We cannot do that, and we may as well give it up."

Subsequently in the discussion Mr. Rudd said: "I would rather take the opinion of these judges as to the qualities of the flower, and then take the man's word as to how many it will produce, and whether it is a clean, free grower and various things of that kind." This referred to gentlemen whom the speaker knew to "be good reputable business men, and honest as we go."

At Buffalo in 1900, Wm. P. Craig, president, the visitation matter was again exploited in a general

way. At the Baltimore meeting in 1901 (President Halliday) the matter remained dormant in statu quo. The same condition existed at Indianapolis in 1902, Fred Lemon, acting-president. The matter was still in abeyance at the Brooklyn, N. Y., meeting in 1903, presided over by Mr. Ward.

It was again revived by President Rackham at the Detroit meeting in 1904, who said: "I do not think no variety should be eligible for either a certificate or registration which has not been shown at least three times during the season, say October, January, and April, for two years before such a committee." Mr. Rackham also endorsed Mr. Nicholson's suggestion as to sending a few plants for trial to prominent growers in different parts of the country. At this meeting Wm. Scott of Buffalo discussed the subject of "Exhibiting Carnations on lines similar to those of the Chrysanthemum Society of America." Mr. Scott advocated the selection of ten or twelve florists in different parts of the country to whom a few plants of new varieties should be sent for trial. "They should not be men or firms that are interested in the distribution of their own seedlings. That is evident, for human nature is still human nature, and a man who had a scarlet variety which he was putting on the market would hardly feel that it was his duty to grow and boost some other fellow's scarlet variety. If he did, he would be more saintly and unselfish than any one who has lived for nearly 2,000 years."

"We cannot make this compulsory, either with those who are to give these new varieties a trial in their houses or on the man who intends sending out his new varieties, but I believe there would be no difficulty in finding a good, capable man in every neighborhood glad to grow twenty-five plants of any variety sent to him."

In the discussion Mr. Rudd reiterated his views on this matter. He said: "The idea that this society can ever, or ever will be able to put the seal of commercial merit on a new variety is all rot. You never have done it, you never will do it, and you cannot do it." He was of opinion that there was benefit in having a variety tested in different parts of the country, reports on the tests to be made public.

Mr. Ward said: "I know that the only way, the only practical way I can get any knowledge of what a carnation will do with me, in my soil and under my conditions, is to take it on my place and grow it."

A motion was carried at Detroit to the effect "That certificated varieties intended for dissemination the following year be sent to such localities for trial as the Board of Directors may designate, under proper restriction. Reports of such trials to be made to the secretary of the American Carnation Society by the individual grower or a committee of a local club."

President Hartshorne took up the subject in his address in Chicago in 1905. He recommended the exhibiting of new varieties at shows held at different seasons of the year, and the granting of the society's certificates for the period at which the flowers were shown. He also favored visits of inspection at the grower's establishment by committees appointed by the president. In the discussion of that part of Mr. Hartshorne's address, Mr. Ward, as a member of the committee appointed to consider same said, in regard to the recommendation for a visiting committee to visit different seedling growers and judge of the seedlings growing at different times of the year: "It was the sense of this committee that that was not a practical suggestion. We have a committee of that kind in connection with the New York Florists' Club, and while in the main it is working fairly well, we find that there is a great deal of local prejudice there, and that sometimes that prejudice makes quite a considerable feeling where these things are judged; so the recommendation to cover the whole United States we cannot see that it is practical and we have reached the conclusion to report against that recommendation."

The discussion of the subject at Boston last year has already been touched upon.

The foregoing citations from the society's reports are given to show the perplexing nature of the problem under consideration, as well as to present the opinions of prominent men in the society on a most important subject that is ever recurring in the society's deliberations, one that seems very difficult of satisfactory adjustment.

Important to Exhibitors at Toronto.

The arrangements for the carnation convention are all made, and all that is wanted is good weather and a good crowd of delegates to make it a grand success. Exhibitors should be sure to use the official label, and also be sure to pay single first-class one way and ask for a certificate so that all may get the benefit of the cheap rates. The official label will simplify matters with our custom department at this end. We have made arrangements for all goods so labeled coming without any trouble. Stock sent by express should be addressed to E. F. Collins, City Hall, Toronto, and stock sent in other ways should be sent in "bond to Toronto," when we will not have any trouble in getting it released. To exhibitors coming with their stock, be sure and have it "bonded to Toronto," as if not in bond it will be examined at the border and duty collected on it. Again, use the official label and ship "in bond to Toronto." Come all who can and have a good time with us. THOS. MANTON,

CARNATIONS

Many are of the opinion, freely expressed at recent exhibitions, that the ultimate limit in the improvement of the carnation has been reached and that nothing superior to what has already been accomplished need henceforth be looked for. The never-ceasing onward movement in all lines of progressive endeavor, as witnessed on every hand, affords a forcible argument against this view. One of scarcely inferior force is supplied by the fact that the utterly perfect carnation is still wanting.

When, in estimating the worth of the present-day carnation, the plant, its constitution, habit and behavior—and not merely the very best one of its blooms—is considered, it will be found that there is yet plenty of room for improvement. In the advancement of carnation culture a most splendid course has been run. But it is time to grant sober survey and staid contemplation a place alongside boundless enthusiasm.

The Exhibition Carnation.

Carnation blooms, as displayed at our public shows, produce a dazzling effect and usually form the most attractive feature among the various exhibits. As a means of arousing greater interest and promoting trade, nothing more fully answering the purpose could probably be planned. But when this gorgeous array of blooms has been brought together for the sole purpose of guiding the judges in deciding upon the merits of varieties thus set before them, this purpose is not fully served. Flowers as staged nowadays in no way reflect the true status of the present-day carnation. The prizes awarded cannot be relied upon as truly setting forth the real value of any one variety as gauged by the commercial grower. There was a time when this could safely be done, not so now. Twenty-five or fifty blooms, selected for exhibition purposes from as many as five or ten thousand plants, and these under

Imagination vs. Reality.

The fact that the carnation is the leading flower as to popularity and extent of cultivation, has led a great many people to look upon its culture as the most profitable of industrial pursuits. In an abstract point of view this is all very well, but in actual practice it has proved deplorably wrong. The profits now possible to be realized in the raising of carnation blooms for the wholesale market are in no way commensurate with the cost of production, or proportioned to the profits made in most other lines of floricultural exertion. Effusions respecting the great profits in carnations which imaginative enthusiasts indulge in from time to time very rarely bear the dry light of numerical calculation.

There are growers, no doubt, who by an occasional hit or combination of favorable junctures have for a season, or probably two, made money by growing carnations for the cut flower market. But in trying to make things come their way a second time, or to hold fortune's favor for a number of successive seasons, they generally were out in their reckoning and met with results more or less discouraging. Of the many beginners who invariably went into carnations first, few remained in it any great length of time, either selling out to some other new-comer or turning their places into something that more liberally rewarded their labors. And what would become of those large, superbly planned carnation establishments, were it not for the prop that their millionaire owner's idle capital affords, or for the flourishing sale of plants and rooted cuttings; or should all this fail, a timely branching out into other lines of commercial plant traffic? It is not the raising of carnation blooms, pure and simple, that will uphold them. Even those who consider empty halo worth striving for cannot afford for any great length of time to disregard substantial gain. Anyone who has sampled all the different varieties of experience in the growing of carnations commercially, while perhaps seeing no cause for regret, finds still less for boundless gratification when summing up the net profits at the end of the average season.

most eagerly sought for and brought the highest price, which certainly is not now the case. I will not state it as a fact, but it is likely that indoor culture during all or the greater part of Summer, as practiced nowadays, aside from its being more expensive than old-time field culture, also tends to diminish net receipts by inducing the plants to throw most of their flowers at the most unfavorable seasons as far as demand and prices are concerned.

The frequent renewal and providing of reliable stock for every ensuing season, owing to the rapid deterioration of present-day varieties, now is a matter of considerable expense and great uncertainty. But there is no choice; either this or incurring still greater loss by holding on to varieties fast giving out and barely worth growing.

Then, too, the great loss of stock from various causes, often beginning in the cutting bench and never coming to a stop until it ends with the wholesale sacrifice of the finished product at the overstocked market, is a vastly deeper cut into the clear profits of present-day carnation culture than most growers are aware of. The loss of valuable stock through stem rot alone amounts to many thousands of dollars every year, while the loss through waste of salable blooms at times when the cut brings nothing or very little is incalculable.

All these are causes most active in the lessening of clear earnings looked forward to by the actual carnation grower. But there are others not less obvious to anyone observant and on familiar terms with truth-telling figures. There is nothing quite so convincing as one's own accurate figures.

What Is Needed.

What now is most needed is a greater number of those varieties, commonly styled commercial or bread and butter carnations, these to help us along until finally the ideal carnation makes its appearance. This, as I have it in mind, should combine all the good qualities found in the present-day exhibition as well as commercial carnation, as also those once possessed by the carnation of bygone days. The reclaiming of these properties, naturally inherent in the species, but lost while striving for length of stem and size of bloom, should be made one of the chief aims in future hybridization. On these qualities—health, lasting vigor and profusion of bloom—we build our hopes of being adequately rewarded for labors in a line of carnation culture, far more important than the mere capturing of prizes awarded to a handful of blooms searched for among thousands of plants. What now is most needed is a race of carnations, not necessarily less exacting as to culture, but more to be relied upon as bringers of satisfying returns when grown as producers of marketable flowers for wholesaling. This, I think, should be the cardinal point in estimating the value of a carnation. Uncle John Thorpe set up a lofty ideal for hybridists to aim at, little aware perhaps that one of his own productions came nearer to being the commercial grower's ideal than any other variety since sent out. I claim that no carnation introduced since ever paid the actual grower better, or for so long a period, as did Portia in its time. Nor do a great many of the newer carnations prove as profitable as once did Lizzie McGowan, Grace Wilder and William Scott.

FRED W. TIMME.



Split Flower

Model of the Pincers

Flower after Mending

Baur Floral Company's Clip for Mending Bursting Carnation Blooms

the highest of culture and at their very best at the time, furnish, in my opinion, no reliable standard for correctly judging that variety.

It has already been found necessary to divide the newer productions into two classes—the exhibition and the commercial carnation—a proceeding at all times indicative of something amiss in the affairs of progressive effort. It might well be asked what is the difference between the two? Are exhibition carnations too good for the general market, and commercial varieties not good enough to be exhibited? Are exhibition carnations such that under an extra amount of pampering care produce amazingly fine flowers, but so sparingly and at such a cost that they cannot be grown for the market with anything like adequate profit? What then, I ask, has been accomplished in the interests of him who grows carnations for a living? Is it not about time to do something for him?

Some time ago—not at the holidays—I had occasion to admire a few hundred carnation blooms of the exhibition type at the salesroom of one of our largest growers. The flowers were held at \$8 per hundred. I considered it a good price according to what carnations then brought, and said so. But I was assured by the grower that everyone of the blooms, moving slowly at 8c. a piece, cost him 10c. to produce—a profit truly out of sight.

Why Should This Be So?

Why should carnations, as produced to-day, they being much finer, much more in demand and bringing higher prices, be less profitable to grow than those raised years ago? Is it to be inferred that steadily advancing improvement runs on lines concurrent with steadily decreasing profits? Surely the conclusion is one to be avoided if by any possibility a less startling explanation can be found. The larger amount of capital invested in up-to-date carnation houses, as compared with those of former times, the greater cost of equipment and running repairs, the higher price of material, labor and fuel, all combine in cutting down clear gain. But all this has not increased initial and running expenses any more in the growing of carnations than in that of other crops, which latter prove as profitable as ever and some even more so. Why not carnations? Truly it cannot be laid to a decline in interest or lack of cultural information. We must search farther.

Going back to a time when long-stemmed carnation blooms had already displaced the stemless flowers on the market, say twenty years ago, we find, in comparing notes, that at that time plants produced twice and three times as many marketable flowers as do plants to-day, averaging up from ten to fourteen varieties, as grown then and now. And besides this, it is found that at that period the main crops of flowers were marketed at seasons when they were

Manipulating Split Carnation Flowers.

Improved methods in growing carnations and the introduction of improved varieties, though having made great progress in the last decade or two, have not as yet mitigated to any great degree the provoking habit in the divine flower of producing a large percentage of malformed blooms, commonly termed "splits." How to mend these flowers so as to enable the dealer to obtain as high a price for them as possible has no doubt engaged the best thoughts of not a few carnation specialists. Split carnations are a product of every carnation growing establishment, which, we are safe to say, will be with us for some years to come at least, and what careful cultural methods fall to accomplish while the blooms are developing on the plants must be provided after they are cut. As yet, little progress has been made in the introduction of appliances calculated to turn these malformed flowers into a product deserving of recognition in commerce or on exhibition tables. It remains for us, then, to find some means of fastening the calyx and petals into their natural position that is either entirely invisible, or if detected, leaves no room for any objection.

A little device, recently invented, and for which a patent has been applied by the inventor, A. J. Baur, Erie, Pa., we believe gives us something that is practically invisible and leaves no possible room for objection from even the most particular customer; for instead of passing around or through the flowers, the little wire clip used serves simply to clasp together the two broken edges of the split calyx, holding it in its natural position and bringing the petals into exactly the position that they would have occupied, had the calyx not been split. So thoroughly well is this accomplished, that the flowers, after being thus mended, have been regularly sold with the highest grade at the highest price of fancy blooms, and thus far not a single objection has been heard.

The accompanying illustrations give a good idea of the work done by the device mentioned. Figures 1 and 2 are reproduced from photos as nearly true

to life as an expert photographer was able to make them. They were taken from the same flower, of the variety Mrs. Thos. W. Lawson, before and after mending. The small portion of the wire clip used to mend the break that shows outside the calyx, may be seen in the illustration if carefully looked for. No effort was made to conceal anything in taking and finishing the pictures, the photographer being instructed to bring out the details as nearly true to life as possible. The wire clip, being made of galvanized wire, is almost absolutely invisible against the color of carnation foliage. In the illustration showing the mended flower, a slight malformation may be seen in the arrangement of the petals. This is due to the difficulty of having been compelled to put on the clip with a common pair of pliers, the brass model being in the hands of the manufacturer at the time of taking the pictures. One of the guard petals was destroyed in the operation, giving a portion of the flower an empty appearance. Figure 3 shows the pliers that are used in applying the clips. The photograph was taken from a wooden model, for the reason that the brass model was in the hands of the manufacturer. It was not possible to show the smaller details in the instrument on this account, but the picture gives a good idea of the general construction of the pliers. The jaws are shaped so that the wire clips can be easily and quickly picked up. The front end of the pliers is provided with two prongs, by means of which the stray petals are pushed up into their natural position with one movement, and the act of catching the two broken edges of the calyx and pressing down the teeth of the clip, complete the operation, and it is all done in much less time than it takes to tell it. The clip used at present and shown in the picture is made of No. 22 wire, but a smaller size wire will be used in those that will be offered for sale, namely No. 25.

The inventor anticipates a great demand for the device, and with that in view has given a large order for its manufacture. He will be at the convention of the American Carnation Society to be held at Toronto this month, where his invention and the work done by it will pass under the critical scrutiny of the foremost carnation men of the country, and expects soon thereafter to have the article ready to offer to the trade. E.

A Critical View of Winsor Carnation.

At Scarborough, N. Y., there is a most wonderful transformation occurring, for here among the foothills, on newly purchased land, coming right down to the railroad station, the F. R. Pierson Company is establishing what most assuredly is destined to be the most picturesque and beautifully located plant nursery in America. These grounds at present cover nearly sixty acres, and many fine collections are to be seen. The newly acquired grounds form part of an idealic landscape. High up on the bluffs are obtained superb views of the Hudson River, with its guarding Catskill Mountains or palisades stretching away on both sides many miles in the distance; and from the ravines or vales here can be caught the most enchanting views of an unparalleled panorama of nature's own work. Mr. Pierson intends to enrich this scenery by an extensive and select collection of the flora of all countries grouped in ways that will not only command admiration, but do much to encourage higher ideals in landscape work. Here, too, there is being brought into existence, as it were, a veritable ocean of glass; monster crystal-



New Houses of F. R. Pierson Company, Scarborough, N. Y.

like plant forums or palaces surpassing the dreams of past generations.

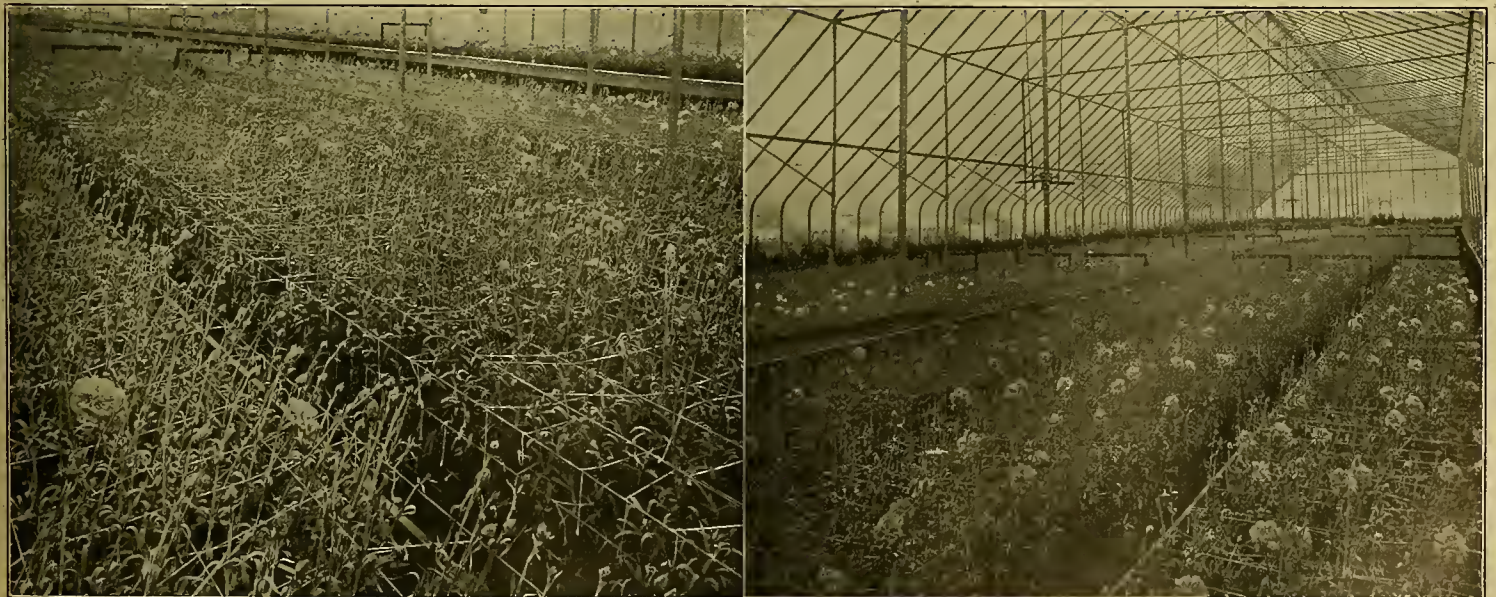
In addition to the well-known eight 300-foot rose houses, there have recently been built three plant houses over 300 feet in length and nearly sixty feet in width. To merely stand at the end of one of these gigantic structures almost bewilders one, and conjures up memories of the days—even in our own time—when the entire commercial plant houses of the State could almost be put within one of these magnificent triumphs.

'Twas here, in one of these enormous plant houses, built on the U-bar design, that we, in company with a party of expert growers from many States, found ourselves amazingly admiring one of the grandest sights we at least have seen for many years, and positively the best individual flower-growing picture we have ever seen. It was a house of blooms and buds of the new carnation Winsor. Stop a minute and follow me; let your imagination and the facts commingle in pleasure and surprise. We are in an immense glass house which in itself represents the very highest type of a commercial plant house—the most advanced product of horticultural-architectural brains. This particular house is 300 feet long, 50 wide, heated and ventilated by the latest improvements among which are numerous innovations. In it are ten seemingly endless beds or solid benches divided half way by a 6-foot passage-way. In these beds are planted fifteen (15,000) thousand Winsor carnation plants and on these plants—by a carefully counted bench—a fair average would place the number of visible buds and blooms on these 15,000 Winsor carnation plants this day, the 9th of January, at 165,000. Some may look upon these figures with vast incredulity, but they are there to be seen nevertheless. Is there anywhere such another sight? Was there ever such a sight?

And what is this carnation? Let us consider it from a cultural standpoint; yet first let us say it is one of the divinest of the "Divine flowers." In its

history we find that it is a seedling raised from the pollen of the varieties Daybreak and Albertini, on that of Lawson, resultant in an entirely distinct and far superior creation, yet, withal, retaining all in its excessive superiority, that which is best in its triple parentage. If there is any predominant element in its bearing it is that which distinguishes the Lawson. Its robustly healthy and profuse foliage is, if anything, a shade lighter than that of the above mentioned variety. Its flowers are borne proudly on a stiff, sturdy, upright stem on an average of from 14 to 24 inches in length, sufficiently long enough for all and every purpose for which carnations are used. There is none of that costly and unfortunate snappy brittleness about the stem that characterizes those of other varieties, for its stem is loth to part with the flower as the bloom is in its tenacity of loveliness. In all of these thousands of developed and prospective flowers not a single bursted calyx was discernible, nor have we heard of any among the thousands that have gone before. In size it is the equal of Lawson or the vast majority of those known to commerce. In productiveness it has no equal. Among its myriads of foliage there is not the slightest sign of weakness or the ills peculiar to many carnations. It is in every way the commercial carnation, par-excellence, of to-day and of the future; and when we say "commercial carnation" we mean to give it the full significance of that appellation which is warranted by its past and present actualities and its vividly apparent prospects. Here, as if to prove in a practical way its longevity and endless productiveness are three benches of Winsor planted two years ago. They have never been disturbed, merely receiving the ordinary culture necessary to stock plants. To-day, they are a mass of healthy foliage, blooms and buds, vying in a way with their progeny's grandeur—a revelative sight indeed to behold.

Twelve thousand of the plants were put out in these solid beds from 2½-inch pots last June. Large shipments of flowers were gathered in early Octo-



Carnation Winsor in Greenhouses of F. R. Pierson Company, Scarborough, N. Y.

CLUB AND SOCIETY DOINGS.

ber. In November ten thousand blooms were picked. In December twenty thousand flowers were shipped from them to the most critical of all markets, and the fairest calculation is that they will produce thirty thousand select flowers in this month of January. The yield at present for these twelve thousand plants averages one thousand fine blooms a day, with an endless chain of them in sight; and so by this it will be seen that Winsor answers the call magnificently at and during the time flowers are most profitably wanted. It is in no way or sense one of those spasmodic or uncertain varieties called "croppers." It is a continuous and dependable bloomer, and in this particular it is at once the poor man's friend and the rich man's pride. "Pick and come again to-morrow," is a consistent and applicable motto for this grand flowering plant.

To illustrate how highly it is valued in the New York cut flower market would require much space; suffice it to state that it brought \$20 per hundred, wholesale, at Christmas, and now averages from eight to twelve cents. Some time ago, in our "Retailers' Notes" (which particular item was reprinted in European horticultural papers), we stated the day would come when American growers would supply Europe in Winter with American grown carnations. We had in our mind's eye at that time such a carnation as the Winsor, which for its lasting qualities unusually mark and establishes its claim to being one of the most durable and best of all shippers—a vital consideration in the market at least.

In our depiction of Winsor as growing in the so-called solid bench, it must not be inferred that we either argue in favor of this system or that Winsor is particularly susceptible to its advantages, for in one of the other large houses mentioned it is shown grown on elevated benches, and under various treatments, on and through all of which it surpassingly recommends itself to the most critical. For instance, the plants on one elevated bench were from 2½-inch pots and planted here on August 1. Flowers were gathered from these in November, and there is a fine crop on them now. This particular bench is the wonder and admiration of all visitors.

There are many hundreds of new beginners and long-struggling flower growers in this country who cannot afford to either invest sparse capital or devote their days and nights in doubtful experiments with highly-colored and floridly-lauded novelties. Winsor especially appeals to those who need a surety. The conditions attendant to the present era demand to be met with a large amount of resolute certainty. No one, not even the wealthiest, can afford to deal with or look complacently on failures or a too long deferred success. Immediate and lasting results are every business man's ambition, and it is a certainty that Winsor will be a boon to all who grow it; more especially will its great qualities recommend it to the small grower with a local trade, the private gardener, who must provide flowers at all times, and to those who supply the needs of a fastidious market.

While it establishes a new standard in the pink color, one which will often be referred to and equals most flowers in size, and will in every sensible way equal the best exhibition varieties, yet unlike most fancy carnations it does not depend for future existence or popularity on the temporary and fast-fleeting praise or victories of the exhibition table. Winsor from its present appearances intends to stay and long remain an ideal money-making carnation. Its color is solid pink, almost true pink, darker than that of William Scott, much lighter than that of Mrs. Lawson. The retailer values it highly because its color renders it adaptable to all uses. It is sublime under artificial light, inspiring in daylight, lending its beauty to conform with the laws of harmony when in juxtaposition with most other flowers. We recommend it because it is more than good—it is magnificent.

J. IVERA DONLAN.



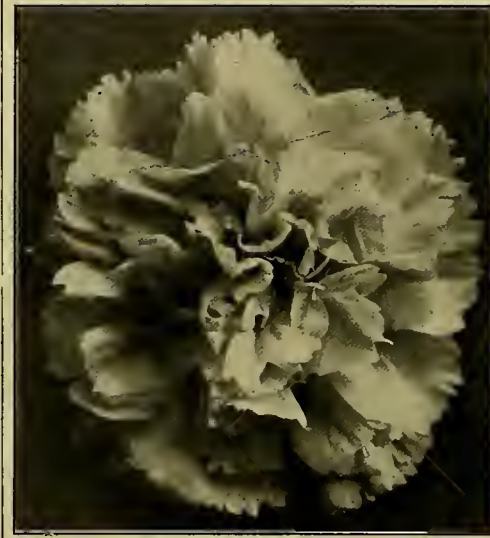
James Sharkey.

James Sharkey died at his home in Roslindale, Mass., on Friday, January 11, after an illness lasting only three weeks. Mr. Sharkey, who was one of the well-known gardeners of Boston, was born in Ireland 55 years ago. He was a graduate of the Glasnevin Botanical Gardens, Dublin, subsequently being with Hugh Low & Company, Clapton Nurseries, England. On coming to America he was in the employ of Professor Sargent at his Brookline estate, afterward having charge of the estate of Mrs. A. W. Blake. He was for more than a decade connected with the Boston Public Grounds Department, then in charge of the late William Doogue. About 4 years ago he left this department and for a year or more had charge of the planting of various estates for Edward MacMulkin. For the past three years Mr. Sharkey has been with the firm of R. & J. Farquhar & Company, having done considerable ornamental planting for them in various sections of the country; but recently he had been in charge of their greenhouse department at Roslindale. Mr. Sharkey was of a retiring disposition but will be missed by a host of friends for whom he had at all times a kindly word.

J. W. D.

NEW YORK FLORISTS' CLUB.—The meeting held on Monday evening, January 14, 1907, was one full of interest, it being the occasion of installation of officers, the reading of inaugural addresses, appointment of committees for the year, and other important business. There was a large attendance of members. The retiring president, John Scott, introduced the newly elected president, C. H. Totty. Mr. Scott, in his valedictory remarks, complimented the club on the work done during the year, which had tended to make the twelve months just past a banner year in the history of the organization.

Mr. Totty makes a first-class presiding officer, and went into the work of his new office like an old-timer. In the course of his opening address he referred to the progress which the club had made, both in increase of membership and in the regard with which it is considered by the horticultural world. His aim would be to put no obstacle in the path of its progress or to deviate from the policy that had successfully marked the terms of his predecessors. He made a suggestion that the club appoint a committee on closer relations with the S. A. F., and thought that much good would result if all the horticultural societies throughout the country had a connection with each other through the national organization. Regarding the title of the club, he questioned whether the name had not in the past acted—as some of the



Single Bloom of Carnation Winsor.

members thought it had—to keep out a large body of private gardeners, who, as practical horticulturists, would be valuable men in the club's ranks. If such a view did exist, he urged that means to correct it should be found. Whether this could best be done by personal solicitation, or through the operation of a special committee, he left to the club to decide. At all events, an effort should be made to induce more private gardeners to become members. He recommended that the award committee use its best judgment in scoring exhibits, so that the New York Florists' Club's approval placed on any new plant or flower will mean that that particular variety is worthy of such an honor. He advised keeping the merit marks up to the standard, and to be governed, as in the past, by an honest and conservative estimate of the novelties submitted for adjudication.

A greater use of the question box was also urged. He recommended a continuance of the outing, which was the "children's and mothers' day;" and suggested the establishment of a bowling team in connection with the club, regretting that New York makes such a poor bowling showing at the annual conventions of the S. A. F. The question of the annual dinner was also touched upon.

Mr. Totty said he would like to see some provision made before long for a permanent home for the club, and would favor the appointment of a building committee which could look over the field and study out ways and means to acquire title to property in the name of the club. He hoped a financial plan could be evolved whereby, without touching upon the present balances of the club, something could be done as a commencement along this line.

In conclusion, Mr. Totty asked for the encouragement and support of every member during his term of office.

He was followed by Vice-president A. J. Manda, who also touched, among other things, upon the necessity of acquiring a larger membership from the ranks of the private gardeners, and the continuance of monthly exhibits. Brief speeches were also made by Secretary Young, Treasurer Wheeler,

trustees John Scott and W. F. Sheridan, all promising their best efforts in behalf of the organization.

President Totty appointed the following committees for the year: Legislative—Patrick O'Mara, W. F. Sheridan and E. V. Hallock. Essay—Alexander Wallace, John Scott and Patrick O'Mara. Award—W. H. Duckham, S. S. Butterfield, Joseph A. Manda, Jr., Henry Hurrell, R. C. Pye, Harry Turner and H. Hoffmeier. Exhibition—James T. Scott, A. J. Guttman, C. Webber, E. Dailledouze, Philip Kessler and H. Weston. Outing—Frank H. Traendly, J. A. Shaw, Alfred Rickards, G. Burnett, W. E. Marshall, John Donaldson, Alfred Zeller, M. Gottleb and A. H. Langjahr. House and Entertainment—John B. Nugent, Jr., Wm. Rickards and R. M. Schultz. Dinner—John Scott, John Birnie and W. F. Sheridan.

Treasurer Weathered read his report, showing a balance of \$2034.57 in the treasury.

W. J. Stewart on behalf of the committee read resolutions prepared on the death of Mrs. E. V. Hallock, which were ordered spread on the minutes and a copy sent to the family of the deceased.

The following were elected members: Paul Niehoff, J. D. Cockcroft, John Seligman, Joseph Levy, Malachi Tierney, and C. R. Glockner.

Nominations were made as follows: Robert E. Berry, H. A. Hornecker, A. Weissenberger, A. Bergerow, A. E. Faulkner and George E. Dickinson. John Donaldson was elected a trustee to serve out the unexpired term of Mr. Totty, elected to the presidency.

Considerable discussion ensued on Mr. Wheeler's motion to change the by-laws whereby the treasurer would be placed under bonds. The matter was ultimately referred to the board of trustees.

Secretary Young read a letter from C. H. Allen, Floral Park, N. Y., expressing appreciation of his election to honorary membership.

A very pleasant feature of the evening was the presentation of a handsome silver tea set to Charles B. Weathered, the retiring treasurer. Mr. Sheridan in making the presentation said:

"The roll of membership of the New York Florists' Club contains the name of a man who was one of its organizers. During the life of the club he has been a most zealous worker in its interests. He has given his time and effort to carry it through periods when it seemed there was little left but its name. He has aided all its officers by his advice. His loyalty was certain; his enthusiasm never flagged. He was one of the incorporators of the club and its treasurer for nineteen years, always resisting any unnecessary draft on its funds, yet with his own purse he was ever ready to assist all projects that might redound to the fame of the club. All of us can testify to his unfailing courtesy. That he should be always reminded of their appreciation and esteem, his fellow members have delegated to me the pleasant duty of presenting to Mr. Weathered a tea set to grace his board, to remind him of the esteem and affectionate regard in which he is held, and to wish him and Mrs. Weathered a long and happy life." (Applause.)

Mr. Weathered received a grand ovation, the members rising to their feet and applauding him for several minutes. He feelingly, and with tears in his voice, expressed his great appreciation of the gift, which was highly prized by himself, and which he knew would be equally prized by Mrs. Weathered. It had always been a pleasure to him to work on behalf of the New York Florists' Club, and this token of their appreciation and esteem would be handed down to those of his family who are coming along as an incentive to them to do likewise.

Phil. Hauswirth, of Chicago, secretary of the S. A. F., was present, and made a neat speech, in which he urged the carrying out of the president's suggestion relative to the appointment of a committee on closer relations with the national society. He believed every club in the country ought to do that. In the early days each of the florists' clubs was organized to do the preparatory work connected with the annual convention of the S. A. F., and he was of the opinion that the same interest should be maintained. Referring to the contemplated national flower show to be held in Chicago, Mr. Hauswirth pleaded for the co-operation of eastern growers, without which, he said, it would be impossible to present representative examples of the stock grown in America. He lauded the ability of the eastern growers whose stock was second to none in the country.

President Totty, in speaking of the recent exhibition held in Chicago, stated that had the members witnessed the able and speedy manner in which the work of getting up a show was done there, they would think the decision a wise one to hold the national flower show in that city.

Benjamin Hammond, Fishkill, N. Y., secretary of the American Rose Society, spoke a good word for the forthcoming exhibition of that society to be held next March in Washington, D. C. He told of the great benefit of flower shows generally, and said that it was the duty of every florist to help such shows along.

Robert Simpson, president of the Rose Society, followed, speaking on the same lines as Mr. Hammond. Mr. Simpson suggested that it would be a good plan for some of the members of the club and others interested in New York to donate special premiums for this particular exhibition. He urged the growers to make a representative display of rose plants in pots.

A discussion then followed on the nature of the annual dinner; some favored a beef-steak dinner, or one on lines different from those of the past two or three years. It was finally decided that the annual feast, as usual, be enjoyed some time in

February, and that the price of the tickets be \$5. President Totty appointed as a committee on closer relations with the S. A. F.; Alexander Wallace, W. F. Sheridan, John Birnie, F. H. Trendly and John Scott.

The meeting, which for interest and business done augurs well for the success of the present administration, adjourned at a late hour.

The exhibits consisted of a plant of moschosma, shown by W. H. Duckham, Madison, N. J., which was covered with tiny white flowers, somewhat resembling the tamarix in appearance. The award committee expressed the wish that the plant be shown again. The moschosma is closely allied to the herb basil, and if the variety exhibited can be successfully raised from seed, it should be a desirable subject for commercial purposes. F. G. Mense, Glen Cove, L. I., showed a plant of a new dwarf salvia, *S. nana compacta*. The plant was one year old from seed, and was covered with rich scarlet blossoms; the committee requested that this variety be shown again. Edward J. Norman, Lee, Mass., showed a collection of *Cypripedium insigne*, in variety, for which he was awarded a cultural certificate. The Cottage Gardens Company, Queens, N. Y., exhibited a vase of well-grown blooms of the new carnation Beacon; this variety having already been awarded a preliminary certificate, no further award can be given until the club's committee visits the grower's establishment. W. C. Krick, Brooklyn, showed some of his patented flower pot hangers and holders, for which he received the thanks of the club.

ST. LOUIS FLORISTS' CLUB.—At the meeting on Thursday afternoon of last week the members had a hot old time. Regarding the flower show proposition, it looked like the case of one man closing up shop in order to give the other man a chance. The meeting opened at 2:30 p. m., with President Irish in the chair, being attended by forty members, a few visitors, and a delegation from The Horticultural Society. After regular routine business the chair called for the report of the flower show committee. F. A. Weber being out of the city, Secretary Beneke read the report, stating that \$2,540 had been subscribed. This amount did not seem to satisfy some of the members, who moved to squash the flower show, as the \$10,000 had not been raised. This motion was very sensibly ruled out of order by the chair, as the minutes showed that the time allowed the committee to raise this sum was the February meeting. Two applications for membership were presented—one by Pierre Schneider, the other by Henry Niemeyer, both of Kirkwood, Mo., growers for this market. Frank Fillmore moved to have a carnation exhibition at the next meeting, and \$50 in prizes were offered the trustees to rent a hall for same and have full charge of the exhibition. Swan Peterson, Gibson City, Ill., exhibited a vase of his fine white seedling carnation, No. 127. This the judges awarded eighty-five points, and voted it as a coming commercial variety. The judges were Emil Schray, J. F. Ammann and A. Jablonsky.

The question box brought out a number of interesting topics which caused quite a discussion. The next meeting will take place February 14 in the hall provided by the trustees, when the carnation exhibition will be held. This meeting will be open to all florists and the public, to whom notices will be sent by the secretary. ST. PATRICK.

WASHINGTON (D. C.) FLORISTS' CLUB.—The premium list for the Spring exhibition to be held in conjunction with the American Rose Society, March 13, 14, 15, 1907, has been issued, and embraces prizes for stock seasonable at that time. Premiums have been donated by Peter Henderson & Company, S. C. Briggs, Henry F. Michell Company, John Clark, Peter Bisset, George Field, the local florists' club, George H. Brown and Charles McCaughey. Special prizes are offered for the best hybrid geranium, best seedling carnation, and best seedling rose, the two latter to be shown for the first time. Copies of the list can be had on application to Charles McCaughey, secretary, Eighteenth and Kearney streets. N. E.

TARRYTOWN N. Y. HORTICULTURAL SOCIETY.—The eighth annual dinner of the society was served in the Florence Hotel Wednesday evening, January 9, when upwards of sixty members and their guests partook of a well prepared menu, and spent a very enjoyable evening. The tables were tastefully decorated with carnations; sweet peas, *Adiantum Farleyense*, *Asparagus plumosus*, and *A. Sprengeri*. Some fine vases of Winsor carnation came from the F. R. Pierson Company and were greatly admired. Mr. Saltford of Poughkeepsie had a number of blooms of a monster pink carnation seedling, each bloom measuring four inches or over. A great feature in this variety is its fine serrated petals and full center. It may be best described as very much resembling a carnation poppy.

Among the many after dinner orators were W. A. Ely, who ably officiated as toastmaster; District Attorney Yeung and Surrogate Millard. F. R. Pierson told of the good work accomplished by this society, not only locally, but wherever horticulture was the issue throughout the United States. He said that the society had a financial credit of nearly \$1,000—and hoped in the near future that the permanent fund would be strong enough to carry the society, independent of annual collections.

DAVID McFARLANE.

MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY.—The third annual dinner of this society was held at the Sheridan Hotel, Thursday evening, January 10. About sixty members and invited guests sat down to a bountiful supply of good things. The tables were tastefully decorated with plants and flowers supplied by the members. Judging by the happy expression on all faces I am safe in stating that one and all passed a pleasant evening. Regrets were heard from all present at the absence of one of our members—yes, and the father of this society—but I know if he was not there in person his heart was with us. I refer to Nicholas Butterbach who was confined to his home by a serious illness. Morris county was represented by Messrs. Herrington, Totty, and Schultz. Mr. Herrington officiated as toastmaster. We were fortunate in securing his services for this occasion, his



E. Dale
Pres. Toronto Gardeners and Florists' Club

BOSTON GARDENERS AND FLORISTS' CLUB.—There was an attendance of just three hundred and sixteen members and ladies at the meeting of the Gardeners and Florists' Club on Tuesday evening to welcome the new officers to their respective chairs, and listen to the entertaining talk on gardens of Southern Europe by John K. M. L. Farquhar. Mr. Wheeler in opening the meeting thanked the members for the support that had been given him during the past two years, and in a few well chosen words introduced his successor in office—Thos. H. Westwood. Mr. Westwood in assuming charge of the meeting thanked the members for the honor conferred upon him, and asked for the co-operation of all the members in assisting him to further the interests of the club for the coming year.

The treasurer's annual report showed a balance of \$446.09 to the credit of the club, a substantial increase over last year's. Seven new members were elected. A letter from William Nicholson, resigning from the executive committee, was received with much regret. William Downs was elected to the vacancy.

On the exhibition tables were two exceptionally well-grown plants of *Begonia Gloire de Lorraine* from William Downs, for the excellent cultivation of which an award of superior merit was made. *Begonia Gloire de Lorraine* var. *superba* was exhibited by R. & J. Farquhar & Company and report of merit awarded. A similar award was given new violet Boston, exhibited by William Sim, which is a decided improvement on any other single violet that has yet been shown here. Some very well-grown cyclamen were exhibited by S. J. Goddard, and a vase of carnation Beacon by Peter Fisher.

The business session being short the entertainment part was started by recitations by Miss Grey, daughter of Thos. J. Grey, a former president and one of the original members of the club. Mr. Farquhar in beginning his lecture threw on the screen portraits of several of the officers and prominent members of the club, a feature which was received with great applause. He then carried his hearers on a brief trip from Gibraltar through the Mediterranean to Italy and back through Southern France to Paris. After the lecture refreshments were served and another of the "nights" for which the club is getting famous passed into history. J. W. DUNCAN.

NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY held a meeting on January 8, with Alex. Mackenzie in the chair. Two members were elected. The monthly point competition for 1906 resulted as follows: Winner of gold medal, S. J. Trepass; silver medal, H. F. Meyer; bronze medal, A. Mackenzie. F. Boulon & Son won the prize for 100 single violets; H. F. Meyer, that for 18 carnations arranged for effect. Chas. Lenker was the winner for best flowering plant. The executive committee is composed of Thomas Harrison, James Duthie, C. Bertanzel, A. Johnson, and William Maher. J. W. E.

Toronto—The Convention City.

The beauties of the convention city—Toronto—are not unknown to many members, who were fortunate enough to journey there when the S. A. F. crossed the border to hold its annual convention. Rich in historic memories, Toronto is a city of homes, its buildings comparing favorably with those of any to be found in the Dominion or in our own country. Parks of large expanse and great natural beauty may be seen in every section of the city, while the deep ravines of Rosedale, the heights on the Northern boundary, and the wonderful panorama of Lake Ontario's changing tints lend their added loveliness to the surroundings. Even in Winter Toronto is not without its attractive charms, the climate being very moderate.



City Hall, Toronto
Where Exhibition and Meeting of A. C. S. will be held

remarks being timely and to the point. He kept things moving from start to finish. William F. Woodhill of Brooklyn rendered tender solos, and A. J. and W. C. Rickards and Percy Hicks all helped along the musical part of the program. W. T.

PROVIDENCE (R. I.) FLORISTS' CLUB.—On Thursday evening, January 10, 1907, the members of the Florists' Club of Providence, to the number of about 50, celebrated the eleventh anniversary of their organization with a dinner and entertainment. The festivities took place in the new store building of Rennie & Thompson, 135-137 Washington street. The room and tables were elaborately decorated for the occasion with palms and cut flowers.

The dinner, which began at 8:30, was preceded by a social half hour. It was followed by a stereopticon entertainment, the first part of which was of an amusing nature and consisted partly of good-naturedly humorous hits at the pet traits and peculiarities of club members, which were received with glee by their fellow members. The second portion of the entertainment consisted of a travel lecture, accompanied with views of England, Scotland, Ireland and Wales. The lecture was by W. B. Wilson, field secretary of the Sunday School Association. Dr. A. J. Wheeler of the Rhode Island Agricultural College was present as the guest of the club. Arrangements for the occasion were in charge of a committee consisting of M. Sweeney, chairman; William Appleton, Alexander Macrae and Secretary William E. Chappell.



E. F. Collins
Sec. Toronto Gardeners and Florists' Club

FOR THE RETAILER

[All questions relating to the Retail Trade will be cheerfully answered in this column. We solicit good, sharp photographs of made-up work, decorations, store interiors, etc., for reproduction here.—Ed. F. E.]

The Carnation in Decorative Work.

The carnation, probably the best known flower in the temperate world, and especially dear to the hearts of Americans at this season, when we are reminded of the great and lovable man whose favorite blossom it had the honor to be, inspires me to devote my article this week to that most useful florists' flower.

Fifteen years almost covers the evolution of the carnation as it is known in this country, from the comparatively insignificant varieties, such as Lizzie McGowan, Daybreak and William Scott to the grand selection of to-day with their ever increasing numbers. The rapid improvement of this flower in the United States has been a source of wonderment both here and in Europe, more especially in England,

fewer than three thousand flowers being consumed. They were used to decorate the ball room, on the supper tables and even as cotillion favors, pretty corsages for the ladies, and buttonholes for the gentlemen being a pretty feature.

A dinner decoration of carnations and white lilac was very handsome, the variety used for this occasion being Winsor. A vase about three feet high occupied the center of the table; this was filled with lilac, very loose and feathery, with a large "spray cluster" of Winsor carnation facing either end of the table and reaching almost to the cloth. Four large crescents of Adiantum Farleyense (with the points turned outwards) and Winsor carnations filled in the vacant places. These were built rather low, so as not to detract from the center piece.

Carnations are being extensively used for debutante bouquets, and largely for wedding outfits. Those for debutantes are usually combined with other flowers. A most stunning effect may be obtained by combining purple lilac and Enchantress carnations. The ribbon can be of either pink, the shade of the carnations, or of that of the foliage, green. Crimson carnations do splendidly with mignonette, Cypripedium insigne or C. Leeanum, lily of the valley or any of the smaller white flowers. A bouquet of mixed carnations, if carefully constructed in harmonious colors, creates a very striking effect.

A wedding outfit in which yellow carnations were



Store Window of W. J. Palmer, Buffalo, N. Y. Decorated for McKinley Day, 1906.

where cultivators have fully awakened to the value of American bred carnations, for Winter and Summer flowering. Twelve years ago the only varieties that flowered at all there in Winter were Miss Jolliffe, a cherry red variety called Winter Cheer and a few others, that we would call very shy bloomers. But they doubtless have the advantage over us with Summer flowering sorts especially those which are grown outdoors, probably owing to the difference in climate. We seem to be entirely unable to grow the wonderful Malmaison types, which appear to be the envy of our American customers, who never weary of telling us about this wonderful variety; although a lady, who had spent the last few years in England, asked a New York salesman, if that were not the Malmaison carnation, pointing to a vase filled with superb Enchantress I presume we should feel flattered.

Carnations to-day have taken an important place with our customers. They are no longer looked upon as cheap; in fact, they are no longer cheap. We get just as many important orders for decorations where carnations are to be used as we do for roses. Ever since Mrs. Thomas W. Lawson startled the American public, selling at the hitherto unheard of price of nine dollars per dozen, the carnation has climbed, until it bids fair to be a rival of the rose. Enchantress and that type are claiming the most attention at present, at least in New York. It is most deservedly popular with the grower, retailer and their customers, and is used on every occasion. At a large ball given to society last week, Enchantress carnation was used entirely, no

used was unique. Bowl-shaped gilded baskets, with convenient handles for carrying, were filled with yellow carnations and their own foliage; the showier effect was obtained by long sprays of Acacia pubescens intermingled with tiny loops of narrow gauze ribbon. The handles were also tied with large French bows of wide gauze of the same hue. Carnation foliage, where it can be obtained, should always be used; it is far better than any other green but as a rule is hard to get. I believe it would be profitable to grow as a green; I am sure it would be eagerly bought up.

The lasting qualities of the carnation form one of its recommendations, and the most lasting varieties are naturally the most popular. But my experience has been that it largely depends on the grower and principally on the cutting. The buyer soon gets to know whose carnations last the longest, and naturally places his orders with the wholesaler that handles that kind. The impression among some growers seems to be that the larger their flowers are the more money they can get for them; and for that reason they leave them on the plants too long. A fresh, young flower, even if a little smaller, is much better than fully developed ones that have seen their best days on the plants.

D. RAYBUN.

PLANTS AND FLOWERS.—I send you a flower of a white Cattleya maxima for your inspection. One of the well-known orchid growers informs me that he has heard of but one other plant. It has been expanded about three weeks.

A. A. R.

Mass.
—The cattleya flowers were in rather poor condition when they reached this office. It is evident that the plant is Cattleya maxima alba.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 MADISON AVENUE. My facilities for delivering flowers for any and all occasions are unexcelled; I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

LAMBROS MULINOS, 503 Fifth Avenue, and 301 Columbus Avenue. I have at all times a superb stock of seasonable cut flowers and can fill telegraphic orders at a moment's notice.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders, placed with us, will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLOREST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Tex. and La. Mail and telegraphic orders solicited.

American Carnation Society.
Varieties Registered.

By Baur & Smith, Indianapolis, Ind.

SAINT NICHOLAS.—The brightest scarlet we have ever seen in any carnation; exactly identical with the geranium Trego in color. Does not dull in aging. Large blooms on fine long and strong stem, and very free. At its best during Midwinter, but comes in early and continues late. Clean, vigorous upright grower, with strong constitution. Both parents were seedlings.

MAY.—A full shade deeper and brighter than Enchantress. Bloom of large size and wellformed, opens up the center petals as soon as the bloom is unfolded. Of good substance, and never bursts the calyx. Stem of good, medium length and as strong as that of Mrs. Lawson. A fine healthy grower and very free, comes in very early and never lets up until Midsummer. Both parents seedlings.

By The Chicago Carnation Co., Joliet, Ill.

BEAU BRUMMEL.—A large white overlaid with crimson, on the order of Prosperity, having more color than this variety; a cross between a white seedling of our own and Harlowarden; an early, free and continuous bloomer, producing large, well-formed flowers on good strong stems.

ALBERT M. HERR, Secretary.

Lancaster, Pa.

OUR CARNATION NOVELTIES FOR 1907

Winsor, White Enchantress, and Helen M. Gould

ONE way to judge carnations is to see them on the exhibition tables. A better and more convincing way is to see them growing; therefore we cordially invite all carnation growers to visit us and judge for themselves regarding the superiority of the above-named sorts.

Our carnation houses are at **Scarborough-on-Hudson** (not Tarrytown). Friends who desire to visit us can take the N. Y. C. & H. R. R. R. from New York. Trains leave there every half hour. Scarborough is the first station north of Tarrytown. Our grounds adjoin the station, and the greenhouses are about five minutes walk from the station.

We are growing **25,000 plants of Winsor** for cut flowers, alone, for the New York market this season, which shows the faith we have in it. This will also enable visitors to see it growing in quantity, and, besides that, will give us enough plants to get a great abundance of fine, healthy cuttings without over-propagating. We have already booked a large quantity among the large growers, and anticipate for this variety the largest sale of any new carnation that has ever been distributed, as large growers who have seen it are enthusiastic in regard to its value. Those who have seen it have immediately placed large orders for it, so we recommend those who have not ordered to place order without delay, so as to ensure early delivery.

For full description of these three valuable novelties, see our wholesale price list. Of course, we shall have all of these varieties on exhibition at Toronto, where they can be seen, and where they will speak for themselves.

WHOLESALE PRICES ROOTED CUTTINGS SPRING 1907

Winsor. Soft silvery pink. The best color, best keeper, best shipper, best seller—best every way. \$12.00 per 100, \$100.00 per 1,000.

White Enchantress. Has the large size, long stem, productive habit of Enchantress, but is pure white. \$12.00 per 100, \$100.00 per 1,000.

Helen M. Gould. A beautiful sport of Enchantress. Ground color lovely shade of silvery pink, with very fine pencilings of carmine, making an exceedingly exquisite combination. While on close observation this variety is variegated, the general effect is one beautiful tone of dark pink. Exceedingly valuable, because it combines the earliness, freedom, long stem, and large size of Enchantress, giving another color possessing all the other desirable qualities of Enchantress. \$12.00 per 100, \$100.00 per 1,000.

Beacon. Orange-scarlet. A vigorous, healthy grower, of ideal habit. A profuse bloomer, with long stems. \$12.00 per 100, \$100.00 per 1,000.

Aristocrat. Cerise-pink. Will be planted largely in place of Lawson. \$12.00 per 100, \$100.00 per 1,000.

Melody. Daybreak sport of Lawson, about the same color as Enchantress, but much brighter, and does not fade like Enchantress. Also a much better keeper and shipper. Those who grow the Lawson varieties exclusively will find this very valuable and desirable, because it gives an improved Enchantress color, which is so popular, and at the same time can be grown in the same house with the other Lawsons. An extra fine thing in every way and in great demand. A great addition to the Lawson class. \$10.00 per 100, \$75.00 per \$1,000.

Rose Pink Enchantress. A sport of Enchantress. Color, dark rose-pink. \$7.00 per 100, \$60.00 per \$1,000.

White Perfection. A novelty of 1906, and a variety for which there is a great demand this season. A third larger than Lady Bountiful and a more perfect flower. \$6.00 per 100, \$50.00 per 1,000.

Victory. Scarlet. This is giving great satisfaction, being a free blooming, profitable scarlet. \$6.00 per 100, \$50.00 per \$1,000.

Red Lawson. A fine red. Our stock of this is superior to many stocks of Red Lawson that we have seen. \$4.00 per 100, \$30.00 per 1,000.

Variegated Lawson. The most productive of the variegated sorts. A favorite. Outblooms Mrs. M. A. Patten. \$4.00 per 100, \$30.00 per 1,000.

White Lawson. An excellent white. \$4.00 per 100, \$30.00 per 1,000.

Lady Bountiful. Pure white. \$4.00 per 100, \$30.00 per 1,000.

Enchantress. \$3.00 per 100, \$25.00 per \$1,000.

Mrs. M. A. Patten. \$3.00 per 100, \$25.00 per 1,000.

Mrs. Thos. W. Lawson. \$3.00 per 100, \$20.00 per 1,000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

FARQUHAR'S FLOWER SEEDS

FOR PRESENT PLANTING

Table listing various flower seeds such as Ageratum Mexicana, Alyssum, Antirrhinum, and Cosmos with prices per ounce.

Table listing various flower seeds such as Geranium, Lobelia, Mignone, and Petunia with prices per ounce.



CANDYTUFT GIANT WHITE PERFECTION

Table listing various flower seeds such as Stock Farquhar's Mammoth Column, Verbena, and Vinca with prices per ounce.

For other varieties write for our Wholesale Price List and Retail Catalogue for 1907. R. & J. FARQUHAR & CO., 6 and 7 South Market St., BOSTON, MASS.

New York. News of the Week. In spite of the very disagreeable weather on Monday evening there was an unusually large attendance at the meeting of the Florists' Club.

sions all over his body. He was taken to the Lebanon hospital. Mr. Wehn was formerly an employee of the J. M. Thorburn Company.

Here is some good stock, all ready to ship, with prices that are right: Geraniums, as fine a lot as was ever offered for sale at \$18.00 per 1000.

S. J. GODDARD Framingham, Mass. Rooted Carnation Cuttings a Specialty. Correspondence Solicited. Mention the Florists' Exchange when writing.

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Prices \$6.00 per 100. \$50.00 per 1000. 43 W. 28th St. NEW YORK Grower, LYNBROOK, L. I.

CARNATIONS

WELL ROOTED CUTTINGS, HEALTHY STOCK

PINK		WHITE	
Per 100	Per 1000	Per 100	Per 1000
Lawson	\$1.50 \$10.00	Boston Market	\$1.25 \$10.00
Nelson	1.50 10.00	Lady Bountiful	2.00 17.50
Nelson Fisher (cerise)	2.00 17.50	White Lawson	3.00 25.00
LIGHT PINK		RED	
Enchantress	2.00 17.50	Robert Craig	6.00 50.00
VARIEGATED		Cardinal	2.50 20.00
Mrs. Patten	2.00 17.50	Estelle	2.00 17.50

ROSES Strong and Well Rooted Cuttings

		Per 100 Per 1000	
Richmond	\$1.50 \$12.50	Uncle John	\$1.50 \$12.50
Liberty	2.00 17.50	Chetenay	1.50 12.50
Bridesmaid	1.50 12.50	Ivory	1.50 12.50
Bride	1.50 12.50	Perle	2.00 17.50
Sunrise	3.00 25.00		

Peter Reinberg

51 Wabash Ave., CHICAGO

ROOTED CARNATION CUTTINGS

Ready for Delivery

		Per 100 Per 1000	
Enchantress	\$2.50 \$20.00	Victory	\$6.00 \$50.00
Enchantress, rose pink	7.00 60.00	Cardinal	3.50 30.00
Lawson, pink	2.00 15.00	Lady Bountiful	3.00 25.00
Genevieve Lord	2.00 15.00	Boston Market	2.00 15.00
Helen Goddard	6.00 45.00	Queen	2.00 15.00
Robert Craig	6.00 50.00		

We can furnish cuttings of all the Standard Varieties

Send for Price List

THE LEO NIESSEN CO.

1217 Arch Street, Philadelphia

Mention the Florists' Exchange when writing.

ROOTED CARNATIONS CUTTINGS

		Per 100 Per 1000	
WHITE PERFECTION	\$8.00 \$50.00	WHITE LAWSON	\$2.50 \$20.00
LIGHT PINK LAWSON	8.00 50.00	ENCHANTRESS	2.50 20.00
GLENDALE	8.00 50.00	NELSON FISHER	2.50 20.00
VICTORY	8.00 50.00	HARRY FENN	2.00 15.00
ROBERT CRAIG	8.00 50.00	MRS. T. W. LAWSON	2.00 15.00
CARDINAL	4.00 35.00	ESTELLE	2.00 15.00
PIANTEE	3.50 30.00	BOSTON MARKET	1.50 12.00
LADY BOUNTIFUL	2.50 20.00	WHITE CLOUD	1.00 8.00
THE BELLE	2.50 20.00		

ASPARAGUS STRONG READY FOR SHIFT

ASPARAGUS SPRENGERI, 3 in. at \$4.00; 4 in. at \$6.00 per 100; 5 in. at \$20.00.

ASPARAGUS PLUMOSUS, 2 1/2 in. at \$2.50; 3 in. \$5.00; 4 in. at \$8.00; 5 in. at \$25.00 per 100.

CRYSANTHEMUM STOCK PLANTS

Opah, Monrovia, Omega, Lady Harriett, Duckham, Vivend-Morel, Halliday, Robinson, Appleton, Dalskov, Ivory, Dr. Enguehard, Timothy Eaton, Yellow Eaton, White Bonnafont, Major Bonnafont, \$5.00 per 10. Cash or C. O. D.

W. J. & M. S. VESEY Fort Wayne, Ind.

Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

Ready for Immediate or Later Delivery

VICTORY, \$6.00 per 100; \$50.00 per 1000
 LADY BOUNTIFUL, \$3.00 per 100; \$25.00 per 1000
 WHITE LAWSON, \$3.00 per 100; \$25.00 per 1000
 VARIEGATED LAWSON, \$4.00 per 100; \$30.00 per 1000
 PINK PATTEN, \$5.00 per 100; \$40.00 per 1000
 ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000
 PINK LAWSON, \$1.50 per 100; \$12.50 per 1000
 BOSTON MARKET, \$1.50 per 100; \$12.50 per 1000

We can also give you immediate delivery on the two grand novelties, "Winsor" and "Aristocrat." We have watched the above named novelties for several seasons, and can conscientiously recommend them to all carnation growers, and you cannot afford to miss them. Send for complete list and special prices on large quantities.

JENSEN & DEKEMA, Carnation Specialists, 674 West Foster Ave., CHICAGO, ILL.

ROOTED CUTTINGS

		Per 100 Per 1000		Per 100 Per 1000	
WHITE-Queen	\$1.50 \$12.50	Helen Goddard	\$4.00		
Lady Bountiful	2.50 15.00	Ethel Ward	2.00	\$16.00	
White Lawson	2.00 15.00	RED-Red Lawson	2.00	15.00	
PINK-Enchantress	2.00 15.00	Robert Craig	5.00		
Lawson	1.50 12.50	Harry Fenn	2.00	15.00	
Pink Patten	4.00	VARIEGATED-Mrs. Patten	2.50	20.00	
Victory	5.00				

QUIDNICK GREENHOUSES J. H. CUSHING Prop., QUIDNICK, ANTHONY P. O., R. I.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock

ROBERT CRAIG, VICTORY, HELEN GODDARD, \$8.00 per 100.
 RED LAWSON and VARIEGATED LAWSON, \$5.00 per 100.
 ENCHANTRESS, LADY BOUNTIFUL, NELSON FISHER, and WHITE LAWSON, \$3.00 per 100, \$25.00 per 1000.
 BOSTON MARKET, GENERAL MACRO, MRS. T. W. LAWSON, PINK ARMA-BZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

		Per 100 Per 1000	
VERBENAS-Best Mammoth, rooted cuttings	\$1.00 \$ 8.00		
Agrotium, Cope's Pat. White Cap, P. Pauline and Stella Gorney	1.00 8.00		
Achyranthes, 4 sorte	1.00 8.00		
Coleus, best bedding and fancy sorts	1.00 8.00		
Cuphea, Platycentra	1.25		
Fuchsia, double and single varieties	2.00 15.00		
Feverfew, The Sein	1.50 12.00		
Geranium, double and single	2.00 15.00		
Heliotrope, light and dark	1.25 10.00		
Ivy, German	1.25		
Moist Vine, true white	2.00 15.00		
Salvia, splendens, Bedman, etc.	1.25 10.00		
Salvia, new early flowering sorts	1.50 12.00		
Vinca, variegated and Elegans, 2 1/2 in. pots	2.00		

		Per 100 Per 1000	
PLUMOSUS NANUS, 2 1/2 in. pots	4.00		
" " 3 in. pots	8.00		
" " 4 in. pots	10.00		
SPRENGERI, 2 1/2 in. pots	8.00		
" 3 in. pots	8.00		
" 4 in. pots	8.00		

WOOD BROS., FISHKILL, N. Y. Mention the Florists' Exchange when writing.

UNROOTED CARNATION CUTTINGS

ENCHANTRESS, QUEEN, FAIR MAID, RED SPORT, HARLOWARDEN, pink, white and variegated LAWSON, \$10.00 per 1000.
 WHITE PERFECTION and VICTORY, \$30.00 per 1000.
 LADY BOUNTIFUL, \$12.00 per 1000.
 GLENDALE and PEAKY, \$15.00 per 1000.
 SCOTTIE FERNS, 6 in., \$25.00 per 100.
 COLEUS, Verschaffelti and Golden Bedder, 2 in., \$18.00 per 1000.

ROOTED

VICTORY, \$50.00 per 1000.
 QUEEN, \$15.00 per 1000.
 LADY BOUNTIFUL, \$30.00 per 1000

Larchmont Nurseries Larchmont, N. Y.

Mention the Florists' Exchange when writing.

PLANT CULTURE Price, - - - \$1.00.

A. T. De La Mare Ptg. & Pub. Co.

MABELLE--New Pink Carnation for 1907

Color--A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size--Three to four inches in diameter when established. Odor--Pleasing, but not strong. Stems--Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.--A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness--Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. Delivery Jan. 15th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD. Mention The Florists' Exchange when writing.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa. Mention the Florists' Exchange when writing.

A. B. DAVIS & SON, Inc. PURCELLVILLE, VA.

Place your orders now for Red Sport cuttings, the best red carnation grown. \$3.50 per 100; \$30.00 per 1000. Mention the Florists' Exchange when writing.

White Enchantress

white sport of Enchantress, rooted cuttings \$12.00 per 100; \$100.00 per 1000. E. SCHRADER, NEW SPRINGVILLE Richmond Borough, N. Y. Mention the Florists' Exchange when writing.

A Positive Cure for Split Pinks
 The M. & D. ARTIFICIAL CALYX
 Will obviate your trouble.
 A Perfect Flower guaranteed \$1.75 per hundred. \$15.00 per thousand, 250 at thousand rates.
 Send for MAXFIELD & DIMOND, Manf. Pat. Sep. 16, 1906, sample, P. O. Box 504-A Warren, R. I.

Mention the Florists' Exchange when writing.

\$\$\$ SAVE YOUR \$\$\$ SPLIT CARNATIONS

It Will Mean Dollars to You

ENDORSED BY THE HIGHEST AUTHORITIES

VISIBLE

TRADE MARK

INVISIBLE

Invisible, Inexpensive, Indispensable, Instantaneously Applied

Have You Ever Figured
HOW MUCH YOU ARE LOSING
EVERY YEAR?

We believe we are safe in estimating the loss through so-called "splits" at from 15 to 20 per cent. of the entire cut. If you had a chance to save all these flowers and sell them for the highest price, would you not do it? That is just what the BAUR CLIP and PLIERS will do for you at a minimum of time and expense. Made of galvanized wire and only a very small portion appearing on the outside of the calyx; the clips

are practically INVISIBLE. They make a perfect job and are INSTANTLY ADJUSTED with our pliers, an instrument WORTH ITS WEIGHT IN GOLD, finely finished and thoroughly nickel plated. Every tool guaranteed.

PLIERS, \$3.00; WILL PAY FOR ITSELF IN A FEW DAYS. 1000 CLIPS, \$1.00

Send for it to-day. Cash with order. Orders filled in strict rotation. Your money back if you are not fully satisfied. Full directions with every outfit. Ready about February 10. Carriage charges prepaid in any part of United States or Canada. Pats. applied for.

BAUR FLORAL CO., 18 W. 10th St., ERIE, PA.



Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order

A. J. GUTTMAN,

The Wholesale Florist of New York,
43 WEST 28TH STREET

JOHN E. HAINES,

BETHLEHEM, PA.

ARISTOCRAT, beautiful cerise, leader of all carnations. Mar. 1st. delivery—\$12.00 per 100, \$100.00 per 1000.

RED RIDINGHOOD, scarlet \$12 per 100, \$100.00 per 1,000. WHITE PERFECTION and

DAYBREAK LAWSON, \$6.00 per 100, \$50.00 per 1,000 and many others ready now. There are no better cuttings than We grow nothing but the best varieties.

ours. Stock is clean and healthy. The quality is guaranteed. Order from reliable people and get what you want.

There is nothing too good for the florist.

CHICAGO CARNATION CO.,

A. T. PYFER, Mgr. JOLIET, ILL.

Mention the Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS

We have about 30,000 R. C. we are offering for January delivery. This is not cheap stock but it is guaranteed and if not satisfactory may be returned and money will be refunded.

Prices per 1000, 100 at the same rate.

Enchantress, light pink.....	\$20.00	Harlowarden, crimson.....	\$15.00
Lawson, dark pink.....	15.00	Bountiful, large white.....	25.00
Cardinal, scarlet.....	25.00	B. Market, ordinary white.....	15.00

These varieties we have selected as the "cream of the list" for the commercial grower. Cash with order.

SMITH & GANNETT GENEVA N. Y.

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS READY NOW

Strong, healthy and Thoroughly Rooted Cuttings of the following varieties:

	100	1000	100	1000
Victory (scarlet).....	\$6.00	\$50.00	Lient Peary (white).....	\$3.50 \$30.00
Robt. Craig ".....	6.00	50.00	Lady Bountiful ".....	3.00 25.00
Red Sport ".....	3.50	30.00	White Lawson ".....	3.00 25.00
Enchantress (pink).....	2.50	20.00	Boston Market ".....	2.00 15.00
Lawson ".....	2.00	15.00	Queen ".....	2.00 15.00
Mrs. M. A. Patten var. ".....	2.50	20.00	Queen Louise ".....	2.00 12.50

Remember we guarantee satisfaction.

250 of any one variety at 1000 rate. Write for discount on large orders.

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

Mention the Florists' Exchange when writing.

CARNATIONS

	Per 100	Per 1000
VICTORY.....	\$5.00	\$45.00
ABUNDANCE.....	4.00	35.00
ENCHANTRESS.....	2.50	20.00
HARLOWARDEN.....	1.25	10.00
PROSPERITY, rooted to order.....		10.00

CANNAS—Robusts \$1.00 per 100, \$10.00 per 1000; Eisele, Marlborough, Anstris, Christie, Queen Charlotte, each \$1.50 per 100, \$15.00 per 1000.

KRAMER BROTHERS, FARMINGDALE, L. I.
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CARNATIONS

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

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CARNATIONS

Rooted cuttings ready January 1. Victory, \$8.00 per 100; \$50.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patten, \$3.50 per 100; \$25.00 per 1000; Pink Lawson, Boston Market, Queen, H. Penn, and Fair Maid, \$2.00 per 100; \$15.00 per 1000. 5 per cent. discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.
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ROOTED CUTTINGS February and March Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices.
ALBERT M. HERR, LANCASTER, PA.
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A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 WEST 28th STREET, - - - NEW YORK
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CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL
Mention The Florists' Exchange when writing.

REVIEW OF THE MARKET

NEW YORK.—The cut flower business is not keeping up to the record that was made early in 1906, neither in regard to prices obtained nor to quantities of material used. Supplies at this time, while not being at all heavy, are more than ample for all demands, consequently prices are anything but firm. American Beauty roses, as well as other commercial varieties, are not clearing out satisfactorily; though the supply is not by any means heavy. Carnations are not so firm in values as they were last week. Lilies, callas and lily of the valley also are showing a tendency to reduced figures. The increase in the supply of white and light-colored tulips, which are chiefly sought for funeral work, is, in a great measure, the reason why the prices of lilies, etc., are not so firm. Cattleyas have become rather more plentiful, and do not clear out as well as they ought to. Gardenias are coming in very heavily now, and can be bought at anywhere from 15c each to \$4 per dozen.

Violets being ordered on the streets at 20c and 30c per bunch, and that about explains the violet situation just now. Paper White narcissus and Roman hyacinths are becoming more plentiful; sweet peas are coming in daily though it seems hard yet to get more than \$1.50 per dozen bunches. They will probably do better when they can be had with longer stems.

What with warm weather and the society people attending automobile shows in Madison Square Garden, it would seem that for the time being the florist shops are not getting a great deal of attention from the city's four hundred.

PHILADELPHIA.—Up to Tuesday afternoon, business in cut flowers had not been equal to that of the past few weeks; buying along all lines slackened up considerably. There is a very noticeable falling off in the supply of roses, especially American Beauty; and no doubt prices will stiffen considerably before the week is out. This is caused by the continued dull weather. Prices have been, so far this week, for American Beauty \$9 per dozen for the best; we heard of two sales at \$10 per dozen for the very best flowers. Killarney is still away ahead of other teas in demand, ranging in price at from \$12 to \$15 per 100; a few sold at \$20. A few choice Richmond brought \$25 per 100. All teas range at from \$10 to \$15 for regular good stock.

Carnations are a little below the prices of the past three weeks; \$6 per 100 is about the top figure for fancy, other stock ranging from \$2 to \$4. Harrisii or longiflorum lilies bring \$2 per dozen flowers; Freesia, \$2 to \$6 per 100; mignonette, \$2 to \$3 per 100. Of violets there are by far no dozen for the demand; double scull slowly at \$1 per 100; singles, 50c. to 75c. Good lily of the valley is in demand at from \$3 to \$5 per 100.

Cattleyas realize 50c. per flower; gardenias, \$3 per dozen and are plentiful. Adiantum Layanum, cut fronds, bring \$3 per 100 and is in demand. Of both Asparagus plumosus and Sprengeri the supply is far in excess of the demand.

DAVID RUST.

ST. LOUIS.—The cut flower trade around the city is not what it should be, at this time of the year. The week opened with rainy, disagreeable weather. Supplies of stock at the wholesale houses are increasing daily, and prices are suffering accordingly. Among the retailers nothing of any importance has been reported. Our wholesalers state that shipping trade is somewhat slow, but the local demand has improved. One of the most notable features of the market last week was the fall in prices of carnations; some days fancy stock only brought 3c, and even 2c, when bought in thousand lots. Roses, too, suffered. Fancy long American Beauty are down to \$3 per dozen, with the smaller sorts at \$5 to \$6 per 100 for extra good stock. Violets are not so abundant this week, owing to cloudy weather; 35c. to 40c. is obtained for extra fancy California. Bulbous stock is over plentiful, with prices much lower.

ST. PATRICK.

BUFFALO, N. Y.—Trade has been very slow the last two weeks; seemingly the flower buying public have not recovered from the holidays. Roses have not been as good as usual, especially good Bride and Bridesmaid. We have been getting in some good Liberty and Richmond from the East that are really as large as American Beauty. Carnations seem to be very plentiful. Violets and lily of the valley are holding their own. Gardenias are coming into the local market and find a ready sale.

W. H. G.

BOSTON.—There has been a fairly good market all week. Violets have been the most plentiful of any of the staples; they have been at times druggery and dropped in price to 25c., while the better grades remained at 75c. American Beauty roses have had a good demand, the maximum price being \$9 per dozen, while other grades realized from \$1.50 per dozen, upward. Bride and Bridesmaid brought from \$3 to \$16 per 100; Killarney, \$1.75 to \$3 per dozen; Richmond and Liberty, from \$2 to \$4 per dozen. Lilies are not yet plentiful; they sell at from \$1.50 and \$2 per dozen. Callas bring \$1.50 per dozen. Carnations have had a good demand; colored varieties fetching \$4 and \$5, while \$3 and \$4 was the best price for white sorts. Yellow narcissus are now at from \$3 to \$5, while Paper White and Roman hyacinths realize \$1.50 and \$2. Mignonette is rather scarce at \$2, \$3 and \$4. Lily of the valley brings from \$2 to \$4. Sweet peas are plentiful; the best grades go at \$1 and \$1.50. Snapdragon brings \$1.50. Stevia sells at 25c. a bunch; adiantum readily fetching the latter figure. Smilax brings \$12.50. Asparagus plumosus, 50c. per string, while Sprengeri sells at from \$1.50 to \$4 per dozen bunches.

J. W. D.



H. Junge,
Pres.-elect Indiana State Florists'
Association.

INDIANAPOLIS.—Dark, unseasonable weather prevails. Its effect upon flowers is distinctly noticeable, as they are scarce, also of poor quality. Funeral work proved to be the mainstay last week, as regular counter trade and decorating have been distinctly quiet. Many flowers are sent to the sick and to hospitals, as the weather affects both plant life and humanity.

The local supply of roses is not sufficient, and many are shipped in. Prices are easier than a week ago. Select Bride and Bridesmaid are wholesaled at \$3 to \$6 per 100. Richmond and Liberty are generally in demand at \$7 to \$15 per 100. Many more American Beauty are retained since the price has reached \$10 to \$50 per 100, wholesale.

A quantity of sweet peas are most welcome at \$1 per 100, as a variety of stock is lacking. Roman hyacinths and Paper White narcissus are a material aid in funeral work, at \$3 to \$3.50 per 100. Violets are not plentiful at \$1 to \$1.50 per 100; few Hudson River violets are used. Jonquils find a quick sale at \$4 per 100.

Many carnations are showing weak stems. Prices are about the same—\$2.50 to \$4 per 100 for first grade stock. Fifty per cent. of the Lewsons received are split; these generally bring \$1.50 to \$2 per 100.

Plant trade shows an increase over former years. Growers have no trouble in disposing of any well-grown azaleas, cyclamen, primroses and Gloire de Lorraine begonias at the highest figures. Few of these ever reach Tomlinson Hall market, as they are bargained for in advance.

I. E.

THE METAIRIE RIDGE NURSERY COMPANY LTD.
NEW ORLEANS, LA.
GROWERS OF CHOICE CUT FLOWERS
Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.

Mention the Florists' Exchange when writing.

Indianapolis.

Annual Meeting State Florists' Association.

The Indiana State Florists' Association held its twentieth annual meeting at the Commercial Club building on the afternoon and evening of January 8; there was also an exhibit of flowers. About twenty members were present. At the business session the following officers were elected: President, Herman Junge, Indianapolis; first vice-president, Charles Knopf, Richmond; second vice-president, Fred Huckreide, Indianapolis; secretary, A. F. J. Baur, Indianapolis; and treasurer, John Heidenreich, Indianapolis. A committee, consisting of H. W. Rieman, Carl Sonnensmidt and William Hatfield, was selected to do the society's judging for one, two and three years, respectively. J. A. E. Haugh, Fred Huckreide and F. J. Harritt were appointed an auditing committee. Lunch served by the club helped to make the evening a pleasant one.

A number of exhibits came from distant points, but there were few local ones. E. G. Hill Company's exhibit of Rhea Rhed rose proved to be the star attraction. The judges awarded it ninety points. In color this rose is a shade between an American Beauty and a Richmond rose; in growth it much resembles the former. It is generally conceded that our "national rose grower" is keeping pace with the times, and will soon have another batch of cuttings ready for the American market. The same company exhibited three vases of seedling carnations—one a bright red, another, a bright pink, and another, shell pink. Stuart & Haugh of Anderson, Ind., showed a fine vase of the leading varieties in carnations. The E. K. & B. Floral Company of Richmond had a new carnation, Superior, which scored eighty-five points. Miss Sarah Hill, a new white of theirs, was well received.

Mabelle, a bright pink carnation, sent by Weber & Sons of Oakland, Md., arrived in fine shape, and also scored eighty-five points. Much regret was expressed that the fine lot of Winsor, sent by the F. R. Pierson Company, did not arrive in better condition. John E. Haines of Bethlehem, Pa., sent two nice lots of carnations—one of Imperial, another of Pink Imperial. Both are well thought of in this section.

Pittsburg.

News Notes.

Trade conditions the past week were fair, and there was an abundance of stock of all sorts. Roses and carnations are of good quality and hold up well in price, Roman hyacinths are too plentiful, and tulips are rather high in price for the quality. Lily of the valley is coming in heavily and finds slow sale. House plants are selling fairly well and can be handled safely this Spring-like weather, for it still continues in the fifties and sixties with too much rain.

The Carnation Society's convention in Toronto will be fairly well attended from one neighborhood; about a half dozen are going among them Messrs. Burki, Wyland and Lorch. The fare for the round trip will be \$12.35 and the party leaves Tuesday, January 22, about 11 p. m. Any one wishing to go with the party can get further information from the Pittsburg Cut Flower Company, Olvin avenue.

Tuesday, January 22, is the date of the Florists' Club smoker, to be held in the Rathskeller below our regular

CORN FLOWERS

Cut blooms of this popular blue flower by mail or by express. Write for prices.

1 VV, English, 2 1/2 to 3 1/2 ft. long, per 100 \$15.00; 1 1/2 to 2 1/2 ft. long, per 100, \$10.00.

BOSTON FERNS, 8 in. pots 60c.; 5 in. pots 25c., out from bench per 100, \$15.00.

ASPARAGUS PLUMOSUS NANUS, 6 in. pots, 35c.; 2 1/2 in. pots, per 100, \$3.50.

SPRENGERI, 4 in. pots, per 100, \$8.00.

THOMAS STOCK

251 Minot Street., DORCHESTER, MASS.

CARNATIONS

ENCHANTRESS.....	\$25.00 per 1000
LAWSON, Pink.....	20.00 "
LAWSON, White.....	20.00 "
ROBERT CRAIG.....	45.00 "
HAINES.....	\$5.00 per 100 or \$45.00 per 1000
VICTORY.....	5.00 " or 45.00 "
CARDINAL.....	3.00 " or 25.00 "
FLAMINGO.....	3.00 " or 25.00 "

S. S. PENNOCK-MEEHAN COMPANY

1610-1618 Ludlow St., Philadelphia, Pa.

MRS. H. BURNETT

New Salmon-Pink Carnation for 1907. A Seedling from Mrs. Lawson and an English Variety. Awarded 2 First-class Certificates and an Award of Merit. A lovely warm Salmon-Pink flower. Petals of good shape and substance. Calyx perfect. Delightful clove fragrance. 2 1/2 to 3 1/2 in. in diameter according to season. Stems 18 to 36 inches. A rapid and easy grower. Very productive. Many shades deeper than Enchantress and keeps its color better. Keeps for a long time after being cut and travels splendidly. Just the shade that everybody wants and one not yet produced in America. Price, \$5 per 100 established in 2-inch pots.

H. BURNETT

St. Margarets, Guernsey, Eng.

meeting room. Card playing will be the main feature, with a little music and plenty of liquid and solid refreshments. Now, smoke up boys and get there, for we want every member to attend. Those going to the Toronto convention can spend the evening with us and get the train in five minutes' time from the hall. A short business meeting will be held to nominate officers for the year, and the secretary will be present to receive dues from those members who are forgetful and others who wish to be relieved of their coin.

Mrs. Ludwig, wife of J. W. Ludwig the Allegheny market florist, who received painful injuries from a fall before the holidays, is able to be out again.

E. C. REINEMAN.

IOWA FALLS, IA.—Miss Jennie Smuck has disposed of her interest in the Riverside greenhouses to J. P. Murphy of New Hampton. Mr. Murphy has been engaged in the florist and greenhouse business at New Hampton for several years and having sold out there, decided to locate here. He has moved his family here and will take immediate possession of the business. Miss Smuck's future business plans are not announced.

COLUMBIA CITY, IND.—The Wagstaff greenhouses of West Van Buren street have been removed to the twenty-five acre farm belonging to Mr. and Mrs. Albert Wagoner and located just west of the city limits. The new greenhouse is 21 x 100 feet and a steam heating plant with a forty h. p. engine is being installed. The establishment will be added to in the near future.

J. K. ALLEN
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ORCHIDS AT ALL SEASONS
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 Open every Morning at Six o'clock for the
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Wholesale Prices of Cut Flowers, New York, Jan. 16, 1907
 Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special....	40.00 to 50.00	Inf'r grades, all colors.....	2.00 to 3.00
	extra	25.00 to 30.00	White	3.00 to 4.00
	No. 1	15.00 to 20.00	STANDARD	3.00 to 4.00
	No. 2	8.00 to 12.00	Pink	3.00 to 4.00
	No. 3	6.00 to 8.00	Red	3.00 to 4.00
	Bride, Maid fancy-special...	10.00 to 15.00	Yel. & Var	3.00 to 4.00
	extra	8.00 to 10.00	*FANCY—	4.00 to 5.00
	No. 1	4.00 to 5.00	White	4.00 to 6.00
	No. 2	2.00 to 3.00	Pink	4.00 to 6.00
	Golden Gate	3.00 to 5.00	Red	4.00 to 6.00
	RICHMOND	4.00 to 20.00	Yel. & Var	4.00 to 6.00
	Mme. Abel Chateaux	3.00 to 12.00	U NOVELTIES	6.00 to 10.00
	ADANTUM	.50 to 1.00	GARZENIAS, per doz	1.00 to 1.50
	CROWEANUM	1.00 to 1.50	LILAC, per bunch	1.00 to 1.50
	ASPARAGUS	25.00 to 50.00	LILIES	12.00 to 15.00
	Plumosus, bunches....	8.00 to 15.00	LILY OF THE VALLEY	1.00 to 3.00
	Sprengeri, bunches....	8.00 to 15.00	MIGNONETTE	2.00 to 6.00
			NARCISSUS, Paper White	1.00 to 2.00
			Yellow	1.00 to 2.00
	CALLAS	16.00 to 15.00	ROMAN HYACINTHS	1.00 to 4.00
	CATLEYAS	40.00 to 60.00	SMILAX	1.00 to 2.00
	CYPRIPEDIUMS	12.00 to 15.00	TULIPS	8.00 to 12.00
	DAISIES	1.00 to 3.00	VIOLETS	2.00 to 3.00
			to	1.00
			to	to

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 Shipping orders receive prompt attention. Con-
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 Shipments of Plants made to any part of the
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WHITE VIOLETS, \$1.50 per 100
CATTLEYS, \$50.00 per 100
CUT BOXWOOD 15c. per lb

BEAUTIES

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Cattleyas
White Orchids
Wild Smilax \$5.00 per case

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FANCY CARNATIONS

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Wholesale Prices of Cut Flowers—Per 100

Table with columns for Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburg, St. Louis and rows for various flower types like Beauty, Bride, Golden Gate, Liberty, Meteor, Perle, Orchids, Carnations, etc.

PHILADELPHIA CUT FLOWER CO.

Wholesale Florists
1516-18 SANSON STREET
High Grade Cut Flowers
Open Evenings until 8.

Cincinnati.

Trade Notes.

Dark, gloomy weather is still with us, and the cut flowers now coming into the market show plainly its effects in soft growth and weak stems. Business remains very fair. Charles Knopf of Richmond, Ind., was in the city Saturday calling upon the craft and soliciting orders for the new white seedling carnation, Miss Sarah A. Hill. I only hope the variety may prove worthy of its name-sake, for without throwing any bouquets at Miss Hill, she is one among many, and is undoubtedly the best posted lady on floriculture in the United States to-day. Many of the sterner sex must take off their hats to Miss Sarah A. Hill, especially when it comes to chrysanthemums.

The monthly meeting of The Cincinnati Florists' Society was called to order by President Murphy. Secretary Ohmer stated that there remained in the treasury of the society \$129.35; this was very gratifying. Chas. Knopf addressed the meeting at length, telling of his trip to Chicago. S. J. Heider of Hillsboro, a new beginner in the florist business, gave a little talk. Like the Japs, he was looking for information. Gus Adrian was called on and said principally that the small growers around Cincinnati used to get their names in the trade papers once in a while, but were overlooked now. Well, Gus is a good fellow, and he is doing a nice quiet business out in Clifton and making money. Then there is Henry Schwarz; he is another of those quiet fellows that mind their own business and is making money. I could name a lot of growers around this city that have small places that are making more money than the big fellows. Some of these days I will visit all of them, and tell the trade what they have and how they grow it. E. G. GILLET.

BOSTON, MASS. WELCH BROS. PROPRIETORS CITY HALL CUT FLOWER MARKET 226 Devonshire Street. Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268

EDWARD REID Wholesale Florist 1526 Ranstead Street, PHILADELPHIA Bet. Market and Chestnut Streets Cheolcet Stock Always on Hand Telephone: 1-42-26-A.

WORCESTER CONSERVATORIES Wholesale Growers of Roses and Carnations Also 15,000 English Manetti, in fine shape and price right. Rooted Carnation cuttings in eighteen varieties. WORCESTER, MASS.

Headquarters in Western New York For ROSES, CARNATIONS and all kinds of Seasonable Flowers. WM. F. KASTING Wholesale Commission Florist ALSO DEALS IN FLORISTS' SUPPLIES AND WIRE ORNAMENTS 383-87 Ellcott St. BUFFALO, N. Y. GIVE US A TRIAL WE CAN PLEASE YOU

CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
White Perfection (The grandest White of them all) Per 100 \$3.50, per 1000 \$30.00
Bountiful Per 100 \$2.75, per 1000 \$25.00
Enchantress Per 100 \$2.00, per 1000 \$18.00
Book order now. Quality guaranteed. If you don't like them we pay express both ways. Catalogue Free.
E. F. WINTERSON & CO. Wholesale Cut-flowers and Florists' Supplies
15-17-19 Washburn Ave., Chicago, Ill.

CHAS. W. MCKELLAR Orchids

PANCY VALLEY, ROSES, CARNATIONS, and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago
Mention the Florists' Exchange when writing.

Chicago. The Week's News. The first annual reception of the employees of the Ernst Wlenhoer Company will be held at the Sulthold Club House, 1768 Wrightwood avenue on Wednesday evening, January 30. The committee in charge is composed of Messrs. Bergmann, Adams, Robertson and Pisterick. C. L. Washburn, who has been recuperating at West Baden, has returned feeling much improved. Joe Beaver has severed his connection with Lubliner & Trinz. The last word from P. J. Hauswirth reaching Chicago was that he had arrived at the Hub after a pleasant trip and will return via Toronto. At the meeting of the Flower Growers' Market, held last week, the following officers were elected: President, Emil Buettner; vice-president, Walter Tonner; treasurer, F. R. Hills; secretary, A. Henderson; manager, Percy Jones. Governor Deneen appointed two new Lincoln Park commissioners last Thursday, Mr. Wilk, vice-president of the Union Trust Company of Chicago, taking the position recently resigned by Mr. Whitney who moved to Evanston, and Mr. Austrian, advertising manager of the Abendpost, to succeed Mr. Linn who resigned last Spring. At the meeting of the Gardeners and Florists' Union No. 10615 held at 12 Clark street on Wednesday evening last, the year opened very auspiciously with large attendance and a promise of successful succeeding meetings. Louis Gresnz of the Basset & Washburn concern, who has been ill for the past week or more, is reported on the road to recovery. H. N. Bruns is still positive that his lily of the valley pips will turn out well. He has four-fifths of a thousand cases now in cold storage and as reported they are in the best of condition. Among recent visitors we noted Wilfred Wheeler of Concord, Mass. W. K. W.

Be your own Commission Man THE FLOWER GROWERS' MARKET furnishes the facilities See PERCY JONES, Mgr. 60 Wabash Ave., CHICAGO.

ST. PAUL, MINN. Send us your Orders for delivery in the Northwest, which will have our best attention. L. L. MAY & CO., Florists, St. Paul, Minn. Mention the Florists' Exchange when writing.

VAUGHAN & SPERRY Wholesale Florists WESTERN HEADQUARTERS FOR DOUBLE AND SINGLE VIOLETS Valley, Carnations and Roses 58-60 WABASH AV., CHICAGO Mention the Florists' Exchange when writing.

THE BUSIEST HOUSE IN CHICAGO J. B. DEAMUD CO. Wholesale Cut Flowers 51 Wabash Av., CHICAGO Consignments Solicited

GEO. REINBERG Wholesale Grower of Cut Flowers CHOICE AMERICAN BEAUTY ROSES We will take care of your orders at reasonable prices. Prompt Attention. 35 Randolph Street, CHICAGO, ILL. Mention the Florists' Exchange when writing.

WIETOR BROS. Wholesale Growers of CUT FLOWERS All telegraph and telephone orders given prompt attention. 51 Wabash Ave., CHICAGO

Wholesale Prices of Cut Flowers, Chicago, Jan. 15, 1907 Prices quoted are by the hundred unless otherwise noted

Table with columns for ROSES American Beauty, CARNATIONS, and various flower varieties with prices per dozen.

E. G. HILL CO. Wholesale Florists RICHMOND, INDIANA Mention the Florists' Exchange when writing.

Dallas, Tex. The Morning News of Sunday, January 6, 1907 devotes considerable space to narratives and illustrations connected with the florist industry of this city. It is stated that "within a few years Dallas has become the principal floral market of the Southwest and the prediction is confidently made that it will not be many seasons before Texas raised American Beauty roses will be a competitor in the markets of Chicago and New York. The demand for cut flowers and hothouse plants in this section of the country is far beyond the facilities for supplying it. "The most striking example of the unusual boom in the commerce of flowers is the success made by Col. E. H. R. Green. Col. Green has engaged successfully in the railroad business, in baseball, in chicken raising, politics and automobiling, but he declares that none of these diversions pays so large a return on the investment as does the floral business. "The Green Floral Company started in business at Terrell five years ago. Ready sale of stock indicated a lucrative business if handled properly. Two years ago Terrell was outgrown and Col. Green entered in the wholesale business at Dallas. Three miles south of the city he has the largest and completest system of greenhouses south of Chicago. A large force of workmen are engaged in building additional greenhouses and when the work is finished according to the plans Texas will have the largest floral plant in the world. Col. Green now has twenty-seven acres devoted to the culture of flowers and plants, eight acres of which are under glass. The plant is heated by steam and is kept at a temperature of 65 in the Winter months. A system is also installed for the cooling of the atmosphere fed upon by the plants in the Summer months." It is estimated that Texas does a floral business valued at about \$400,000. The views of John R. Lomas, Henry Holtkamp, W. P. Hiebert, Ernest Neitsche, Otto Lang, the Dallas Floral Company and Seth Miller all indicate a prosperous condition of the florist business, with an optimistic opinion as to the future. A. M. Davenport has a specialty in primroses and cyclamen of extra fine quality. A. N. Pierson, Cromwell, Conn., was a visitor this week. J. W. D.

Chicago Rose Co. Rose Growers and Commission Handlers of Cut Flowers FLORISTS' SUPPLIES Wire Work our Specialty. 56-58 Wabash Avenue, CHICAGO. Mention the Florists' Exchange when writing.

J.A. BUDLONG 37-39 Randolph Street, CHICAGO. Wholesale CUT FLOWERS Mention the Florists' Exchange when writing.

Zech & Mann Wholesale Growers and Shippers of CUT FLOWERS 51 Wabash Ave., CHICAGO. Room 218. L D Phone 3284 Central. Mention the Florists' Exchange when writing. All Leading Varieties of Roses and Carnations PETER REINBERG Wholesale Cut Flowers 51 Wabash Ave., CHICAGO, ILL. Headquarters for American Beauty Rose Mention the Florists' Exchange when writing.

A. L. RANDALL CO. Western Headquarters for Up-to-Date Florists' Supplies Write for Catalogue No. 19 RANDOLPH ST., - CHICAGO.

Boston. News Notes. There was a good attendance at the first lecture of the season of the Massachusetts Horticultural Society on Saturday morning, when J. Woodward Manning, the well-known Reading nurseryman, delivered an illustrated talk on the iris. There was considerable discussion on the subject after the lecture by various members of the society. S. N. Wax, one of Boston's old-time florists who retired from active business a few years ago, spent his 77th birthday with his two sons of the firm of Wax Brothers—Samuel and Martin—at the home of the latter on Sunday. Mr. Wax is hale and hearty for a man of his years; and that he may see many more anniversaries is the wish of his many friends. J. G. Holmes of Saugus has a fine crop of antirrhinum at the present time for which he finds ready sale. F. Dolansky of Lynn is cutting an immense crop of sweet peas, having some of the finest flowers coming into the Boston market.

HOLTON & HUNKEL CO. WHOLESALE FLORISTS and FLORISTS' SUPPLIES Manufacturers of WIRE DESIGNS 457 Milwaukee St., MILWAUKEE, WIS. Phone, Main 874. P. O. Box 108

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SINNER BROS. WHOLESALE CUT FLOWERS 60 Wabash Ave., Chicago. Careful attention to SHIPPING ORDERS. Mention the Florists' Exchange when writing.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES C. C. Pollworth Co. MILWAUKEE, WIS.

ADVERTISING IN THE FLORISTS' EXCHANGE IS SURE TO BRING RESULTS

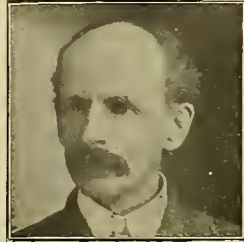
SOUTHERN WILD SMILAX

Now ready in any quantity

Book orders now for future delivery. Beaven's Fadeless Sheet Moss, \$3.50 per bag, delivered. Send for samples. Also Fancy Holly for Xmas trade. Satisfaction guaranteed. Write for prices.

E. A. BEAVEN
EVERGREEN, ALA.

Mention The Florists' Exchange when writing.



CALDWELL THE WOODSMAN
Introducer of the Wild Smilax

Wild Smilax \$2.50 Per Case

The only place where you can **always** get it. Long Needle Pines, \$1.00 per doz.; Palm Crowns, \$2.50 per doz.; extra nice long stemmed Palmetto leaves, \$2.50 per 100; Magnolia, \$2.50 16 cubic ft. cases. Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000

SPEED A SPECIALTY

Write for Catalogue

CALDWELL THE WOODSMAN DECORATING CO., Evergreen, Ala.

Mention The Florists' Exchange when writing.

Detroit, Mich.

News Notes.

Trade in general is pretty fair although there exists a marked scarcity of good stock. The quality of carnations is fair with the exception of split ones which are very numerous. A large demand for white exists and everything in sight is snapped up at 4c. and 5c. Roses are in good demand even though the greater number of them have very weak stems. There is an abundance of Roman hyacinths and Paper White narcissus; in fact, any bulbous stock not seriously affected by the lack of sunshine is to be had in quantity.

Fred Miesel & Son had a very close call from Jack Frost on January 8. They heat their plant by hot water with an Ideal boiler. Section No. 1 of the boiler was cracked and began to leak so badly at night that they were unable to put water into it fast enough. When it became impossible to use the furnace all hands started the fumigating pans to keep the plants from freezing. Gust H. Taepke proved a friend in need as did Theodore Mitchell. Mr. Taepke furnished a half dozen small stoves; Theodore Mitchell volunteered his services which were greatly appreciated. They succeeded in keeping the frost out until the section could be sawed out and plugged. But little damage was sustained, the house being in cinerarias, heliotrope and colieus.

G. Tegelaar visited Detroit last week. He is the first Dutch bulb merchant seen in these parts this season. HARRY.

HEADQUARTERS FOR HARDY CUT GREENS AND FLORIST'S SUPPLIES



Fancy & Dagger Ferns.
Fine Quality \$1.50 per 1000.
New Crop Brilliant Bronze and Green Galax, \$1.00 per 1000, \$7.50 per case of 10,000.
Southern Wild Smilax
\$3.50 and \$7.00 per case.
Laurel Festooning, good

and full, 5c. and 6c. per yard.
Branch Laurel, 50c. per bundle.
Leucothoe Sprays, \$1.00 per 100.
Sphagnum Moss, 50c. per bag; five bags \$2.00.
Green Moss, \$1.00 per bbl.



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes, cut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.

15 Province St.—9 Chapman Pl.
BOSTON, MASS.

TEL. MAIN 2617-2618

Mention the Florists' Exchange when writing.

BOXES BOXES BOXES

Light Wood Cut Flower Boxes

Sizes in Stock

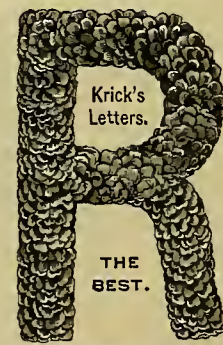
Sizes in Stock	Per 100
3 x 4 x 20	\$ 4 00
3 x 5 x 24	4 50
3 x 7 x 21	4 50
6 x 6 x 24	6 80
4 x 12 x 24	9 00
6 x 12 x 24	10 50
6 x 12 x 30	12 50
5 x 12 x 36	14 00
6 x 12 x 36	15 00
6 x 15 x 42	20 00
6 x 15 x 48	23 00

Write for samples. Special prices on ar lots.

GETMORE BOX FACTORY Inc. BELLEVILLE, ALA.

Mention The Florists' Exchange when writing.

Trade Notice Brooklyn, N. Y., Dec. 15, 1906



Krick's Letters.

THE BEST.

Owing to the advance in material in the manufacture of immortelle letters, I am forced to advance the price of letters on Jan 1st 1907, as follows, viz:—
1 1/2 x 2 in., Letters \$3.00 per 100.
2 1/2 in., Letters \$3.00 per 100.
All other goods manufactured by me are not affected at this time. Thanking you for past favors, and hoping for a continuation of the same, I remain, Yours respectfully,
W. C. KRICK.

1164-66 GREENE AVE.

Mention the Florists' Exchange when writing.

GALAX LEAVES

New crop; fresh from the patch; prices as follows: Bronze and Green Galax Leaves..... \$0.50 per 1000
Fancy and Dagger Ferns..... 1.00 per 1 00
Green Leucothoe Sprays..... 2.50 per 1000
Fronze "..... 5.00 per 1000
Rhododendron Sprays..... 3.00 per 1000
Kalmia or Mountain Laurel..... 3.00 per 1000
Also Rhododendron Plants which will grow 1 1/2 to 15 inches, 10c. each; 20 to 25 inches, 15c; 31 to 41 inches, 25c; 50 to 60 inches, 40c. Discount on large orders. Fourteen years' experience enables me to guarantee perfect satisfaction. 250 customers now in U. S. Send cash with first order.

J. N. PRITCHARD, Elk Park, N. C.

Mention the Florists' Exchange when writing.

Southern Smilax

If you want SMILAX, and you want to get it when you want it, send your orders to JAS. TOMLINSON - Newton, Ala
Mention the Florists' Exchange when writing.

Sphagnum Moss and Cedar Poles

Moss, 5 barrel bale, \$1.25; 2 bales, \$2.25; 6 bales, \$5.00; 10 bales, \$9.50. Poles, 2 in. butt, 8 ft. long, \$15.00 per 1000; 2 1/2 in. butt, 10 to 12 feet long, \$22.50 per 1000.

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

HARDY CUT FERNS



Fancy or Dagger.
\$1.25 per 1000.
SPHAGNUM MOSS, 50c. per bbl.
LAUREL ROPING 5c. per yard.
On two days notice I am obliged to raise the price of my ferns, as a large lot of them have spoiled and have to be sorted over. All orders by mail or dispatch promptly attended to.
THOMAS COLLINS, Hinesdale, Mass.

Mention the Florists' Exchange when writing.

THE ECONOMY GREENHOUSE BRACKET IS THE MEANS OF ADDING WEALTH

to your pocketbook. It increases the capacity of your houses. Just the thing for cuttings, etc. Endorsed by leading growers. Send for prices and circular.
BUXTON & ALLARD, Nashua, N. H.
Mention the Florists' Exchange when writing.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25
MANUFACTURED BY
W. J. COWEE, BERLIN, N. Y.
Samples free. For sale by dealers.
Mention the Florists' Exchange when writing.

BRILLIANT Galax and Leucothoe SPRAYS

Wholesale Trade Solicited
J. L. BANNER & CO., Montezuma, N. C.

Fancy or Dagger Ferns



\$1.00 per 1000
Galax, Brooze or Green, 75c. per 1000.
Boxwood, No. 1 Stock, 50 lb. cases, \$8.50
Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
Southern Smilax, fancy stock, 50 lb. cases \$5 50
Laurel Branches, 35c. per bundle

Telegraph Office: New Salem, Mass. Long distance telephone connections

CROWL FERN CO., MILLINGTON, MASS.

EXTRA FINE FANCY AND DAGGER FERNS

\$1.75 per 1000. Discount on large orders. Leucothoe Sprays, \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE

WILLIAM DILGER, Manager.

Let us have your standing order for Ferns; we will make Price right all through the season.

38 & 40 Broadway. Formerly MIAMI AVE. DETROIT, MICH.

Send for our weekly price list on Cut Flowers.

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REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of FLORIST'S SUPPLIES Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

THE BEST WAY

to collect an account is to place it with the National Florists' Board of Trade
56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

Mention the Florists' Exchange when writing.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

Jan. 19, 1907

HEATING.

It is proposed to heat a small greenhouse, 16x20 feet, a rough sketch of which I enclose, by means of a return flue as recommended by Henderson in his "Practical Floriculture," i. e., by locating the furnace at "A," carrying the flue under the benches and back to the top of furnace (as indicated by red lines in the diagram of ground plan). What I wish to know is (a) what should be the size of grate and height of fire-box of furnace? (b) The best size of flue? What should be the rise in inches of flue from "A" to "B" in order that the fire should burn well? (c) If I will be able to secure a minimum temperature of 45 degrees if the temperature outside is 10 degrees above zero? And (e) about how much coal will the furnace require during the season, the average temperature outside being about 35 degrees and the required temperature inside 50 degrees? The glass surface in the roof is 400 square feet and in the gable and sides 104 square feet.

Maryland W. R. C. C.
The size of grate for your furnace should be about 13x17, and the height of the fire-box not less than 12 inches, with a depth of ash pit, say, 10 inches. The best size flue for your requirements would be 10 inches inside measurement. Before replying to your question as to rise necessary to give the flue its correct length, I would say, that if I were in your place I would run this flue in a different way from your plan. I would suggest that you place your furnace under the east side of the work room, and carry the flue around the east side, across the south end, thence around the west side of chimney located in the corner of the work room or outside the house at about the same point. The rise from the furnace to the chimney I would make about 15 inches in all. This method insures a much better distribution of heat than the one you illustrate in your drawing, and is the method followed in most cases. As to your coal consumption, that is a hard matter to compute to a nicety in such a small job; the severity of the season and many other things such as construction of your house, draft of chimney, care given to the flue, would all have important bearings on this.

U. G. SCOLLAY.
I have a house 105 feet 6 inches long, 17 feet wide, 3 feet to gutter on south side, 4 feet to gutter on north side, 9 feet to ridge. My boiler is a horizontal tubular, 8 feet long, 30 inches in diameter with twenty 3-inch flues, the fireplace is 3 feet long, 2 feet wide. The chimney is 30 feet high with an opening at the top 5x9 1-2 inches. The piping, as per plan enclosed, goes from the boiler, 3 inch, into the greenhouse uphill, then rises to the top of the house at start, then all down to the boiler. I cannot get this house above 50 degrees at any time. Steam is used. How could the house be piped for hot water using the same boiler? A SUBSCRIBER.

The boiler you specify has a capacity of about 12 horse power, and is good for 1,000 square feet of steam surface. The grate you mention is good for about 900 square feet. The very weak spot in your outfit is the chimney, which you say is 5x9 1-2 inches, or that is commonly known as a 4 x 8 flue. When you take into consideration the roughness and irregularities of the brickwork from the bottom up, you will find your flue has, in all probability, no more than a 4 x 8 capacity. The flue for a boiler of this size should be 12 inches in order to obtain proper results. One very important item you have forgotten to mention in connection with the information that "steam" is used, is, how much steam. If you are able to get up five pounds in the severest weather, you should be able to warm your house to 60 degrees without trouble. Less pressure would probably answer if you had, say, 1 1/4-inch pipe under the benches; that is, less pressure would give you quick circulation, but with the 1-inch piping you would find the higher pressure necessary. It is a miracle to me if you are able to get up a pressure of any kind with the size of chimney you have. I would advise you to discard it entirely and build a new one; or put up a sheet iron flue, of say, 13 or 14 inches diameter.

Other things you neglect to give in your statement and sketch are the depth of the boiler pit below the grade of the house, and the height of the water line of the boiler. I am unable to pass on other possible features of your trouble on this account. Are you sure that your coils are sufficiently above the water line of boiler to insure their being filled with steam and not water? You could not change your present job to hot water with any advantage. In fact, you would be worse off, for your 1-inch flue is entirely unsuitable for that system, whereas it can be used in steam with fair results. If you should determine to install hot water, you should use 1 1/2 inches of 2-inch pipe under the benches, with a 4-inch main overhead. In



The Whilldin Pottery Co.
STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA

WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.



POT MAKERS FOR 140 YEARS
A. H. HEWES & CO. INC. CAMBRIDGE, MASS.
FLORIST WARE OF EVERY KIND

this case you would also have to build the new chimney. My advice to you, taking it for granted that your piping is now properly run for steam, and that all other details are as they should be, is to build a new chimney, and see if you do not get the results you require. I am sure you will.

U. G. SCOLLAY.
I have an upright tubular boiler which I put into my greenhouse when I knew less than I do now about boilers. It was second-hand. After I had it a few years I put in new boiler tubes. I gave it the same care each and every year; but it is a fact the tubes I put in lasted no longer than the old tubes did, which were in the boiler when I purchased it. Next Spring I must put in new tubes. What kind of iron does Mr. Scollay recommend? If I have some made to order, the old fashioned way, would they last any longer and how many mouths in advance would I have to give the order for making the tubes? B.

Your inquiry is one often met with, and, frankly, the trouble you experience is often the cause of very annoying complications to us in our business relations with customers. We do not manufacture boiler tubes, hence I cannot give you much in the way of comparative analyses of iron and steel, which are both used in making tubes, but I can give you some slight idea of the differences we find in cases under our own observation. The best charcoal iron tubes are supposed to be the most durable and satisfactory, and, as a rule, they are; but I have seen instances where we have bought tubes guaranteed to be of the above quality, and where they did not last over five years. For our repair work we strenuously insist upon charcoal iron tubes from the concerns furnishing us this line of goods, but, sad to say, we fear we do not always get them, even though the jobbers may conscientiously believe them to be what we call for. I have seen boilers, new ones I mean, set up, in which the first set of tubes lasted ten years; the second set lasted not over three, and we sent to the manufacturers of the boiler asking for a set such as were put in the boiler when new. These we received, and put in, and found no better than the second set. What else can this be but a difference in quality between the first and the others? The same water is used, the same conditions exist.

To illustrate still further, one case in mind is where we replaced several defective tubes in an old boiler, and in three years, at least three or four of these new tubes gave out, while every one of the old tubes remaining was still in good condition. I could go on and give many curious instances relating to the boiler tubes, but the above will suffice I think. In conversation with large manufacturers of tubes, they have assured me, that steel tubes in some parts of the country outlast wrought iron ones. The engineer of a small coasting steamer told me of leaving New York with an entirely new outfit of tubes, and after trading in Southern waters for eighteen months, was compelled to retube throughout. So far, after three years constant use in the North, his tubes are but little affected. He blamed the water of the South for his trouble, and I think he is right from all I can learn; but at the same time there may be a difference in the quality of the tubes that would partly account for it. I cite these cases in order to show you that yours is a very common one, so far as the life of boiler tubes is concerned. I would apply to the most reputable house you can find, and order strictly best charcoal iron tubes. I do not know that you can get boiler tubes made to order for such a small job as yours would be; if such is the case, I

....Send for Particulars....

REGARDING

Tobakine Products

"THEY KILL BUGS"

"Flowers and Profits"

is a profitable and interesting booklet.

E. H. HUNT, General Agent

76-78 Wabash Avenue, Chicago, Ill.

Mention the Florists' Exchange when writing.



THE BEST
Bug Killer and
Bloom Saver

For PROOF

Write to

P. R. PALETHORPE CO.
LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

never heard of it. You will find large stocks of boiler tubes in many places, and if you fail to discover any wrought iron tubes among them, I will gladly refer you to houses in New York who claim to handle these almost exclusively.

SOUTH BEND, IND.—A recent court decision at London, Ont., rendered in favor of the Ideal Concrete Machinery Company of this city leaves this concern in practical control of the manufacture and sale of "face down," horizontal core concrete block machinery. The Ideal Company is arranging to enlarge its plant at South Bend, for the manufacture of the Ideal machine, and is opening a large plant at London, Ontario, for the manufacture of Ideal machines for the Canadian trade.

BURLINGTON, IA.—Peter Nees, the veteran florist, is seriously ill. Report says he is partially paralyzed and that the attending physician had very little to give in the way of encouragement. Mr. Nees is 84 years old and has always enjoyed good health and in this hour of trial in the evening of his life he has the sympathy of every Burlington resident.

They Like the Paper.

We like your paper very much, and would not be without it.
THE J. S. PHILLIPS SONS CO.
Maryland.



Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate	Price per crate
1500 2 1/2 in. pots in crate \$4.88	120 7 in. pots in crate, \$4.20
1500 2 1/4 " " " 5.25	60 8 " " " 8.00
1500 2 1/2 " " " 6.00	HAND MADE
1000 8 " " " 6.00	48 9 in. pots in crate, \$3.80
800 8 1/2 " " " 5.50	48 10 " " " 4.80
500 4 " " " 4.50	24 12 " " " 4.80
820 5 " " " 4.51	12 14 " " " 4.80
144 6 " " " 2.16	6 16 " " " 4.50

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Yases, etc. Ten per cent. off for cash order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Kolker & Sons, Agts., 31 Barclay St., N. Y. City
Mention the Florists' Exchange when writing.

IDEAL PLANT FOOD

Put up in let's of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MACMULKIN,
194 BOYLSTON ST., BOSTON, MASS.

Mention the Florists' Exchange when writing.

Sheep Manure

Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.

Mention the Florists' Exchange when writing.

Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

GEORGE RIPPERGER,
LONG ISLAND CITY, N. Y.

Mention the Florists' Exchange when writing.

FREE HOSE

trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipe. Send for Free catalogue "Ray" Boilers, Ventilating apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY COMPANY,
244 Fulton Street, - New York City
Mention the Florists' Exchange when writing.

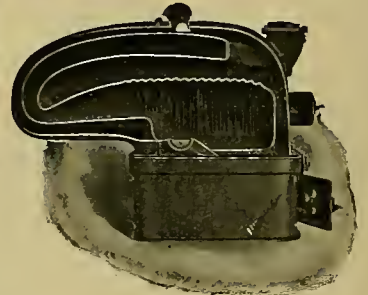
PLANT CULTURE

PRICE \$1.00
A. T. DE LA MARE PTG. & PUB. CO.,
2 Duane Street, New York

LAND CO
THE HEATING QUESTION

Heating a greenhouse is radically different from other heating; it's so different that the usual heating engineers fail to give anything like a satisfactory results—a case where patronizing "home trade" is apt to prove a continual annoyance and expense. When we say heating, we have more in mind than the right boiler—there's a right way, an economical way to pipe for the most rapid circulation—it's a proposition that should be placed only in the hands of those who know the greenhouse business.

HITCHINGS & COMPANY
GREENHOUSE DESIGNERS AND BUILDERS
Manufacturers of Heating and Ventilating Apparatus
1170 BROADWAY, NEW YORK



Mention the Florists' Exchange when writing.

New Orleans, La.
News Notes.

Thursday, Friday and Saturday, February 14, 15 and 16 (Mardi Gras week), are the dates on which the Society of Southern Florists will hold its first annual exhibition. All committees have been appointed and are working hard to make this their first show a great success. Robert Lockerbie is chairman of the arrangement committee, with C. W. Eichling, the first vice-president, as chairman ex officio. In addition to plants, flowers, etc., there will be a display of florists' supplies, sundries and boilers; and from the space already applied for all classes will be well filled. The florists of the North are cordially invited to co-operate with their Southern confreres in making the show a grand success. There never has been a better opportunity of placing before the Southern buyer that which he needs, as the city at that time furnishes so many attractions, including the world-famed Mardi Gras, which attracts visitors from all over the States.

Some idea of the mild weather we are experiencing can be gathered from the statement that the writer saw during the past week, thousands of narcissus, one of the polyanthus section, in bloom, together with white, and blue Roman hyacinths in the open at C. Holst's nurseries. Early varieties of sweet peas are also a mass of flowers.

Justin St. Mard has a fine stock of washingtonia and other hardy palms that are largely used in New Orleans for sidewalk planting. Mr. St. Mard finds the market overstocked with palms; he intends reducing his stock and building cottages on a portion of his garden.

Among those installing new boilers is Chas. Eble with a Wilkes, and Frank Rieth with a large size Hitchings. Mr. Rieth intends building two new greenhouses in the near future. If the present weather could be depended on New Orleans florists could dispense altogether with boilers. Rieth's crop of callas is a pleasure to look at, for at several places here the calla disease is prevalent and seems to be one of those diseases that are hard to check.

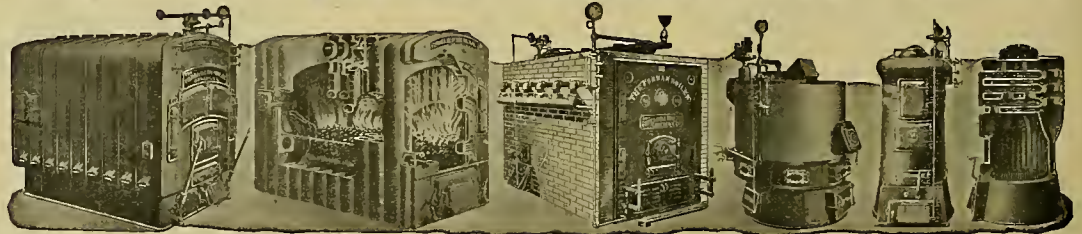
Louis Seiber, who since its formation has been secretary to the Metairie Ridge Nursery Company and previous to that was in the employ of Harry Papworth, has left their employment and gone to Ponchatoula, La., to manage a range of glass erected for cucumber raising by a Chicago lady.

Ziegler & Werner have dissolved partnership; the business will be carried on by Mr. Zeigler.

Robert Lockerbie has resigned his position as rose grower to the Metairie Ridge Nursery Co.
CRESCENT CITY.

DANVILLE, N. Y.—F. M. Smith has rented 20 acres more land, and now has 43 acres of a truck garden. He reports a very successful business during 1906.

FURMAN BOILERS FOR GREENHOUSE HEATING



Write for a Catalogue on Modern Steam and Hot-Water Heating, mailed free upon request, Address
TBE HERENDEEN MANUFACTURING CO.
281 Pearl Street, NEW YORK. Dept. F. GENEVA, N. Y.
Furman Boilers have been awarded the Certificate of Merit at Five different Florists' Conventions. Have a record of 20 years. Over 25,000 in use.
SELLING AGENT: EDW. S. DEAN, Bloomington, Ill

St. Louis.

News Notes.

Miss Alice Ellison, daughter of Mr. and Mrs. Ellison of the Ellison Floral Company, was married the past week to Harry Wardy of Grand Rapids. The couple will make their home in Chicago.

C. A. Kuehn's wire shop was partly damaged by an early morning blaze in his building on Saturday last. Damage, less than \$500, is fully insured.

Frank Weber, of the nursery firm of H. J. Weber & Sons, has returned from his eastern trip. He says he had an enjoyable time with friends in the trade.

Our visitors the past week were: Henry Johan of Collinsville, Ill.; J. F. Ammann of Edwardsville, Ill.; Swan Peterson of Gibson City, Ill.; and A. F. Longren of Joliet, Ill.

Mr. Bentzen of the Bentzen Floral Company has been very sick the past week, but is improving from last reports.

President Irish of the Florists' Club will call a special officers' meeting this week to formulate plans to raise the balance of the \$10,000 guarantee fund for the flower show, before the next meeting of the club.
ST. PATRICK.

LOWELLVILLE, O.—Ralph Darrow met with a very painful accident last week while engaged in putting some new tubes in the boiler used for heating the new greenhouses. Mr. Darrow stopped the flue with straw, and after having finished the work he set fire to the straw and very soon a violent explosion occurred, due to gas that had formed in the flue. The flame struck Mr. Darrow in the face, burning him very painfully.

CLEVELAND, O.—On January 28 The Cleveland Florists' Exchange will open a wholesale commission house and growers' market at 606 Huron road. Besides representing the growers of this locality they will carry a full line of florists' supplies. George W. Smith, who the past Summer disposed of his growing and retail business, will have full charge of the new venture.

Greenhouse Material  **Hot Bed Sash**
of Louisiana Cypress and Washington Red Cedar
Greenhouse Hardware and Post Patent V and U Gutters.
OUR GRADE INVARIABLY THE BEST, OUR PRICES RIGHT.
Write for Catalogue and Estimate when figuring on your new houses.
A. DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL.

ARE YOU GOING TO BUILD
Assure yourself of **HONEST COMPETITION** figures by obtaining an estimate from me on Iron Frame or Sash bar greenhouses. My prices are the lowest for the best class of work.
FRANK VAN ASSCHE
(FORMERLY SUPT. FOR WEATHERED)
FACTORY: Fulton and Rose Ave., Jersey City, N. J.

GREENHOUSE GLASS
10x12 10x14 10x15 10x16 12x12 12x14 12x16 12x18 14x16 14x18 14x20 14x24 16x18 16x20 16x24
C. S. WEBER & Co.,
10 Desbrosses St., New York

Holds Glass Firmly
See the Point 
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 15 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

WINONA, MINN.—H. J. Fuhlbrugge, the well-known florist, residing at 220 Kansas street, has got into the municipal political race and has filed for the position of alderman from the Third ward. Mr. Fuhlbrugge is a Republican.
LISBON, O.—John M. Handte, the veteran florist, passed his 60th mile stone Wednesday, January 2, 1907, and was most generously remembered by the members of the Masonic Lodge of which order he has been a member many years. In the evening a committee called at his home and presented him with a well filled purse with the best wishes of his Masonic Brothers.

For Greenhouses, Graperies, Hot beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given
GLASS
N. COWEN'S SON,
14 & 16 Wooster Street. NEW YORK
THE AMERICAN CARNATION
Price 3.50
A. T. DE LA MARE PTG. & PUB. CO. LTD.
2-8 Duane Street, New York



YOU can see plain enough that with this valley connection the U-Bar construction is just about as light as any construction can be, and be enduring. U-Bar Greenhouses are the best greenhouses built because there's no other construction admits of such light connection, or makes such connection in as mechanical, yet pleasing way. The gardener likes the results these houses give—the owner likes both the looks and the results. Send for U-Bar Catalog. Pierson U-Bar Co., Designers and Builders of U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23 St., New York.

Mention the Florists' Exchange when writing.

The STANDARD VENTILATING MACHINERY

The original machine with self oiling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

Mention the Florists' Exchange when writing.

Your Money is well spent when you advertise in

THE FLORISTS' EXCHANGE

IN KANSAS CITY, MO.

Mr. A. F. Barbe is one of the leading florists. His houses are built with our material. Sometime ago he wrote us: "Enclosed please find check for Material sent me. I find everything entirely satisfactory, and the cutting and fitting is perfect." This testimonial as well as all others which we publish are genuine and not solicited—we can prove it to anyone. We would like a chance to prove that our material is the best.

JOHN C. MONINGER CO.
115 E. Blackhawk St., CHICAGO

Mention the Florists' Exchange when writing.

SAVE TIME AND MONEY
OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING, VENTILATING APPARATUS, HOT-BED SASH

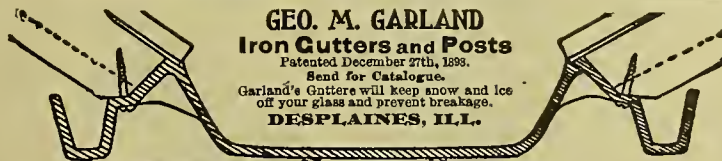
Putty--GREENHOUSE GLASS--Points

AT WHOLESALE

S. JACOBS & SONS,
GREENHOUSE CONSTRUCTION MATERIAL

1365-79 Flushing Ave., BROOKLYN, N. Y.

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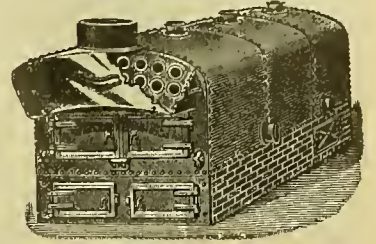


GEO. M. GARLAND
Iron Gutters and Posts
Patented December 27th, 1893.

Send for Catalogue. Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at Chicago Flower Growers' Market.
Mention The Florists' Exchange when writing.

KROESCHELL BROS. CO.
IMPROVED
Greenhouse Boiler
33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information. Mention the Florists' Exchange when writing.

STANDARD Pumping Engines



There is a reason for the demand for Standard Pumping Engines. We should like to write you about it.

The Standard Pump & Engine Co. CLEVELAND, O.

Mention the Florists' Exchange when writing.

Evans Improved Challenge



Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO. RICHMOND, IND.

Mention the Florists' Exchange when writing.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.

Mention the Florists' Exchange when writing.

WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses Greenhouse Heating and Ventilating Apparatus.

P. O. Address, Box 789, New York City.

Mention the Florists' Exchange when writing.

GOING TO Build a Greenhouse?

Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.

The A. T. STEARNS LUMBER CO.
Boston, Mass.



WHOLESALE TRADE LIST

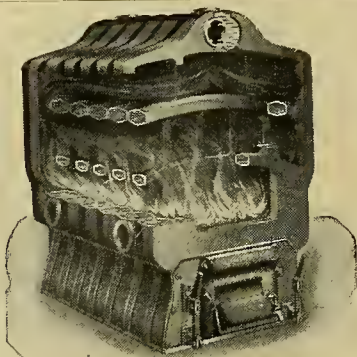
ASPARAGUS PLUMOSUS, 2 1/2 inch pots, \$3.00 per 100. 3 in. pots, \$5.10 per 100.
 ASPARAGUS SPRENGERI, 2 in. pots, \$2.00 per 100.
 BOSTON FERNS, 6 in. pots, 20c. 6 in. pots, 25c.
 CLEMATIS PANICULATA, 4 in. pots, \$1.50 per doz., \$10.00 per 100; 3 in. pots, 75c. per doz.; \$5.00 per 100.
 DRAEZA INDIVISA, 6 in. pots, \$2.00 per doz.
 IVY, Hardy English, 3 in. pots, \$5.00 per 100; 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
 YELLOW DAISY (Etoile d'Or), 3 in. pots, \$5.00 per 100. 2 1/2 in. pots, \$3.00 per 100.
 SANSEVIERA (Zebra plant), 4 in. pots, strong, \$1.60 per doz.; 3 in. pots, \$1.00 per doz.

C. EISELE, 11th & Roy Streets, PHILADELPHIA, PA.
 Mention the Florists' Exchange when writing.

VIOLET CULTURE

Price, \$1 50 Postpaid

A. T. De la Mare Ptg. & Co. Ltd., New York



The Greenhouse Boiler

"Far Ahead of Any"

steam boiler that I have ever seen or used in regard to heating and is very economical in cost.

This is the verdict of an old time florist.

Do not decide until you have my estimate on boiler or heating material.

JOHN A. PAYNE

Horticultural Architect and Builder
 33 Clendenny Ave., Jersey City, N. J.
 Sash opening apparatus and all kinds of greenhouse structural material.

Mention The Florists' Exchange when writing.

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS. IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS

DILLER, CASKEY & CO.

Successors to JENNINGS BROS

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

THE HEART OF THE MATTER IS ALL HEART SUN DRIED CYPRESS

GREENHOUSE MATERIAL
 IS THE VERY BEST—
FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO,
 HAVE IT, RIGHT FROM THE GULF OF MEXICO, AND WILL MAKE YOU RIGHT PRICES—
 SEND FOR SKETCHES ESTIMATES AND CATALOGUE FREE—
 HOT-BED SASH, VENTILATING APPARATUS, FITTINGS AND MANY OTHER THINGS—

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.

FOLEY MANUFACTURING COMPANY, 471 W. 22nd St., CHICAGO.

Mention the Florists' Exchange when writing.

A. HERRMANN
 Manufacturer of Floral Metal Designs

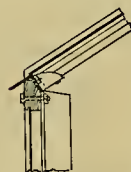
IMPORTER AND DEALER IN FLORISTS' SUPPLIES

FACTORY: 709 FIRST AVENUE, BETWEEN 40th AND 41st STREETS, NEW YORK

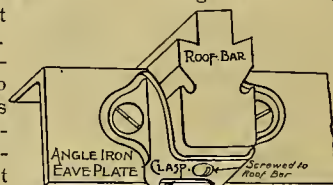
OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.

WRITE FOR NEW CATALOGUE

HERE ARE SOME JUST SO THINGS



about our galvanized ice-clearing eave plate. In the first place, it fits snugly over the fascia, with 2 inches inside the house in direct contact with the heat, while 3 inches extend on the outside, carrying the weather drip entirely free of the sill. The sash bar clasps are secured directly to it by countersunk screws—the bar is screwed to and firmly held by the sash bar clasp. The eave joint is then wood against iron, instead of wood against wood, making a joint free from decay. The clasp carries off all drip leaving the ends of sash bar always dry, a protection against end rot.



You will not only add to the life of your house, but thrive its rigidity. We sell this eave plate with clasps attached—put it into your very next house. Write for prices.

Lord & Burnham Co.

Greenhouse Designers and Manufacturers.

1133 Broadway, corner 26th St., NEW YORK.

BOSTON BRANCH, 819 Tremont Building.

Mention The Florists' Exchange when writing.

"The test of years is the real test."

Scollay Boilers

ARE BEST

See our advertisement in next issue. Catalogues sent on application.

JOHN A. SCOLLAY,

74-76 MYRTLE AVE.,

BOROUGH OF BROOKLYN,

NEW YORK CITY.

Telephones 1492-1493 Main.

U. G. SCOLLAY, Manager.



Mention the Florists' Exchange when writing.

THE FLORISTS' SUPPLY HOUSE OF AMERICA
 EASTER BASKETS—
 EASTER NOVELTIES

SEND FOR CATALOGUE.

H. Bayersdorfer & Co.

Mention The Florists' Exchange when writing.

FLORISTS' EXCHANGE

We are a strong force to grow into a vigorous plant
 A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, SEEDSMEN AND THE TRADE IN GENERAL

Vol XXIII. No. 4

NEW YORK AND CHICAGO, JANUARY 26, 1907

One Dollar Per Year

CARNATION WINSOR

We have not advertised Winsor until now because we have not had to. It is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise, for the present, February delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time do-

ing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullast winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. February delivery, \$12.00 per 100, \$100.00 per 1000.

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

Mention the Florists' Exchange when writing.



NOW READY
Splendid New Crop of
Asparagus
Plumosus Nanus

Cut strings, 8 feet long,
 50 cts. each.

W. H. ELLIOTT
Brighton, Mass.

Mention the Florists' Exchange when writing.

Vaughan's Flower Seeds

All New Crop; Ready Now. 10 per cent. discount for cash with order (except Asparagus)

	Tr. pkt.	Oz.	Tr. 1/4	Pkt. oz.	Oz.
ALYSSUM, sweet.....	\$0.15	\$0.15			
ALYSSUM, Little Gem.....	.10	.35			
ASPARAGUS, Plumose Nanns, best greenhouse grown, fresh seed 100 seeds @ 6c., 1,000 seeds \$4.50					
ASTER, Carlson. An improved paeony-flowered. The favorite in the Chicago market. Earlier than Semple's Branching. White, Rose, Pink, Lavender, Daybreak.....	.25	.50	1.50		
ASTER, Queen of the Market. Separate colors.....	.10	.20	.50		
Mixed.....	.10	.20	.40		
ASTER, Vaughan's Improved Victoria. Finest large flowering strain. White, Scarlet, Pink, light and dark blue, etc.....	.25	.50	2.00		
Mixed.....	.25		1.75		
ASTER HOENZOLLERN, an improved type of Giant Comet. Separate colors.....	.20	.35	1.30		
Mixed.....	.15	.30	1.00		
ASTER, early 1/2, white and rose, each.....	.20	.35	1.35		
ASTER SEMPLE'S GIANT BRANCHING, separate colors.....	.10	.20	.50		
Mixed.....	.10	.20	.50		
CENTAUREA candidissima.....	.25	.35	1.30		
CENTAUREA, Gyrocampa.....	.05	.10			
CENTAUREA Imperialis, White.....	.10	.40			
Mixed.....	.10	.40			
COLEUS, Mammoth Rainbow mixture.....	.25				
COSMOS, Early flowering, Dawn.....	.10	.50			
COSMOS, Early flowering, mixed.....					
COSMOS, Giant White.....	.10	.40			
COSMOS, Giant Pink.....	.10	.45			
COSMOS, Giant Crimson.....	.10	.45			
COSMOS, Giant Mixed.....	.10	.40			
HOLLYHOCK, New Annual mxd.....	.20				
LANTANA Hybr da, mixed.....	.05	.15			
LOBELIA, Crystal Palace.....	.10	.40	1.20		
LOBELIA, Emperor William.....	.10	.30	1.00		
MIGNONETTE New York Market.....	.50	1.75			
MIGNONETTE, Giant Machet.....	.10	.50			
PETUNIA, Large fringed, mixed.....	.25				
PETUNIA, Giant Ruffled, mixed.....	.50				
PETUNIA, Vaughan's Best mixed.....	.50				
PETUNIA, Double fringed, mixed.....	.80c	tr. pkt., 1000 seeds \$1.00			
PETUNIA, Double Vaughan's Special, mixed.....	.70c	tr. pkt., 1000 seeds \$1.20			
SALVIA Splendens.....	\$0.15	Tr. 1/4 Pkt. oz. Oz.			
SALVIA Splendens Drooping Spikes very fine and showy.....	.25	.50	1.60		
SALVIA, St Louis, one of the best.....	.25	.60	2.00		
SALVIA, Fireball, dwarf, new, best of all.....	.25	.85			
SALVIA, Bonfire, separate colors.....	.25	.60	2.00		
STOCKS, 10-week separate colors.....	.25	.60	2.00		
STOCKS, Cot and Come Again.....	.25	.75	2.50		
VERBENA, Mammoth white.....	.15	.30	1.00		
VERBENA, Mammoth Mayflower.....	.15	.30	1.00		
VERBENA, Mammoth scarlet.....	.10	.30	1.00		
VERBENA, Vaughan's best mixed.....	.25	.50	2.00		

Vaughan's Seed Store

14 BARCLAY ST. NEW YORK

CHICAGO, 84-85 Randolph Street, Greenhouses, Western Springs, Ill.

Mention the Florists' Exchange when writing.

GERANIUM NOVELTIES

SYCAMORE. Originated four years ago by the St. Clair Floral Co., Belleville, Ill., who claim that it is one of the best bright clear Salmon Pink bedders in the country. A cross between Mrs. E. G. Hill and Paul Bruant, has a vigorous habit and is always in bloom. 20 cts. each; \$2.00 per doz.; \$15.00 per 100.

BRUANT'S 1906 NOVELTIES. We offer a collection of thirty different varieties all of which are perfect specimens of the well-known Bruant race, including the Cyclops. 50 cts. each; one of each \$10.50.

LEMOINES 1906. Fifteen varieties among which are some of the most beautiful combinations of colors that we have ever seen, every one worthy a place in every collection. 35 cts. each; one of each \$5.00.

ROZAIN BOUCHARLATS 1906 VARIETIES. Messrs. Bouchard, Lyons, France, have quite a reputation as producers of excellent new Geraniums; among the sixteen varieties there are some fine ones. 25 cts. each; one of each \$3.50.

ALLIANCE. 1905 introduction. A cross between an Ivy and a zonal. A beautiful shade of lilac white, blotched with crimson rose. Excellent habit for vase or pot plants. 25 cts. each; \$2.50 per doz.; \$20.00 per 100.

CAESAR FRANCK. 1905 introduction. Double Ivy, magnificent shade of soft crimson; splendid habit. 25 cts. each; \$2.50 per doz.; \$20.00 per 100.

FLEUVE BLANC. A pure white semi-double and perfect type of Bruant race. \$1.50 per doz. \$10.00 per 100.

CALADIUM ESCULENTUM, 1st size, \$2.00 per 100. 2nd size, \$1.00 per 100.

MADEIRA VINE ROOTS, \$1.00 per pk. \$3.50 per bus.

HARDY ENGLISH IVY. Extra strong. \$2.00 per 100, \$18.00 per 1000.

A cordial invitation is extended to all interested in Horticulture to visit us. Cowenton Station, Philadelphia division, B. & O. R. R. 12 miles north of Baltimore.

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

GROUND HOG ITEMS



BEGONIAS & GLOXINIAS

Single separate colors.....	Doz.	100
mixed colors.....	\$0.40	\$2.50
Double separate colors.....	30	2.25
" mixed.....	65	5.00
Gloxinias, separate colors.....	50	4.00
" mixed.....	45	3.00
Asters Queen of the market, mixed.....	per oz.	50c.
Asparagus Plumosus Nanus.....	1000 seeds	\$4.50
Sprengeri.....	1000 seeds	75c.
Begonia Vernon, fine strain.....	trade pkt.	25c.
Bellis Perennis, double.....	trade pkt.	25c.
Candytuft Empress.....	per oz.	20c.
Centaurea Gymnocarpa.....	per oz.	35c.
Golden Feather, dwarf selected.....	per oz.	40c.
Lobelia, Crystal Palace Compacta, true, trade		
pkt. 25c.....		
Petunia Grandiflora, extra choice single mixed,		
trade pkt., \$1.00.....		
Petunia Grandiflora, superb fringed mixed, trade		
pkt., \$1.00.....		

Phlox, choice mixed..... per oz. 40c.
 " Dwarf..... per oz. \$1.25
 Salvia Bonlire..... per oz. \$2.50

Stocks, Ten Week, dwarf, large flowering,
 mixed trade pkt. 25c.
 Astilhoidea Floribunda..... per 100 \$4.00
 Compacta Multiflora..... per 100 \$4.00

We would be pleased to mail you our catalog

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

FOR IMMEDIATE SOWING

Salvia Splendens Grandiflora.....	1-8 oz.	Oz.	Salvia Splendens Maroon Prince.....	1-8 oz.	Oz.
" Compacta.....	\$0.25	\$1.50	" Fire Ball.....	\$0.75	\$5.00
" Bonfire.....	.40	2.60	" Silverpot.....	.75	5.00
" Lord Fauntleroy.....	.75	4.00			

NOVELTY 1907

SALVIA ZURICH. Par original Pat. 20c.

This Salvia is fully two weeks earlier than "Fireball" and is very compact. Excellent for a potplant and for forcing. Retains its flowers for a long time. One of the best novelties of this season. Our seeds are absolutely fresh and of high germination.



W.W. RAWSON & CO.

5 UNION STREET, BOSTON, MASS.

Your Money is well spent when you advertise in
THE FLORISTS' EXCHANGE

The American Carnation Price
 A.T. De La Mare Ptg. & Pub. Co., 2 Duane St., New York \$3.50

S.&W. Co.'s Fertilized Flower Pots

For Growing and Shipping Plants.



SEND FOR
SAMPLES
 FREE



Made of Extra Heavy Manila Waterproof Card Board, Fertilized, Wire Stitched Seams, Perfect Drainage and Shipped flat.

If you grow Tomatoes or Pot Plants you cannot afford to pass over this.

These square pots economize space, give more room to the roots than the tapering round pots. In setting out plants the pots are not removed. Simply unlock the bottom flaps and turn them up (see cut), allowing the roots to grow down.

Size.	Gross Weight	Par 1000.	Par 250.	Par 1000
2 1/4 inch.....	about 3 1/2 lbs.....	\$0.76		\$2.25
3 ".....	" 40 lbs.....	1.00		3.50
3 1/2 ".....	" 60 lbs.....	1.25		4.50

In setting out Plants unlock the bottom, pull pot up one inch, and you have a wall to protect the roots against Grubs and Worms.

No extra charge for case or cartage.

Terms, Not Cash with order. Address all orders to

STUMPP & WALTER CO Seed Growers and Importers.
 50 BARCLAY STREET, NEW YORK.

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SEED PANSY PLANTS

THE JENNINGS STRAIN

25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, ready to bloom, \$1.00 per 100; \$7.50 per 1000; by express only. Second size, strong plants, 100 by mail, 60c.; 1000 by express, \$4.00.; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

E. B. JENNINGS,
 Lock Box 254 Southport, Conn.
 Grower of the Finest Pansies
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TRUE STOCK

Aquilegia Coerulea

Rocky Mountain Columbine

From the Rockies

SEED—1 oz. \$1.00; 1/4 lb., \$3.50; lb. \$12.00 by mail.
 ROOTS—4 and 5 year old, doz. \$1.25; 100 \$8.00, by express.

Order from headquarters.

THE BARTELDES SEED CO., DENVER, COLO.
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SEEDS



Asparagus Plumosus Nanus. This is 100 greenhouse grown, true, un-mixed, of highest germination.....	1000	\$3.50	Centaurea Candidissima.....	Tr. pkt.	.50	1.50	Stocks, Beauty of Nice, white.....	Tr. pkt.	.50
" mixed.....			Dracaena Indivisa.....		.10	.30	" Beauty of Nice, rose.....		.50
Ageratum Mexicanum, blue.....	Tr. pkt.	\$0.10	" Australis.....		.30	1.00	" Large flowering, improved, Ten Weeks, in separate colors.....	.50	3.00
" Blue Perfection.....	.15	.50	Grevillea Robusta.....		.15	.50	Verbena, Mammoth, scarlet, white, rose, purple, separate.....	.25	1.25
" Album white.....	.10	.20	Lobelia, Emperor William, light blue.....		.35	1.50	" mixed.....	.20	1.00
Alyssum Carpet of Snow.....	.10	.35	" Crystal Palace, deep blue.....		.30	1.25	Fresh Fern Spores mixed, pkt. 25c.-50c.		
Antirrhinum, Tall Giant, separate, rose, scarlet, white, yellow, dark blood red.....	.15	.50	" Speciosa, fine for vases.....		.15	.50	Fern Spores in separate sorts, pkt. 25c.-5c.		
Begonia Vernon crimson.....	.25		Petunia, California Ruffled Giants.....		.50		" PALM SEEDS.....	100	1000
" Semperflorens, rose.....	.25		" Superb Double Fringed 1000 seeds, \$1.25.....				Kentia Belmoreana or Forsteriana.....	\$0.75	\$5.00
Candytuft, Giant White Hyac.....	.15	.50	" Double Giants 1000 seeds, 75c.....		.20	1.00	Latania Borbonica.....	.40	2.50
Centaurea Gymnocarpa, Dusty Miller.....	.15	.40	Phlox Drummond grandiflora.....		.20	1.00	Phoenix Robelenii.....	per 10 25c.	1.50
			Salvia Splendens, Triumph.....		.25	2.00	" Canariensis.....	.25	2.00
			" Bonfire.....		.30	2.50			

BULBS

Amaryllis Formosissima scarlet.....	12	100	Brenchleyensis best scarlet.....	\$0.20	\$1.25	Mille. Berat.....	12	100	
" Mixed.....	\$0.60	\$4.00	White and Light XXX.....		.35	2.00	Martha Washington.....	\$0.40	\$2.50
BEGONIAS—Tuberous							" DARK LEAVED.....	.35	2.25
Single, rose, white, crimson, scarlet, yellow, orange separate.....	.40	2.50	GLOXINIA			Egandale.....	.45	3.00	
Single, mixed.....	.35	2.25	Pure white, blue, violet, red, tigered, red with white border, blue with white border, separate.....	.60	4.00	Musafolia.....	.40	2.50	
Double, rose, white, crimson, scarlet, yellow, orange separate.....	.65	4.50	Mixed.....	.45	3.00	Robusta.....	.30	2.00	
Double, mixed.....	.50	4.00	CANNAS			Black Beauty.....	.75	5.00	
CALADIUM			Time to Start Now.						
Fancy Leaved.			RED.			Austria or Italia.....	.25	1.50	
Very Finest Sorts, 25 named varieties.....	1.25	10.00	A. Bonvier.....	.35	2.25	Allemania.....	.30	2.00	
Mixed.....	1.00	8.00	Beaute Poitevine.....	.35	2.25	Mrs. Kate Gray.....	.40	2.50	
GLADIOLI			Charles Henderson.....	.30	2.00				
Augusta, white.....	.40	2.50	Crimson Bedder.....	.45	3.00	GOLD-EDGED CANNAS			
America, finest flush pink.....	1.50	10.00	YELLOW.			Mmc. Crozy.....	.40	2.50	
Shakespeare, white.....	.50	3.50	F. Vaughan.....	.30	2.00	Queen Charlotte.....	.40	2.50	
			Buttereup.....	.65	5.00				

Prices per 1000 if wanted.

H. H. BERGER & CO., 47 Barclay St., NEW YORK

JOHNSON'S HIGH-GRADE ASTER SEED For Florists
From the Best American and European Growers.



	Trade pkt.	oz.
Queen of the Market, three weeks earlier than other Asters, separate colors.....	\$9.20	10 00
Choice mixed.....	15	50
Seuple's late Branching, high-grade American grown not California, separate colors.....	20	75
Choice mixed.....	20	75
Oatrich Flame, separate colors.....	25	1.50
Choice mixed.....	25	1.25
Victoria, highly prized by florists for bedding and cutting, separate colors.....	25	1.75
Choice mixed.....	25	1.50
Improved penny pretition, very popular with florists, a profuse bloomer, separate colors.....	25	1.50
Choice mixed.....	20	1.25
Mignon, an invaluable variety for cutting, pure white.....	25	1.50
Choice mixed.....	25	1.25
Hohenzollern, the earliest of all Asters, separate colors.....	20	1.25
Choice mixed.....	20	1.00
Comet, a beautiful class with curled and twisted petals, separate colors.....	25	1.50
Choice mixed.....	25	1.25
Daybreak, (originator's stock), shell-pink, one of the most beautiful of Asters, early, long-stemmed and of compact habit.....	30	2.00
Purity, (originator's stock), pure white, and identical in form and habit with Daybreak.....	30	2.00

NEW HOHENZOLLERN ASTER.
See our Flower Seed offer in the Exchange January 12th.
JOHNSON SEED COMPANY, 217 Market St., Philadelphia, Pa.
Herbert W. Johnson of the late firm of Johnson & Stokes, President.

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SEED GROWERS
171-173 Clay St. SAN FRANCISCO, CAL.
OUR SPECIALTIES: Onion, Lettuce, Sweet Peas
Also Carrot, Celery, Celeriac, Cucumber, Endive, Leek, Mustard, Parsley, Parsnip, Radish, Salsif, Spinach, Tomato and FLOWER SEEDS
Growers for the trade on Contract. Warehouses at Santa Clara; Farms and Farm Headquarters, Carnadero, near Gilroy.
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109 MARKET STREET
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Specialties:
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ARTHUR COWEE, GLADIOLUS SPECIALIST
MEADOWVALE FARM, BERLIN, N. Y.
United States Representative and Grower of GROFF'S HYBRIDS, MIXTURES and COLLECTIONS to color. Fine Mixtures of all colors. Named Novelties of rare beauty. WRITE FOR CATALOG.
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VERBENA MAMMOTH
COLORS or MIXED.....oz. \$.75
Petunia Double Large Fl. Fringed, t. pkt. 1.00
Single Large Fl. Fringed..... .50
Salvia Splendens.....oz. 1.00
Stocks Large Fl. 10 Weeks.....t. pkt. .25
Dwarf Snowflake..... .25
Begonia Dwarf Vernoo..... .25
Vulcan..... .25
Erfordia..... .25

GLADIOLI For Forcing
All stock guaranteed to be as represented
America, flesh pink.....100 1000 \$10.00 \$75.00
Shakespeare, light.....5 00 40 00
Nazincott, red.....3 50 30 00
White and light, mix good.....1 50 12 00
extra.....3 00 25 00
250 at 1000 rate.
8 per cent discount for cash with order.
JOHN LEWIS CHILDS, Floral Park, N. Y.
Mention the Florists' Exchange when writing.

W. C. BECKERT, Allegheny, Pa.
Mention the Florists' Exchange when writing.
ASPARAGUS SEED 1906 CROP
Plumosa Nana, True.....100 1000 \$3.50
Springerl.....15c .75
Cycas Revoluta Seed.....\$2.50 22.50
Headquarters for all the best flower seeds. 100-page seed buyer's guide free.
MOORE & SIMON, Seed Growers,
139 Market St., Philadelphia
Mention the Florists' Exchange when writing.

A. J. Pieters Seed Company HOLLISTER, CAL.
GROWERS OF Vegetable and Flower Seeds
Special attention paid to selected Stocks
A. J. PIETERS, President and Manager.
Mention the Florists' Exchange when writing.

Sow Now The True Thing!
Agapanthus, Blue Star, the best of all for pots 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Alyssum, Carpet Queen, fine extra dwarf strain, 0 Trade Pkts. \$1.25; Trade Pkt. 25c.
Begonia, Erfordia, for pots the best rosy pink, 0 Trade Pkts. \$1.25; Trade Pkt. 25c.
Begonia, Oracilla Luminosa, a fine Bedder, new with large bright scarlet flowers and ball-shaped habit, unexcelled for pots and outdoors, 0 Trade Pkts. \$2.50; Trade Pkt. 50c.
Cyclamen, Giant flow, separate colors, 1000 seeds, \$3.00; Trade Pkt. \$1.00.
Petunia, Romy Morn, a fine bedder, 0 Trade Pkts. \$1.25; Trade Pkt. 25c.
Petunia, Californian single Giants, extra strain, 0 Trade Pkts. \$4.00; Trade Pkt. 75c.
Petunia, double fringed Giants, 8 Trade Pkts. \$5.00; Trade Pkt. \$1.00.
Phlox, New Cecily, the very best large flowered, real dwarf, compact, Drum. Phlox for pots, mixed colors, 8 Trade Pkts. \$2.50; Trade Pkt. 50c.
Salvia, Ronfire, 0 Trade Pkts. \$1.25; Trade Pkt. 25c.
Salvia, Fireball, this is a new, real dwarf compact early flowering, fine variety and there is hardly a better one for pots, 8 Trade Pkts. \$2.50; Trade Pkt. 50c.
Verbena, Mammoth, unexcelled strains; as Anticula flowered, Scarlet, Striped, Pink, Purple, White, each separate, Oz. \$1.50; Trade Pkt. 25c.
For larger quantities special quotations.
O. V. ZANGEN, Seedsmen, Hoboken, N. J.
Mention the Florists' Exchange when writing.

Thorburn's Seeds
Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.
New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.
We handle only the highest grade seeds. Compare our prices before ordering elsewhere.
J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place, New York.

NEW FLOWER SEEDS
Trade Pkt Oz.
ALYSSUM, Carpet of Snow, extra 15c 50c
ANTIRRHINUM, Tom Thumb Mixed.....15c 75c
ANTIRRHINUM, Giant flower-Ing Mixed.....15c 50c
ASTER, Queen of the Market, Pure White, Rose Dark Blue.....20c 80c
ASTERS, Finest Mixed.....20c 50c
CANDYTUFF, Empress, Pure White.....10c 75c
CANDYTUFF, White Rocket.....10c 10c
CENTAUREA, Margaret, White for cutting.....15c 75c
Imperial, White.....20c 1.00
PHLOX, Drummond, Nana Compact Mixed.....35c 1.50
SALVIA, Fire ball, dwarfest 50c 50c
STOCKS, Large flowering dwarf dbl. 10 Weeks, Light Blue, Bright Rose, Pure White.....50c 3.00
STOCKS, Finest Mixed.....50c 2.50
VERBENA, Mammoth Choice Mixed.....25c 1.25
M. H. BRUNJES & SON, SEEDSMEN,
1581 Myrtle Ave., Brooklyn, N. Y.

S. M. ISBELL & CO. JACKSON, MICH.
Seed Growers for the Trade
BEANS, CUCUMBER, TOMATO, Radish, Peas, Muskmelon, Squash, Watermelon, Sweet Corn.
CORRESPONDENCE SOLICITED
Write for Prices on Surplus Stocks for Immediate Shipment.

W. & D.'s Specialties for Forcing
Mignonette "New York Market" Sweet Peas "True" Christmas Flower-Ing (Pink and White) Tomato "The Lion" Tomato "Spriling Castle" Mushroom Spawa "English" and "Pure Culture" Send for 1907 Catalogue.
WEEBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK
Mention the Florists' Exchange when writing.

ROSES ORDER NOW
2 1/2 in., 4 in. or dormant plants. Also young stock for transplanting. See our list, now ready.
ELIZABETH NURSERY CO., ELIZABETH, N. J.
Mention the Florists' Exchange when writing.
SHAMROCK... IRISH...
Strong and fine plants. Better order early. \$4.00 per 100; or 80c per doz., by mail.
XXX SEEDS
Verbena, Improved mammoth, the very finest grown, mixed, 1000 seeds, 25c.
Cineraria, Finest large flowering dwarf, mixed colors, 1000 seeds, 50c.
Phlox, Family Compacta. Very dwarf and compact; good for pots; in finest colors, mixed. Good per cent of New Cicily, 1000 seeds, 50c.
Chinese Primrose, Finest large-flowering fringed varieties, mixed; single and double, 500 seeds, \$1.00; half pkt. 50c.
Pansy, Finest Giants. The best large-flowering varieties, critically selected; mixed, 5000 seeds, \$1.00; half pkt. 50c. Mad. Perit kratie.
Petunia, New Stars; in finest colors, flowers, extra choice. Trade pkt. 50c.
Petunia, Giant single fringed very large and fine. Trade pkt. 75c.
Cyclamen Giganteum. Finest giants, mixed 200 seeds, \$1.00; 1/2 pkt. 50c.
Salvia "Ronfire." Finest variety group, brilliant scarlet and compact, 1000 seeds, 40c.
CASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses
Mention the Florists' Exchange when writing.
Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.
IMPORTS OF SEEDS, ETC.—January 12 and 13, 1907. E. Blair, 20 packages seed; J. McHutchinson & Company, 17 packages plants; T. Pollock & Company, 10 packages seed; C. C. Abel & Company, 5 cases live plants; D. Muller & Company, 190 bags clover seed; McKesson & Robbins, 13 bags seed; Lehn & Fink, 4 bags seed.
January 16, 1907.—Peter Henderson & Company, 2 cases seed, 1 cask seed; J. W. Hampton, Jr. & Company, 1 package seed; Maltus & Ware, 3 packages seed; Vandergrift & Company, 38 bushels seed.
EXPORTS OF SEED, ETC.—Shipped from New York, January 15.—To Berlin, 29 packages bulbs, valued at \$203; to Demerara, 15 bags seed, valued at \$106; to Southampton, 25 barrels bulbs, valued at \$133. January 16.—To Antwerp, 100 bags grass seed, valued at \$640; to Havre, 159 bags grass seed, valued at \$903; 11 packages seed, valued at \$523; to London, 11 packages seed, valued at \$206; to Laguayra, 18 packages seed, valued at \$168; to London, 219 barrels bulbs, valued at \$1,522, 29 bags seed, valued at \$605, 230 bags grass seed, valued at \$1,565.
January 17, 1907.—To Genoa, 18 barrels bulbs, valued at \$106; to Vera Cruz, 5 bags seed, valued at \$164.
HOLLISTER, CAL.—A. J. Pieters, of the Pieters Seed Company expected to leave for the East during December, but the unlooked for and continuous rains have made this impossible. If the weather moderates so that planting can proceed, he hopes to leave about the end of January, and will later advise his friends at what time he expects to call on them.
ASPARAGUS PLUMOSUS NANUS (Greenhouse Grown) FINE PLUMP SEED \$5.00 per 1000 ESTABLISHED 1824
Bridgeman's Seed Warehouse
Rickards Bros., Props.
37 EAST 19TH ST. Near Broadway NEW YORK CITY
Telephone: 4236 Gramercy
Mention the Florists' Exchange when writing.

CHOICE VEGETABLE SEEDS FOR FORCING

"STOKES' STANDARDS." Are Simply the Cream of the Lists. You can't get better value.



Cucumber, Perfection Hot-House Forcing. Repeated selections of Greenhouse-grown White Spine. Per oz. 50c., 1/4 lb. \$1.50, lb. \$5.00.
 Cauliflower, "Stokes' Standard." The very earliest in existence, close-growing, compact, perfect snow-white heads. Per pkt. 25c., 1/2 oz. \$2.50, oz. \$4.00, 1/4 lb. \$12.50.
 Lettuce, Stokes' Big Boston. A splendid strain of this very popular greenhouse lettuce. Per oz. 15c., 1/4 lb. 40c., lb. \$1.25.
 Lettuce, Stokes' Grand Rapids. A fine forcing strain, the true under-glass sort. Per oz. 15c., 1/4 lb. 40c., lb. \$1.10.
 Radish, Stokes' Scarlet Globe Forcing. The true 18 to 20 day sort, with small top and of a deep scarlet color. Per oz. 10c., 1/4 lb. 25c., lb. 75c.
 Radish, Stokes' White Marble. 16 to 18 day sort, snow-white, crisp and tender. Per oz. 10c., 1/4 lb. 25c., lb. 75c.
 Tomato, Sparks' Earliana. Stokes' special strain. This is not to be compared with the sort usually offered. Per oz. 40c., 1/4 lb. \$1.25, lb. 4.00.
 Rhubarb, for Forcing. Whole clumps that have been frozen and are just ready for business. Per doz. \$2.00, 100 \$12.00, 1000 \$100.00.
 Five-year-old Asparagus for Forcing. Very profitable. Same price as rhubarb.

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.
 Mention the Florists' Exchange when writing.

European Notes.

Winter has once more left us, and as the weather is not only mild but also dry we are able to take stock of our growing plants and are pleased to find that they remain practically ununhurt by the December frosts.

While the European trade in general may well be described as dull, the demand for named sweet peas of the better kinds increases every day. Holders of reliable stocks of Hon. Mrs. E. Kenyon, Gladys Unwin and King Edward VII are reaping a rich harvest just now. The bush section is practically ignored, and the Cupid class does not grow in popular favor. Should the present dry spell continue for a few days more we shall be able to open the stacks of sweet peas still unthrashed owing to the continuous rains during the late Autumn.

While trade is low, prices are lower, and it is to be hoped that the climax of folly in this direction has been reached in the catalogue issued by a firm near London, wherein all seeds are quoted at one halfpenny (one cent) per packet. The head of the concern is said to be a schoolmaster who is anxious to build up a business to occupy his time when he shall be considered unfit for further scholastic duties. The bulk prices in the same list should prevent the appropriation of the sprat of the proverbial mackerel.

The Simpson & Slade concern will apparently have to be wound up in the bankruptcy court. The store, which is well situated, will be occupied by A. & E. Moss, the survivors of the old Wrench business.

Mr. Prashkauer, founder of the company which bears his name, has just died on the way home from Mombassa, Central Africa, where he had been attending to the cultures for his company. His death, which is attributed to overwork in an unhealthy climate, will be a great loss to the concern which has the control of a very large business in South America. EUROPEAN SEEDS.

NOTES FROM HOLLAND.—Now that the old year is closing upon us we can not help looking backward for a moment. From the standpoint of bulb growers the season has been a very favorable one, notwithstanding the grave fact that prices realized on hyacinths, what may be said to be the main and standard crop of the district, have still been below the cost of production. However, the prospects are much brighter than what they were last year at this time, and considering that the end of the shipping season of this year found a shortage all round of hyacinths, and the dealers unable to fill all the orders in hand, it indicates that prices even under normal conditions will be higher the coming season. Should we, however, have to face an insufficient crop to meet the usual demand, there is no telling what prices may come to.

Crocus are no doubt in the same or perhaps even a more favorable condition, as stocks have been generally much reduced and although the already prevailing higher prices may interfere somewhat with the sales, this could not possibly make up for the short supply in the market.

In tulips the season has been a very unusual one for not only did the crop suffer from the effects of the cold weather and disease, but the local demand for all the best trade sorts, and the enormous demand from America, especially in red and scarlet tulips, caused the prices on some sorts to go up very sharply. In consequence the export trade to England suffered because late orders could not be filled, but the advantage was that it enabled dealers in England who had a supply on hand to sell them at good prices, and even to sell all they had in the way of tulips. No doubt such a state of affairs must also have a favorable effect on the producer on this side, and, taking it all round, there is every prospect of a satisfactory season in the approaching year.

We are now under twelve inches of

snow, and no frost could do any harm to any of our bulb crops under such a cover. Notwithstanding that it has put a stop to all outside work, the growers are all ready to welcome a fortnight of sharp frost, be it only to put a stop to and kill some of the overabundant supply of vermin that has increased wonderfully during the last two summer-like Winters, and has been trying to live on bulbs whenever nothing else more suitable to their taste could be found. If therefore the new year's day should find us in as good and beautiful white covering as Christmas did, it will no doubt delight the hearts of all who are interested in bulb growing.—Horticultural Trade Journal.

CATALOGUES RECEIVED.

J. J. BELL, Deposit, N. Y.—Illustrated Catalogue of Seeds, Bulbs, etc.
 W. D. BURT, Dalton, N. Y.—Price List of Garden and Flower Seeds
 W. K. NELSON, Augusta, Ga.—Price List of Field-grown Roses.
 JAMES J. CURRAN, Salem, Va.—List of Cut Flowers handled by the firm.

JOHANNES RAFFN, Copenhagen, Denmark.—Price List of Conifers, Trees and Shrubs.

T. R. WATSON, Plymouth, Mass.—Trade List of Trees, Shrubs, Hardy Perennials, Evergreens, Fruit Trees, etc.

MISS C. H. LIPPINCOTT, Minneapolis, Minn.—Illustrated Catalogue of Flower Seeds.

JOHN F. SNEED, Tyler, Tex.—List of surplus Apples, Peaches, Plums, etc.; also Price List of Augbert Peach, and Yellow Swan Peach.

COLE, Pella, Ia.—Garden Annual for 1907; an illustrated Catalogue of Garden, Farm and Flower Seeds, with a list of Novelties and Specialties.

WESTERN ELECTRIC COMPANY, Hawthorne, Ill.—Catalogue of Power apparatus; Illustrated.

J. H. A. HUTCHISON, Oxford, Pa.—Price List of Rooted Carnation Cuttings, including the Novelties.

BURNETT BROTHERS, New York.—Catalogue of Vegetable, Flower, and Farm Seeds, Bulbs, Fruit Trees, Supplies, etc., with an interesting list of Novelties and Specialties.

FORD SEED COMPANY, Ravenna, O.—Catalogue of Vegetable, Field and Flower Seeds, Small Fruits, Supplies, etc. Illustrated. The firm says "Quality is never sacrificed in order to make low prices."

A. N. PIERSON, Cromwell, Conn.—Wholesale List of Roses, Carnations, Chrysanthemums, Palms, Ferns, Plants for Easter and Miscellaneous Stock. The best of the new things are included. Illustrated.

F. T. BUXTON, Nashua, N. H.—Illustrated Circular concerning the Economy Greenhouse Bracket—a very useful device.

DINGEE & CONARD COMPANY, West Grove, Pa.—New Guide to Rose Culture; a very comprehensive Catalogue of Roses, also of Plants, Shrubs, Hardy Perennials, etc. Profusely illustrated. For cover designs, in color, the beautiful Rose Killarney and the new "pink Baby Rambler," Anny Muller, have been selected. Several colored plates of collections of Roses are included in the catalogue, which contains much valuable information on the subject of Roses generally.

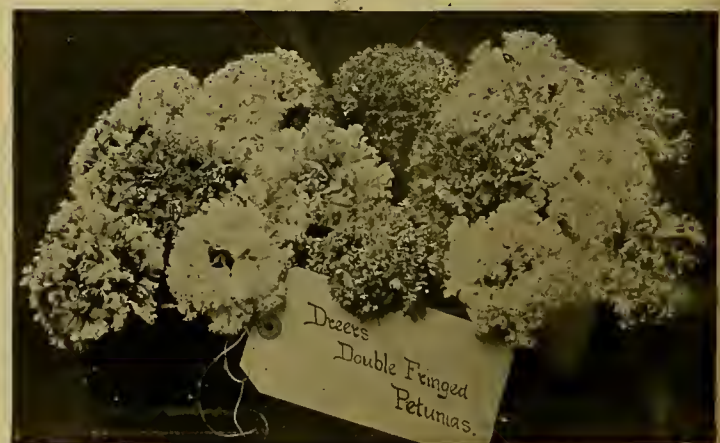
JOSEPH BRECK & SONS, Boston, Mass.—Catalogue of Field, Flower and Vegetable Seeds, Supplies, Implements, etc., with a list of well-selected Novelties and Specialties. This firm has been in business since 1822 and on its "Roll of Honor" are names of customers whose patronage has been retained from 40 to 72 years.

TEXAS SEED AND FLORAL COMPANY, Dallas, Tex.—Catalogue of Seeds, Plants, and Poultry Supplies for the South. Illustrated. The new four-story building, recently erected by this firm, has greatly improved its facilities for handling an ever-increasing business. Our Southern readers should secure a copy of this interesting catalogue.

S. M. ISBELL & COMPANY, Jackson, Mich.—Illustrated Catalogue of Farm, Garden, and Flower Seeds, with a list of Novelties and Specialties, including new Tomato Isbell's Alpha, pinky, a very early variety. The firm says: "The growing season of 1906 will go down in the history of our business as one of great improvement in the quality of our stocks."

VAUGHAN'S SEED STORE, Chicago and New York.—Illustrated Catalogue of Seeds, Bulbs, Plants, Hardy Perennials, Ornamental and Flowering Shrubs, Fruit and Shade Trees, etc. This is the thirtieth annual catalogue issued by this well-known house. Owing to the present strike the usual unique and attractive lithograph covers are missing this year; and plate covers take their place. There is an interesting list of Novelties and Specialties; among those in vegetables may be mentioned new Bohemian radish, Hoodoo melon, Ailsa Craig onion, Vaughan's Magnum Dulce pepper, Upright Sweet Salad pepper, Witham wonder, new early dwarf pea, and new pea Prince Edward. In flowers, Cosmos Woodside Early-flowering, Burbank's Dahlias, and all the newest in sweet peas, also the new annual Hollyhocks. Regarding the seed crops of 1906 it is stated: "Onion seed is probably of average lower germination and less in quantity than for many years. Beans are a good crop; peas, fair; sweet corn, abundant; muskmelon and best foreign-grown radish are scarce; other seeds about normal." The offerings in every department are, as usual, very complete.

DREER'S SUPERB DOUBLE PETUNIAS



For nearly half a century we have been making a specialty of DOUBLE PETUNIAS and our strain is accepted as second to none, either here or in Europe. We annually plant many thousand seedlings from which only the finest double fringed forms are selected for propagating purposes, thus improving the strain every season, and this year's collection is the original and most pleasing one we have yet set out. We offer fifteen distinct varieties. 3 inch pnts. 75cts. per doz.; \$6.00 per 100; the set of 15 for \$1.00 2 1/2 inch pnts. 60cts. 4.00

Seed of Our Superb Strain of Fringed Petunias. Double, 75cts. per 500 seeds; \$1.50 per 1000 seeds. Single, 50cts. per trade packet. Our Quarterly Wholesale List offers a full line of seasonable Plants, Seeds and Bulbs.

HENRY A. DREER, - Philadelphia, Pa.

Mention the Florists' Exchange when writing.

Begonias

Fine, large, plump bulbs just received from Belgium.

	Single		Double		
	Doz.	100	Doz.	100	
Orange	40c.	\$2.75	\$23.50	65c.	\$5.00
Scarlet	40c.	2.75	23.50	65c.	5.00
Pink	40c.	2.75	23.50	65c.	5.00
White	40c.	2.75	23.50	65c.	5.00
Yellow	40c.	2.75	23.50	65c.	5.00
Mixed	35c.	2.50	22.00	50c.	4.00

Gloxinias

These should be planted now to have fine, large plants for Easter sales.

	Doz.	100	1,000
Red and Scarlet	60c.	\$4.00	\$35.00
Blue	60c.	4.00	35.00
Bordered Scarlet	60c.	4.00	35.00
Bordered Blue	60c.	4.00	35.00
Spotted	60c.	4.00	35.00
White	60c.	4.00	35.00
Choicest Mixed	50c.	4.00	35.00

HENRY F. MICHELL CO. 1018 Market St., Phila.

Mention the Florists' Exchange when writing.

Two Unique "New Creations" in Bush Limas!

FORDHOOK AND THE BURPEE-IMPROVED,— Both of which are entirely "New Creations!"

Nature with her millions of crosses, occasionally surpasses any efforts of the most successful hybridizers. These wonderful Novelties, now exclusively introduced by us, have been bred from two plants (one of each type) discovered in a crop of Challenger Pole Limas, in 1903, by our friend Henry Fish, of Santa Barbara County, California.

BURPEE'S BUSH LIMA, originating in Chester County, Pa., blazed the way for the wonderful popularity of the Bush Lima to-day. Since then improved selections have been developed,—notably *Burpee's Quarter-Century Strain*,—but little did we think that Nature would so completely eclipse all the efforts of man, and directly from the *parent pole Lima* produce in distant California two new types that would surpass not only all other Bush Limas, but—in size of beans—all existing pole Limas!

These Two Bush Limas are sold only in sealed packets. Each packet contains twelve perfect hand picked beans. **Per pkt. 25 cts.** With our discount of one-third these two Bush Limas will be mailed to Market Gardeners and Florists at the net rate of any **3 pkts. for 50 cts.; 6 pkts for \$1.00, or \$2.00 per doz. pkts.** assorted as desired.



Three Pods, exactly natural size reproduced from a Photograph of the Unique **FORDHOOK BUSH LIMA** now first introduced

The New Burpee-Improved Bush Lima

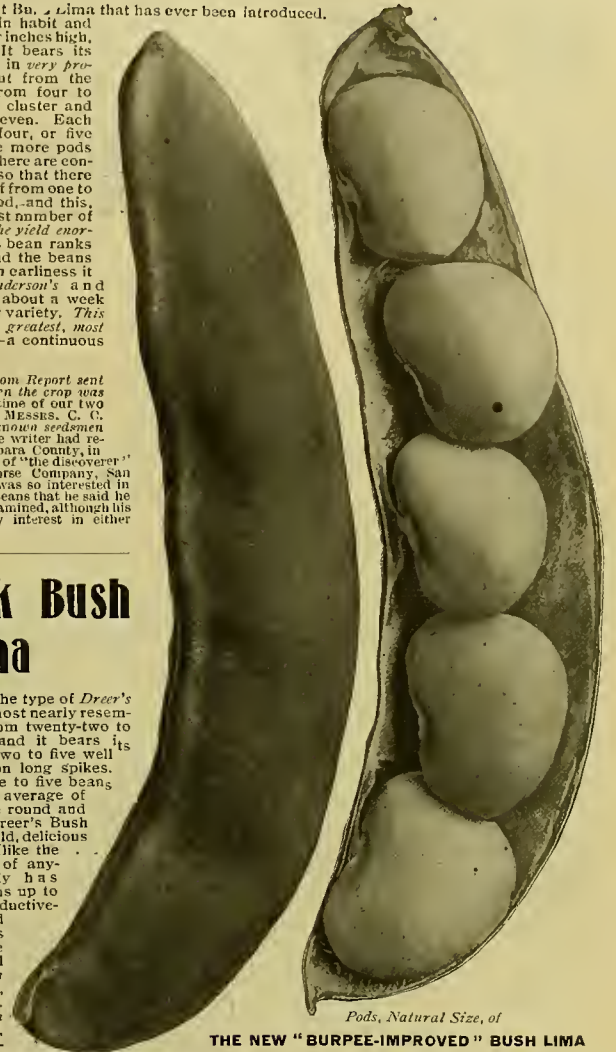
"This is the finest Bush Lima that has ever been introduced.

The bush is sturdy in habit and twenty to twenty-four inches high, with large leaves. It bears its beans on long spikes in very prolific clusters, well out from the plant. There are from four to seven pods in each cluster and often as many as eleven. Each pod contains three, four, or five beans, and there are more pods containing five than there are containing three beans; so that there is an improvement of from one to two beans in each pod, and this, taken with the greatest number of pods borne, makes the yield enormous. In quality this bean ranks with the very best and the beans are of large size. In earliness it comes between *Henderson's* and *Burpee's Bush*, and is about a week earlier than the latter variety. This bean is bound to be the greatest, most popular Bush Lima,—a continuous bearer."

Quoted verbatim from Report sent us August 29, 1906, when the crop was inspected (between the time of our two visits) by our friends, Messrs. C. C. MORSE & Co., the well-known seedsmen of California. After the writer had returned from Santa Barbara County, in July last, he met the son of "the discoverer" in the office of The Morse Company, San Francisco. Mr. Morse was so interested in the story of these New Beans that he would have the crops examined, although his firm had no pecuniary interest in either variety.

Fordhook Bush Lima

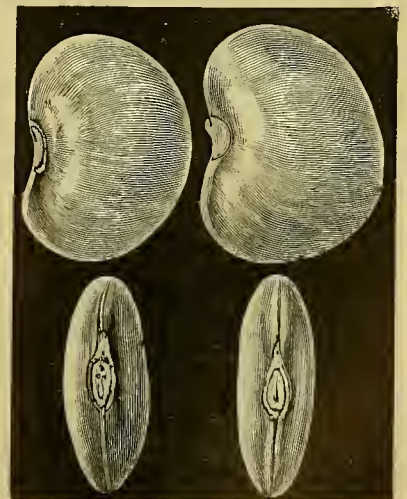
"This bean is of the type of *Dreer's Bush Lima*, which it most nearly resembles. Its height is from twenty-two to twenty-four inches, and it bears its beans in clusters of two to five well out from the plant on long spikes. There are from three to five beans in each pod with an average of four. The beans are round and thick like those of *Dreer's Bush* and have the same mild, delicious flavor. This bean (like the above) is far ahead of anything which anybody has known in Lima beans up to the present. Its productiveness is far ahead of *Dreer's Bush*,—is earlier by four or five days and is better all around."—Quoted from letter dated August 29, 1906, of Messrs. C. C. MORSE & Co., San Francisco, California, after their representative had inspected the crop,—see note above. For our own description see page 12 of BURPEE'S FARM ANNUAL.



Pods, Natural Size, of THE NEW "BURPEE-IMPROVED" BUSH LIMA

One Thousand Dollars in Cash Prizes

Never before in the history of the Seed trade have there been presented two such unique REMARKABLE NEW VEGETABLES! We are determined, therefore, to have their merits established in this first year of their introduction. With one prize of \$150.00, —several of \$50.00 each, and other liberal cash prizes,—we will pay, on these two new Limas, this season, more than



One Thousand Dollars—see page 199 of BURPEE'S FARM ANNUAL for 1907

"The Leading American Seed Catalog"

The "Silent Salesman" of the world's largest mail-order seed trade. An Elegant New Book of 200 pages with hundreds of illustrations from photographs, it tells only the plain truth about the very best SEEDS THAT GROW. It describes Grand Novelties in Flowers and Vegetables, of unusual importance, which cannot be obtained elsewhere. If interested, write 10-day, name *The Florists' Exchange*,—and the book is yours.

BURPEE'S NEW BLUE LIST

Most complete of all wholesale catalogs of Seeds, gives special prices to Florists and Market Gardeners. If you have not received a copy, write to-day

With our usual discount of 33 1/3 per cent. on Retail Packets, Florists and Market Gardeners (who order early!) can obtain THESE TWO NEW BUSH LIMAS any **3 pkts. for 50c.; 6 pkts. for \$1.00 or 12 pkts. for \$2.00**, (assorted as desired), and sent by mail postpaid.

W. ATLEE BURPEE & CO.

SEED GROWERS

Burpee Building

PHILADELPHIA, PA., U. S. A.

Mention the Florists' Exchange when writing.

47,960 Low-Budded Roses in 26 varieties being the entire surplus of the Heikes-Biloxi stock. Delivery February—from my cellars here. No. 1 @ \$95.00 per 1000. No. 1 1/2 @ \$65.00 per 1000. Privet cuttings \$1.25 per 100—10.00 for \$10.00. Correspondence promptly answered.

HIRAM T. JONES, Nurseries Elizabeth, N. J.
Mention the Florists' Exchange when writing.

Specimen Nursery Stock

DECIDUOUS TREES and SHRUBS, EVERGREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties. Send for price list.

COTTAGE GARDENS COMPANY
QUEENS LONG ISLAND, N. Y.
Mention the Florists' Exchange when writing.

Special HEDGE PLANTS Best Varieties

CALIFORNIA PRIVET DEUTZIA PRIDE OF ROCHESTER NORWAY SPRUCE
BARBERRY THUNDERBOLT TARTARIAN HONEYSUCKLE AMERICAN ARBOR VITÆ

Full assortment of Ornamentals, Fruit, Roses, Clematis, Vines, Peonies and Herbaceous Plants.

Write for our fall wholesale trade list.

W. & T. SMITH CO., GENEVA, N. Y.
Mention the Florists' Exchange when writing.

ROSES

Mention the Florists' Exchange when writing.

CRIMSON RAMBLER, DOROTHY PERKINS, and other leading climbers. **RUBY RAMBLER**, Hybrid Wichuriana Hybrid Sweet Briar, Hybrid Rogers and Hybrid Perpetual. Large assortment of varieties, fine stock and reasonable prices. Send for catalog or trade list.

BAY STATE NURSERIES, North Abington, Mass.

F. & F. NURSERIES SPRINGFIELD NEW JERSEY

Wholesale Growers **TREES AND PLANTS** in full assortment. Trade Catalogue Free

Mention the Florists' Exchange when writing.

MANETTI STOCKS Especially for Florists' use. Best French Grown.

First Size, 5 to 10 m-m., per 1000.....\$9.00; per 10,000.....\$30.00

Newark prices. **DUTY PAID.** For prompt delivery, order now and avoid disappointment.

ROSES, two years, field-grown, well-rooted

DOROTHY PERKINS..... per 100, \$8.00
CRIMSON RAMBLER..... per 100, 10.00
HYBRID PERPETUALS, in good assortment, per 100, \$10.00 to \$12.00.

Send for our Wholesale Price List of Roses, Clematis, Flowering Shrubs, Conifers, Etc.

JACKSON & PERKINS CO., NEWARK, NEW YORK.
(Wayne County.)

Mention The Florists' Exchange when writing.

P. OUWERKERK
216 Jane Street
WEHAWKEN HEIGHTS, N. J.
P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES

EBBINGE & VAN GROOS
Formerly THE HORTICULTURAL CO
BOSKOOP, HOLLAND

Hardy Nursery Stock, such as H. P. Roses, Rhododendrons, Azaleas, Clematis, Buxus, Choice Evergreens, Peonies, etc.

Ask for Catalogue.

Mention the Florists' Exchange when writing.

Rhododendrons, Azaleas, Spiræa japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

PRICES MODERATE
Mention the Florists' Exchange when writing.

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

Trees and Shrubs

We make specially low prices on nursery stock to Parks, Cemeteries, etc.

Wholesale price list on application.

We carry immense quantities of the finest named varieties of peonies.

Roses! Cannas! Violets!

Roses. We have in stock upward of 1000 different varieties, consisting of the very latest European varieties, as well as all the leading varieties of American origin. Stock from 2 1/2 and 4 and 5 in. pots, all on own roots. Ask for catalogue.

PETERSON NURSERY
606 W. PETERSON AVE. CHICAGO, ILL.
Mention the Florists' Exchange when writing.

Cannas. 40 leading varieties. \$1.00 per 1000 and upward. Write for list and prices. Louisiana Cannas \$8.00 per 100.

Violets. Lady Home Campbell, Princess of Wales, Swanley White, Admiral Avellan and Linton, nice strong plants, from 2 1/2 in. pots, \$3.50 per 100; \$30.00 per 1000.

Clematis Paniculata. Two-year-old field-grown stock, strong plants, per 100 \$7.00, per 1000, \$65.00.

Cissus Discolor nice plants, from 2 1/2 inch pots, per 100, \$4.00.

Cyperus Gracilis, from 2 1/2 in. pots, per 100, \$3.50.

Weeping Lantana, from 2 1/2 inch pots, per 100, \$3.50.

Viburnum Plicatum and a complete list of hardy shrubs, vines and miscellaneous plants of all kinds. Send us your list for prices. Ask for Catalogue—it's free. Address

KOSTER & CO.
Hollandia Nurseries **BOSKOOP, HOLLAND**

Hardy Azaleas, Box Trees, Clematis Conifers Hydrangeas, Peonies

Pot-Grown Plants for Forcing.

RHODODENDRONS, H. P. ROSES, Etc.

Catalogue free on demand.

Mention the Florists' Exchange when writing.

THE DINGEE & CONARD CO.,
Rose Growers, WEST GROVE, PA.
Established 1850. 70 Greenhouses.

Mention the Florists' Exchange when writing.

SEND TO
THE MOON COMPANY
For TREES, SHRUBS, VINES Your and SMALL FRUITS
Descriptive Illustrated Catalogue Free
THE WM. H. MOON CO.
Morrisville, Pa.

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HOW TO GROW MUSHROOMS
Price, . . . in cents.

A. T. De La Mare Ptg. & Pub. Co.
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LARGE TREES
OAKS AND MAPLES
PINES AND HEMLOCKS
ANDORRA NURSERIES
WM. WARREN HARPER, PROPRIETOR
Chestnut Hill, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

75,000 Gladiolus Bulbs

to 1 1/2 inches \$2.00 per 1000; Larger sizes at proportionate prices; all very fine light mixed Lemones and Gandavensis. Cash with order.

I. & J. L. Leonard, Iona, N. J.
Mention The Florists' Exchange when writing.

SPRENGERI SEED

1906 CROP

10c. per 100; 60c. per 1000; \$2.75 per 5000; \$5.25 per 10,000. Cash with order please.

F. J. BAKER & CO., UTICA, N. Y.

GERANIUMS in good varieties 24 in. pots, ready March 1 1907.

WM. J. CHINNICK, Trenton, N. J.
Mention the Florists' Exchange when writing.

EXTRA CHOICE FLOWER SEEDS

List free on application.

FRED. ROEMER, Seed Grower, QUEDLINBURG GERMANY.
Mention the Florists' Exchange when writing.

GERANIUMS S. A. Nutt, crimson Double Grand, scarlet, Mm. Buchner, white, 2 1/2 in. strong, ready for 4 in., \$3.00; rooted cuttings \$1.00 per 100. Vines variegated, strong field cuttings, \$1.00; 2 1/2 in., \$2.50; rooted cuttings 9/2c. per 100. Cineraria, Hydrida Grandiflora, 4 in. & 6c. Chrysanthemum stock plants from pots: Glory of the Pacific, Polly Koe, Robinson Harry Bolyay, Helen Bloodgood, Gold Mine, in variety, 4c each.

M. M. LATHROP, CORTLAND, N. Y.
Mention The Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit

GERANIUMS

25,000 bushy, 3 in., \$4.00 per 100; \$35.00 per 1000; ready February. Standard varieties. 20,000 transplanted Evergreens, trees, etc. Come and see stock and get a bargain for cash. 15,000 standard, 5 in. pots, \$1.00 per 100; \$8.00 per 1000. Extra fine leaf mould 75c. per bag; \$14 per ton.

WM. S. HERZOG, MORRIS PLAINS, N. J.
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Lambert's Pure Culture Mushroom Spawn.
Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized.

Has never failed to run. Sold by Leading Seedsmen.

Practical instructions on "Mushroom Culture" mailed free on application.

American Spawn Co. St. Paul, Minn.

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GERANIUMS

All rooted cuttings booked for January. Cash with order.

PETER BROWN, Lancaster, Pa.

TREE SEEDS

Send to-day for our Trade Price List and our Illustrated, Descriptive Catalog

Otto Katzenstein & Co., Atlanta, Ga

Mention the Florists' Exchange when writing.

GERANIUMS Rooted, then grown in pots a month. Sent free of Soil.

DBL. Grant, Buchner, Polterine, Ricard, Perkins, Vland, Nutt and Doyle, assorted, \$16.00 per 1000. Rooted Cuttings of Nutt and Grant, \$12.00 per 1000.

COLEUS Yersht, G. Bedder, and brightest Grand Rapids, France, strong, 60c. per 100. Giant, many kinds, finest grown, 80c. per 100.

GLADIOLI Groff's, blooming size, 50c. per 100. Write Geranium wants before order is sent.

DANIEL K. HERR, Lancaster, Pa.

100,000 Phoenix Roebelenii Seed

This elegant graceful and easy growing palm is one of the most useful for all kinds of decorative work both in small and large plants. Price, \$7.00 per 1000.

YOKOHAMA NURSERY CO., 31 Barclay St., New York

FREE STOCKS FOR EASTER FREE

Large flowering Ten week Stock, dwarf bouquet, \$3.00 per cent. double, the finest strain for forcing and pot plants, sells at sight. "F" snowflake, white; Imperial, blue; Triumph, scarlet; strong plants from 2 1/4 in. pots, \$3.50 per 100; \$31.00 per 1000. "F." Each color separate or mixed. Trade packages of seeds from the above strain 3 colors, goes free with every order for 100 plants.

SHELLROAD GREENHOUSES, Grange, Baltimore, M. D.

ASTER EARLY Branching Separate Colors

Invincible, the finest aster, and freer of disease than any so far, per oz., \$2.50. Queen of the Market, in separate colors, per oz., \$1.00. This aster seed comes from M. A. Graverau, who has no disease in his crops. All other seeds at market prices. Sample free on application.

VERBENA Giant Striped, trade pkt. 25c.; dwarf, mixed, extra oz., \$1.25. Zinnias, tall and pure and reliable. 70-day thousands of farmers and gardeners rely upon Gregory's Seeds—know for a certainty they are sure growers. Our free catalogue is now ready. It contains lots of information of value to farmers and gardeners.

J. J. H. GREGORY & SON MARBLEHEAD, MASS.

VEGETABLE PLANTS

CABBAGE New Early and Succession \$1.25 per 1000.

LETTUCE Grand Rapids, Big Boston, Boston Market and Tennis Ball, \$1.00 per 1000.

PARSLEY Moss Curled, \$1.25 per 1000.

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

BEAULIEU, Woodhaven, N. Y.

GERANIUMS

Ricard, Doyle, Buchner, Nutt, Poitevine, Brett.

Perkins, Pasteur, Montmort, 2 in. pots, \$2.00 per 100; \$20.00 per 1000.

Cannas. Pleasing varieties, \$1.50 per 100.

GREGORY'S SEEDS

For over fifty years we have been selling only tested seeds—seeds that we guarantee to be fresh, pure and reliable. To-day thousands of farmers and gardeners rely upon Gregory's Seeds—know for a certainty they are sure growers. Our free catalogue is now ready. It contains lots of information of value to farmers and gardeners.

J. J. H. GREGORY & SON MARBLEHEAD, MASS.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

Fuchsias, best varieties.....	100	1000
Double Petunias.....	\$1.50	\$10.00
Heliotropes.....	1.00	
Ageratum, Gurney & Pauline.....	.60	5.00
Lobelia Compacta, blue.....	.60	5.00
Coleus, Golden Bedder.....	.60	5.00

Cash with order.

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

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
 Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

Horticultural Notes.

Broussonetia papyrifera, the paper mulberry, is again being used for a shade tree. The fertile form which is now appearing in collections, bears dark red fruit of much beauty. It is claimed for this one that it does not sucker as much as the other does. The tree is valuable in Japan because of the great quantities of paper made from its inner bark.

Our tulip tree, *Liriodendron tulipifera*, is often praised by those European gardeners who are familiar with it, as well they may. It is a beautiful tree, free from all diseases and from attacks of insects. It needs planting young and to be well pruned to have it do well. It grows readily from seeds.

A Staunton (Va.) writer names the *Celtis occidentalis* as a good street tree. It would never be so thought of here, there are so many better ones. With us it is much subject to the objection that it forms numerous "crow's nests," which disfigure the tree greatly.

A greenhouse climber which is an excellent one for using outside in Summer is the *Stigmaphyllon ciliatum*. It is from Brazil, and has beautiful yellow flowers.

Prinos verticillatus, the deciduous holly, is not always dioecious. Some plants have perfect flowers, as many isolated plants of it bear evidence. The berries are often used in holly wreaths when holly berries are scarce.

Rubus phanicolasius is a good plant with which to form a clump. Set where it can propagate itself it soon spreads, forming a pretty object. Its stems clothed with red hairs, leaves of silvery whiteness on the underside and pretty red fruit, all commend it. Even as a fruiting raspberry it is a favorite with some.

Whitewash in which a little sulphur has been intermixed is good to apply to the trunks of trees, first scraping off the loose bark that may be attached to the wood. If white is objectionable, soot or some other material can be added to produce a color desired.

Fully half the number of nursery catalogues spell the Oldmixon peach Old Mixen. The peach was named in honor of a gentleman of the name of Oldmixon. Such a valuable peach, old though it is, is entitled to the right spelling of its name.

English bird cherry, *Cerasus padus*, has been favorably mentioned as a street tree. It certainly makes a satisfactory tree, becoming of good size in time, having foliage free from insect attacks and making a shapely subject. Birds are fond of its fruit, which ripens early.

Picea Pungens.

The silvery blue color of *Picea pungens glauca* has caused this evergreen to be so much esteemed for planting that many have no knowledge of the desirability of the ordinary green form, *P. pungens*, yet it is one of the most desirable of evergreens and is often of a better habit than the glauca. The reason is that glauca, or the Colorado blue spruce, as it is called, is largely propagated by grafting, and evergreens so increased do not always form the same outline as those raised from seeds. The common green form of *P. pungens* as found in nurseries are all seedlings hence the natural growth of them all. When seedlings of *Picea pungens* are procured there will be all shades of color found from green to the best silver types, and efforts should be made by nurserymen to have all represented in their collections. The common green one, *pungens*, wherever seen on our lawns, is a tree of pleasing outline, more symmetrical in growth than the greater number of the blue ones.

As stated, so much has been said of the blue that to many the existence of the green one is not known, hence these few notes to call attention to its worth.

The beauty and hardness of this spruce have created a great demand for it in Europe as well as at home, seeds and seedlings finding their way there in large quantities.

Seeds or Seedlings for Forestry Purposes.

Because of the interest in forestry subjects apparent everywhere at this time, the question whether to obtain seeds or seedlings is often put to nurserymen by prospective buyers. Considering the care and experience necessary to the successful raising of seedlings the experimenting with seeds is not likely to be as satisfactory to the average buyer as would be the obtaining of seedlings. Even experienced nurserymen are not always successful with seeds, so much depends on the season for success and the weather is beyond one's control. If experienced men fail with seeds, what can these inexperienced expect? There is no better way than to prepare ground well and then set out seedlings where they are wanted. With seedlings of proper size, say of about a foot in height, there should be no failures, and it is safe to recommend seedlings

in place of seeds in nearly all cases. An amateur had much better procure seedlings than endeavor to raise them himself.

Some cases of broadcast sowing of seeds have been fairly successful at times. In white pine sowings seeds have been sown in that manner on the top of late snows. The snow as it melted carried the seeds with it far enough into the soft ground that they germinated very well. In meadows of thin grass pine seeds are sometimes sown in this way. They grow, and the grass shades the seedlings through the first Summer, much to their advantage. The great call on nurserymen for forest tree seedlings is likely to continue, as a widespread interest in the subject of forest tree planting is evidenced on all sides, and stocks of seeds and seedlings must be kept up.

Rich Ground for Quinces.

Where space is limited dwarf pear trees are planted instead of standards the dwarfs being those worked on the quince stock. Many pears succeed well on the quince; other sorts, such as Seckel and Bartlett, do not do as well as some, but can be had of good promise when they have been double-worked on the quince. In double-working, sorts are selected known to thrive well on the quince, and these are budded on it in the usual way. The next season, when the shoots from the buds have nearly completed their growth, buds of the feeble kinds, or of those that do not grow well when directly con-

plis. The chinquapin is always in demand because of the oddity of its dwarfness and its small black chestnuts. In the dwarf Japanese chestnut there are the same merits, with the difference of having chestnuts instead of chinquapin nuts; and these chestnuts are as large as good-sized fruit of ordinary American chestnuts.

There is no reason why chestnut seed imported from Japan would not grow if properly packed. Dried earth is a good material to use, the nuts well mixed with it and then nailed up practically airtight. In this way the nuts of all such trees will keep in good condition for months.

Cephalotaxus Pedunculata.

The several species of *cephalotaxus* hardy here are greatly valued. Evergreens of all kinds are; and the *cephalotaxus*, looking so much like the yew, is greatly prized by all who have it or know of it. There is a general resemblance to the yew in all the species; the name, in fact, denotes this. The one illustrated, *Cephalotaxus pedunculata*, is one of the best we know of. It is a Fairmount Park, Philadelphia specimen, one of which the former superintendent of the hall, the late Charles H. Miller, was very proud.

As a glance at the picture will show, there is a great deal of the appearance of the yew in this specimen. The appearance of the foliage and the style of growth are those of the English yew. But yet,



Cephalotaxus Pedunculata

nected with the quince, are inserted in the young growth of the pear wood, and in this way succeed well.

It is not always because the stock is unsuitable that dwarf pears do not thrive. Often the cause is unsuitable soil. The quince must have rich ground, rich and moist. Thriving trees follow the application of liquid manure, their foliage quickly showing appreciation of the food provided.

But few stocks of the quince are raised here, the importation of them proving satisfactory. Those who do propagate them find layering a good plan. Soil is heaped around the bushes, that the shoots may root into it. Quince shoots are so stiff and unyielding that it is not possible to bend them to the ground as is done in other ordinary layering. Among the several varieties of quince the one known as Orange has been long a favorite, and no one would regret planting it.

Dwarf Japanese Chestnuts.

Japanese chestnut trees, as usually found in nursery collections, are really trees although of but a small growth. There is, however, a variety found in some collections that is but a small shrub, of much the same style of growth as our chinquapin chestnut, the *Castanea pumila*, and like it bearing fruit when but two to three feet high. This dwarf variety, or whatever it may be, is so wholly unlike the other and is so desirable and such a novelty, that those interested should look to importing it from Japan when sending to that country for sup-

as its free-growing branches indicate, it makes longer shoots in a given time than the yew does. This specimen is growing alongside a path which leads to Horticultural Hall, and from its beauty and variety attracts a good deal of attention at all times, even when snow is on the ground. In this respect, conifers, to which class this *cephalotaxus* belongs, are all fully as interesting in Winter as in Summer, though of all seasons late Autumn seems to us to be the best. Deciduous trees have then shed their leaves, making more pronounced the beauties of evergreens, and wintry weather has not arrived to hinder the leisurely inspection of one's treasures.

In the laying out of grounds a nice assortment of evergreens should always be interspersed with deciduous trees and shrubs, if for no other reason than the one that we give—the enjoyment they afford in late Autumn and through the Winter. Our *cephalotaxus* is always interesting; there is no season when it is passed by unnoticed. Just as in the case of yews, there is at all times a deep, rich green color to the foliage.

The *cephalotaxus* have been classed as yews by some botanists and as *pedocarpus* by others, but *cephalotaxus* is the recognized name for them.

So far as relates to the hardness of the fine species we illustrate, the specimen speaks for itself. It is one of the many trees and shrubs coming into the possession of Fairmount Park after the ending of the Centennial Exposition, and has, doubtless, seen thirty years of life in its present position; and we do not think it has ever suffered from the cold of Winter.

JOSEPH MEEHAN.

Daybreak Lawson or Melody.

Superior to Enchantress in many respects
\$6.00 per 100. \$50.00 per 1000. Ready Now.
A. T. Pyler, Mgr. Chicago Carnation Co., Joliet, Ill.

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS READY NOW

Strong, Healthy and Thoroughly Rooted Cuttings of the following varieties:

Victory (scarlet).....	100 \$6.00	1000 \$50.00	Lieut Peary (white).....	100 \$3.50	1000 \$30.00
Robt. Craig ".....	6.00	50.00	Lady Bountiful ".....	3.00	25.00
Red Sport ".....	3.50	30.00	White Lawson ".....	3.00	25.00
Enchantress (pink).....	2.50	20.00	Boston Market ".....	2.00	15.00
Lawson ".....	2.00	15.00	Queen ".....	2.00	15.00
Mrs. M. A. Patten var. ".....	2.50	20.00	Queen Louise ".....	2.00	12.50

Remember we guarantee satisfaction.

250 of any one variety at 1000 rate. Write for discount on large orders.

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

CARNATIONS ROOTED CUTTINGS

We have about 30,000 R. C. we are offering for January delivery. This is not cheap stock but it is guaranteed and if not satisfactory may be returned and money will be refunded.

Prices per 1000, 100 at the same rate.

Enchantress, light pink.....	\$20.00	Harlowarden, crimson.....	\$15.00
Lawson, dark pink.....	15.00	Bountiful, large white.....	25.00
Cardinal, scarlet.....	25.00	B. Market, ordinary white.....	15.00

These varieties we have selected as the "cream of the list" for the commercial grower. Cash with order.

SMITH & GANNETT

GENEVA N. Y.

CARNATION CUTTINGS

Ready for Immediate or Later Delivery

VICTORY, \$6.00 per 100; \$50.00 per 1000
LADY BOUNTIFUL, \$3.00 per 100; \$25.00 per 1000
WHITE LAWSON, \$3.00 per 100; \$25.00 per 1000
VARIEGATED LAWSON, \$4.00 per 100; \$30.00 per 1000
PINK PATTEN, \$5.00 per 100; \$40.00 per 1000
ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000
PINK LAWSON, \$1.50 per 100; \$12.50 per 1000
BOSTON MARKET, \$1.50 per 100; \$12.50 per 1000

We can also give you immediate delivery on the two grand novelties, "Winsor" and "Aristocrat." We have watched the above named novelties for several seasons, and can conscientiously recommend them to all carnation growers, and you cannot afford to miss them. Send for complete list and special prices on large quantities.

JENSEN & DEKEMA, Carnation Specialists, 674 West Foster Ave., CHICAGO, ILL.

CARNATIONS

WELL ROOTED CUTTINGS, HEALTHY STOCK

PINK		WHITE	
Lawson.....	Per 100 Per 1000	Boston Market.....	Per 100 Per 1000
Nelson.....	\$1.50 \$10.00	Lady Bountiful.....	\$1.25 \$10.00
Nelson Fisher (cerise).....	1.50 10.00	White Lawson.....	2.00 17.50
Enchantress.....	2.00 17.50	RED	
Mrs. Patten.....	2.00 17.50	Robert Craig.....	6.00 50.00
		Cardinal.....	2.50 20.00
		Estelle.....	2.00 17.50

ROSES Strong and Well Rooted Cuttings

PINK		WHITE	
Richmond.....	Per 100 Per 1000	Uncle John.....	Per 100 Per 1000
Liberty.....	\$1.50 \$12.50	Chatenay.....	\$1.50 \$12.50
Bridesmaid.....	1.50 12.50	Ivory.....	1.50 12.50
Bride.....	1.50 12.50	Perle.....	2.00 17.50
Sunrise.....	3.00 25.00		

Peter Reinberg

51 Wabash Ave., CHICAGO

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ROOTED CUTTINGS February and March Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices.

ALBERT M. HERR, LANCASTER, PA.

ROOTED CARNATION CUTTINGS

Well rooted cuttings of Enchantress (best light pink), Robert Craig (fine red), Nelson Fisher (best dark pink), M. A. Patten (excellent variegated), W. Lawson and P. Lawson. Our stock is O. K. Orders taken now will be ready for February and March delivery. Send for our price list.

VALLEY VIEW GREENHOUSES
VILLIE Bros., Props. MARLBOROUGH, N. Y.

A Positive Cure for Split Pinks
The M. & D. ARTIFICIAL CALYX
Will obviate your trouble
A Perfect Flower guaranteed
\$15.00 per thousand, 250 at thousand rates.
Send for MAXFIELD & DIMOND, Manf. Pat. Sep. 18, 1906.
Sample, P. O. Box 304A Warren, R. I.

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Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennet Square, Pa.
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ROOTED CARNATION CUTTINGS

	Per 100	Per 1000
WHITE PERFECTION.....	\$6.00	\$50.00
LELIE PINK LAWSON.....	8.00	50.00
GLENDALE.....	8.00	50.00
VICTORY.....	6.00	50.00
ROBERT CRAIG.....	6.00	50.00
CARDINAL.....	4.00	35.00
FLANCE.....	3.50	30.00
LADY BOUNTIFUL.....	2.50	20.00
THE BELLE.....	2.50	20.00
WHITE LAWSON.....	2.50	20.00
ENCHANTRESS.....	2.50	20.00
NELSON FISHER.....	2.50	20.00
HARRY PENN.....	2.00	15.00
MRS. T. W. LAWSON.....	2.00	15.00
ESTELLE.....	2.00	15.00
BOSTON MARKET.....	1.50	12.00
WHITE CLOUD.....	1.00	8.00

500 at 1000 RATES.
ASPARAGUS Strong, ready for shift
ASPARAGUS SPRENGERI, 3 in. at \$4.00; 4 in. at \$8.00 per 100; 5 in. at \$20.00.
ASPARAGUS PLUMOSUS, 2 1/2 in. at \$2.50 3 in. at \$5.00; 4 in. at \$8.00; 5 in. at \$26.00 per 100.

CHRYSANTHEMUM Stock Plants
Opah, Monrovia, Omega, Lady Barrist, Duckham, Virland, Mrs. E. B. Day, Robinson, Appleton, Dalskov, Ivory, Dr. Engenhard, Timothy Eaton, Yellow Eaton, White Bonnafont, Major Bonnafont, \$5.00 per 100. Cash or O. O. D.

W. J. & M. S. VESEV, Fort Wayne, Ind.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock

ROBERT CRAIG, VICTORY, HELEN GODDARD, \$5.00 per 100.
RED LAWSON and VARIEGATED LAWSON, \$5.00 per 100.
ENCHANTRESS, LADY BOUNTIFUL, NELSON FISHER, and WHITE LAWSON, \$3.00 per 100, \$25.00 per 1000.
BOSTON MARKET, GENERAL MACEO, MRS. T. W. LAWSON, PINK ARMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$16.00 per 1000.

VERBENAS—Best Mammoth, rooted cuttings.....		Per 100 Per 1000
		\$1.00 \$ 8.00
Ageratum Cope's Pet, White Cap, P. Pauline and Stella Garney.....		1.00 8.00
Achyranthea, 4 sorts.....		1.00 8.00
Coleus, best bedding and fancy sorts.....		1.00 8.00
Cuphea, Platycentra.....		1.25
Fuchsia, double and single varieties.....		2.00 15.00
Feverfew, The Selva.....		1.50 12.00
Geraniums, double and single.....		2.00 15.00
Heliotrop, light and dark.....		1.25 10.00
Ivy, German.....		1.25
Monn Vine, true white.....		2.00 15.00
Salvia, splendens, Bedman, etc.....		1.25 10.00
Salvia, new early flowering sorts.....		1.50 12.00
Vinca, variegated and Elegans, 2 1/2 in. pots.....		3.00

ASPARAGUS		Per 100 Per 1000
PLUMOSUS NANUS, 2 1/2 in. pots.....		4.00
" " 3 in. pots.....		8.00
" " 4 in. pots.....		10.00
SPRENGERI, 2 1/2 in. pots.....		8.00
" " 3 in. pots.....		8.00
" " 4 in. pots.....		8.00

Send for List.

WOOD BROS., FISHKILL, N. Y.
Mention the Florists' Exchange when writing.

CARNATIONS

The Raising of Seedlings.

Germinating in a few days and rapidly growing into size, carnations are the least exacting of the many things easily raised from seeds. They never damp off or yield to ailments that befall many other kinds of seedlings. Transplanted when about an inch in height, afforded ordinary care as to moisture, air and light, and then shifted along in pots or planted out in the field in early Spring, they quickly and lustily grow into sturdy plants, showing their first buds in about five months after the seed has been sown. Few, indeed, are the gardening operations that present so little difficulty, or are carried on with such lightly gained success as the raising of carnation seedlings.

But now, as the first flowers begin to expand, the inexperienced is often called upon to curb his exultation in what up to this juncture seemed astonishing success. Seedling carnations, unlike most other things raised from seeds, never come uniformly true to lineage, vary most strikingly in all the characteristics found in carnations, no two being alike in a lot of hundreds and the majority of them invariably inferior to those that produced the seeds from which they sprung or existing kinds of acknowledged merit.

But the possibility of securing among hundreds of worthless seedlings one or several distinctly new and, to all appearance, vastly superior to any now under cultivation, progenitors of future varieties of great value, is never excluded. And, therefore, in spite of all discouragement to be met with, there is nothing in all the world of horticultural exploits so alluringly captivating, so vividly interesting, as the raising of carnations from seeds.

Securing the Seeds.

The first step to be taken in the raising of seedlings is to raise the seeds. As yet seeds obtained by careful cross-fertilization of American varieties cannot be bought. It is scarcely needful to point out the important part that seeds play in this sort of work. When the principal aim in view is—and certainly should be—to secure one or more new kinds, ranking high in point of excellence, coming as near as possible to being perfect in all respects, it naturally must follow that only the best flowers on the best plants should be selected for pollen and seed bearers. This is not so simple a matter as it may appear. If ever deliberation and well-weighed circumspection are of value it is in choosing the parents for a progeny looked forward to with high hopes and fervent expectations. As a rule—not sufficiently fixed to serve as an absolutely reliable guide—it may be said that the probability of finding good plants among seedlings from white or pink flowering parents is much greater than from yellow or red flowering seed bearers, and that a good new pink is most to be relied upon as holding its own for years to come, while the true scarlets of good form and habit are usually the dearest to give out and to yield to deterioration.

It is a rule, much more trustworthy as a guide than the foregoing, that vigor of growth, healthy constitution and freedom of bloom can, with greater certainty, be transmitted from parent plants to offspring than color, size and shapeliness of the seed bearing flowers.

Much depends on environment and condition of the seed bearing plants, and probably also on the state of the weather during the period in which the seeds are attaining ripeness. Condition of pollen and stigma when fertilizing also plays an important part in the raising of good seeds.

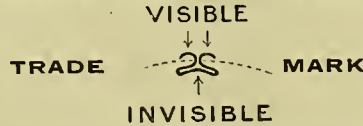
When to Raise the Seeds.

It is a fact that cross-fertilization of bench grown American carnations, carried on in the bright days of

\$\$\$ SAVE YOUR \$\$\$ SPLIT CARNATIONS

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Have You Ever Figured
HOW MUCH YOU ARE LOSING
EVERY YEAR?

We believe we are safe in estimating the loss through so-called "splits" at from 15 to 20 per cent. of the entire cut. If you had a chance to save all these flowers and sell them for the highest price, would you not do it? That is just what the BAUR CLIP and PLIERS will do for you at a minimum of time and expense. Made of galvanized wire and only a very small portion appearing on the outside of the calyx; the clips

are practically INVISIBLE. They make a perfect job and are INSTANTLY ADJUSTED with our pliers, an instrument WORTH ITS WEIGHT IN GOLD, finely finished and thoroughly nickel plated. Every tool guaranteed.

PLIERS, \$3.00; WILL PAY FOR ITSELF IN A FEW DAYS. 1000 CLIPS, \$1.00

Send for it to-day. Cash with order. Orders filled in strict rotation. Your money back if you are not fully satisfied. Full directions with every outfit. Ready about February 10. Carriage charges prepaid in any part of United States or Canada. Pats. applied for.

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Spring and early Summer, results in the most successful fecundation and the speediest and most perfect ripening of the seeds. At that time vital pollen can be had in abundance and the reproductive organs of the seed bearers are most eager to receive it. But all this only proves what is well-known to everyone conversant with the workings of nature, which ever makes her greatest efforts at perpetuation, with no time to lose, at the last stages in the life of a plant. In short, it shows that carnations, like all else, when most anxious to bear seeds, are beyond their prime and very near the end of their career, either for that season or as regards their entire course of existence.

This explains why the final outcome of a start made with Summer-raised seeds hardly ever proves as satisfactory as the results obtained with seeds from flowers that were fertilized during late Fall and Winter, when the plants were at their best. Flowers that "took" in November or December will ripen their seeds in good time for a timely sowing in February or March. These seeds, when taken from the brownish, dry and shriveled pod, need not undergo any drying process, but may be sown at once. But seeds obtained by later fertilization, that do not attain proper ripeness until quite late, had better be dried on glass or paper and then be stored away and carried over until next season, when they can be sown in early February, which is the best time for the starting of carnation seeds, not so much for the sake of the seedlings as for the convenience of the grower.

European-Grown Seeds.

Seeds of all the distinctive varieties found in the perpetual, tree and picotee strains of carnations, are listed in European catalogues, seeds obtained by careful hand-fertilization of perfect flowers on perfect plants. Last Summer I witnessed the process at several seed-growing establishments in Germany and can testify to its being done in a manner bound to bring the best possible results. The

plants set apart for the purpose were pot-grown, vigorous bushes, full of bloom in all the stages from swelling bud to ripening seed pod. The fully opened flowers were the finest of their kind, I would want nothing better for my best trade, or anything more thrifty and prolific than those plants.

But I knew from experience that little of real value for the American grower need be expected to spring from these seeds. A few good plants for the pot plant trade might thus be secured, but for bedding out or for Winter-flowering they seem disinclined to adapt themselves to our climatic conditions and our methods of culture. The only good that might possibly come from carnations of European origin would be by making use of them in attempts at intercrossing with American sorts, having for their object the infusion of new blood. There is, I think, urgent need of some such steps to be taken in the near future, calling for the exercise of trained judgment and much patience.

Some of the establishments in Southern France and all the district engaged in raising cut flowers for nearly all parts of Northern Europe, continually originate new carnations merely for their own places. The best and most promising of the seedlings are grown on from year to year until they give out, when they are replaced by others obtained in the same manner. Many of the seedlings, though not carried over for future stock, furnish an abundance of flowers considered good enough for cutting and shipping in mixed grades. Some named standard sorts, mostly French, are grown, and a few American varieties were on trial here and there. But the main reliance of the growers, I was told, rests in the varieties continually worked up from home-grown seedlings.

Looking Forward.

The course taken by these French growers permits of being adopted here. What I saw strengthened my belief in the feasibility of such a plan, one by which many of the difficulties

now confronting carnation growers may most readily be overcome. Considering the instability of the newer carnations, the rapid decline of older varieties, it would seem that alone the fresh vigor of a home-grown and therefore well-known variety would place its value far above older kinds, even if not superior otherwise.

But I would not advise the raising of new sorts merely with that end in view. The danger of falling from better to worse lurks in all work not prompted by ambition of a higher order. Retrogression can only be avoided by a continuous forward movement on the course set by those who considered the very best none too good striving for. On the inherent value of the seeds alone, as I have tried to make plain, depends all and everything in the raising of seedling carnations. FRED W. TIMME.

**UNROOTED
CARNATION CUTTINGS**

ENCHANTRESS, QUEEN, FAIR MAID, RED SPORT, HARLOWARDEN, pink, white and variegated LAWSON, \$10.00 per 1000. WHITE PERFECTION and VICTORY, \$30.00 per 1000. LADY BOUNTIFUL, \$12.00 per 1000. LIEUTENANT PEARY, \$15.00 per 1000. SCOTTII FERNS, 6 in., \$25.00 per 100. COLEUS, Verschaffeltii and Golden Bedder, 2 in., \$18.00 per 1000.

ROOTED

VICTORY, \$50.00 per 1000. QUEEN, \$15.00 per 1000. LADY BOUNTIFUL, \$30.00 per 1000.

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Larchmont, N. Y.

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Perfectly Healthy**

Rooted Cuttings. Our selection.....	\$.75 per 100	\$ 6.00 per 1000
Plants.....	2.50 per 100	20.00 per 1000
Rooted Cuttings. Purchaser's selection.....	.90 per 100	8.00 per 1000
Plants.....	3.00 per 100	25.00 per 1000

**CARNATIONS Choice Rooted Cuttings
Free From Disease**

Robert Craig, scarlet, very productive; My Maryland, pure white, good stems. Cardinal, scarlet, good flowers; Jessica, white, penciled with scarlet. Price \$8.00 per 100, \$50.00 per 1000.
Crisis, Lady Bountiful, Enchantress. Price \$3.00 per 100; \$25.00 per 1000.
Mrs. M. A. Patlen, Judge Hinsdale, Flamingo, Buttercup. Price \$2.50 per 100; \$20.00 per 1000.
Mrs. Thomas Lawson, The Queen. Price \$2.00 per 100; \$17.50 per 1000.
Golden Beauty, Prosperity, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000.
Mrs. E. A. Nelson, Dorothy, Wm. Scott, Flora Hill, Ethel Crocker, Eldorado, Mrs. Joost, Portia. Price \$1.50 per 100; \$12.00 per 1000.

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HIGH GRADE QUALITY ONLY

	Per 100	Per 1000		Per 100	Per 1000
Red Riding Hood, scarlet	\$12.00	\$100.00	Fiancee	4.00	30.00
Rose Pink Enchantress	7.00	60.00	White Lawson	3.00	25.00
White Perfection, pure white	6.00	50.00	Bountiful	3.00	25.00
Daybreak Lawson or Melody	6.00	50.00	Lieut. Peary	4.00	30.00
Helen Goddard	5.00	45.00	Cardinal	4.00	30.00
			Red Lawson	4.00	30.00
			Victory	6.00	50.00
			Variegated Lawson	3.00	25.00
			Harlowarden	2.00	15.00

Aristocrat is leader of them all.

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JOLIET, ILL.

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MABELLE

New Pink Carnation for 1907

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. **Size.**—Three to four inches in diameter when established. **Odor.**—Pleasing, but not strong. **Stems.**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **Habit, etc.**—A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **Productiveness.**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. No discounts. Delivery Jan. 5th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000. First-class certificates Madison and Indianapolis.

The H. WEBER & SONS CO., OAKLAND, MD.

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ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
WHITE—Queen	\$1.50	\$12.50	Helen Goddard	\$4.00	
Lady Bountiful	2.50	15.00	Ethel Ward	2.00	\$15.00
White Lawson	2.00	15.00	RED—Red Lawson	2.00	15.00
PINK—Enchantress	2.00	15.00	Robert Craig	5.00	
Lawson	1.50	12.50	Harry Penn	2.00	15.00
Pink Patten	4.00		VARIEGATED—Mrs. Patten	2.50	20.00
Victory	5.00				

QUIDNICK GREENHOUSES J. H. CUSHING Prop., QUIDNICK, ANTHONY P. O., R. I.

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Place your orders now for Red Sport cuttings, the best red carnation grown. \$3.50 per 100; \$30.00 per 1000. Mention the Florists' Exchange when writing.

CARNATIONS

Rooted cuttings Victory, \$6.00 per 100; \$50.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patten, \$2.50 per 100; \$20.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Penn, and Fair Maid, \$2.00 per 100; \$16.00 per 1000. 5 per cent. discount for cash with order.

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COMING

Get ready for **ST. PATRICK!** Emerald Green coloring. The best for Carnations. Ready for use, \$1.00 per quart.

MANCHESTER CHEMICAL CO. 2304 Manchester Ave. Phone: Kinlock Central 5313 or, C. A. Kuehn Bell Banmont 54 1122 Pine St. ST. LOUIS, MO.

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White Enchantress

White sport of Enchantress, rooted cuttings \$12.00 per 100; \$100.00 per 1000.

E. SCHRADER, NEW SPRINGVILLE Richmond Borough, N. Y. Mention the Florists' Exchange when writing.

NEPHROLEPIS

Whitmani, 2 1/4 in., \$10.00 per 100. Boston, 2 1/4 in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass. Mention the Florists' Exchange when writing.

5,000 FERNS THAT MUST BE SOLD.

In fine shape; low, stocky plants. Boston, from 6 in. to 20c. from 5 in., 15c. Pteroni, from 6 in., 20c.; from 5 in., 15c. Scottii, from 5 in., 25c. 2,000 2 year old Crispum Rambiera, 3 to 4 ft., \$12.00 per 100, 2,000 field Vinca Major, variegated, from 4 in., \$5.00 per 100, 2,000 Hydrangea, Otaka and Vinca Major, variegated, 2 1/2 in., \$2.50 per 100. 10,000 Canas, abruha, vinas, etc., low. List free. Cash Please.

BENJ. CONNELL -- WEST GROVE, PA. Mention the Florists' Exchange when writing.

Holy FERNS

We still have fine stock in 2 in. pots, and will give you specially good counts on all orders you send us during January. 20 per cent. extra count on all orders for mixed ferns at \$3.00 per hundred.

R. G. HANFORD, - NORWALK, CONN. Mention the Florists' Exchange when writing.

BOSTON FERNS

Very fine bushy stock from 6 in. pots 60c.; 7 in. pots \$1.00; 8 in. pots \$1.50; 9 in. pans \$2.00.

FRANK N. ESKESEN, MADISON, N. J.

Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round

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Adiantum Farleyense

The Very Best Only

5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 per dozen.

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FERNS MY SPECIALTY

Please notice the big reductions, Cibotium Schiedel, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown.

Strong plants from 2 1/4 in. pots, \$10.00 per 100, \$95.50 per 1000.

3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100; 5 in. pots \$60.00 per 100; 7 in. pots \$1.70 each.

10 Large specimens, \$5.00 each.

Adiantum Regina, a beautiful fern, also called the hardy Farleyense, 4 in. strong plants, \$25.00 per 100; 5 in. \$40.00 Adiantum Rhodophyllum, 4 in., \$20.00; 5 in. \$35.00 per 100. Assorted ferns for jardiniere, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate.

J. F. ANDERSON,

Successor to Anderson & Christensen, SHORT HILLS, N. J.

Mention the Florists' Exchange when writing.

ELEGANTISSIMA FERN RUNNERS

Very fine stock, \$1.50 per 100; \$12.00 per 1000. BOSTON, Bench, 3 in. 5c.; 4 in. 10c.

TARRYTOWN, Bench, 2 1/2 in. 4c.; 3 in. 10c.; 4 in. 15c.; Runners \$1.50 per 100.

Flowering Begonias, 8 kinds, 2 in., 2 1/2 cts.

ROOTED CUTTINGS, prepaid per 100.

Parle Daisy, white, yellow, \$1.00; Alexandria, \$1.25. Fuchsia, 5 kinds, \$1.25. Ageratum, white, Gurney, Pauline, 60c. Vinca Variegata, 9c. Swainsona Alba, \$1.00. Double Petunia, 10 kinds, \$1.00. Salvia Bonfire, Splendora, 9c.; Altioranthera, 3 kinds 50c. Heliotrope, 3 kinds \$1.00; Flowering Begonias, 8 kinds \$1.25. Rex Begonias, 20 kinds mixed \$1.25.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa. Mention the Florists' Exchange when writing.

Plant Notes.

DRACÆNA INDIVISA is a plant that no grower of stock for sale should be without. It is so well suited to various uses that it is unquestionable if there is any other decorative plant indispensable to such a degree as it is to all classes of growers of miscellaneous stock. It is unapproachable for window boxes, where the weather may and often is too severe for the existence of any things of less merit; for small tubs and medium-sized vases indoors or outdoors there is nothing to beat it for endurance except the aspidistra, and it is in no way suitable for such purposes. Dracæna indivisa may also be planted outdoors in any well sheltered bed or border where in company with other material it will prove very graceful and effective.

This dracæna is readily raised from seed, and this seed may now be sown in sandy soil, in pans or flats placed in a warm part of a house. When the seedlings are of sufficient size they should be potted into the smallest sized pots and grown on and shifted into larger pots only when they are absolutely in need of more room. The growth of the plants will be hastened if in the early Summer of the second year they are planted in a sheltered position outdoors, in rich soil, and in the Fall taken up and repotted into pots the desired size for sale. With this variety of dracæna, as well as with some of the more tender varieties, it often occurs that opportunity arises for disposing of many when they are small or of moderate size, and it perhaps occurs just as frequently that growers who are also retail florists find many uses to which to put these small plants during their first year of existence.

DAHLIAS are comparatively easily grown and, to suit the purposes of some, easily enough multiplied, that is by the old-fashioned way of dividing the tubers or "toes." But it must be admitted that the best results in quality and size of blooms are obtained from plants propagated from cuttings in the Spring. Plants from division are not so easily grown as single stem plants as are those from cuttings, and since it is now recognized that better flowers are borne by plants of single stems and then allowed to branch moderately than from those with stems innumerable coming out of the ground, it will be seen how desirable the cutting method is. Many who have tried propagating dahlias failed in nine cases out of ten for the following reasons: That the stock plants were kept in a too warm temperature and the cuttings the same after being put in the sand; or that the cuttings were shaded too much, aggravated perhaps by the result of the former condition causing the wood to be too soft.

When it is decided to begin propagating dahlias from cuttings the desired number of each variety of the stock to be propagated from should be placed on a bench in a light, airy part of a house where the temperature does not rise much above 60 degrees. A lower temperature than that will suit, but most likely a much lower one is not practicable when propagation will be under way. Every clump should be carefully labeled so that there will arise no doubt as to the plants propagated being true to name. Enough soil should be put around the tubers to barely cover them. Very little if any bottom heat to start them into growth is needed or desirable. Whenever growth has proceeded to the extent of cuttings that are from two to three inches long being visible, they should be taken with a sharp knife. It is better to sever the cutting with a little of the bark or outer skin of the remaining stock adhering to it; and it is also advisable to cut slantingly, thereby leaving on the cutting a kind of an oval heel. This precaution will aid in the resistance to damping which is always well to guard against.

When all the cuttings are in condition those from one variety are taken

Red Riding Hood. Chicago Carnation Co., A. T. Pyfer, Joliet, Ill.

Mention the Florists' Exchange when writing.

OUR GRAND SCARLET, \$12.00 per 100; \$100.00 per 1000. A. T. Pyfer, Joliet, Ill. Mgr.

off in the way indicated; a label should be handy and the name of the variety written on it and placed in the sand back of the first cutting or in front of the last of that variety. The sand wherein the cuttings are to be rooted should be clean. A little bottom heat will do no harm; on the contrary, I think it hastens the rooting of dahlias as well as the rooting of most other things, but it must be very little else the cuttings will not root. If the cuttings were stocky and the result of slow growth, very little shade is necessary at any time.

When the cuttings have made short roots they should be immediately potted into the smallest size pots available. They are not over discriminating in the matter of soil, but for the first potting it will be well if for the most part the compost be composed of leaf-mold and sand. For the next and subsequent pottings if more than one is deemed advisable, a more strengthening and lasting material will be needed, and nothing is better than good fibrous loam. All along the plants should be grown as cool as possible until the time arrives when they can be placed in frames outdoors.

In beginning propagating a list should be made of all the varieties in stock; also a list of the number necessary to be grown of each of these varieties. This will relieve the grower of much annoyance and uncertainty. M.

ROOTED CUTTINGS Prepaid per 100. *Ageratum variegatum*, 50c.; *Guroey*, Pauline, *Vinca* variegated, 50c.; \$7.50 per 1000. *Hardy Pinks* Her Majesty, \$1.00. *Abbotsford*, 50c. *Alternanthera*, red and yellow 50c.; *Hellotrope*, blue 85c.; *Verbena* mixed 90c. Cash. SHIPPENSBURG FLORAL CO., SHIPPENSBURG, PA.

Mention the Florists' Exchange when writing.

JOHN E. HAINES

The leading scarlet, brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place. Routed Cuttings \$9.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

Mention the Florists' Exchange when writing.

CHARLES H. TOTTY

WHOLESALE FLORIST
MADISON, N. J.
CHRYSANTHEMUM NOVELTIES A SPECIALTY
List Now Ready. Send for it.

Mention the Florists' Exchange when writing.

MRS. H. BURNETT

New Salmon-Pink Carnation for 1907. A Seedling from Mrs. Lawson and an English Variety. Awarded 2 First-class Certificates and an Award of Merit. A lovely warm Salmon-Pink flower. Petals of good shape and substance. Calyx perfect. Delightful clove fragrance. 2 1/2 to 3 1/2 in. in diameter according to season. Stems 18 to 36 inches. A rapid and easy grower. Very productive. Many shades deeper than *Echautress* and keeps its color better. Keeps for a long time after being cut and travels splendidly. Just the shade that everybody wants and one not yet produced in America. Price, £5 per 100 established in 2-inch pots.

H. BURNETT
St. Margarets, Guernsey, Eng.
Mention the Florists' Exchange when writing.

WHITMANI FERN

Large stock of strong plants, 2 1/2 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN

3 inch pots.....\$ 8.00

SCOTTII

2 1/2 inch pots.....\$ 5.00
4 inch pots..... 12.00

KENTIA FORSTERIANA

4 inch pots, made up, strong and bushy.....\$25.00
5 inch pots, made up, strong and bushy..... 50.00

No order for less than 10 plants accepted.

CHAS. H. CAMPBELL,
3601 OERMANTOWN AVE., PHILA., PA

Mention The Florists' Exchange when writing.

DREER'S SELECT DAHLIAS

Varieties Specially Suited for Cut Flowers.

Strong dormant field roots, grown at our own Nurseries where every precaution has been taken in the handling and our customers may depend on receiving stock absolutely true to name.



	Per Doz.	Per 100
A. D. Livoni (Quilled) Pink	\$1.00	\$8.00
Aezir. (Cactus) Warm cardinal red	1.00	8.00
Aunt Chlooe. (Cactus) Rich black maroon	1.00	8.00
Admiral Dewey (Decorative). Rich french purple	1.00	8.00
Baron Schroeder (Decorative). Purple with bluish shading	1.00	8.00
Catherine Duer (Decorative). The favorite Newport red	1.00	8.00
Oliford W. Bruton (Decorative). Bright yellow	1.00	8.00
Countess of Lansdale (Cactus). Pleasing Salmon	1.50	10.00
Eva (Cactus). Medium sized pure white	2.50	15.00
Earl of Pembroke (Cactus). Rich plum color	1.00	8.00
Fire-rain (Decorative). New Brilliant red	3.00	20.00
Floradora (Cactus). Blood red	2.50	15.00
Florence N. Stredwick (Cactus). A grand white	2.50	15.00
Flora (Cactus). The ideal white	4.00	30.00
Fruite (Cactus). Soft rose pink, passing to cream centre	2.50	15.00
Gigantea (Giant). An immense creamy white	2.50	15.00
Gorellide (Cactus). Finest yellow	2.50	15.00
Grand Duke Alexis (Quilled). Standard Ivory white	1.50	10.00
Hohenzollern (Cactus). Bronzy orange	1.00	8.00
Keynes White (Cactus). Free flowering white	1.00	8.00
Kriemhilde (Cactus). Soft pink	1.50	10.00
Lyndhurst (Decorative). Brilliant red	1.00	8.00
Letra (Cactus). Coral red suffused apricot	4.10	30.00
Mary D. Hallock (Quilled). A useful yellow, very free	1.00	8.00
Mme. Alfred Moreau (Show). A fine large pink	1.50	10.00
Miss May Loomis (Show). White suffused with soft rose	1.50	10.00
Mrs. Winters (Decorative). Fine white	1.00	8.00
Mrs. Roosevelt (Giant). Pink	2.50	15.00
Nymphs (Decorative). Light pink	1.00	8.00
Sylvia (Decorative). Soft pink	1.00	8.00
Standard Bearer (Cactus). Rich fiery scarlet	1.00	8.00
Strahlen Krone (Cactus). Intense cardinal red	1.00	8.00
Thuringia (Cactus). Very large fiery red	4.00	30.00
Uncle Fun (Cactus). Deep maroon	2.50	15.00
Victor von Scheffel (Cactus). Beautiful soft pink	2.50	15.00
Volker (Cactus). A grand yellow	1.50	10.00

Wineame (Cactus). A fine white	1.50	10.00
Win. Agnew (Decorative). Brilliant red	1.00	8.00
White Swan (Show). A good white of medium size	1.50	10.00
Waltheri (Cactus). Sulphur shading to white centre	4.00	30.00
Zephyr (Cactus). Crimson carmine	2.50	15.00
Zulu (Decorative). Deep maroon shaded black	1.00	8.00

SINGLE CENTURY DAHLIAS

Good divided roots—field grown stock.		
Crimson Century. Rich velvety crimson	2.00	15.00
Scarlet Century. Brilliant rich scarlet	3.50	25.00
White Century. Large pure white	4.00	30.00
Twentieth Century. The standard single	1.50	10.00

For full descriptions of the above as well as for a complete list of all the good varieties of Dahlias, new as well as standard sorts, see our current **Quarterly Wholesale List** just issued, which also contains offers of all reasonable Plants, Bulbs and Seeds.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA

Asparagus Sprengeri

1600 very full, 2 1/2 in. pots, \$2.50 per 100
GEORGE LISBURG, Florist
East Hampton, L. I.
Mention the Florists' Exchange when writing.

ASPARAGUS Plumosus Nanus

Seed is in perfect condition. Well ripened and full size. 60c. per 100; \$2.50 for 500; \$4 per 1000. Special prices on large quantity.
EDWARD J. TAYLOR, Southport, Conn.
Mention the Florists' Exchange when writing.

JOHN SCHEEPERS & CO.

2, 4 and 6 OLD SLIP
NEW YORK CITY
It pays you and us to handle ONLY the very best bulbs, plants, palms, Azaleas, Bay trees, Roses, Excellenta, Valley, etc. Of everything we handle the very best. Try us and ask for free book with cultural instructions.
Mention the Florists' Exchange when writing.

The American Carnation

Mention The Florists' Exchange when writing.

ORCHIDS

Arrived in fine condition. *Calliopsis Harrisianae*, *C. intermedia*, *C. gigas*, *C. trianae*, *Sect. osissima*, *C. Leopoldii*, *Laelia Purpurata*, *Oncidium varicosum Rogersii*, *O. Marshallianum*, *Phalaenopsis Amabilis* and *P. Schilleriana*. Write for prices.
LAGER & HURRELL, Summit, N. J.
Growers and Importers
Mention The Florists' Exchange when writing.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.
Sander, St. Albans, England
and
235 Broadway, Room 1, New York City
Mention the Florists' Exchange when writing.

COCOS PALMS.

Strong 2 1/2 inch at \$1.50 per dozen. Write for lowest prices on Kentias.
Jas. F. Barclay R. I. GREENHOUSES
Pawtucket, R. I.
Mention The Florists' Exchange when writing.

PALMS AND FERNS

Write for Price List.
The Geo. Wittbold Co.
1657 BUCKINGHAM PLACE CHICAGO
Mention the Florists' Exchange when writing.

Chrysanthemums

STOCK PLANTS
Testout, Nonin, White Shaw, The Baby, \$1.50 per doz., \$10.00 per 100.
Ivory, Bonnafon, Jones, white and yellow. Kalb, Mrs. Duckham, Robinson, Amorita, Smith, Helen Frick, Am. Beauty, Carrie, Godwin, crimson, Appleton, White Bonnafon, 75c. per doz., \$5.00 per 100.
CASH

HENRY EICHHOLZ, Waynesboro, Pa.

Mention the Florists' Exchange when writing.

DREER'S UNRIVALED STRAIN

—OF—

DOUBLE PETUNIAS

ROOTED CUTTINGS BY MAIL 100	
White, pink, red, crimson and variegated...	\$1.25
Petunia Grandiflora, single, 10 varieties...	1.25
Abutilon Savitzii.....	1.50
Cuphea (Cigar Plant).....	.75
Ageratum, 4 varieties.....	.75
Strobilanthes Dyerianus.....	1.25
Gazania Splendens.....	1.50
Hellotrope, Dark, from soil.....	1.00
Lantana, dwarf, 8 varieties, from soil.....	1.25
Lantana, trailing.....	1.25
Scarlet Sage, tall and dwarf.....	1.00

PLANTS
Dracena Indivisa, 18 to 36 in. high.....
\$10.00, \$15.00 and.....\$20.00
Shasta Daley, 3 in..... 3.00
Cash with order please.
GEO. J. HUGHES, BERLIN, N. J.
Mention the Florists' Exchange when writing.

GRAFTED ROSES

THE GRAFTING SEASON is a most interesting and a very important one on a large plant like ours. We ordered one hundred and sixty thousand Manetti stock for this winter's work. All orders received before the grafting is over will be carefully filled and the plants

reserved for each customer. It is therefore an advantage to our patrons to make their wants known as early as possible. We offer this year the following assortment: Bride, Bridesmaid, Bon Silene, Etoile de France, Franz Deegan, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Liberty, Mme. Abel Chatenay, Mme. Caroline Testout, Mme. Hoste, Mrs. Pierpont Morgan, Maman Cochet, Marechal Niel, Perle Des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.

The above grafted from 2 1/4 inch pots, \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

American Beauty. On own roots, from 2 1/2 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

Mme. Norbert Levavasseur. (The Baby Rambler.) An everblooming dwarf Crimson Rambler. We will furnish May delivery plants of this sensational rose from 2 1/2 inch, at \$2.50 per dozen; \$15.00 per 100.

OUR GUARANTEE GOES WITH EVERY PLANT

A. N. PIERSON

Cromwell, CONN.

Mention The Florists' Exchange when writing.

Rooted ROSE Cuttings

AMERICAN BEAUTIES	per 100, \$3.00; per 1000, \$25.00
KAISERIN	" 2.50 "
CARNOT	" 2.50 "
LA DETROIT	" 2.50 "

BASSETT @ WASHBURN

Office, 76 Wabash Ave., Chicago Greenhouses, Hinsdale, Ill

Rooted Cuttings of The Bride and Bridesmaid Roses

\$1.50 per hundred. Our Roses were awarded first prize by American Rose Society. \$MILAX at 12 1/2 c. per string

BRANT BROTHERS, Utica, N. Y. Successors to Peter Crowe. Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

AGERATUM (Inimitable new). It is the finest Ageratum in cultivation. R. C., \$1.50 per 100; 2 1/2 in. \$2.00 per 100.
PETUNIAS, double mixed; R. C., 75c. per 100; \$5.00 per 1000; 2 1/2 in., \$1.50 per 100.
VINCA, variegated, fine plants, 2 1/2 in., \$1.50 per 100.
LETTUCE, Grand Rapids, fine plants \$1.00 per 100.

J. C. SCHMIDT CO., BRISTOL, PA.

Large Stock of PEONIES, M. L. RHUBARB LUCRETIA DEWBERRY

Write for Prices
GILBERT H. WILD, Sarcoxie, Mo
 Mention the Florists' Exchange when writing.

CORN FLOWERS

Cut blooms of this popular blue flower by mail or by express. Write for prices.
IVY, English 2 1/2 to 3 1/4 ft. long, per 100 \$15.00; 1 1/2 to 2 1/2 ft. long, per 100, \$10.00.
BOSTON FERNS, 6 in. pots, 10c.; 5 in. pots, 5c., cut from bench per 100, \$15.00.
ASPARAGUS PLUMOSUS NANUS, 6 in. pots, 35c.; 2 1/2 in. pots, per 100, \$3.50
SPRENOERIA, 4 in. pots, per 100, \$5.00.

THOMAS STOCK
 251 Minot Street., DORCHESTER, MASS.
 Mention the Florists' Exchange when writing.

A FEW GOOD THINGS YOU WANT

DRACAENA INDIVISA, 4 and 5 in., \$10.00 and \$25.00 per 100.
ASPARAGUS SPRENGERI, 2 in., \$2.50 per 100.
GERANIUMS, S. A. Nutt, John Doyle, Perkins, Double Gen. Grant, 2 in. pots, \$2.00 per 100. 2 in. pots. E. H. Trego, and Castellane, \$4.00 per 100. Rooted cuttings, \$1.00 per 100.
GLADIOLUS, blooming bulbs, extra fine mixture to close out while they last, 60c. per 100; \$5.00 per 1000.
VINCA, Var., 2 inch, \$2.00 per 100.
REX BEGONIA, nice plants, 2 and 2 1/2 in., \$5.00 per 100.
ASPARAGUS PLUMOSUS, 2 in. \$3.00 per 100; 3 in. \$5.00 per 100.
BOSTON FERN, 5 in. 30c. each.
PIERSON FERN, 5 in. 50c. each.

GEO. M. EMMANS, Newton, N. J.
 Mention The Florists' Exchange when writing.

10,000 MAMAN COCHET ROSES

White and Pink, 2 year old stock, the finest grown in Riverton. \$8.00 per 100.
CHAS. N. PETTIT, RIVERTON, N. J.
 Mention The Florists' Exchange when writing.

GRAFTED ROSES

On Dickenns' Irish Manetti.
 We are now booking orders for March delivery.
KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND; \$123 per 1000.
 Order Now
ROBERT SCOTT & SON, SHARON HILL, DEL. CO. PA.
 Mention the Florists' Exchange when writing.

Beautiful New Pink Rose "Aurora"

See announcement and full description in Florists' Exchange, Dec. 8 issue.
PAUL NIEHOFF, Lehighton, Pa.
 Mention the Florists' Exchange when writing.

ROSES

101 Best Sorts. Own Roots. 2 1-2 and 4 in. Get our price list. Send your want list

THE LEEDLE FLORAL COMPANY, SPRINGFIELD-OHIO.
 Mention the Florists' Exchange when writing.

Here is some good stock, all ready to ship, with prices that are right:

Geraniums, as fine a lot as was ever offered for sale at \$18.00 per 1000. S. A. Nutt, Foltzvine, La Favorite, Perkins, Brant, H. Pett. Viand, Doyle, and several other varieties, out of 2 1/2 in. pots with or without soil.
 Fuchsias, 2 1/2 in. pots, \$3.00 per 100.
 Heliotropes, 2 1/2 in. pots, not spindly stock, but short growing and well finished, \$2.50 per 100.
 Sweet Alyssum, 2 1/2 in. pots \$2.00 per 100.
 Labelia, 2 1/2 in. pots, \$2.00 per 100.
 Ageratum, 2 1/2 in. pots, \$1.50 per 100.
 Asparagus Fittmenss, 3 in. pots, \$5.00 per 100.
 Sprengerii, 3 in. pots, \$3.00 per 100.
 Cash with order.

J. E. FELTHOUSEN,
 154 VAN VRANKEN AVE., SCHENECTADY, N. Y.
 Mention the Florists' Exchange when writing.



Making a Water Lily Pond.

(10) I want to make a water lily pond about 100 feet in diameter. How deep should I dig it? I refer you to an article in 'The Florists' Exchange, March 24, 1906, about Twin Oaks. Will you kindly inform me where I can get the water lilies mentioned therein; also inform me how to grow them?
 W. E. B.

Wichita, Kan.
 —The depth the pond should be dug will depend on what water lilies are intended to be grown in it, how wintered, and the depth or thickness of the ice formed in Winter. If the pond is intended for tender lilies, the roots of which have to be wintered in a greenhouse or cellar, then a depth of two feet finished will be sufficient. This will allow of twelve inches of soil on the bottom of the pond (or boxes of the same depth), in which to plant the lilies, and twelve inches of water over the crowns of the plants. On the other hand, if the pond is to

Robert Craig Carnations

Fine, strong plants, 13 in. pots, ready to top and pot on, \$5.00 per 100; \$50.00 per 1000.
Victory, 12 in. pots, \$6.00 per 100; \$50.00 per 1000.
ROBT. C. PYE, NYACK-ON-HUDSON, N.Y.
 Mention the Florists' Exchange when writing.

WHOLESALE TRADE LIST

ASPARAGUS PLUMOSUS, 2 1/2 inch pots, \$3.00 per 100. 3 in. pots, \$5.10 per 100.
ASPARAGUS SPRENGERI, 2 in. pots, \$2.00 per 100.
BOSTON FERNS, 5 in. pots, 20c. 6 in. pots, 25c.
CLEMATIS PANICULATA, 4 in. pots, \$1.50 per doz., \$10.00 per 100; 3 in. pots, 75c. per doz.; \$5.00 per 100.
DRACAENA INDIVISA, 5 in. pots, \$2.00 per 100.
IVY, Hardy English, 3 in. pots, \$3.00 per 100; 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
YELLOW DAISY (Etoile d'Or), 3 in. pots, \$5.00 per 100. 2 1/2 in. pots, \$3.00 per 100.
SANSEVIERA (Zebra plant), 4 in. pots, strong, \$1.50 per doz.; 3 in. pots, \$1.00 per doz.

11th & Roy Streets,
C. EISELE, PHILADELPHIA, PA.
 Mention the Florists' Exchange when writing.

Commercial Violet Culture

PRICE, \$1.50
The FLORISTS' EXCHANGE, 2-8 Duane St., New York

accommodate both hardy and tender lilies, the depth should be sufficient to allow of twelve inches of soil, and the crown of the hardy lilies which are to remain in the pond to be from 3 to 6 inches below the thickest ice formed in the Winter, as many of the finest hardy lilies will not stand actual freezing.

Water lilies require a good rich soil, one inclined to clay preferred. The soil should be mixed with equal parts cow manure, and frequently turned so as to become thoroughly incorporated. At the last turning a good dusting of bone meal should be added, and the soil will then be ready for use.

There are two methods of growing water lilies; one is to plant the lilies on the bottom of the pond; the other is to plant in boxes. For small ponds boxes are much more convenient, keeping the roots of the lilies within their allotted space, and not allowing them to run over the pond. For the hardy lilies boxes 3x3x1 foot will be found a good size. This will also be a good size for the zanzibarensis and gracilis types. While the lotus and dentata types will require boxes 4x4 x1 foot. For the Victoria a box 8x8 x1 foot will be none too large.

The hardy lilies can be planted from the time growth commences in the Spring through the Summer until the month of August. A good rule to follow would be to plant them as soon as it would be safe to sow corn. The tender lilies should not be planted before it would be safe to set out cobs, or not until the temperature of the water in the pond reaches 70 or 75 degrees; for the Victoria regia not until the water reaches 75 to 80 degrees. If the pond is heated artificially and these temperatures can be maintained, the lilies can be planted much earlier than they can be in an unheated pond.

After the plants are set out the soil should be covered with from one to two inches of coarse sand, or fine gravel, to prevent the manure from rising to the surface of the water, also to prevent the fish from uprooting the plants. A generous number of gold fish should be kept in all ponds to keep down the aphid and mosquito larvae. For a pond of the dimensions given, from 50 to 100 fish should be secured to start with. The after cultivation consists of removing all decaying or unsightly leaves, allowing enough water to flow in to keep the pond full, yet not allowing a great stream to run through continually so that the temperature of the water will be lowered, especially if tender lilies are growing in the pond. The water lilies named in 'The Florists' Exchange of March 24, 1906, can be purchased from H. A. Dreer, Riverton, N. J.
 PETER BISSET.

A Pink Snapdragon.

(12) Is there a pink snapdragon? If so, where can the seed be obtained?
 G. S. N.
 —A. T. Boddington, seedsman, 342 West Fourteenth street, New York City, is cataloguing a pink snapdragon, and doubtless can supply the seed of same.

Jan. 26, 1907

Bulbs for Easter Flowering.

(13) When is the proper time to bring Duc Von Thol tulips, Von Sion daffodils and hyacinths to light and heat to have them in bloom at Easter? The bulbs are started about one-half inch.

New York. C. G. R.

—The hyacinths and tulips may be brought into light and heat twenty-one days before Easter, and the Von Sion narcissus should be allowed about thirty days.

When should Lilium Harrisii show buds, and what temperature should they have to be right for Easter?

New York. P. D.

—If the buds show by the 15th of February, they will come in all right for Easter without any undue forcing. At the present time the plants should be receiving a night temperature of 60 degrees, with a corresponding raise of temperature during the day.

Feeding Ten-Week Stocks.

(14) Will you kindly state in your paper whether it is well to continue feeding Ten-week stocks with liquid fertilizer after the blossoming begins?

Mass. S. E. B.

—A little weak liquid manure can be given to Ten-week stocks right through their flowering period to good advantage. Stocks are not so sensitive in this matter as some other flowering plants.

Transplanting Wild Rhododendrons.

(15) I would like to know how early I can take up wild rhododendron plants for shipping, and if a plant taken from wet soil will grow in dry.

A. N. W.

—In transferring the wild rhododendrons from a wet or marshy situation to a dry one, great care would have to be taken during the first year to afford them plenty of water. They should be lifted or transplanted as early in the Spring as possible, just as soon as the frost is out of the ground, and they then can be shipped without danger of their roots being frozen.

A House for Ferns.

(16) What is the best style of house for growing ferns, and how should it stand—east and west or north and south?

R. H. C. Conn.

—While ferns can be grown in houses that are unsuitable for most other crops, we would say that in building a new house for ferns it would be folly to do other than erect one that could be utilized for some other crops if necessary. A house, three-quarter span, running east and west, would be the most advantageous to build.

Growing Smilax.

(17) Will you kindly tell me the best way to grow smilax on a large scale, where to plant, etc., and how many crops I can cut in a year? Can I grow them more than one year without removing?

SMILAX. Conn.

—The best way to grow smilax is to have it in solid beds, raised 10 or 12 inches above the floor of the greenhouse, using a soil that is very rich, similar to that used for roses. A temperature of 60 degrees at night should always be maintained; and three or four crops can be produced in one year. While smilax can be grown year after year from the same roots, it is advisable not to do so, as the best results are secured from planting new stock every year.

Grafting Lemons.

(18) A bush, about 8-years old, 6 feet high, strong and healthy, raised from an ordinary lemon seed, in an 8-inch pot now and kept in the greenhouse, was given to me for grafting. I tried it in different ways as I graft roses and other fruit trees, but without success. Is there a special way of grafting lemons?

H. H. New Jersey.

—In grafting the lemon we would advise that the operation be performed just before growth is expected to commence. This can be done either by cutting off the head of the stock and crown-grafting, or by attaching the graft to the growing shoot, the same as is done in whip-grafting. It should be borne in mind, however, that moss only should be used for covering same.

(19) Kindly tell me what the trouble is with my American Beauty roses. They are growing well but form but a few buds. Some of them reached up to the glass, and these I tied down. They had good treatment, and were planted in the middle of July. I enclose some leaves; the light green ones are from young shoots growing from the bottom, but they don't all have this appearance. The others are from long canes. Would you advise me to cut back the plants? Some one told me to do so, if so, please state to how many eyes.

New York. V. C.

—Do not cut back the roses by any means; keep them rather on the dry side, though not enough to injure the plants in any way. Buds will soon begin to show now, no doubt. To have cut the growths back would have wasted an entire crop. The leaves sent show no indication of disease of any kind.

Roses, Holly, Cycas.

(20) Can roses be rooted from cuttings under shaded frames outdoors, or which is the best way to root them without a greenhouse? (2) Can holly (Southern) be grown successfully from cuttings? (3) Tell me how to plant and care for cycas stems; kind of soil, etc.

Louisiana.

—Roses can be successfully propagated in shaded frames outdoors through the Summer by first putting 18 inches or so of loose stable manure in the bottom and firming down well before placing the soil and sand.

Holly can not be grown with any degree of success from cuttings, but is easily raised from seed.

Cycas stems, when they arrive should be put into pots just large enough to leave 2 or 3 inches of space around the sides. But two or three inches of the base of the stem should be inserted in the soil. After they are potted, plunge the pots either in soil or spent manure in a greenhouse, and they will be just as well if placed under the benches, provided there is no drip from plants that stand above them. A moderately light soil should be used, one in which there is no green manure of any kind, and care should be taken that the pots are drained properly so that the soil will not become sour before active growth starts. Any ordinary greenhouse temperature is suitable for cycas, but if it is intended to grow them quickly, they can be put into a house where 60 degrees at night is maintained, as soon as the young leaves begin to unfold and root action has started.

Cycas Revoluta; Palms.

(21) We enclose a portion of a Cycas revoluta leaf that has turned yellow. Can you tell what causes this? Our kentias are of a yellowish-green, not the color they ought to be. Our small kentias seem to be all right—those in four inch pots. Our glass is shaded.

New Jersey. W. & N.

—In regard to the leaves of Cycas revoluta decaying from the tips downwards, we would say that it is a pretty sure sign that the plants are not being treated correctly. The trouble probably arises from the plants being over-potted or over-watered, or perhaps both. The same trouble is, no doubt, affecting the kentias, and we would advise taking them out of the pots, re-potting in new soil and allowing but a little space around the ball for the new soil; then there will be less likelihood of danger arising from over-watering.

Remedy for White Fly.

(22) Will you please give me the name of the acid to be used as remedy for white fly. How much will it take for a house 20 x 100 feet? Can I use the same in the house where palms, ferns and bedding stock are raised without doing harm to any of those plants?

Pa. P. B.

—For full information regarding remedies for white fly, we would refer you to our issue of November 17, 1906, page 598.

THE AMERICAN CARNATION
Price, \$3.50
A. T. DE LA MARE PTG. & PUB. CO. LTD.
2-4 Duane Street, New York



ARAUCARIAS

Our Specialty

Price: 6-7 in. pots, 4-5 year old, as broad as high, 4-6 tiers, from \$2.35 in. in height, \$1.50, \$1.75, \$2.00 to \$2.50 each. Glauca specimens 7 in. pots, 38 in. high, 38 in. wide, 6 tiers, \$1.50 to \$3.00; 6 in. pots, 3 years old, 4-5 tiers, \$1.00, \$1.25 to \$1.50 each.

KENTIA FORSTERIANA PALMS not scarce with us; have plenty and can meet all wants, cheaper than ever; 6 1/2 to 6 in. pots, 30 in. high, 5 good leaves, 80c., 75c., and 83c. each. 7 in. pots, made up, 1 large size, about 40 to 45 in. high in the centre, and three smaller size plants 25 to 30 in. high around, which gives them a fine appearance, price, \$3.00 to \$2.60 each. 6 in. pots, single plants, 36 to 45 in. high, 6 to 6 good leaves, 4 years old, \$1.25 to \$1.50, \$1.75 each. 8 in. pots, 32 to 38 in. high, 5 to 6 good leaves \$1.00 each. 5 1/2 to 6 in. pots, 30 in. high, 5 good leaves, 4 years old, 75c. to 85c. each.

ARCA SAPIDA, just imported from Belgium, something new, 102 like Kentia palms, about 25 in. high. Look! only 5c. each, worth \$1.00. This is a bargain! 100 offered.

ASPARAOS SERENGERI, 4 in. pots, 11c.

FERNS

All raised in pots and not on benches as follows:

NEPHROLEPIS BARROWII, 7 in. pots, as big as a bushel basket, 75c. to 1.10 each. 8 in. pots, single, ready for 7 in., 60c.; 6 1/2 in. 40c.; 6 in. 30 to 35c.; 4 in. 25c.

BOSTON FERNS, 7 in., very bushy, only 75c.; 8 in., 60c. or \$5.00 per doz.; 6 in., 30c. to 35c.; 4 in. 2c.

NEPHROLEPIS SCOTTII, 8 in., as big as a wash tub, worth \$2.00, now \$1.25; 7 in. as big as a bushel basket, worth \$1.25, now 75c.; 6 in., 60c.; 6 1/2 in. 40c.; 4 in. 20c.

DRACAENA BRUANTII, imported from Belgium. This is the best dracaena grown for house cultivation. Most favored all over Europe; can stand any amount of dry heat, dust or dirt. Always full of green waxy foliage from top to bottom. 6 in. pots, about 30 in. high, 60c.

CINERARIA HYBRIDA, H. P. Mitchell's best strain, 2 1/2 in. pots \$4.00 per 100, 3 in. strong plants, ready for a shift, into 6 1/2 or 8 in. pots, \$7.00 per 100; 4 in. \$10.00 per 100.

AZALEA INDICA for Easter blooming, all best American Varieties, 60c. 75c., \$1.00, \$1.25, to \$1.50 each.

AZALEAS in bud and bloom now, Deutsche Fele Simon Mardner and variegated 60c., 75c., to \$1.00 each.

All goods must travel at purchaser's risk.

When ordering, say whether the plants should be shipped in the pots or not. Cash with order.

GODFREY ASCHMANN
Importer and Wholesale Grower of Pot Plants,
1012 Ontario St., PHILADELPHIA, PA.

LATANIA BORBONICA

	100	1000
2 inch.....	\$3.00	\$25.00
3 inch.....	6.00	
4 inch.....	12.00	

These are good value and in fine condition.

AZALEAS in fine shape 40c., 50c., 70c., \$1.00, \$2.00 and \$3.00 each. Order now and grow for Easter.

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

Sacrificing Plants

To make room for Easter stock. All large, healthy plants in bud and bloom.

Azaleas, 60c. to \$1.00 each. **Primula Obconica** 4 in., 6c.; 5 in., 10c. **Primroses**, 4 in., 10c. **Cinerarias**, 4 in., 8c.; 5 in., 10c. **Urclemen**, 4 in., 10c.; 4 1/2 in., 12c. **Rooted Carnation Cuttings**, Admiral Severis, \$12.00 per 1000. Cash please.

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CARNATIONS and Novelties in DECORATIVE PLANTS
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Mention The Florists' Exchange when writing.

Augusta Gladiolus

First size, 1 1/2 and up..... \$12.00 per 1000
Second size, 1 1/4-1 1/2..... 8.00 per 1000
Cash with order. Satisfaction guaranteed.

Rowell & Grafz, Hicksville, L. I., N. Y.
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SPECIALS=ROOM

We must have room, and to have you help us, take a 10 per cent discount for cash with order—at once.

Cinerarias , in bloom.....	2 1/2 in.	3 in.	4 in.
Primroses , C., in bloom.....	5.00	8.00	\$12.50
Obconica , in bloom.....	5.00	8.00	12.50
Baby , in bloom.....	5.00	8.00	12.50
Cyclamen , in bloom.....		8.00	15.00

Stock guaranteed to please you, or money back; Send for our list of carnations, R. C. and 2 in. roses, R. C. and 2 in. Ferns, Boston, Whitman, Pierson, Scottii, Elegatissima, Barrowsii.

ADIANTUM, ASPARAGUS PLUMOSUS and A. SPRENGERI. Mention the Florists' Exchange when you write, also name Express Company.

GEO. A. KUHL, PEKIN, ILL.

SPECIAL OFFER

Cyclamen Splendens Gigantum. This strain has no equal or better; in five colors, including fringed varieties twice transplanted from flats \$3.00 per 100, \$25.00 per 1000.

Primula Obconica Grandiflora. The celebrated Ronsdorfer and Lattmans Hybrids in bud and bloom, from 5 in. pots, \$1.80 per doz., \$15.00 per 100.

Primula Chinensis. Fringed varieties, extra fine plants in bud and bloom, from 4 in. pots, \$1.00 per doz., \$8.00 per 100.

Cinerarias Hybrida Grandiflora. Well grown plants, 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 5 in. pots \$15.00 per 100.

Asparagus Plumosus Nanus. Fine plants, 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 3 1/2 in. pots \$8.00 per 100.

Cannas. Pres. McKinley, Alph. Bouvier, Chicago, Queen Charlotte, Florence Vaughan, Egandale, J. D. Cabos, fine tubers, no better, true to name; \$2.00 per 100, \$17.50 per 1000.

PAUL MADER, EAST STROUDSBURG, PA.

For Decoration Day SPIRÆAS

Are a most useful plant

We have an excellent lot in cold storage, extra large clumps, and offer them as follows:

Spiræa Japonica, Per 12 60c., per 100 \$4.60, per case, about 300, \$12.00.

Spiræa Compacta Multiflora, Per 12 60c., per 100 \$1.50, per case about 300, \$12.00.

Spiræa Astiloides Floribunda, Per 12 60c., per 100 \$4.50, per case, about 300, \$12.00.

Spiræa H. Witte (new). Undoubtedly one of the finest and most profitable Spiræas for florists. Per 12 \$1.00, per 100 \$7.50, per case, about 300, \$21.00.

POT GROWN LILACS
Extra strong and well set with buds.

50 Marie Le Graye, 50 Chas. X, 50 Md. Cassier Perlier, 50 Md. Lemoine, \$6.00 per dozen while they last.

50 Deutzia Lemoinei (pot grown), at 13c. each

Arthur T. Boddington
342 W. 14th St., New York

ARISTOCRAT

Beautiful Cerise, Winner Everywhere. March 1st delivery \$12.00 per 100; \$100.00 per 1000. Chicago Carnation Co., A. T. Pyfer, Mgr., Joliet, Ill.

Mention the Florists' Exchange when writing.



Salvia Splendens "Bonfire"

New Crop DREER'S RELIABLE FLOWER SEEDS

The following short list embraces but a few of the things which should be sown early. New Crops are now ready to send out.

Table listing various flower seeds such as Alyssum Little Gem, Centaurea Gymnocarpa, Cobaea Scandens, etc., with prices per ounce and per 1000 seeds.

Our Wholesale and Retail Catalogues for 1907 have been mailed to the trade. In case you have not received a copy, let us know, and we will send you another. These catalogues con-

tain the most complete offering of Seeds, Plants and Bulbs in the country. Do not wait until the Spring rush, but order Now.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa. Mention the Florists' Exchange when writing.

-CANNAS- CANNAS ASTER SEEDS

At Exceedingly Low Prices—Send for List and Prices.

NATHAN SMITH & SON, ADRIAN, MICH.

Mention the Florists' Exchange when writing.

JOS. H. CUNNINGHAM, Delaware, O.

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CANNAS

Plump, sound roots, 2, 8 eyes and more, no canks, true to name, 250 at 1000 rate. Our stock is first-class only.

Large table listing various Canna varieties (Orchid, Bronze, Pink, Bed, White) with prices per dozen and per 1000.

For full description of above and many more varieties of CANNAS, see our catalogue. SHELLROAD GREENHOUSES, Grange, Baltimore, Md. Mention the Florists' Exchange when writing.

350,000 CANNAS TRUE TO NAME

Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

Table listing various Canna varieties (Red, Pink, Orange, Cold Edged, Yellow, White, Bronze, Orchid) with prices per 100 and per 1000.

Table listing Elephant Ears (Caladium Esculentum) varieties with prices per 100 and per 1000.

Full descriptions of above and fifty other varieties of Cannas mailed free.

ARTHUR T. BODDINGTON 342 W. 14th. St., New York

Heating. Growers' Problems Solved by U. G. Scollay

I am thinking of building a 15x100 foot 3/4 span house, 7 feet on north and 5 feet high, south side, with 2 foot fixed glass on south side. Will later build a propagating house against the north side. Will you kindly tell me, how many lines of 3-inch boiler tubing I will need to heat this house to 65 degrees in zero weather? Also advise me which end of this house had best be the cool end, in case I put a partition in the center of it, and run part of it at 55 degrees. The house will run east and west, with the boiler on the west end. Could you suggest a better arrangement? J. R.

To absolutely maintain 55 degrees inside, with zero outside, in the house described, I would advise nine runs of 3-inch boiler tubes. A good arrangement for this piping would be to place three under the south bench, three under the north bench, and three under the middle bench (having two pipes of this middle bench placed under the south side of it, and one under the north), and on the north bench three pipes. In case you desire to have a partition in the house, your best plan would be to have the cool end on the east side furthest from the boiler. I suggest this because you will keep the warmer section in use when it will not be needed in the case of the cooler. You could arrange the piping so that you could bring your coils for the cold section from the ends of the circulations in the warm house. To maintain 55 degrees inside I would suggest that you run seven lines of the same size boiler tubing. I would caution you against using the 3-inch boiler tubes for one flow and one return mains, for they will not be large enough. If you intend to use the 3-inch tubes between the boiler and piping, I would suggest that you divide the job so that you will have two flows and two returns from the boiler to the coils, and divide them so that each of these flow and return mains will carry about an equal proportion of the whole heating surface. The arrangement as you lay it out is a very good one, and the house in question should be a very profitable one. If these lines of heating are carried out you will have no trouble to maintain the temperature, provided, of course, that you have ample boiler capacity and connections are all made similar to the previous articles described in The Florists' Exchange for houses of this description. U. G. SCOLLAY.

CANNA ROOTS

Allemania, Shenandoah, Anstris, Henderson, Pennsylvania, Italia, Mlle. Berat, F. Vaughan, \$2.00 per 100; \$17.50 per 1000. West Virginia, Mrs. Kate Gray, \$3.00 per 100; \$25.00 per 1000. Emberea, 4 in. \$3.00 per doz.; 2 in. \$4.00 per doz. Asparagne Sprenger, 3 in. \$4.00 per 100. Hibiscus, 2 in. \$2.50 per 100, in variety. Ferns, 2 in. Boston, \$3.00, 2 in. Scott's, \$3.00, 2 in. Tarrytown, \$5.00 per 100. Culeus Ontings, 6 in. per 100, \$5.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio

GRAND NEW CANNAS William Saunders Ottawa

The flowers are large, of splendid form, and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson. Foliage is a rich bronze. Height, 3 1/2 to 4 feet. We believe that Wm. Saunders is decidedly the most perfect canna of this type that has been introduced. 50c. each; \$5.00 per doz.; \$35.00 per 100.

is a strong grower, very robust and 5 to 6 feet high. The flowers are large and beautifully formed, color is carmine with tints of old rose and deep coral, add to this the silken sheen and you can imagine the effect a few plants will produce.

Note:—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert: Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 massed in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 12 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size." 50c. each; \$3.00 per doz.; \$35.00 per 100.

Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest winter of a canna. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Send for our list and prices of 60 other leading varieties of cannas.

New York ROSES Shrubby

Are our great specialty, 24 and 4 in. pot plants we have in great variety. Tea Hybrid Tea and H. P. Roses on their own roots. Philadelphia Rambler, Crimson Rambler, Dorothy Perkins and other climbers in strong field plants.

in variety. Viburnum Plicatum, Spiraea, Albear, Deutzias, Weigelia, Sarcococca, Thunbergii, Hydrangea Pan. Grandiflora, Honeysuckles, etc.

Send for our Price Lists.

THE CONARD & JONES CO., WEST GROVE, PA.

Imperial and Pink Imperial **CARNATIONS**

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100 ; \$100.00 per 1000, 250 at 1000 rates
A discount allowed when cash accompanies the order

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The Wholesale Florist of New York

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BETHLEHEM, PA.

VICTORY Has Made Good

Place Your Orders Early for Rooted Cuttings

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

Exclusively a Trade Paper.

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

Fire! Fire!!

Owing to a fire which occurred in our building on Thursday morning, January 24, and the gutting of the floor above us, the floor on which the offices, etc., of The Florists' Exchange are situated was flooded with water, suspending temporarily all operations; the present issue is about 36 hours late, for which fact, under the circumstances, we ask the indulgence of our patrons, particularly our advertisers, the index to whom is unavoidably omitted from the current number, for the reason given.

Chrysanthemum Society of America.

The president of the Chrysanthemum Society of America on assuming office will be glad to consider any suggestions which may appear for the good of the society. Lovers of the Autumn Queen are invited to communicate their ideas, and the hearty co-operation of every member of the society is most desirable for the accomplishment of the success which should be ours. The year is before us with all its grand possibilities; let each one contribute his share of interest, and the good results will be gratifying to us all. Let there be no drones in the hive of the C. S. A. during the year 1907. DAVID FRASER, Secretary.

McKinley Day.

I would respectfully call the attention of the carnation growers and florists to the recurrence of McKinley Day on January 29, 1907, and would emphasize and endorse the comments appearing in recent issues of the trade papers.

The trade is responsible for the success or failure of this day, dedicated to the expression of respect for our martyred President. Far better lose your entire day's stock, or absolutely donate it to the public, than to antagonize this awakening sentiment of the American public by exorbitant and prohibitive prices for President McKinley's favorite and beloved flower, on this coming anniversary of his birth.

It is to your interest that the public should know of this day; there is not a paper in this country that will not give space referring to and commenting upon it. A discriminating and judicial distribution of a few carnations, either white, red or pink, will emphasize the significance of the day, and the wearers will excel themselves in arousing the dormant sentiment of their friends and acquaintances.

And, lastly, and most important, contribute \$1 or more, if you can, to the Florists' Memorial Fund for the McKinley Monument, and receive by return mail a handsome steel-engraved certificate; then place this in a prominent place on January 29 thereby offsetting, to a degree, any impression of selfishness on your part in a public movement that benefits your business.

Our list will be closed and published at an early date, therefore send your subscription at once to Dayton, Ohio.

H. M. ALTICK,
Chairman.

American Carnation Society.

Favored by propitious weather the American Carnation Society held a most successful meeting and exhibition at Toronto, Ont., Wednesday and Thursday, January 23 and 24. A comprehensive summary of the proceedings, together with a full report of the exhibition is given in this issue. The report will be continued next week.

The hearty welcome accorded by the Canadian brethren to all the visitors across the line was greatly appreciated; and it was generally conceded by the craftsmen in the Dominion that the visit of the Carnation Society to Canada will be of considerable benefit not only to the special industry championed by the organization but to the florist trade generally as well as to the society itself.

We hope to present a review of the proceedings in our next issue.

Free Seeds Eliminated in Agricultural Bill.

The present free seed distribution is eliminated in the agricultural appropriation bill, which was before the House on Wednesday, January 23, and in its place \$238,000—the amount of the current appropriation—is proposed to be devoted to the purchase of rare and uncommon seeds and their distribution to experimenters, through the Department of Agriculture, rather than by Members of Congress. The measure provides, however, that Members of Congress shall co-operate with the department in submitting names of such experimenters to whom seeds shall be distributed.

The free seed men are already organized to fight the provision, in order to continue the old free seed distribution now in force.

National Council of Horticulture.

The first installment of the 1907 service of the National Council of Horticulture's press bureau was distributed the current week by James Burdett, 1720 W. One Hundred and Fourth place, Chicago, to a greatly enlarged mailing list. It consisted of four articles prepared by volunteers under the direction of Professor H. C. Irish, secretary of the society, as follows: "The Modern Gladiolus," "Poppies," "Designing a Planting Scheme," and "Evergreens for Ornament."

As it has been suggested by some contributors to the council's press service that they would like to advertise in some of the newspapers using the service, the following list is issued of newspapers that used the service last year and expressed themselves as wishing to have it continued.

The News League of Ohio, including Dayton Daily News and Springfield Daily News; Louisville Times; Spokane (Wash.) Spokesman-Review; Madison (Wis.) Democrat and the string of papers served by it with plate matter; St. Louis Globe-Democrat, semi-weekly edition; St. Louis Star-Chronicle; Cleveland Press, and about 50 other papers served by the Newspaper Enterprise Association of Cleveland; Philadelphia Evening Bulletin; Memphis Commercial-Appeal; Chicago Tribune, Chicago Daily News, Washington Evening Star; Worcester (Mass.) Evening Gazette; Brooklyn (N. Y.) Daily Eagle; Grand Rapids (Mich.) Herald; Ohio State Journal, Columbus, O.; Kansas City Star; Milwaukee Journal, Milwaukee Evening Wisconsin; The News, Buffalo; Cincinnati Gazette, published by Commercial-Tribune Company; Twentieth Century Farmer, weekly publication of the Omaha Bee; Minneapolis Tribune.

The Kellogg Newspaper Company of Chicago, the American Newspaper Union of New York, and the Chicago Newspaper Union of Chicago have supplied their subscribers, numbering several thousands, which they have classified in various lists covering certain territory.

It is earnestly desired that the names of newspapers, to which contributors wish this service to be sent, or which express a desire for the service, be sent to Mr. Burdett, in order to make the mailing list as efficient as possible.

Carnation Night in Philadelphia.

The next meeting of the Florists' Club of Philadelphia will be "Carnation Night," date of which is Tuesday, February 5. John E. Haines, the carnation expert of Bethlehem, Pa., will deliver a paper on his experiences with carnations.

Exhibits of all meritorious novelties are invited by the committee in charge, and it is to be hoped all the very best will be on hand so that the progressive florists of Philadelphia—the horticultural center of the country—may have an opportunity of examining them carefully, and as a consequence placing their generous orders for those which meet their fancy. Please ship, prepaid, in care of David Rust, Horticultural Hall, Broad street above Spruce, Philadelphia, Pa., and they will be properly taken care of upon arrival.

N. B. It would be better to forward them a day sooner than is sometimes thought necessary so that they may be sure to arrive on time, as on former occasions some shipments from a distance have been delivered a day late.

All interested in carnations are invited to be present whether they themselves have superior varieties to exhibit or not. EDWIN LONSDALE,
Secretary.

American Rose Society.

March will soon be here and the rose show in the city of Washington, D. C., now calls for attention. It is desired that a committee meeting be held on Wednesday evening, January 23, 1907, at Hotel Martiniere, Thirty-third street and Broadway, New York City.

Now, gentlemen, if possible to do so let us boom the society. At the recent New York Florists' Club meeting, President Simpson and the writer were present and had an opportunity to say a few words in the interest of the society.

List of Premiums Now Offered.

\$10.00 cash prize, by an amateur, for best foliage rose in village dooryards.

\$25.00 cup, by F. R. Pierson, Tarrytown, N. Y., for best collection of hybrid Wichuriana.

\$25.00 cup, by H. O. May, Summit, N. J., for exhibit of American seedling rose not introduced.

\$50.00 silver cup, by Robert Simpson, Clifton, N. J., for best collection of Rambler roses.

\$10.00 cash prize by Mrs. S. C. Briggs, for six or more blooms of any new rose never before exhibited.

\$25.00 cup, by Henry F. Michell Company, Philadelphia, Pa., for fifty blooms Richmond rose.

\$5.00 gold piece, by Miss M. I. Hammond, Fishkill-on-Hudson, N. Y., for the prettiest exhibit to be decided by three ladies visiting Washington.

\$25.00 silver cup, by Welch Brothers, of Boston, Mass., for sweepstakes; best vase of roses in the exhibition. BENJAMIN HAMMOND,
Secretary.



R. Gidionsen.

Reinhold Gidionsen, 87 years old, a florist, died at his residence, No. 2201 Arsenal street, St. Louis, Mo., on January 8, 1907, after a brief illness. He had been a resident of the city for thirty-three years. He was born in Schleswig-Holstein, Germany, and participated in the Revolution of 1848. Mr. Gidionsen is survived by a widow, four sons—Albert, Herman, Edward and Oscar—and one daughter.

H. Salmon.

Hearson Salmon died at his home, 177 Milburn street, Rochester, N. Y., January 17, aged 47 years. He leaves, besides his mother, Mrs. Ann Salmon, three brothers, Frank, Walter, and Herbert, and three sisters.

Deceased was for a number of years a trusted employee of Salter Brothers, and had been a great sufferer from asthma. This, combined with a severe attack of la grippe, ultimately caused his death.

The sympathy of the trade is extended to the family in their bereavement. C.

James Braik.

James Braik, Assistant Superintendent of Parks, Buffalo, N. Y., died suddenly at his home, 1263 Elmwood avenue, Wednesday, January 16, 1907.

Capt. Braik, who was 58 years of age, was recently seized with a severe attack of rheumatism from which he was convalescing. His wonted energy returned to such an extent that on the morning of the day on which he died he disposed of a number of business matters, among which was the forwarding to the Park Department of his annual requisition for Spring flower seeds and bulbs.

Capt. Braik was appointed Assistant Superintendent of Parks in 1887. He was born in Scotland, and previous to his arrival in this country he served as a soldier in the British army, in the 79th Cameron Highlanders. He was a prominent member of the local branch of St. Andrew's Scottish Society, having occupied the position of president from November, 1892, till November, 1893. He retained his love for military life and was the first captain of the Gordon Highlanders of Buffalo. He was a past master of a Masonic lodge before going to that city nineteen years ago.

Capt. Braik's breadth of knowledge concerning both the practical and the scientific side of park improvement made him particularly well fitted for his official position. He is survived by his widow.

He was an active member of the Buffalo Florists' Club, and an enthusiastic bowler. At a special meeting of the club, held to take action on his death, the following resolutions were adopted:

"That we have heard with profound sorrow of the death of our esteemed associate James Braik. His long and faithful work in the parks of our city and his upright character have endeared him to his fellow workmen and to the citizens of Buffalo.

"In his death the city loses a faithful, competent and enthusiastic servant, and his associates a staunch friend."

The funeral took place on Saturday afternoon, from the family home, and was under the direction of Lake Erie Commandery.

Jan. 26, 1906.

James Mallon.

James Mallon, known in Brooklyn, N. Y., for over fifty years as a florist and proprietor of the store at Willoughby and Fulton streets, died Saturday noon, January 19, after a lingering illness at his home, 306 State street. Mr. Mallon had been ill for about two weeks and his death was due to a complication of diseases superinduced by old age, he having recently passed his seventy-fifth year.

Mr. Mallon came to this country at the age of 15, with his parents, from County Tyrone, Ireland. His father became engaged in the florist business, and soon turned it over to the younger man, who started the store at Fulton and Willoughby streets, Brooklyn. He later established a greenhouse at 20 Smith street, under the old Bijou Hotel, and for years he was known as the father of the business in the city. About twelve years ago, because of infirmities, he was compelled to give up active business and he turned the store over to his two sons, John P. and Joseph F. Mallon, who have conducted it since.

Although Mr. Mallon did not take an active part, he was at the place of business every day, and during the rush of Christmas week he worked as much as sixteen hours a day. The exertions then, according to the physicians who have attended him, were largely responsible for his weakened condition when attacked by the fatal illness.

Mr. Mallon was married to Miss Bridget Scanlon and they had four children, who now survive them. Mrs. Mallon's death occurred little more than a year ago. Beside the two sons who have taken their father's place in the florist business, they had two daughters—Mrs. Mary Fuery and Mrs. A. G. Piggott.

Since he first came to this country Mr. Mallon has taken a great interest in politics, although he has never held office or been actively engaged in any of the campaigns. He was a fast personal friend of Hugh McLaughlin, one of the old time Democratic leaders of Brooklyn, and he was a member of the Third Ward Young Men's Democratic Club, also of the St. Patrick's Society. His place at Willoughby and Fulton streets was the rendezvous for many of the most prominent men of the city, and to many of them has he proved an adviser, whose words were well worth heeding.

The funeral took place from the Catholic Church of St. Charles Borromeo, of which he was a member, and services were conducted by Father Bobler, the pastor. The interment was made in Holy Cross Cemetery on Tuesday.

The funeral ceremonies were simple and impressive. The services were attended by many relatives and hundreds of friends, among the latter men who are well known in the political world. A simple wreath of lavender lying on the casket was the only floral offering.

OUR READERS' VIEWS

Parentage of Carnation Winsor.

Editor Florists' Exchange:

In the interesting article on the Winsor carnation so ably written by J. I. Donlan, and published in last week's issue, there is a sentence which to me is somewhat puzzling. Mr. Donlan says that Winsor is the result of a cross between Daybreak and Albertini X with Lawson thus making Winsor the proud possessor of two fathers and one mother. I do not profess to be much of a botanist, and it is a few years since I attended an elementary class of botany, yet I have a faint recollection from our lessons on hybridisation that this is an impossibility. Can you enlighten me on the subject?

W. H. WAITE.

[We presume Mr. Donlan meant that the Winsor was the result of a cross of Daybreak and Albertini and that progeny again crossed with Mrs. Lawson, but shall be pleased if Peter Murray, the originator of Winsor, will give the correct parentage of the variety.—Ed.]

Reflections of an Old Reader.

Editor Florists' Exchange:

If we are not remote from civilization, we are in a measure from the centers of floriculture and horticulture. Although we have often desired to visit these brighter lights in person and their establishments, the opportunity is not always at hand. The next best thing is to light our pipe and take The Florists' Exchange and other papers and read the topics of the day. Your intensely interesting arti-

cles on the different topics in connection with the trade, also Timme's Timely Teachings, Job's Reflections on Current Topics, etc., are always highly interesting. By-the-by Mr. Timme did not respond to the request of one of the readers of The Florists' Exchange in regard to the publication of his portrait. We presume he is like ourselves, going down the western side of the hill of life. In his Timely Teachings of January 12, in reference to Christmas, he mentions the past of fifty years ago. We old-timers would prefer the company of those of our own age, more than that of the present generation; it is a little more congenial.

Another old-timer you mention in your very interesting article on Mr. Wintzer is J. R. Trumpy. I remember Mr. Trumpy had a reputation as the best propagator in the United States over thirty years ago, when I was in the trade around Boston. I quote what you say, "Mr. Wintzer inherited a genius for finding out the requirements of plant life." This is what all of us florists and gardeners need to do—an important text for every young florist. The world is a trial ground or school, and we are all practitioners or students, always learning and always forgetting.

We would say to Mr. Timme, to Job and other valuable contributors to The Florists' Exchange, go on with your contributions, and we will be intensely interested in reading them until our harvest of life is past and our Summer is ended. Such is the desire of
J. B. BEBBINGTON.

Fredericton, N. E.

For McKinley Day.

Daniel B. Long of Buffalo, N. Y., sends us a sample of his show card calling attention to "Carnation Day," as McKinley's birthday, January 29, has come to be named. The card shows a portrait of the martyred President bordered with carnation flowers in color. This is an excellent advertising sign for the occasion to which it refers, and as such should prove of great value to retail florists.



The Late James Braik

American Carnation Society Prize List.
Class A—100 Blooms.

White—First, Chicago Carnation Co., Joliet, Ill., with White Perfection; second, J. D. Cockcroft, Northport, L. I., with Georgia.

Enchantress shade of Pink—First, Chicago Carnation Co., with Enchantress; second, John E. Haines, Bethlehem, Pa. with Pink Imperial.

Lawson shade of Pink—First, Chicago Carnation Co., with Aristocrat; second, John Riemels, Woodhaven, N. Y., with Winsome.

Scott shade of Pink—First, F. R. Pierson Co., Tarrytown, N. Y., with Winsor; second Stafford Flower Farms, Stafford Springs, Conn., with Enchantress.

Scarlet—First, Cottage Gardens Co., Queens, N. Y., with Robert Craig; second, same firm, with Beacon.

Crimson—First, Cottage Gardens Co., with Creole Beauty; second, J. D. Cockcroft, with Harvard.

There were no entries in the yellow variegated and white variegated classes.

Any other color—First, John E. Haines with Pink Imperial.

Class B—50 Blooms.

White—First, Chicago Carnation Co., with White Perfection; no second.

Enchantress shade of Pink—First, Chicago Carnation Co., with Enchantress; second, Dale Estate, Brampton, Ont., with the same variety.

There were no awards in the classes for fifty blooms Lawson shade of pink and fifty blooms Scott shade of pink.

Scarlet—First, Guttman & Weber, Lynbrook, L. I., with Victory; second, F. R. Pierson Co., with Red Lawson.

In the classes for crimson, yellow variegated, white variegated and any other color, no awards were made.

Class C—25 Blooms.

White—First, Chicago Carnation Co., with White Perfection; second, Dale Estate, with White Lawson. There was no award in this class for Enchantress shade of pink.

Lawson shade of Pink—First, Dale Estate, with Pink Lawson; no second.

No award was given for Scott shade of pink.

Scarlet—No first; second, Dale Estate with Flamingo.

Crimson—First, E. Crowhurst, with Harlowarden; second, Dale Estate, with Governor Roosevelt.

Yellow variegated—No first; second, Dale Estate, with an unnamed seedling.

There was no award for white variegated.

Any other color—First, Dale Estate, with Nelson Fisher; no second.

American Carnation Society Medals.

Silver medal for 100 blooms any variety, any color—Cottage Gardens Co., with Alma Ward.

Bronze medal, for same number of blooms—Dalle-douze Brothers, Flatbush, N. Y., with No. 348.

Medals of Society of American Florists.

Silver medal for fifty blooms of a variety not yet disseminated—Cottage Gardens Co., with Alma Ward.

Bronze medal, for same number of blooms—Baasett & Washburn, Chicago, with seedling No. 20.

Special Prizes.

The silver cup, valued at \$50, donated by the Canadian Horticultural Association for six vases of 50 blooms in each, distinct varieties—F. R. Pierson Co., with Winsor.

The Steele, Briggs Seed Company, Toronto, silver cup, valued at \$25, for six vases 25 blooms each, distinct varieties—W. J. Lawrence, Eglinton, Ont.

The Montreal Gardeners and Florists' Club cup, valued at \$25, for the exhibitor making the largest display in all classes, being counted as part toward this display was won by the F. R. Pierson Co., Tarrytown, N. Y.

The R. W. King Co. Toronto, Ont., silver cup, valued at \$25, for the best 100 carnations in four varieties, four vases, competition restricted to the users of King's greenhouses—W. J. Lawrence.

The Dale Estate, Brampton, Ont., silver cup, valued at \$25, for vase of 100 blooms of the best carnation to be disseminated during 1907—The Cottage Gardens Co., with Beacon.

John H. Dunlop, Toronto, ten dollar prize for best vase of 50 blooms, distinct from other entries—Richard Witterstaetter, Sedamsville, Ohio, with Aristocrat.

W. Gammage, London, Ont., \$10 prize for best 25 blooms, pink seedling or sport darker than Enchantress and lighter than Lawson, never before winning a prize or medal—Dalle-douze Brothers, with No. 348.

The \$10 prize offered by W. J. Lawrence, Eglinton, Ont., for best vase 50 blooms, not more than three varieties, open to growers having less than 20,000 feet of glass, was won by E. Crowhurst.

The John H. Dunlop prize of \$5 for best vase of 12 blooms open to private gardeners only—M. Tierney, with Mrs. Robert Hartshorne.

The Vair \$5 prize for best vase of 25 red carnations was won by Guttman & Weber, New York, with Victory.

Certificate of Merit.

John Riemels, Woodhaven, N. Y., pink seedling No. 32, scored 86 points.

Afterglow, light cerise, exhibited by William Nicholson, Framingham, Mass., scored 87 points.

No. 99, Bay State, exhibited by A. Roper, Tewksbury, Mass., scored 85 points.

Toreador, exhibited by H. Weber & Sons, Oakland, Md., scored 86 points.

The judges were Messrs. Eugene Dalle-douze, J. A. Valentine, W. N. Radcliff, Fred Burt, and C. F. Guenther, the late staging of the exhibits making it imperative that extra judges be elected. William Scott, of Buffalo, who was to have acted as judge, was kept at home by sickness. William Nicholson, of Framingham, Mass., also one of the judges, was with the Boston party, consequently did not arrive in time.

Miscellaneous Exhibits.

J. A. Peterson, of Cincinnati, showed varieties of begonias, Adiantum Farleyense, and Carnation Aristocrat.

A. Gilchrist, Toronto, exhibited Nephrolepis Whitmanii and Adiantum Mariessii.

The Steele-Briggs Seed Co., Toronto, staged a splendid collection of Primula obconica.

W. J. Palmer, Buffalo, had a sport from Mrs. Thomas W. Lawson like Prosperity in its markings, but not as large as that variety; also a pink sport of Lawson of a pleasing shade of color.

The King Construction Company made an exhibit of a section of their greenhouses, showing style of construction, etc.

The Baur Floral Co., Erie, Pa., exhibited their clips and pliers for mending split carnation blooms. Maxfeld & Dizon, of Warren, R. I., showed their brass calyx holder. W. H. Grever, Buffalo, staged some of his ever-ready pot covers.

The Bedford Park Floral Co. had a beautiful vase of Richmond roses. The E. G. Hill Co., Richmond, Ind., staged a vase of the new rose Rhea Reich.

The Editor of our esteemed contemporary, The Florists' Review, has registered a "kick" concerning the publication in his columns of duplicate "manuscripts and illustrations sent simultaneously to all the papers." We laud the stand our Chicago friend has taken, but hope the benefits to trade journalism to be expected from this step will not stop here. Duplication of advertisements, without authority, would seem to be as "useless" as duplicate reading matter. Then again, news appearing a week previously in other papers, worked over and presented as original the following week, would appear to be as "useless" and of so little interest that to "expect any one to read" them would be as great an imposition as any of the journalistic drawbacks herein referred to.

OUR CARNATION NOVELTIES FOR 1907

Winsor, White Enchantress, and Helen M. Gould

ONE way to judge carnations is to see them on the exhibition tables. A better and more convincing way is to see them growing; therefore we cordially invite all carnation growers to visit us and judge for themselves regarding the superiority of the above-named sorts.

Our carnation houses are at **Scarborough-on-Hudson** (not Tarrytown). Friends who desire to visit us can take the N. Y. C. & H. R. R. R. from New York. Trains leave there every half hour. Scarborough is the first station north of Tarrytown. Our grounds adjoin the station, and the greenhouses are about five minutes walk from the station.

We are growing **25,000 plants of Winsor** for cut flowers, alone, for the New York market this season, which shows the faith we have in it. This will also enable visitors to see it growing in quantity, and, besides that, will give us enough plants to get a great abundance of fine, healthy cuttings without over-propagating. We have already booked a large quantity among the large growers, and anticipate for this variety the largest sale of any new carnation that has ever been distributed, as large growers who have seen it are enthusiastic in regard to its value. Those who have seen it have immediately placed large orders for it, so we recommend those who have not ordered to place order without delay, so as to ensure early delivery.

For full description of these three valuable novelties, see our wholesale price list. Of course, we shall have all of these varieties on exhibition at Toronto, where they can be seen, and where they will speak for themselves.

WHOLESALE PRICES ROOTED CUTTINGS SPRING 1907

- Winsor.** Soft silvery pink. The best color, best keeper, best shipper, best seller—best every way. \$12.00 per 100, \$100.00 per 1,000.
- White Enchantress.** Has the large size, long stem, productive habit of Enchantress, but is pure white. \$12.00 per 100, \$100.00 per 1,000.
- Helen M. Gould.** A beautiful sport of Enchantress. Ground color lovely shade of silvery pink, with very fine pencilings of carmine, making an exceedingly exquisite combination. While on close observation this variety is variegated, the general effect is one beautiful tone of dark pink. Exceedingly valuable, because it combines the earliness, freedom, long stem, and large size of Enchantress, giving another color possessing all the other desirable qualities of Enchantress. \$12.00 per 100, \$100.00 per 1,000.
- Beacon.** Orange-scarlet. A vigorous, healthy grower, of ideal habit. A profuse bloomer, with long stems. \$12.00 per 100, \$100.00 per 1,000.
- Aristocrat.** Cerise-pink. Will be planted largely in place of Lawson. \$12.00 per 100, \$100.00 per 1,000.
- Melody.** Daybreak sport of Lawson, about the same color as Enchantress, but much brighter, and does not fade like Enchantress. Also a much better keeper and shipper. Those who grow the Lawson varieties exclusively will find this very valuable and desirable, because it gives an improved Enchantress color, which is so popular, and at the same time can be grown in the same house with the other Lawsons. An extra fine thing in every way and in great demand. A great addition to the Lawson class. \$10.00 per 100, \$75.00 per \$1,000.
- Rose Pink Enchantress.** A sport of Enchantress. Color, dark rose-pink. \$7.00 per 100, \$60.00 per \$1,000.
- White Perfection.** A novelty of 1906, and a variety for which there is a great demand this season. A third larger than Lady Bountiful and a more perfect flower. \$6.00 per 100, \$50.00 per 1,000.
- Victory.** Scarlet. This is giving great satisfaction, being a free blooming, profitable scarlet. \$6.00 per 100, \$50.00 per \$1,000.
- Red Lawson.** A fine red. Our stock of this is superior to many stocks of Red Lawson that we have seen. \$4.00 per 100, \$30.00 per 1,000.
- Variegated Lawson.** The most productive of the variegated sorts. A favorite. Outblooms Mrs. M. A. Patten. \$4.00 per 100, \$30.00 per 1,000.
- White Lawson.** An excellent white. \$4.00 per 100, \$30.00 per 1,000.
- Lady Bountiful.** Pure white. \$4.00 per 100, \$30.00 per 1,000.
- Enchantress.** \$3.00 per 100, \$25.00 per \$1,000.
- Mrs. M. A. Patten.** \$3.00 per 100, \$25.00 per 1,000.
- Mrs. Thos. W. Lawson.** \$3.00 per 100, \$20.00 per 1,000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

BEACON CARNATION

(ORANGE-SCARLET)

ORIGINATED AT

ELLIS, MASS.

Has Again Demonstrated Its
Commercial Value

**Try
Beacon**

*If only a few.
You'll want all
you can raise
another season*

*One of the
Most
Productive
Carnations
ever
offered*

THIS SEASON 1906-7

It has been grown and tested by the following:

The Cottage Gardens Co., Queens, N. Y. 5000 plants
Mr. E. A. Stroud, Stratford, Pa. 1000 "
The Park Floral Co., Denver, Col. 50 "

PRICES

Per 100	.....	\$ 12.00, 50 at 100 rate
" 1000	.....	100.00, 250 at 1000 "
" 2500	.....	95.00 per 1000 "
" 5000	.....	90.00 "
" 10,000	.....	80.00 "

WE ARE PREPARED TO MAKE PROMPT DELIVERY

THE COTTAGE GARDENS CO.
QUEENS, N. Y.

SEND FOR DESCRIPTIVE CIRCULAR

PETER FISHER
ELLIS, MASS.

MENTION THIS PAPER

Selected Carnation Cuttings

FROM FLOWERING STEMS ONLY

JANUARY DELIVERY

	Per 100	Per 1000
3000 Beacon	\$12.00	\$100.00
5000 Robert Craig	6.00	50.00
5000 Enchantress	2.50	20.00
2000 Mrs. Patten	2.50	20.00
500 Variegated Lawson	6.00	50.00

	Per 100	Per 1000
1000 Variegated Lawson	6.00	50.00
1000 Lieut. Peary	3.50	30.00
4000 Winsor, January rooted from two in. pots, extra fine stock, at \$12.50 per 100.		

MARCH DELIVERY

	Per 100	Per 1000
7500 Beacon	\$12.00	\$100.00
5000 Robert Craig	6.00	50.00
3000 Octoroon	2.50	20.00
4000 Enchantress	2.50	20.00
2000 Mrs. Patten	2.50	20.00

	Per 100	Per 1000
7500 Beacon	\$12.00	\$100.00
5000 Robert Craig	6.00	50.00
3000 Octoroon	2.50	20.00
4000 Enchantress	2.50	20.00
2000 Mrs. Patten	2.50	20.00
1000 Variegated Lawson	6.00	50.00
1000 Lieut. Peary	3.50	30.00

When above are sold we shall have no more Carnation Cuttings to offer.

COTTAGE GARDENS COMPANY
QUEENS, N. Y.

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

Ready for Delivery

	100	1000	100	1000
Enchantress	\$2.50	\$20.00	Victory	\$6.00 \$50.00
Enchantress, rose pink	7.00	60.00	Cardinal	3.50 30.00
Lawson, pink	2.00	15.00	Lady Bountiful	3.00 25.00
Gonsalvo Lord	2.00	15.00	Boston Market	2.00 15.00
Helen Goddard	5.00	45.00	Queen	2.00 15.00
Robert Craig	6.00	50.00		

We can furnish cuttings of all the Standard Varieties

Send for Price List

THE LEO NIESSEN CO.

1217 Arch Street, Philadelphia

Mention the Florists' Exchange when writing.

CARNATIONS

	Per 100	Per 1000
VICTORY	\$5.00	\$45.00
ABUNDANCE	4.00	35.00
ENCHANTRESS	2.50	20.00
HARLOWARDEN	1.25	10.00
PROSPERITY, rooted to order.		10.00
CANNAS—Robusta \$1.00 per 100, \$10.00 per 1000;		
Eisele, Marlborough, Anstris, Christie, Queen		
Charlotte, each \$1.50 per 100, \$15.00 per 1000.		
KRAMER BROTHERS, Farmingdale, L.I. N.Y.		
Mention the Florists' Exchange when writing.		

ABUNDANCE

Rooted cuttings of the most prolific white carnation will be ready for delivery in January. Price, \$5.00 per 100; \$40.00 per 1000; 250 at 1000 rate; 5 per cent. discount for cash with order.

RUDOLPH FISCHER, Great Neck, L.I., N.Y.

Mention the Florists' Exchange when writing.

S. J. GODDARD
Framingham, Mass.

Rooted Carnation Cuttings a Specialty.

Correspondence Solicited.

Mention the Florists' Exchange when writing.

CARNATIONS

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

Mention the Florists' Exchange when writing.

Chicago Carnation Co.

A. T. PYFER, Mgr.
JOLIET, ILL.

Mention The Florists' Exchange when writing.

Carnation Specialists
Only the best varieties grown. Rooted cuttings ready now.
OUR PRICE IS GOVERNED BY QUALITY

AMERICAN CARNATION SOCIETY

Sixteenth Annual Meeting
January 23-24, 1907
Toronto, Ont.

FULL REPORT
OF THE
PROCEEDINGS
AND
EXHIBITION

Fred H. Lemon elected
President for 1907
Next place of Meeting
Washington, D. C.

The meeting of the American Carnation Society, held in Toronto Wednesday and Thursday, January 23 and 24, was favored with beautiful weather. All the delegates arrived in good season, excepting those from Boston, who were five hours late, consequently no flowers from that city were in competition. The general condition of the blooms was not equal to that seen at previous exhibitions; this was accounted for by the unfavorable weather prevailing in all parts of the country. Every grower exhibiting is free to confess that the weather conditions were never before so detrimental to the production of good stock.

F. R. Pierson Company, C. W. Ward, Dale Estate and the Chicago Carnation Company were the largest exhibitors. Mr. Pierson showed Winsor both in the competitive classes and in decorative work. J. I. Donlan arranged a mantel decoration with this variety in a very artistic manner. The mirror was oval in shape; at the lower left hand corner was a specimen plant of *Nephrolepis elegantissima*; single fronds of this fern with carnation foliage being the only other green material used. The mantel was much admired.

The large pink carnation of Dailledouze Brothers showed up fairly well and was the winner of two prizes. A white carnation named Georgia, exhibited by J. D. Cockcroft, Northport, L. I., appeared to good advantage; and the scarlet carnation Mrs. Robert Hartshorne, exhibited by M. Tierney of Highlands, N. J., was awarded a special prize. Pink Imperial as staged by John E. Haines of Bethlehem, Pa., showed up fairly well; but the most admired flowers in the exhibition were Alma Ward, Winsor, Beacon and No. 348.

Opening Session.

The sixteenth annual meeting opened in the City Hall, Toronto, Canada, on January 23, 1907. The first session was held at 8 p. m. There was a large attendance, and the business was put through in excellent shape by President Dunlop.

R. J. Score, chairman of the allied societies, opened the meeting and introduced the Lieutenant-Governor of Ontario, the Hon. Mortimer Clarke, who spoke as follows: "I accept the invitation to preside with very great pleasure indeed because I am myself a lover of flowers, and I like to meet those who have the same taste. As I passed through the room to-night and saw the beautiful specimens of carnations I certainly thought that there is a great deal of truth in the old English adage that 'Flowers bloom best for those who love them.' I have very great pleasure also in welcoming to our city many of you ladies and gentlemen from the other side of the line. We on this side desire to be on friendly terms with our neighbors, and day by day I am very glad to see the good feeling between the two countries seems to be increasing. When we remember that we are influenced by the same aspirations, thoughts and feelings, we begin to feel that the line dividing us is at least an imaginary one. I presume if the carnation will bloom on both sides of the line there cannot be very much difference between the two countries. The great question agitating both countries is better commercial relations between us.

"I don't see why there should be any barriers between the two countries to interfere with the free interchange of commerce. These barriers are relics of the middle ages and ought not to exist between two such countries as Canada and the United States. (Hear, hear.) I can assure you we have nothing but kindly feelings toward you, and the oftener we meet and interchange our thoughts and ideas the better it will be for both countries; and when we unite in the cultivation of a flower so beautiful and charming as the carnation, I feel this will be a very beautiful and delicate and fragrant bond of union between the two countries." (Applause.)

Mr. Score regretted the absence of the Mayor owing to a very important engagement, and introduced the chairman of the reception committee, Alderman J. J. Graham, who extended to the society the city's very cordial and hearty welcome on behalf of his worship the Mayor and expressed the wish that the association's short stay would be a very pleasant and profitable one to the members. Last year they had over 100,000 delegates attending Toronto at various con-

ventions, and a very large percentage of these were composed of delegates from across the line. They found that the relationship that at one time was termed that of cousins had grown a little nearer, and today they were recognized as brothers and sisters, so that there was very little difference between the two countries. (Applause.)

Mr. Score supported the welcome on behalf of the allied societies and stated that he for one would like the geographical line burned off with friendship and to see the old flag that had braved a thousand years and the star spangled banner twined together. (Applause.)

C. W. Ward of Queens, N. Y., returned thanks on behalf of the Carnation Society and said in part: "I perhaps have appreciated the remarks which I have heard from the tongues of the eminent gentlemen more than anything I have ever heard before, for the reason that not long since in discussing the relationship existing between Canada and the United States some of my friends expressed doubts about the future; but the words of welcome I have heard here in the past few minutes have erased from my mind all the doubts brought forth by these expressions heard on the other side of the border." Mr. Ward described at length the great wood and coal resources and the vast grazing lands and grain-raising districts of Canada and stated that the homogeneous race they had in Canada and the United States precluded any such race differences as existed on the European continent. Concluding he said: "We visiting carnationists from the United States thoroughly appreciate the hearty welcome and we all of us have come to the conclusion that when we decided to honor our American Carnation Society we made no mistake when we elected as our president your honored and worthy townsman, Mr. Dunlop." (Applause.)

Fred. Lemon, on behalf of the members of the Carnation Society from the United States, also returned thanks, particularly on behalf of that large contingent of members from the vast region west of the Allegheny mountains. They of the United States were proud to come to Canada and if the representatives of the Dominion and the city and the Toronto Gardeners and Florists' Association could discover in his poor thanks the ring of sincerity so marked in their words of welcome he would be content. (Applause.)

President Dunlop here took the chair and read his address, which was received with applause.

President's Address.

Ladies and Gentlemen, Members of the American Carnation Society: It is with more than ordinary pleasure I welcome you to this the Sixteenth Annual Convention of this progressive and important organization. At our last convention at Boston words of welcome were extended by His Worship the Mayor, by the Secretary of the Massachusetts Horticultural Society (in the absence of its president), the president of the Gardeners and Florists' Club, and replied to by members of this society, men who have by their untiring zeal endeared themselves to us, and who have by perseverance and industry advanced to that high plane which few of us hope to attain. I refer to the Boston welcome on account of the historical connection and the traditional history of that good old commonwealth. But you are welcomed to-night to one of the newer or more modern cities, one that is only beginning to feel the impulse of commercial activity and has not that traditional history of which our last convention city could boast; but none the less hearty and loyal Toronto welcomes you with the true British hospitality that is ever found where the Anglo-Saxon tongue is spoken. Let me here express this wish, may the ties that bind the two greatest English speaking nations, of which Canada is a part and I may say the brightest gem in the British crown, never be severed but be welded more closely together in the bonds of love, esteem, friendship and commercial union.

Pleasing the Public.

We feel highly honored in having you with us on this the first time that the society has met outside of the United States, more especially so as the membership from the Dominion has been very

small. It was not the numerical strength of the Canadian members that brought the convention to Toronto, but the good feeling, the magnanimous spirit and the desire to assist in showing the people of this country the progress and improvement that has taken place in the development of the divine flower. It is of the greatest importance that the educational feature of such an exhibition of carnations as we have in the exhibition hall should be taken advantage of, not only by those who are growing them, but also by the public, who are our best critics; for it is they who are our support and to them we look for approval of our product. No matter how much we cherish any particular variety, it is the public we have to please and whom we should encourage to see the flowers in all stages of development at our greenhouses, and to express their opinion on what we are producing, criticising as it were, thus becoming familiar with the varieties by name, color, etc. And the public like to be consulted and have a knowledge of the different varieties.

We have long looked forward to this time when we could present such a magnificent show and bring to our city the men who have been instrumental in producing such grand flowers, men who are revered by every lover of the divine flower and whose names will ever be remembered as those who by their love and devotion to their chosen calling have given to the world the best that has ever been.

The Certificate Again.

There are not many things that I can speak of in this address that would be considered new, as we on this side feel ourselves students and desire to be taught; but there is one matter of particular importance to all and I feel that we should find a solution or formulate a plan by which we can put it in operation in an intelligent and practical way. It is, "What should qualify a new variety for the American Carnation Society's certificate of merit?" What has been said and done at previous conventions along this line has hardly been satisfactory, or has been found to be defective in some particular. At our last convention at Boston a committee was named to bring in a report, but it was submitted at the last afternoon session, too late to receive that attention a question of so much importance deserves. It should be considered both from the originator's and the buyer's standpoint. The man who devotes his time and brains to the hybridizing of carnations should receive every encouragement from the society, also the grower who buys the new varieties largely from the description of the originator and from the awards that have been made both by this society and at the various exhibitions at which the variety was shown. It may have scored high as seen at the various exhibitions, but there may be some of the most essential points of a first-class commercial variety lacking. The question is, How are we to arrive at a solution? How are we to ascertain if the variety contains the points that go to make up a profitable carnation for the average commercial grower? These should be carefully considered, and when the certificate is awarded it should be a guarantee that these points have been ascertained and proven. The more closely we guard our awards, the more closely we scrutinize these points, so much more will the trade generally rely confidently on the endorsement of this society; and the value of any variety having the endorsement of this society be enhanced. But let us guard jealously the awarding of this certificate, and let it be all that the name implies. We know how closely every award is made, how closely every point is scrutinized in the old land and as a result the award is accordingly prized by the recipient, for he knows his product has been deserving or it would not receive the award.

Work of the Secretary's Office.

Another matter that should receive our attention is the increasing work of the secretary. With the growth of the society his work has increased in a much greater ratio. During the short time I have held office as your president I know the amount of correspondence must be considerable, as from my end he has had reason to know we were working. Then there are the compiling of the premium list, soliciting advertisements, etc. the compiling of the annual report and the preparatory work for each convention, etc. It might be well for this meeting to consider the question and suggest some means of lightening the work either by granting an assistant for a stated time each year, or the purchase of labor-saving appliances, not to exceed a certain sum to be named by the Society. Above all, let us recognize our secretary's ability and make him feel by our words and actions that we appreciate his services. Nothing makes one feel more energetic than to know he has your sympathy and support.

This convention will have served its purpose if it stimulates a still greater interest in the divine flower in our broad Dominion. We have not been as quick to recognize the importance of the carnation as our American brethren and for that reason the development has not been as great as we would desire. We hope that in visiting the greenhouses of this section where carnations are grown you will criticise our work and not be slow to point out our mistakes.

We note with interest the popularity of the carnation in England, also that the American varieties are being largely grown, and from the comments in the horticultural press these varieties are giving very general satisfaction.

I trust that your stay with us may be both pleasant and profitable and I thank you for the honor conferred on me by electing me your president. Before concluding I also wish to thank the gentlemen composing the different committees who have worked so harmoniously and zealously in completing the arrangements for this convention. [Applause.]

On motion of F. E. Dorner, discussion of the report was deferred until Thursday.

The secretary then read his report. On motion of Mr. Ward the report was received and adopted.

The treasurer's report was next read, and duly approved.

Treasurer's Report.

Permanent Fund.	
Amount reported Jan. 20, 1906.....	\$1,996.21
Cash received	29.10
	\$2,025.31
WORKING FUND.	
Cash on hand Jan. 20, 1906	\$317.08
Received Jan. 20th to March 21st by treasurer	\$477.00
Received from Albert M. Herr, secretary	601.42 \$1,078.42
	\$1,395.50
EXPENDITURES.	
Paid 42 orders on treasurer.....	\$1,005.39
Balance, cash on hand.....	390.11
	\$1,395.50
F. E. DORNER, Treasurer.	

The secretary read the minutes of special sessions not embodied in the annual report, being a report of a special meeting held in Dayton, last August. Mr. Ward moved and Mr. Lemon seconded its adoption.

John Birnie's paper was read by Herman Simmers. Discussion being invited, Mr. Rudd said: "I want to go on record as saying that there are a lot of people expecting to get too much for their two dollars per out of this society. This society cannot undertake to furnish brains or sense and business experience to the trade at large for two dollars per year. This society cannot undertake to cover the United States of America and say whether a carnation is a good commercial variety or not until tested in commerce. I have not any patience with that sort of thing. The country is too big. You might as well have it understood that this society cannot put the seal of commercial value on carnations. Certificates do not and never will mean commercial value. I think, perhaps, discussion had better be deferred until the matter comes up in the regular order of business to-morrow." Moved by Mr. Gillett, seconded by Mr. Dorner, that discussion be deferred until Thursday.

Choosing next Meeting Place.

An invitation for the next annual meeting place was given by John Bertermann on behalf of Indianapolis, supported by Mr. Dorner. The secretary read two communications from Washington signed by Peter Bisset and C. McCauley of the Florists' Club, inviting the convention to Washington. W. Weber also extended an invitation to Washington. He understood Mr. Gude was to have spoken on the matter, but he had been side-tracked somewhere. Mr. Ward suggested the Indianapolis representatives should waive their claims in favor of Washington. Mr. Gillett, while respecting the claims of Washington, considered the next convention should be held in Indianapolis.

Nomination of Officers.

In the nomination of officers, for president, Mr. Ward moved and M. A. Patten seconded the nomination of W. F. Gude. Mr. Weber nominated J. R. Freeman of Washington. J. S. Wilson moved and W. N. Rudd seconded the nomination of F. H. Lemon. For vice-president, Adolph F. J. Baur was nominated. For secretary, Mr. Ward nominated the present incumbent, Mr. Herr. For treasurer, Mr. Ward nominated Fred. E. Dorner. For one director, William Gammage, London, Ont., was nominated, and for one judge, the present incumbent, W. N. Rudd.

W. Gammage then read his paper.

The report of the judges was read by the secretary.

A discussion followed on the proper color classification of Nelson Fisher, participated in by Messrs. Rudd, Ward and Dailedouze; ultimately a committee, composed of Messrs. Rudd, Ward and Lemon, was appointed to formulate definitely the society's idea as to what the division of color should be, and to present their report at to-morrow morning's meeting.

Owing to the lateness of the hour the question box was held over until to-morrow. The meeting then adjourned.

Second Day's Proceedings.

The delegates at the morning session of the second day were called to order by President Dunlop at 11 o'clock. Messrs. Gillett, Gammage and Swayne were appointed a committee on final resolutions.

The report of the committee on new rules for judging varieties for certificates was to the effect



Fred H. Lemon,
President-elect A. C. S.

that the members of the committee had been unable to come to a unanimous decision, and they requested to be discharged. A discussion ensued participated in by Messrs. Valentine, Rudd, Pendley, Harvey and Nicholson; ultimately on motion of Mr. Gammage, seconded by Mr. Asmus, the report was received and the committee discharged.

The report of the special McKinley fund committee, appointed at Brooklyn in 1903, in reference to the raising of a fund among florists for the caring of the grounds around the McKinley memorial, now in course of erection at Canton, O., was read by Mr. Altick, who spoke at length urging the importance of the fund in relation to the society. On motion of Mr. Rudd the report was unanimously received. Secretary Herr moved that a contribution of \$100 be made by the society to the fund, which was unanimously carried. The committee was discharged.

Mr. Rudd read the report of the committee on color classification, appointed yesterday. A discussion thereon was participated in by Messrs. Dailedouze, Rudd, Nicholson, Weber and Wilson. Mr. Nicholson moved as an amendment that the word "maroon" be stricken out, but the report was adopted as submitted.

The report of the committee on nomenclature was discussed by Messrs. Rudd, Stewart, Valentine and others. George Asmus moved, and the motion carried, that no carnation be eligible for exhibition before the society unless properly registered with the society either previous to or at the meeting, by name.

The committee's recommendation that all names registered before 1896 be eliminated from the society's working list was opposed by Mr. Weber, and a motion to that effect made by him.



Peter Bisset,
Vice-President-elect A. C. S.

The suggestion of the committee that the name "Welcome" registered provisionally by Dailedouze Bros., receive final registration, was adopted on motion of Mr. Hauswirth. Mr. Gammage moved that the committee's report as amended be accepted.

The president read a telegram from Peter Bisset, president of the Washington Florists' Club, extending an invitation to the society to meet in that city in 1908.

A letter was received from Peter Fisher, of Ellis, Mass., expressing regret at his inability to be present through sickness.

Mr. Valentine moved that the resolution passed a year ago regarding visiting committees to growers be revoked. The motion was carried.

Message of Sympathy to Wm. Scott.

A message of condolence was, on motion of Mr. Asmus, sent by the secretary to William Scott, of Buffalo, who was to have acted as judge, Mr. Scott having been afflicted with a severe stroke of paralysis.

R. W. King, Toronto, then read his paper on "Greenhouse Construction," but as the time was limited there was little discussion on it.

Washington

was selected as the next place of meeting.

Election of Officers

The officers elected for the ensuing year were: President, Fred H. Lemon, Richmond, Ind.; vice-president, Peter Bisset, Washington, D. C.; secretary, Albert M. Herr, Lancaster, Pa.; treasurer, Fred E. Dorner, Lafayette, Ind.; director, Wm. Gammage, London, Ont.; judge, W. N. Rudd, Mt. Greenwood, Ill.

The flowers from Boston arrived this morning and were staged.

The visiting ladies were treated to a theatre party; and the delegates invited to visit the Dale Estate at Brampton, Ont., on Friday morning. Many intend taking a look at this immense establishment.

A banquet tendered to the delegates was held at the Queen's Hotel, on Thursday evening, and was largely attended.

Those Present.

- Altick, H. M., Dayton, Ohio.
 - Ashworth, J., Tippecanoe City, Ohio.
 - Asmus G., Chicago.
 - Bates, Guy, Cleveland, O.
 - Baur, A. F. J., Indianapolis, Ind.
 - Bennett, Jos., Montreal.
 - Benson, A. N., Chicago.
 - Berkowitz, Paul, Philadelphia
 - Bertermann, J., Indianapolis, Ind.
 - Brown, E. G., Hamilton, Ont.
 - Buerlein, J. A., Elmhurst, N. Y.
 - Buerlein, P., Elmhurst, N. Y.
 - Bunyard, H. A., New York
 - Burki, E., Gibsonia, Pa.
 - Butterfield, S. S., New York
 - Craig, W. P., Philadelphia
 - Crall, C. A., Monongahela, Pa.
 - Dailedouze, Mr. and Mrs. E., Flatbush, N. Y.
 - Doulan, James I., New York
 - Donlan, J. I., New York
 - Donovan, W., Buffalo, N. Y.
 - Dorner, F. E., Lafayette, Ind.
 - Dorner, Theo., Lafayette, Ind.
 - Dudley, Chas. P., Clarksburg, Va.
 - Elverson, H. H., Pittsburg, Pa.
 - Field, Mr. & Mrs. H. W., Northampton, Mass.
 - Fotheringham, J. R., Tarrytown, N. Y.
 - Fraser, J. A., Kalamazoo, Mich.
 - Gillett, E. G., Cincinnati, Ohio.
 - Gingrich, I., South Bend, Ind.
 - Glauber, E., Denver, Colo.
 - Goddard, S. J., Framingham, Mass.
 - Grassel, A. O., Barneveld, N. Y.
 - Guenther, C. T., Hamburg, N. Y.
 - Guttman, A. J., New York
 - Haines, J. E., Bethlehem, Pa.
 - Halstead, Dr. A. S., Belleville, Ill.
 - Hart, H. A., Cleveland, Ohio
 - Hauswirth, Mr. and Mrs. P. J., Chicago.
 - Herr, A. M., Lancaster, Pa.
 - Herr, D. K., Lancaster, Pa.
 - Kasting, W. P., Buffalo, N. Y.
 - Kill, Mr. & Mrs. Leonard, Chicago, Ill.
 - Kroninger, E. N., Allentown, Pa.
 - Kruger, H. J., Meadville, Pa.
 - Lantenschlager, F., Chicago, Ill.
 - Lemon, F. H., Richmond, Ind.
 - Longren, A. F., Joliet, Ill.
 - Lorch, A. N., Pittsburg, Pa.
 - McConnell, E., Sharon, Pa.
 - McKenna, J., Montreal.
 - Markuisse, I. E., Syracuse, N. Y.
 - Merkel, C. W., Mentor, Ohio.
 - Michell, F. H., Philadelphia, Pa.
 - Miller, F. C., Bracondale Ont.
 - Olsen, Peter, Larchmont, N. Y.
 - Palmer, W. J., Buffalo, N. Y.
 - Patten, M. A., Tewksbury, Mass.
 - Peake, W. J., Buffalo, N. Y.
 - Peirce, E. A., Waltham, Mass.
 - Pennock, S. S., Philadelphia.
 - Peterson, Mr. and Mrs. J. A., Cincinnati, O.
 - Pierson, F. R., Tarrytown, N. Y.
 - Poehlmann, A. F., Chicago.
 - Pollworth, J. E., Milwaukee, Wis.
 - Porter, H., Grand Rapids, Mich.
 - Pyfer, A. F., Joliet, Ill.
 - Reimels, John, Woodhaven, N. Y.
 - Reuter, S. J., Westerly, R. I.
 - Roper, A., Tewksbury, Mass.
 - Rudd, W. N., Mt. Greenwood, Ill.
 - Warburton, Mr. & Mrs. C., Fall River, Mass.
 - Weber, W., Oakland, Md.
- Others in attendance were: Cameron, Alex.; Cloudsley, J. R.; Hogan, T. M.; McDonald, W.; Nolan, D.; Nopfield, W.; Sears, D. I.

Are There Too Many New Carnations Introduced?

BY JOHN BIRNIE, WEST HOBOKEN, N. J.

Are there too many new carnations introduced? This is the question put to me by the American Carnation Society. I think it will be quite safe to give a negative answer to the question.

Perfection Not Yet Reached.

Beautiful as the American carnation is at the present time the summit of perfection has not yet been reached and generations yet to come will find the goal still in front of them. There was a time—some fifteen or more years ago—that carnation growers throughout the country looked a little askance at the "new carnation," and not without good reason. We had at that time an avalanche of new carnations many of which were found to be worthless, causing considerable loss and disappointment to those who bought them, and with those new carnations several new diseases were introduced which created quite a commotion in carnation growing circles. Strenuous efforts were made to cure or overcome those diseases by the use of quack nostrums, but in many cases the cure was found to be worse than the disease. It might be said here, however, that those diseases never put experienced growers to any great inconvenience; and introducers gradually becoming aware of the fact that carnations grown un-

der proper treatment and natural conditions were immune, those diseases finally disappeared, and today are never seen on any properly handled establishment.

for his benefit and protection. Such being the case all expenses incurred by the examining committees, however appointed, should be paid by the society, even if this necessitate an increase in the annual dues to do so. The introducers, or promoters, could hardly be expected to pay directly for what is so obviously advantageous to the buyer, and might not always be of equal advantage to themselves.

Suggested Widening of Scope.

I am also of opinion that the field ought to be widened by reducing the scale a little, as I believe many carnations that would not score 85 points on the exhibition table, would, when examined growing on the bench, be found to possess other good points, such as health productiveness, habit, etc., which would make them desirable for commercial purposes, and probably prove more profitable than the larger varieties. Many of our best paying commercial carnations to-day would have no show on the exhibition table. The society might with propriety go a step farther and keep a watchful eye on every new carnation from the time it is registered until it makes its debut after receiving its final certificate, and also inquire into the merits and demerits of all new carnations whether they are introduced through the medium of the American Carnation Society or otherwise. Those committees might also, with propriety, take a walk through the introducer's propagating house, just to have a look at those "selected" cuttings, and see if conditions are all right. It is said that cuttings which go in there in good condition often come out with weakened constitution and other ailments which make them of little value to those who buy them. Only by adopting some such methods will the American Carnation Society give the purchaser of new varieties the protection he is entitled to, and at the same time make it impossible to introduce "too many new carnations."

Should Strive for Fragrance.

Our present day carnation introducers seem to be directing their efforts more to increasing the size of the flower than anything else, and their success in that direction is wonderful, but while they are struggling for size, it looks as if they were losing sight of one of the chief attributes of the carnation, namely, fragrance. The only two varieties in commerce at the present time which retain the much-admired clove scent are Flora Hill and Boston Market. A carnation with the color and size of Enchantress and the fragrance of Boston Market would be an acquisition worthy of the efforts of our introducers. Or is strong fragrance a characteristic of the white carnation as it is of the white verbenas? However that may be, an effort in that direction would not be amiss. Taste demands fragrance, just as fashion demands color.

Competition of English Growers.

Size, however, is likely to be the main aim of the American introducer for some time to come, and the successful efforts of their British brethren in the profession to improve the carnation will furnish the incentive. We read of Malmaison carnations 8 inches across, and also of some crosses between English and American varieties which the Englishmen claim are improvements on the latter. Under those circumstances, the American introducer is not likely to rest on his laurels; evidently there are foemen worthy of his steel on the other side of the water.

Varieties for Pot Culture Needed.

Hitherto our introducers have devoted their entire attention to the development of the carnation as a cut flower, but there is another phase of carnation advancement which they have altogether neglected, although they have had numerous hints regarding it both in the trade press and from the platform. I refer to the carnation for pot culture. We need a race of dwarf carnations, of every shade of color. Colors that could not be used in the cut carnation would be very desirable in this class, and fragrance should be one of its prominent features. A race of carnations of the kind mentioned would mark an epoch in the plant trade. They could be grown in ordinary pots for the general plant trade, or put in pans or vases for decorative or holiday purposes. They could be flowered at any time without undue forcing, and would certainly make a far more satisfactory house plant than the short-lived although pretty azalea. They could also be used for Summer planting and would fill a long felt want in that direction, as I think it is extremely improbable that a carnation which would prove to be entirely hardy in our northern latitudes will ever be produced. There won't be "too many carnations introduced" until this much-needed class receives the attention it deserves.

Introducers Should be Encouraged.

Any effort to discourage carnation introducers in their endeavor to improve the carnation would be a mistake. Those whom we might call our professional hybridizers have got hybridizing down almost to a science, and with the magnificent varieties now at their command as subjects to work on, decided improvements may be looked for in the near future, both on this and the other side of the Atlantic. The 4-inch flower may materialize at any time, but that will not satisfy the ambition of our carnation introducers. To them one step in advancement only suggests another, and when the 4-inch carnation is an accomplished fact, they will with characteristic perseverance reach out for one still larger.

Carnations from a Canadian Point of View.

BY WILLIAM GAMMAGE, LONDON, ONT.

When I accepted your invitation to write a paper on the above subject it seemed as if it would be an easy thing to comply with your request, but when the time came for me to prepare the matter it appeared to embrace a good deal more than a casual glance at that innocent looking heading would infer.

Canadians Have Faith in Future.

If I may subdivide it—first, I presume, "Point of View" means, commercial value. Without statistics at hand I have to rely on observation. My first observation would lead me to surmise that we Canadians have a speculative faith in the future, for, year by year, we see new additions to our ranks, new structures of the most modern architectural design, and invariably a large percentage of these new additions are devoted to carnations. Nor are these increased investments confined to new concerns alone, for all along the line you will find the older establishments building, building; not as they used to a few years ago, one or two small houses at a time, but now it is a whole block of houses comprising many thousands of feet of glass, and these, too, are largely devoted to producing carnations for bloom alone, for as yet no one seems to have made any special effort at the "rooted cutting" business.

Nor are these investments confined to the older and more thickly settled portions, but away out in the West, where distance has no meaning, in that country of so much wealth and future pros-



John Birnie, Essayist



William Gammage, Essayist.

perity, we find floral establishments, like mushroom, springing up, not as in the past with pioneers in the business, who with limited capital had to do most of our own building, and not much of it at a time; but like everything else in that country with ample capital to back enterprise, modern establishments are springing, into existence, and in these, too, the carnation holds a place of prominence.

Stimulus Given by Society's Meetings.

The far-reaching stimulus, the effect which this meeting will have on the carnation as a commercial product, will be enjoyed directly by all growers and dealers, both large and small.

To those who have never before attended a meeting of this society the exhibition has been a revelation. It has awakened in them a new ambition, food for thought and action. Educational in its scope, attractive in arrangement, effective in its object, it will have done more to popularize the carnation than any other method we could have employed. So much from this point of view.

Popularity of the Carnation.

Not only has the style of our buildings, their construction and operation undergone changes to meet the ever-increasing demand, but our cultural methods have also kept pace with the necessities of the day. Local conditions here, as well as elsewhere, have their influence. Sections have a demand for color or quality that is not felt in others. Yet go where you will, be it the cosmopolitan city or the rural hamlet, the carnation is the popular flower with the people at large. True it is that no special effort has been made to introduce new carnations of Canadian origin. Up to the present our

growers have devoted their energies to growing for commercial bloom alone, but that we are not backward, where new varieties are concerned, you will find evidenced when you visit the leading growers. To Canadians belongs the honor of first recognizing the merits of some of the leading commercial varieties which have held a place more profitable than many that have been heralded forth with glowing description and brilliant pen pictures of the fabulous returns to be made by investing in them. But alas, how often have our expectations been realized of "getting rich quick" from these investments!

Gone but Not Forgotten.

If we were to go over the list of introductions of from five to ten years ago how many would we find occupying anything like a prominent place with the trade. I venture you can count them on less than the fingers of one hand.

New varieties have come and gone; some introducers have made fame and fortune; others have lost the confidence of the trade by their too sanguine expectations from their pet introductions, or from lack of experience, or want of business morality. Be that as it may, the carnation has gained a prominent pinnacle in commercial floriculture, from which may it never lose its prestige.

From year to year new varieties will come forward, whether better than those of the present day time alone will tell. What is new to-day will be old to-morrow, and the older varieties, like the growers of to-day, will pass into oblivion, and in their place will rise a generation that we earnestly hope will be no discredit to their forefathers.

American Carnations in England.

BY A. F. DUTTON.

In reply to your kind letter of October 27, 1906, to which I am pleased to respond, I give my candid opinion as to the views of my fellow growers and the general opinion of the public now, in regard to the carnations that have been imported from the United States.

It is now some five years since they were first grown and shown to perfection and called American tree carnations, and I have the honor of being the first to show them in the way they are now generally shown here. My first exhibit of note was made at the Temple, 1903, when they caused quite a sensation, and I may say gave the great start to their now present popularity. They first met with a great deal of criticism from the border carnation fancier, and I was told by one who is considered the finest raiser of this kind in our country (I may use his words): "Well, Mr. Dutton, I congratulate you on your exhibit; nothing could be more beautiful." With this remark I was quite content, and knew their day would have to come.

Now they are being grown on quite a large scale as a market flower, where before only the inferior and short-stemmed varieties were seen, such as Dutchess of Fife, Uriah Pike, and Miss Joliffe. But I may add there is a great difference in the quality of the stock of different growers, and it is only the few who can grow them to real perfection.

An English Carnation Society Formed.

Recently a newly formed society, namely, the "Winter-Flowering Carnation Society," held a very successful show at the Botanic, London, in which

the American varieties predominated, there being classes for 36 and 18 blooms of a color, also for groups of cut blooms. The show was in every way a success and a fine lot of flowers was staged.

New English-American Sorts.

I may give a few lines on the new varieties that are being raised from your imported carnations. I consider that before many seasons we shall have some very fine kinds, quite a credit to their parent Britannia (scarlet), which is being disseminated this year; it is the finest scarlet I know. It puts Robert Craig and Victory in the shade, and I firmly believe that we shall have other varieties in time of equal merit to it. But it is not for me to dwell on the possibilities of the future, but with the past and present, which are facts.

Shipping.

In regard to shipping, this will always be a great drawback to business being transacted on a large scale, as it is far too uncertain to please the majority of growers here, who receive the stock. I myself have received very successful shipments, but these have been few and far between. For instance, one consignment turned out well, another from the same grower, turned out the reverse and the loss was 80 per cent. It would have been policy to have burned the entire lots on arrival, as the survivors were weak, unhealthy and infected with rust, also, the spot. I often feel I should like to think I had never to ship any more, as it is always a nightmare when shipping time comes in the Spring.

Prize Winning Sorts here not always the best.

There is one more point, the last but not the least, and that is, many varieties that are so well spoken of and advertised in your papers as gaining different awards of merit prove very poor varieties with us. The following are a few—Fiancee, Cardinal, Ethel Ward, Candace, Indianapolis, Nelson Fisher, Abundance, Flamingo. If this continues, the number of your European buyers will certainly decrease, as it is quite sufficient with the losses we sustain through shipping to make the game worth the candle, when procuring really first-rate standard varieties.

I trust the notes I have made are what you require. I have endeavored to convey the present views as to how your carnations appear to European growers, the growing as a market cut flower, the shipping and the varieties.

BY G. ENGELMANN, SAFFRON WALDEN.

As suggested by the secretary of the American Carnation Society, Albert M. Herr, I will give a few details about the prospects of the American carnation in Europe, and especially England.

Winter-flowering carnations were grown for the English market some thirty years ago. The first were French varieties, and as the demand for choice flowers increased new kinds were raised, some of which enjoyed great popularity for a number of years; and though in size and length of stems they could not be compared with the present-day carnation, in color, fragrance and productiveness, they left little to be desired.



ALMA WARD

Growers, Cottage Gardens Co.

Photo by J. F. Johnston

Their Introduction.

The first carnations of American origin were introduced into England about fifteen years ago, and as I am told by one of the first importers turned out to be rather a disappointment. Of later varieties Daybreak was already grown in considerable quantity. However, it was not until the 30,000 dollar Lawson made its appearance that the boom began.

Even then there were but few growers who understood the cultivation of the "divine flower," and I am afraid Mr. Fisher would not have recognized his own child had he seen it in some of the English greenhouses. There were a few, though, that did the trick, and their produce made handsome prices in Covent Garden market. This, of course, was the best means of popularizing the flower, for the English florist is as much after the pound, shilling and pence as his American cousin is after the dollar. There was money in growing carnations, consequently the work was taken up by many new firms. Every new variety that was boomed in America was eagerly imported, grown, and very often thrown away the first year, as many were quite unsuitable for the English climate.

Then came the glorious Enchantress, and with it the germs of the new disease called the "carnation fever," which attacks flower-gardens and flower-lovers. The germ has not been discovered yet, but it is there right enough, I have no doubt, and it spreads fast, too, and makes the disease very catching. I caught it a few years ago, and am not likely to get rid of it again, for it seems incurable. It is a comfort that it is a painless disease, at least as long as the market-prices for the carnation blooms are good.

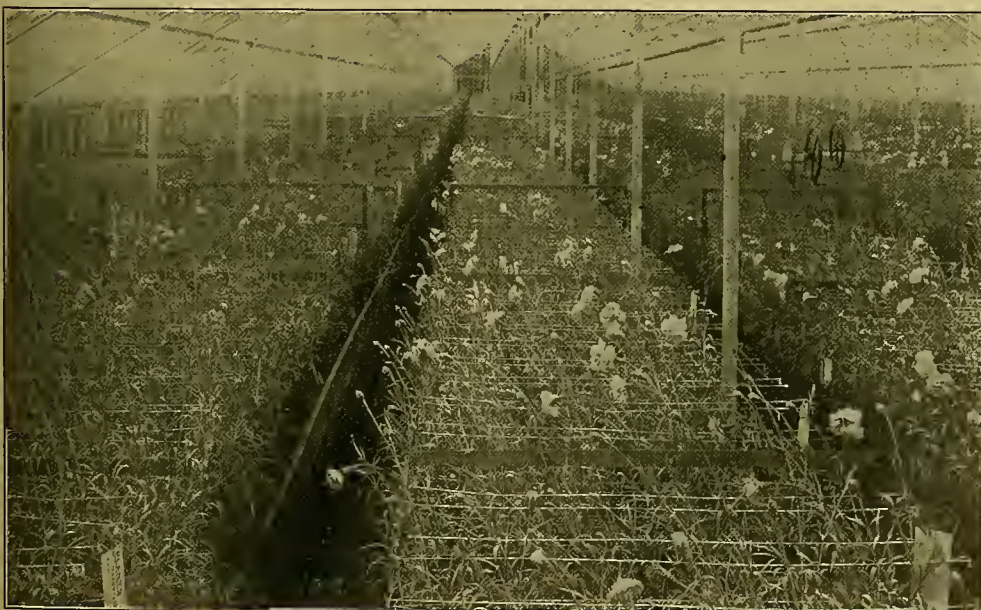
Enchantress as a Standard.

However this may be, there is no doubt that Enchantress has helped to popularize the American carnation more than any other six varieties taken together. If there is a new variety being introduced, the first question generally is: "Is it as good as Enchantress?" But, alas, I am sorry to say those that have come since have not been as good. But perhaps I should not say I am sorry, rather I am glad they have not been as good, for I think it is really a blessing in disguise that nothing up to the present in other colors has come up to Enchantress, as it shows the hybridiser a goal well worth obtaining plainly before him, and it is certainly easier to work toward something that we can clearly see before us than to try reaching an ideal that only exists in our imagination.

I am afraid I am getting off my track, which you will kindly excuse, for it is one of the symptoms of the "carnation fever," if you start one of those who have the complaint going on this subject it will take a mighty effort to stop him.

Status of American Varieties.

The American carnation stands in England today something like this: There are, I should say, about one million plants grown for the production of cut flowers alone; 90 per cent. of these at least are cultivated in pots. Of the remainder, two-thirds are planted on raised benches and one-third on solid beds. The latter two methods are gaining



New Carnation House of Cottage Gardens Company. (Planted with Alma Ward.)

Photo by J. F. Johnston



Beacon

Growers, Cottage Gardens Co.
Photo by J. F. Johnston

in favor, and in ten years' time I should not be surprised to see this state of things reversed. Besides these, there are a large number grown in private establishments, and hardly any of the up-to-date estates are now without their special carnation house.

The number of the American kinds grown in this way I should estimate at 100,000 to 200,000; 95 per cent. at least are grown in pots. This number is constantly increasing, and there is no doubt that the modern Winter-flowering carnation is beginning a fight for supremacy with the chrysanthemum, which has hitherto been the unassailed Queen of the Autumn and Winter. I calculate that in five years' time there will be at least three times the number named grown in England.

In Other European Countries.

The Continent of Europe is a little behind England as regards the popularity of the American carnation. However, the "fever-germ" has crossed the channel and the North Sea, and the "carnation-fever" has caught on.

have cultivated the American kinds for a few years, and managed to keep the names secret for a time. This game does not do for a long time in the Twentieth Century. There are too many trade papers about, and if there is money in a thing it will come out. This is as it should be; then after all is said and done the policy of the open door is the only progressive one, and always in the end beats the surrounding of places with a Chinese wall. Now that the secret is out, the German trade is all the more eager to obtain the wonders from across the Atlantic, consequently a good trade is being done in young plants.

This is not only the case in Germany, but also in France, Belgium, Russia, Denmark, Austria; in short all the countries on the Continent of Europe are going in for the American carnation, and I don't think I am over-estimating it when I say that within five years there will be fifty times more American carnations grown than there are to-day.

I know of one German grower, who only about two years ago purchased some twenty-five hundred dollars' worth of carnation stock from the South of France, and after giving the American varieties a trial this season intends to discard all his French varieties and grow the American ones in their place.

In Other Lands.

Even beyond Europe the fame of the "divine flower" has spread, for only a month or so ago I sent a fairly large consignment of young plants to Egypt, which arrived in good shape, and I hope will do well. That they are going ahead in Australia is well known. About Asia I cannot say anything, as I have sent no further than to the Crimea. Anyhow, in four Continents out of five the American carnation is known and grown, and the rapidity with which it has found its way is nothing less than phenomenal. This may partly be due to "booming," but vastly more because of its sterling value.

Dangers Ahead.

All this is well and good, but two great dangers are looming ahead. One: How long will it go on before the supply is in excess of the demand? The other and greater: How soon shall we be swamped with innumerable novelties, which according to the raiser will all be better than Enchantress, but which in reality will only be useless rubbish, that must disgust the straight and honest florist and damage the trade for those few new varieties that are really good?

Something About Comparisons.

To discuss how the American carnation as seen in England compares with its brother in the States, or how English methods of growing are inferior or otherwise to the American, would lead too far.

However, one thing I may be allowed to mention by way of apology. If some of you should ever visit one of our English carnation shows in Mid-winter, and find the blooms inferior or perhaps poor in comparison to your perfect specimen, please remember that the chief factor in producing first-class blooms in Winter is the light, and then take into consideration that on the 21st of December the sun rises in London (or rather is supposed to rise) at 8:5 and sets at 3:51. This is according to the almanac; in reality, it does not shine at all through November, December and January—at least, not to any appreciable extent.

I believe that even your best growers, if they came over here, and tried their hand at the game, would be rather disgusted with the result. For this reason alone, I am afraid we shall never be able to produce as good flowers as you do in Mid-winter, unless you send Mr. Edison along with one of the Chicago packers, who between them might manage to bottle up some of the surplus sunshine during the Summer months, that we could let loose in our carnation houses, when it is wanted in the Winter. Until that happy time arrives, we shall have to be satisfied with what we can get in the ordinary way.

Thanking you for the honor you have done me in asking for and listening to these notes, which, I regret I am not able to read personally, I will conclude with the best wishes for the future success of the American carnation in general, and the American Carnation Society in particular.

Vivat, crescat, floreat!

American Carnations in Denmark.

BY PETER RIISE, COPENHAGEN.

Your letter of November 3, 1906, at hand, but I hardly think myself able to do the matter full justice; nevertheless if I can write anything that can be of interest to the American Carnation Society I will be glad to do so.

Carnations are not grown on a very large scale here yet, but they are shipped here from Italy and southern France from November till May, and it is very hard for the home growers to compete with the imported stock.

Varieties Tried.

We cannot get as nice carnations here in Mid-Winter as you can in America, as the days are very short and we get a very little sunshine. I have been growing carnations here since 1899 and have been growing nothing but the American sorts. I started with about 40 plants and grow now about 7,000. The first Winter I had a good deal of



Mrs. Tom Harvey

Growers, Cottage Gardens Co.
Photo by J. F. Johnston

trouble with the plants; a good many would rot on account of the damp and cloudy weather.

The first sorts I started with were Daybreak, Flora Hill, C. A. Dana, William Scott, Triumph, Evelina and Gold Nugget; but, I have now discarded them all with the exception of Triumph and Daybreak. Flora Hill did not give blooms enough, and, besides, white is not as much called for as the colored kinds. C. A. Dana was too small. William Scott came too late with its second crop; it would not come till the last part of May. Evelina rotted all the first Fall in a short time. Gold Nugget did not give flowers enough and the most of them came imperfect; customers will not pay more for yellow than for white or pink. Daybreak all rotted with the exception of two or three plants, and I thought of discarding it; but by careful handling, I have since had very good success with it, and it has up to this date been one of my best paying varieties. It is a little inclined to be weak in the stem in the Winter. The best paying of them all, though, has been Triumph. It blooms early in the Fall, some all through the Winter. It seldom splits, and it gives a good heavy crop early in the Spring, but it sometimes is pretty badly affected with stem rot.

I have since tried Ethel Crocker, Governor Roosevelt and Mrs. Lawson. Crocker splits badly in the Fall and all through the Winter, and don't give a good crop before the middle of Summer—too late to pay. Roosevelt gives a good flower, a good stem, but hardly blooms enough in Fall and Winter to pay; it also comes too late in the Spring with the best crop to be of much account. Lawson splits badly and is rather short in the stem in the Fall, but in early Spring it gives a heavy crop of nice flowers and a good long stem, just in the right time to bring a good price.

In the Spring of 1905 I bought some of the newer American varieties. I got them from England, but they are quite expensive there. They charge from one to two shillings a piece. Others have tried to import them from America, but not with very good success. In the most cases they were dead when they arrived.

The varieties I am trying are Flamingo, Harlowarden, Harry Fenn, the President, America, Enchantress, Prosperity, Floriana, Indianapolis, Nelson Fisher and White Lawson.

I have not formed any decided opinion of them yet, as I only got a dozen of each, and have used them for propagating only last Winter; but my idea of the different varieties so far this Fall has been that Enchantress is a fine flower, good color and stem, but will not give so many blooms as Daybreak, and it was a good deal affected with stem rot in the field. Prosperity I don't think will pay, as variegated colors don't sell so well here, and it has not bloomed very freely so far. Estelle looks as if it would be one of the best. It starts to bloom early and very freely, gives a good-sized flower, stiff stem, not so very long but long enough for our market. It does not split, and it is still full of flowers and buds. Flamingo is a fine flower, but too late. Estelle is the better paying of the two so far. America is too pale in the Winter.



W. G. Saltford's Pink Seedling

See page 77, issue of January 19, 1907



Harvard

Grower, J. D. Cockcroft.

Mechanical Watering

BY LOUIS WITTHOLD.

I have been asked by your secretary to give my views on mechanical watering, and I wish to ask, Do any of us believe that the present mode of watering cannot be improved upon? If we look back at the different things that have been accomplished all along the line in greenhouse construction, heating, etc., even in watering, inasmuch as the hose has superseded the can, we certainly must admit that there is always room for still further improvement. It is only a short time ago when all watering in greenhouses was done with the watering can, and we all know with what prejudice the hose was looked upon as a factor in greenhouse work. This prejudice has gradually been overcome until to-day even our cousins across the water are using rubber tubes to save time and labor.

In the Line of Improvement.

The improvements in construction, pumping machinery, specializing of stock grown, etc., have made possible a saving of a large part of the labor of watering. Formerly a mixture of different kinds of plants was grown in one greenhouse in one grand conglomeration and, of course, each different species of plant needed different care and special attention, and the watering pot or hose could hardly be dispensed with. At the present time, where houses or ranges of houses of one kind of plants are grown, when conditions are equal or as nearly equal as it is possible to get them, this has been changed, and a watering machine can be applied and the labor of watering, which formerly took hours, can now be done in so many minutes, with less waste of water than with the hose and with more accuracy in its distribution.

The question will, of course, be asked, what have I to prove the above assertion? I must admit it is a natural question, as talk is cheap and facts are what we want in this year 1907. Gold bricks are good things for the "con" game man, and we can hardly be blamed for being skeptical about things which are not entirely clear and familiar to us; but is it fair to allow prejudice to put a brake on improvement when every minute of time saved is money in our pocket, and when a labor, which now must be attended to by the most experienced, can be mechanically arranged so that after it has been studied out to the satisfaction of the proprietor he can give his instructions so that water is given in just the amounts he has by experience found best for the good of the plants?

Narratives of Experience.

I have been asked to give my experience up to date. I will say that I, at first, started using a watering system for syringing palms by running a pipe along underneath the plants in the center of the bench, using my patent nozzles which produce a sheet of water in shape, so that when these nozzles are spaced along the pipe they will produce a sheet of water the full length of the pipe. The pipe is connected with a swivel wheel so that it can be turned. If soil only should be watered



Georgia

Grower J. D. Cockcroft

the nozzles can be turned downward, so that soil only is wet without wetting the foliage; and by turning the nozzles upward the foliage can be sprayed. In this way I was able to water or syringe my palms when required with a saving of at least 90 per cent. of time and labor. I then used the system for watering Boston ferns, suspended overhead in the greenhouse, hanging a plant directly under each nozzle so that by turning on the water just a little the water will come from the nozzle in a solid stream and flow into the pot, just as much as is wanted, causing only the drip from the water that runs through the soil; while with a hose at least 90 per cent. of the water would drop on to the plants below. Then by turning on full pressure the plants can also be sprayed, or syringed, if required. In this way I have been enabled to grow double the amount of stock in my palm-houses and with less labor than previously required. I now have a large portion of two ranges of palm and fern houses equipped both at our Lake View Place and at Edgebrook, and am working on more lines right now, as I find the time saved will pay for the outlay in a short time.

The next experiment I made was at Davis Brothers' cucumber houses, Aurora, Ill., and I quote you the following from a letter:

"It saves 90 per cent. of our watering labor. We now have the Wittbold system in all houses; do the watering in an hour which formerly took twelve hours and do better work. We are recommending the system to our friends."

I wish to say that Davis is using it now for the second Winter and is much pleased.

The next experiment was in the lettuce houses of Chamberlain & Bunker, Fremont, Mich., who are large vegetable growers, and the letters I have received from these gentlemen have given me much encouragement. I only mention these two places, as giving a few facts; more would only tire you and would only be a repetition of what these gentlemen have said.

Applicable to Carnation Houses.

You, gentlemen, are representative carnation growers, and I wish to ask if a watering system that can be applied in palm and fern houses, in cucumber and lettuce houses, cannot also be applied in carnation houses? The pipes and nozzles can be so placed that you can water from underneath the plants, that you only water the soil, or spray upward, from underneath the plants, or downward from above, just as the case may require.

I am no carnation grower, but from what experience I have had in other lines, I say it can be done, and it only needs some one to take up the idea with determination to overcome what obstacles are in the way; and as I firmly believe that mechanical watering is practical and will save thousands upon thousands of dollars every year in labor to the greenhouse man when it is understood and will do better work than can be done in any other way, let me suggest that steps be taken by the American Carnation Society to determine the value of mechanical watering, by experimenting or otherwise during the coming year, so that more definite reports can be had at next meeting. I assure you, gentlemen, it will be worth your while.



Mrs. C. W. Ward

Growers, Cottage Gardens Co.
Photo by J. F. Johnston.

In the dark varieties Harry Fenn is to date the best. It has made the best growth in the field, and the color seems to take the best. Harlowarden is rather too dark in Winter. The President made a very poor growth in the field. White Lawson is a nice flower, but as I said white does not pay here. Floriana is one of the colors the most called for, but has bloomed very little so far. Indianapolis, from indications, looks as if it would take the place of Triumph. It blooms early in the Fall, has a stiffer and more wiry stem, a stronger color, and is not troubled so much with stem rot as Triumph. Nelson Fisher is one of the best; a fine color, free blooming, good stem, does not split, has made a good growth in the field and bench, and is not troubled with any kind of disease so far, but it is very hard to propagate in Winter though rotting quite freely in August.

Cultural Methods.

We plant in the field about the first of May and lift again the first part of August, but we hardly get as strong growth as you do in the United States. Heretofore I have been propagating my plants in the Fall and early Winter, but this year I have propagated most of them in August, and I now have very strong plants. I keep them quite cool through the Winter, just about freezing. In that way I take the cuttings from the old plants just before throwing them out. They give very good cuttings at that time, as we are not troubled much with red spider. Our Summer is not so hot and they make a good growth all through the Summer, and in this way we save the plants a good deal in the Fall.

In some places here they keep the young plants in a cold frame all Winter, only protected with glass and shutters, and the ground will at times be frozen hard; but it is mostly the European varieties they keep in that way. I think it a little risky, as I saw in one place where the plants all died in a short time from drip and rot.

When I first started I kept my carnations in a night temperature of about 50 degrees Fahrenheit. The stems would then be rather weak; nevertheless the flowers sold well all through the Winter at five cents a piece. But in the last few years the importations from the South have increased to such an extent that carnations sell here in Midwinter at twenty-five to thirty cents a dozen, nice large flowers, with good stiff stems about 15 to 20 inches long; in fact, better flowers than we can produce here in the short days.

I now keep my plants in about 28 to 40 degrees Fahrenheit through December, January and February. In that way I get a very few flowers in Midwinter, but the plants will be better and stronger in the Spring and will give a good crop in April, May and June, the time when there is the biggest demand for them. On the whole, we have to look for such varieties as will give a good crop in October and November, and again in the Spring, and we will get a better price than in Midwinter. In fact, it is impossible for us to compete with the imported stock when it is at its best. They are at present working on a revision of the Tariff and if we should get a duty on cut flowers, it would be a great help to the florist, and there would be grown a great many more carnations round this city.

I have about 20,000 feet of glass, half of it in carnations. The houses are 100x18 and 100x24 feet, 14x18 double thick glass, heated by hot water.



H. Weber & Sons Co.'s Seedling 24-'02

Secretary's Report.

Your secretary reports having issued the usual printed matter during the year and mailing the same as issued.

There were two deaths reported to the secretary during the year—those of Lewis Ullrich, of Tiffin, Ohio, and J. L. Dillon, Bloomsburg, Pa., the first two that have been reported during my term of office. Mr. Valentine, of Denver, Col., several years back, made some remark about a suitable offering being sent in such cases. There was no action taken in the matter, and I would suggest that an offering be adopted as representative of this society, and, upon similar conditions arising again, the secretary be empowered to wire a florist in the city of the deceased to send such offering with the society's card.

Like most human beings, your secretary is subject to errors, lapse of memory and the losing of important documents, perhaps more so than the most of them. The last year three of these errors happened to get into our premium list. First, the substitution of the name of Eugene Dailedouze for that of William Scott, as judge; second, the use of the name of E. W. King Co., Ltd., instead of the King Construction Company, in the donation of a special; and last but not least, the loss of copy for a half page advertisement and a \$10 special prize, and the non-appearance of either in the premium list. When my attention was called to this, I offered to have the advertisement and premium both printed on a postal card and to send it out to every member at my own expense; but this offer was not accepted.

The advertisements in the premium list amount to \$231.50. These advertisers are worthy of your patronage. This is the only means whereby we can secure the revenue necessary for the expenses of this society, expenses that are increasing faster than the membership. To secure these advertisements, your secretary wrote almost three hundred personal letters, in addition to the printed notices sent all members, and the showing does not measure up with the amount of time and labor expended.

Every member of this society who has anything to advertise, should use this premium list. It is not money thrown away, and is the only contribution the society asks, aside from your annual dues of \$2.

Your president, John H. Dunlop, has given the secretary much valuable assistance during the year, and has certainly well-earned the honor attached to his office. ALBERT M. HERR, Secretary.

Report of Nomenclature Committee.

Your committee reports the registration of the following carnations during the past year:

- Messrs. Stevenson Bros., Govanstown, Md.—Splendor.
- James D. Cockcroft, Northport, N. Y.—Harvard, Georgia and Faust.
- Baur & Smith, Indianapolis, Ind.—Pocahontas.
- F. Dorner & Sons Company, Lafayette, Ind.—Red Chief, Winona and Bonnie Maid.
- J. D. Thompson Carnation Company, Joliet, Ill.—Lncille.
- H. Weber & Sons Company, Oakland, Md.—Toreador.
- Chicago Carnation Company, Joliet, Ill.—Red Riding Hood.
- Malachi Tierney, Highlands, N. J.—Mrs. Robert Hartshorne.
- Messrs. Dailedouze Brothers, Flatbush, N. Y.—Welcome.

The registration of Welcome is provisional and subject to the approval or disapproval of this society, it being a pink sport of Mrs. T. W. Lawson, and will be on exhibition at the meeting.

Registration is getting to be quite a bit of work. One of the above registrations was effected after an interchange of eight letters; several of the others required three and four, owing to the fact that the list of names that have been used is cumbersome large, and also to the fact that some introducers of new varieties do not take the trouble, or do not care to go to the expense of registration.

From the amount of space given by our trade papers to this matter of registration, there is no excuse for any originator not to know that when he names a carnation, the proper thing to do is to have that name registered with the society at once, the cost being but \$1 per name, and it is not obligatory to be a member of the society to have a variety registered.

We therefore again recommend that no variety under name be allowed to compete in the exhibitions of this society unless said name has been properly registered, either with this society or the S. A. F., and that this rule be put in force for our next exhibition, with the privilege of registration the first morning of the exhibition for those who may have previously neglected it, or do not know of this rule.

We would also recommend that all names registered previous to 1896 be eliminated from the working list of this committee.

ALBERT M. HERR,
A. HERRINGTON, } Committee.
EUGENE DAILEDOUZE,

J. D. Cockcroft's New Carnations.

The Originator's Descriptions.

THE HARVARD.—As the name indicates this is a rich crimson variety of the real Harvard color. The flowers average 3½ inches in diameter, and are extremely full and perfect; a malformed bloom being a rare thing. The same is true of the calyx, only two split blooms being found in 5,000 flowers cut of this season. The stems average twenty-four inches in length. In fact, it has the finest habit of any carnation grown on the place, and we have all the standard varieties. We have grown it for cut flowers for four years, and the blooms have commanded the highest price in the New York market. It is free and early.

THE GEORGIA.—This is a white variety of our originating which we have grown now for four years. The flower averages about 3½ inches and is borne on strong stems from 18 to 24 inches. It is very full, with deeply fringed petals; has a calyx which absolutely never bursts, and is unusually fragrant. The plant has a clean and rapid growth with no superfluous grass, every shoot producing a flower. It begins to bloom in September and continues throughout the season with the same freedom as Enchantress, which we have growing in the same house.

We will exhibit this variety and the Harvard at Toronto.

H. Weber & Sons Co. New Carnations.

Originator's Descriptions.

MABELLE, (1907), pink, a few shades lighter than Mrs. Lawson, showing no traces of lavender

or purple, but instead is permeated by a faint yellowish cast, making an exceedingly popular and beautiful color. The blooms are large and well formed; under favorable conditions they attain 4 inches in diameter. Odor is pleasing, but not spicy. Calyx good, practically non-bursting; habit not unlike that of Genevieve Lord, a very early and continuous bloomer, giving long stems right from the start. This variety has the much-prized habit of producing very early, keeping it up until July. We recommend it as a very profitable, up-to-date commercial variety. It requires about the same treatment and temperature as Enchantress.

TOREADOR, In color, a very much improved Prosperity. Parentage, Prosperity X No. 24-'02. Ground color is white, heavily overlaid with scarlet, barring a broad distinct zone of pure white on the edges of the petals. The latter are deeply serrated, and the bloom presents a most striking appearance. It has the stiff stems of the pollen parent, and as long as those of Prosperity. Habit about midway between the two parents. It has an extraordinary constitution, and good blooming plants. Its even late cuttings make



Toreador

H. Weber & Sons Co.

color is immensely popular, and we regard it as the most valuable variety we have as yet raised. In size it is equal to Prosperity at its best, i. e., 3 to 4 inches, the latter being a frequent occurrence.

SEEDLING No. 24-'02.—Color dark pink, a more even and better color than that of Mrs. Lawson, showing the same characteristics as to growth and habit, with stem slightly longer. The parentage of this variety was a dark pink seedling fertilized by Lawson, and it seems to have inherited the good points of both parents.

A Correction.

Editor Florists' Exchange:

In your issue of December 22 just received, I notice your correspondent, J. Harrison Dick, states that at the Winter-Flowering Carnation Society's show, held on December 4, Messrs. Bell & Sheldon, Castel Nursery, Guernsey, were awarded a gold medal and exhibited some promising seedlings, including yellows. Messrs Bell & Sheldon were awarded a large silver medal and also took first for President (36 blooms), and first for Robert Craig (18 blooms) besides other prizes. The gold medal alluded to above was awarded to me for my display in which were shown "the promising seedlings, including yellows" mentioned by Mr. Dick. St. Margarets, Guernsey. H. BURNETT.



Mabelle

Introducers, H. Weber & Sons Co.

The American Carnation in South Australia.

By the Introducer (James Beggs, North Adelaide.)

(A Paper read before the South Australian Carnation and Florists Society.)

Some time ago Dr. Harrold gave me the credit of introducing the American carnation to South Australia and probably Australia. The first I sent out was Lizzie McGowan in 1897; then followed Flora Hill, Ethel Crocker, Leslie Paul, Mrs. Lawson, America, Prosperity, Peru, White Cloud, Golden Beauty, Governor Roosevelt, Harry Penn, General Macco, Stella, Norway, Mrs. Potter Palmer, Gov. Wolcott, Enquirer, Lillian Pond, May Naylor, Floriana, President McKinley, Morning Glory, Dorothy Whitney, Mrs. Nelson, Enchantress, and Harlowarden. Some others that came out were consigned to the rubbish heap, and a greater number did not survive the voyage.

What induced me to get this flower out? It was through reading of its free flowering, long-stemmed, and fragrant qualities, and, so far as I can see, these have not been overestimated in the gardening periodicals of America. Being one of G. Glenn's school—where we were taught that form and shape of petals was the only passport into that select coterie of florists' flowers—it was a bold step to introduce something which many of this school called (and still call) a blackleg. Still, believing in the doctrine of Glenn's teaching, something was wanted to meet the requirements of thousands who did not exhibit, but wished for (I might say), a utility flower—one which would give the best return for the outlay. This want our American cousins have supplied. At the same time, if two perfect flowers were put on the board—one the tree show, and the other American—the first named would have preference. But there is no occasion for clashing, as this society has amply provided for both. There is the Spring blooming or English show, which is grown here, and to a greater extent in Melbourne and Sydney. One cannot help admiring the beautiful form and lovely colors of these, but their short duration of flowering compares unfavorably with the tree show or American, which we call decorative or serrated, to distinguish them from the smooth edge; and it is this type with which we have to deal here. Sydney is the stronghold of the tree show, and many have been raised there from seed. So far the form of flowers is their ideal. Some of these are perfect; but many of the pleasing colors of the American are lacking or their good habit of growth. Take for instance, Edith Gray, or Ravenswood, one of the finest show blooms, but of ungainly habit.

Women's Preferences.

From a decorative point of view a woman would pass by many of these on account of their muddy colors—and let me say, right here, societies such as this one are somewhat selfish or conservative. Women's preferences do not enter into the matter at all. So long as a flower is a model show bloom they ask for no more. We should consider that women have a say to a certain extent as to what kind of flower should be grown, although their fashions (as in dress) may change annually. It is to women that we men look for the beautifying of the home with the most artistic—though not necessarily expensive—arrangements of color and blending in flowers, say, Flora Hill, Mrs. Lawson, Prince Alice, or Pasadena carnation. Some do this with that true simplicity of nature which gladdens the heart of a lover of flowers, and makes him feel that this is one of the magnets which draw and keep him home. But all women, I am sorry to say, do not love flowers, and this reminds me. Many years ago, I walked a distance of sixteen miles to give a bouquet to a girl. (How many of you would walk four now-a-days?) When it was given to her she commenced to pick the flowers to pieces. I remonstrated with her, and the answer was that she "did not like flowers!" Since then, I have concluded that a woman with such a disposition rarely makes a good wife or mother. Her nature is selfish and unsympathetic to those around her.

A Word About the Climate.

Victoria has also produced some good show trees; and last but not the least, South Australia. This State is far ahead in the raising of the American, and in a year or two it will be no more necessary to import carnations of this type, than it is to import chrysanthemums, dahlias, gladiolus, delphiniums, and other florist flowers. To prove the American carnation is adapted to South Australia it is just as well to let the American growers know what this climate is like, and what it is capable of producing. In passing, this paper will be sent on to THE FLORISTS' EXCHANGE, New York—the best paper of its kind in America (specimen copies shown). Anything to be said about this State will come better from me than from one who is a native of South Australia.

I have been reading a good deal about their sister dominion, Canada—of the new land being opened up, and what has to be endured during the long Winters. One item struck me forcibly—that fowls had to have many thicknesses of straw around them to keep out the cold. Here in South Australia they roost on the wire fences if there is nothing else handy; and as for their laying propensities, in competition they average 224 eggs for the year. To show the difference between our climate and the American, a farmer or gardener here can work 50 of the 52 weeks in the year out of doors. It cer-



Walter Wilsbire

Chairman Ex. Com., Toronto Gardeners and Florists' Association

tainly is more than warm during a few weeks in the middle of Summer; but the writer has done a good day's work in the open on the hottest day on record, viz., 180 degrees in the sun, and 114 degrees in the shade, without being distressed. This is owing to the dry, healthy atmosphere. Overcoats are sometimes worn in the Winter, but mine has lasted me ten years, and is still good to wear. Our average rainfall is under 21 inches, and, if it comes opportunely, is all that the farmers require. Our wheat, as you know, is the best in the world; our wool the same, and the fruits produced are varied in the extreme, and of splendid quality. To enumerate some: grapes, oranges, limes, lemons, figs, almonds, apricots, peaches, plums, apples, pears, quinces, mulberries, gooseberries, strawberries, raspberries, cherries, and walnuts. Vegetables, green peas and new potatoes all the year round.

From the city eastwards the ground rises over 2,000 feet in ten miles.

Of course, some of these fruits, etc., have to be produced by irrigation. Then we have our Northern areas in the tropics where all kinds of tropical products can be raised, and which also abound in minerals, waiting for some go-ahead American to come and abstract them. The only country in the world to approach this is California, which has a similar climate. Asparagus plumosus grows abundantly in our gardens, and stephanotis, bougainvilleas, wistarias, tacsonias, and kennedyas flourish on



Albert Houle

Vice-Pres., Toronto Gardeners and Florists' Association

the walls of our houses. An English oak will grow 30 feet in height and 4½ feet in girth in 20 years. Clematis flowers 1 foot across, azaleas, beronias, rhododendrons, Pink Pearl, Mrs. Sterling, and dozens of other varieties do well in our hills where the camellia is at home. Chrysanthemums thirteen inches in diameter are all grown out in the open except for a calico shade when flowers are out. As for cannas and palms, they are rank. The former and dahlias can be left in the ground all the Winter, and not take any hurt. The best honey can be obtained at three cents per pound.

Truly, this short description of our State goes to prove that it is a land which, if not overflowing with milk and honey, is overloaded with the best fruits of the world, where the land is cultivated (and thousands of acres which are not) and these fruits can be washed down with the choicest of wines. Had Moses known of such a land, and the means to get there, he would have dumped the Israelites down upon it to a man. We occasionally have droughts, which do some harm, though sheep farmers calculate in the main they are beneficial. We have a range of mountains running hundreds of miles and every facility for the storage of water, about 20 miles apart. If we practised irrigation to the same extent as in the United States we could laugh at the world, as we have no hailstorms, no blizzards, no snow or ice, and not such extreme cold as they have. But to my text.

A Comparison.

To compare with the growers in America we are like small children holding the strings of their mothers' aprons. This cannot continue, as we are growing slowly and surely, though we may never make such a commercial success as they on account of the facilities for growing flowers here by any working man having a piece of ground, and the small outlay required. To show the contrast between the American Winter and ours, here in South Australia, fine blooms of Mrs. Lawson, Prosperity, Flora Hill, Ethel Crocker, Juanita, Harlowarden, Pasadena, Antonia, Enchantress, etc., are out of doors, protected from rains and sun by a pot or piece of flat wood only. Nevertheless, if a skeleton frame were put up over the heds with movable lights in the Winter and Japanese bamboo blinds in the Summer, a greater return would result.

What do I think of the American nurserymen? Well, as regards business done they are equally as honest as the general run of men in England, Germany, or in these States. I know this much, the E. G. Hill Company have done the best they could for me in putting aside and preparing good strong plants for packing; but where the trouble lies is in the long distance to ship, and the heavy charges in transit. The postal union now adopts the parcel post up to 4 pounds 6 ounces and I think for plants it should be 11 pounds, as then it would allow the plants to be sent in the ball.

Quality of American Sorts.

Do I find all the American carnations good? Not by any means; there are more blanks than prizes. Who is to blame for this? I think, to a certain extent, the nurserymen themselves for not taking more pains to see if each novelty on the market is a distinct improvement on any of the same type before they buy, and if such is the case, to note where it comes in, either in habit, color, form, stem, or perfume. Again, the carnation societies should have a big hand in this when new varieties are judged by them. I have had a novelty which was praised up to the skies, and when it bloomed I found that a variety sent out a year or two before was superior to it. After all, "honesty is the best policy." I threw it out. You might say this was wrong, as it could have been sold to a customer under description when bought. That would be a false pretence, for when you know the flower is not so good as one we already have, you are not only deceiving your neighbor, but you lose the reputation for honest dealing which all men can possess. How very often we see a new carnation take the highest honors, and after dissemination it is found to be only second rate. One can understand a seedling which, as a rule, is more robust than a cutting, going back when propagated, but these prize-takers are from cuttings. How, then, is the falling off accounted for? My theory—but it does not coincide with that of some American growers—is that of over-propagation, especially from plants that have been forced or cultivated for large blooms. We need only go back a few years to the chrysanthemum. Many of these flowers were quite equal to the present-day sorts in size. The question arises, Can you affect the system of man or plants by forcing the constitution to its maximum powers for any length of time? I think so, as a reaction is bound to take place in the form of some disease or loss of vitality in some part, something which may lie dormant for years. Under a proper system of culture, once a good flower, so it should remain, and not go back. The secret of keeping a flower up to the standard is to grow naturally, viz., to plant out in the field the number required for cuttings, and throw out all those that have been forced with manures. This could easily be done instead of the continuous propagation going on from plants which are made exotic to their nature by coddling. Bringing plants from a different soil or situation—provided their constitution is not impaired—is another factor in keeping up the standard.

(To be continued)

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SITUATION WANTED—By gardener as first or second assistant on first-class commercial or private place. Twenty-two years' experience in all branches; good references; competent in greenhouse work and specialist in first-class carpet beds. Good designer. Single man. Adolf Schulz, P. O. Box 85, Little Silver, N. J.

SITUATION WANTED—By single grower of roses, carnations and chrysanthemums. Competent worker, temperate; can take charge of 50,000 ft. glass. Address, Florist, 270 Seventh avenue, N. Y. City.

SITUATION WANTED—As head gardener on a private place with greenhouses. Swede; married; no children; 14 years' experience in all branches of the business. First-class references. Please state wages in first letter. Address, S. H., care The Florists' Exchange.

SITUATION WANTED—As foreman on first-class place where roses are a specialty. Only first-class position accepted where top wages are paid to the right man. References and ability the best. Address, S. G., care The Florists' Exchange.

SITUATION WANTED—Head gardener and florist desire position. Upwards of 20 years' practical experience in vegetable culture, fruit and flowers outside and under glass, early and late forcing, etc. Capable of taking charge of good establishment. First-class testimonials; aged 39, married. Address, Englishman, care Mr. Day, florist, 502 South Warren street, Syracuse, N. Y.

SITUATION WANTED—Aged 32, single, sober, 16 years' experience in carnations, gardenias, chrysanthemums, roses and general line of pot and bedding stock. Also fruit and vegetables. Private preferred. Address, S. N., care The Florists' Exchange.

SITUATION WANTED—By young man of 24 years of age, 2 years' experience. Best of references. Address, M. D., care The Florists' Exchange.

SITUATION WANTED—Dane florist, 21 years of age, wants position in general greenhouse work. Years of experience. References. Address, M. B., care The Florists' Exchange.

SITUATION WANTED—By German florist, 23, single, 6 years' experience, one year in this country as assistant in rose houses. Address, M. A., care The Florists' Exchange.

SITUATION WANTED—As working foreman on commercial or private place. Life experience in the trade in the growing of cut flowers and potted plants in general. Sober and honest single man. Please state full particulars in first letter when writing. Address, S. D., care The Florists' Exchange.

SITUATION WANTED—By a married man, no children, aged 30, as gardener on a private place. Life experience, 2 years in present situation. Address, S. T., care The Florists' Exchange.

SITUATION WANTED—By young, married man, grower of roses and general stock; several years of experience. Address, G. P., The Florists' Exchange.

SITUATION WANTED—As head gardener or general superintendent of a gentleman's estate by a first class man, 7 years in present situation. Aged 40 years. Address, M. M., care The Florists' Exchange.

SITUATION WANTED—By married man, 30 years of age; wants position in general greenhouse work; private place preferred. Address G. Y., care The Florists' Exchange.

HELP WANTED

WANTED—Young man with some experience in general greenhouse work. Position permanent and good home. State age, experience, references and wages per month with board. Geo. S. Beldig, Middletown, N. Y.

WANTED—Lady clerk and assistant on books for a Washington, D. C., flower store. Address, stating experience, references and salary expected. Address: Retail Florist, General Delivery, Washington, D. C.

HELP WANTED

WANTED—Boy, 16 or 17 years old, good wages and a chance to learn rose growing business. Robert Miller, Rose Grower, East Brookfield, Mass.

WANTED—Boy, 16 or 17, or young man; good wages and a chance to learn the trade. LeMout, Florist, 436 Fourth avenue, New York.

WANTED—Single man to help grow and bunch single violets, with some experience. Address: B. Bligham, Pine street, Dedham, Mass.

WANTED—A young married man; must be a good grower of roses and carnations. \$50.00 per month and house; will be required to board three men. Address, George Stewart, Tuxedo, N. Y.

WANTED—Married man, good grower of roses and carnations, to pack and help with fires and board men. Wages, \$30.00 per month, room, coal and wood. Send references. One-way Greenhouses, Bonton, N. J.

WANTED—A competent man as working foreman to take full charge of a commercial place where carnations and roses are the principal crops. None but an experienced competent, trusting, sober, honest man need apply, giving references and wages expected. Address, S. Z., care The Florists' Exchange.

WANTED—A salesman, visiting first-class trade, to take as a side line a new specialty. Of use only to those visiting the highest class of retail trade. To such large orders are assured. Address, S. X., care The Florists' Exchange.

WANTED—Temperate, willing man for roses and general greenhouse work. Give references when writing. Apply to R. G. Hanford, Norwalk, Conn.

WANTED—A bright young man of good habits, with some experience in nursery and greenhouse work, to learn nursery and landscape business. Address, stating age, experience, education and wages expected. Nursery, care The Florists' Exchange.

WANTED—A good, reliable nurseryman who understands the propagation of shrubs, perennials, etc., and who has had experience in landscape work. Give full particulars and state salary expected. C. R. Fish & Company, Worcester, Mass.

WANTED—An experienced man, accustomed to transplanting, trimming, and taking care of evergreens. An active, hardworking man; one who can speak English and is accustomed to managing men. Hollander preferred. The Elizabeth Nursery Company, Elizabeth, N. J.

WANTED. Manager for Dunlop's Retail Store, Toronto. Must be experienced in the very best class of business, and well up in decoration and designing. This is the best retail store in Canada and does the best business. Our last Manager was with us for ten years. Good salary to good man. Send references. J. H. DUNLOP, Florist, 96 Yonge Street, Toronto, Ontario.

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WE are in want of two who are conversant with counter trade; permanent position. Wm. Elliott & Sons, 201 Fulton street, New York City.

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A man experienced in growing palms and ferns. A good position for a temperate, capable man. R. G. HANFORD, NORWALK, CONN. Mention the Florists' Exchange when writing.

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FOR SALE—To first-class florist only, well established retail business, best location and trade in large suburban town. Reason given to purchaser. Address, S. R., care The Florists' Exchange.

FOR SALE—Retail florist store in the best business section of Broadway. Address, H. Miller, 764 Broadway, Brooklyn, N. Y.

TO LEASE—Greenhouses, about 7,000 ft. now vacant, with land 9 miles from Worcester, Mass., on N. Y. Central & H. R. R. Particularly adapted to carnation growing. Terms low. Formerly the property of the late F. A. Blake. Apply to Arthur C. Comins, Rochdale, Mass. (Nearby premises.)

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Mention the Florists' Exchange when writing.

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Mention the Florists' Exchange when writing.

FOR SALE

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Constantly on hand, second-hand pipe with new threads and couplings; also boiler tubes without scale, ends cut square. Pfaff & Kendall, Forestry street, Newark, N. J.

BOILERS, BOILERS, BOILERS.

SEVERAL good second-hand boilers on hand, also new No. 16 Hitching at reduced cost. Write for list. Wm. H. Luton, West Side Avenue Station, C. R. R. of N. J., Jersey City, N. J.

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H. MILLER, 784 Broadway, Brooklyn, N. Y., will open a seed store and also deal in bulbs, plants, etc. Dealers please send catalogues.

WANTED—By May 1st, 500 Bon Silene rose plants, 2 1/2 inch. Please state price when writing. R. A. Elliott, Morristown, N. J.

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WANTED—Special prices on the following: 3,000 lbs. mixed sweet peas, 3,000 lbs. mixed tall nasturtiums, 3,000 lbs. mixed dwarf nasturtiums. I also want large quantities of all kinds of garden and flower seeds. What have you to offer, and what is your best price? Write at once to William D. Burt, Dalton, N. Y.

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Thirty cents is the minimum charge for advertisements on this page.

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Strawberry Plants—90 best varieties; stock unexcelled. Ask for prices on what you want. Address, W. F. Allen, Salisbury, Md.

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60,000 large 4-year old Barra Mammoth Asparagus roots, \$0.40 per 1,000; \$25.00 per 5,000 (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

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100,000 greenhouse grown Asparagus Plumosus Nanus seed; ready now, \$4.00 per 1000. per 1,000; \$25.00 per 5,000 Turner Red Rasp Joseph Wood, Sprague Valley, N. Y.

BABY RAMBLER ROSES, fine dormant stock, one year, \$12.00 per 100; 2 1-4 lb. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

FOR SALE—The most complete stock of hardy perennials, dahlias and other bulbs for Spring planting, at reduced prices. Get list. Pallades Nurseries, Sparkill, N. Y.

FOR SALE—Strong, healthy, well-rooted carnation cuttings of the following: Enchantress, Queen and Lawson, \$20.00 per 1000; Crocker, Crane and Hill, \$15.00 per 1000. W. C. Fray, Kinkora, N. J.

CARNATIONS—Rooted cuttings, leading varieties, Queen and Fair Maid, \$1.00 per 100; \$10.00 per 1000. Address, Napoleon LeMay, New Bedford, Mass.

FOR SALE—Roses, two-year-old; field grown. Kaiserin Augusta Victoria, \$15.00 per 100. Clean, well-rooted stock. Josiah Young, 2 Grand street, Troy, N. Y.

FOR SALE—Chrysanthemum stock plants, 50c. per doz. Jerome Jones, Halliday, Enguehard, Cobold, Cheltoni, Bonaffon and Hayes. Newtonville Avenue Greenhouses, Newtonville, Mass. Mention the Florists' Exchange when writing.

CYCLAMEN SEED

The best commercial large flowering strain in the following colors at 75 cents per 100 and \$6.00 per 1000: Blood Red, Bright Light Red, Bright Rose, Pure White, White with Carmine Eye. The following at \$1.75 per 100, \$15.00 per 1000: Lilac, Rubin, Salmon.

PERENNIAL GARDENS CO., TOLEDO, O. Mention the Florists' Exchange when writing.

CHANGES IN BUSINESS,

ONARGA, ILL.—The partnership agreement heretofore existing between L. J. Risser and Ludvig Mosbaek, under the firm name of Ludvig Mosbaek, has been dissolved by mutual consent. All debts owing to the firm of Ludvig Mosbaek and all debts owing by the firm have been assumed by the new business which will be continued under the name of the Mosbaek Greenhouse Company of Onarga, the Irequies Canning Company of which L. J. Risser is President, succeeding to the business.

GREENSBORO, N. C.—The firm heretofore doing business under the name and style of Blake & Todd, proprietors of the Greensboro Seed and Plant Company, composed of George Blake and George M. Todd, has by mutual consent been dissolved. George M. Todd having purchased the entire interest of George Blake in the business including the real estate.

CORNWALL-ON-HUDSON, N. Y.—Another new industry has started under the name of The Cornwall Nursery Company. The owners are James F. O'Mara and Thomas O'Neil. Mr. O'Mara began his career as a nurseryman when a boy with the late Edward Payson Roe, the novelist. He was superintendent for about ten years of Dwyer's Nursery in Cornwall, and is a scientific nurseryman of large intelligence and experience. Mr. O'Neil is an expert gardener. He also worked under E. P. Roe, and has been until recently head gardener for Earle E. Carley.

REVIEW OF THE MARKET

NEW YORK.—We do not remember ever before seeing Bride and Bridesmaid roses in such short supply, at this time of the year as they are at present. Considering the additions that have been made in recent years to the glass area devoted to rose culture, the present scarcity would indicate that the varieties named are not being grown so extensively as heretofore, or that the present season has been more unfavorable to rose culture than has been the case in a number of years. It would be interesting if a census could be taken of the average yield per plant for this season, and compare the same with the record of other past years, though it is not supposed that such a thing is possible as so few records are kept.

American Beauty roses are not very plentiful either, and the prices of all roses are so high that the smaller retail dealers find much difficulty in handling the flowers at a profit.

While carnations are coming in in fairly large numbers, the scarcity of roses helps to advance the price, and for the time being, the grower who has enjoyed a good harvest.

Lilies have fallen off somewhat in supply, and as a consequence an advance in values is noted. Other bulbous stock, such as Roman hyacinths, tulips and Paper White narcissus are good carnations may be sold to be enjoying a good harvest.

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Lilac is in regular supply; some days it clears out nicely, while at other times it is hard to move. Cattleyas have not been selling so well for some reason or other, and C. Percivaliana has at times been unloaded at very low figures. Gardenias continue to come in regularly, and there is little change in their values. Lily of the valley is plentiful and there are several grades in the market. Violets are selling fairly well, though the price for the best does not exceed 10 cent mark.

CHICAGO.—The past week has been a varied one as to weather, starting with snow followed by rain, then a severe touch of extreme cold without sunshine for a long time. This condition makes flowers very scarce. Bride and Bridesmaid roses are not coming in very plentifully; good flowers bring as high as 15c. Carnations, on account of the scarcity of roses, are holding up well in price. There are quite a number of white tulips, yellow narcissus and Paper White coming in. Callas and Easter lilies are more plentiful. Asparagus Sprengeri being scarce makes quite a demand for other greens. The price of ferns has advanced owing to the failure of a great many from cold storage to keep well.

BOSTON.—Market conditions remain quite satisfactory. The good prices of a week ago have been maintained all the past week. In roses there seems to be a scarcity of short-stemmed flowers while long-stemmed sorts bring extra good figures for this season. American Beauty still sell at \$9 per dozen for the best. Richmond and Liberty bring \$4 and \$6 per dozen; Killarney, Wellesley, and the best grades of Bride and Bridesmaid \$2 and \$4 per dozen. Carnations keep their end up; fancies bring \$6 and \$8, while the better grades of standard sorts realize \$3 and \$5. Lilies sell at \$12. Lily of the valley has been selling well at \$2, \$3, \$4 and \$5; Bulbous stock has been bringing better prices than usual; yellow narcissus realize \$3 and \$5; Paper White narcissus \$2 and \$3; hyacinths \$1 to \$4, while tulips readily fetch \$3 and \$4. Mignonette, small, brings \$2 to \$4. Violets are plentiful at 35c. and 60c. J. W. D.

PHILADELPHIA.—There is a great scarcity of cut flowers of all kinds, and while there has not been any great advance in prices it has been a very difficult task for the wholesale dealers to satisfy their customers. The most difficult feature has been in filling ship orders as those customers, not being in touch with the situation, cannot understand a slight advance in price or why they don't get exactly what is ordered.

The best American Beauty are selling at \$9 per dozen. There is a large demand for flowers from \$3 up, and orders cannot be filled. Tea roses range in price from \$6 to \$12 per 100; a few choice Killarney and Richmond have sold at \$20. To obtain white roses appears to be almost an impossibility; they are in strong demand. Cattleyas bring 40c. and 80c. per flower; cypripediums \$15 per 100. Gardenias, \$3 to \$4 per dozen, with supply equal to demand.

Carnations, general stock, are selling at \$3 to \$5 per 100, some choice flowers at \$6 and \$8. Bulbous stock is cleaning up well every day, Roman hyacinths at \$2 and

\$3 per 100; daffodils, \$3 to \$4; Paper White narcissus, \$2 to \$4; tulips, \$1. Bouvardia brings \$4 per 100; mignonette, \$3 to \$8, and in good supply.

There is a strong demand for Lilium Harrisii; cut blooms are selling at \$15 to \$18 per 100. Both white and yellow daisies go quickly at \$3 to \$4 per 100. Violets are selling very slowly, \$1 per 100 being the price for best doubles. Adiantum cuneatum fronds fetch \$1 per 100; A. Leyanum, \$1.50 per 100. There is very little asparagus coming from local growers, but a fair supply is arriving from the South, 50c. per bunch is the usual price. Sweet peas are generally not up to proper quality; they sell at \$1 to \$1.50 per 100. Lily of the valley is at from \$3 to \$5.

INDIANAPOLIS.—The past week's conditions were such that the bright side of the florist's business is related with difficulty. Stock suffered much throughout a week of warm, drizzling weather, coupled with enough downpours to flood a large section and to fill the cellars of growers with water. Notwithstanding the unusually small cut



H. R. Frankland, Pres. Toronto Horticultural Society.

of flowers, prices decreased in all lines. Counter trade has been exceedingly dull. The end of the week brought with it quantities of funeral work, which aided materially in reducing the surplus.

Bride and Bridesmaid roses, the latter somewhat bleached, have been selling readily at \$6 to \$10 a hundred. Richmond at \$7 to \$12. American Beauty at \$5 to \$25 a hundred found a poor market. A few Golden Gate specials bring \$8.

At least 50 per cent. of the carnations are split. Enchantress and other fancy varieties sell at \$3 to \$4 a hundred; medium grades being \$2 to \$2.50; 75c. and \$1. a dozen is the store man's price.

Spring flowers, such as jonquils, sweet peas, mignonette and daisies, are often requested of the retailers.

Violets are more plentiful but the quality is often lacking at 75c. to \$1 a hundred. Excellent lily of the valley is to be had at \$3.50 a hundred. Callas and Harrisii lilies find a regular sale at \$10 to \$12.50 a hundred.

Plant trade has been better than other lines; a well grown azalea, cyclamen or dish of lily of the valley being preferred to cut flowers. ST LOUIS.—The condition of the market the past week was about similar to that of the week previous. The weather was very bad—rain all week and very little sunshine. Some of the retailers complain of dull trade. A fair amount of social work was done in weddings, dinners and receptions, also some funeral work. The stock of roses was not so plentiful as it has been. Bride were very scarce; also American Beauty, which are ranging in price from \$3 to \$4 per dozen for choice. The smaller roses sell for \$5 to \$10 per 100.

Carnations are plentiful enough for the demand, with \$5 the top price for fancy; good whites and pink bring \$2 and \$3 per 100. Mrs. T. W. Lawson are coming in of better quality. Enchantress is the best seller.

In bulbous stock, Roman hyacinths and Paper White narcissus are more than plentiful, the demand not being heavy; prices run from \$1 to \$3 per 100. Callas realize 15c. for choice. Freesias are beginning to come in. Lily of the valley is selling somewhat slowly; supply good.

California violets are down to 25c. and 50c. per 100 with more in the market than the demand calls for. In general everything is in plenty, at usual prices. ST. PATRICK.

Minneapolis.

The Seventh annual Midwinter picnic of the Market Gardeners' Association was held at the Masonic Temple, Saturday afternoon and evening, the 19th; over 1600 gardeners and their friends being present. The afternoon program consisted of addresses by N. H. Reeves, president Gardeners' Association, Mayor J. C. Haynes, S. B. Green and an exceptionally fine reading by Mrs. E. W. Phipps, musical numbers by some of the talented musicians among the members and their families. Then the supper; everyone came prepared for this event, in true picnic style. Baskets were unpacked and vands spread in the large dining hall. After the supper a program of twenty-two numbers was danced.

Much credit is due to our secretary, E. O. Ballard, and the members of the various committees for the great success of the event.

BOSTON, MASS.—On Tuesday, January 22, the store of Penn, the florist, at 41-3 Bromfield street, was damaged to the extent of \$1,500.

W. W. Rawson celebrated his sixtieth birthday on Wednesday, January 23, by entertaining about 400 of his friends at dinner in the Vendome Hotel.

LONOKE, ARK.—The Arkansas Nursery Company has been incorporated with a capital stock of \$25,000, one-half paid up. H. Cates of Little Rock is president, J. M. Cobb, secretary and treasurer. The stockholders are H. Cates, J. M. Cobb and Mrs. Virgina Cobb. It is located near the corporate limits, and will employ a number of people.

ITHACA, MICH.—D. Kleinhaus, who last Spring erected about 4,000 feet of greenhouse at St. Louis, Mich., has just taken his brother into equal partnership with him in the business, and the new firm will be known as Kleinhaus Brothers. They will erect another house this Summer and will grow a full line of cut flowers and potted plants.

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John Heidenrich
Treas.-elect Indiana State Florists' Association

CLUB AND SOCIETY DOINGS.

CONNECTICUT HORTICULTURAL SOCIETY.—The regular meeting of this society was held in County Building on Friday, January 11, President Sternberg in the chair. It was "carnation night" and there was a large attendance of members. Splendid exhibits were tabled by F. R. Pierson Company, Tarrytown, N. Y., and A. N. Pierson, Cromwell, Conn. Among local exhibitors were: John Coombs, J. F. Huss, supt. to J. J. Goodwin, and Carl Peterson, superintendent of the Whiting greenhouses, West Hartford. The following awards were made by the judging committee: F. R. Pierson Company, for the fine new variety Winsor, diploma. For Helen Gould, Melody and Rose-pink Enchantress (as one exhibit), certificate of merit. A. N. Pierson was awarded a diploma for an unnamed seedling which, under the electric lights, looked a rich, glowing scarlet. It is a fine, bold flower, with stiff, erect stem and was greatly admired. A certificate of merit was also awarded to A. N. Pierson for a handsome exhibit of Robert Craig and Rose-pink Enchantress. J. F. Huss and Carl Peterson were each awarded a certificate of merit for general displays of carnations. Mr. Huss read an instructive paper on "Carnation Culture" for which he received a vote of thanks.

As a proof that our society is becoming a power in the community, seventeen new members were added to the roll.

Visitor: Ulysses G. Scollay of John A. Scollay, Brooklyn, N. Y.
ALEX. CUMMING.

MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY'S eleventh annual smoker was a most enjoyable affair. About 140 members, guests and friends were present. Little business was transacted. A vote of thanks was given F. R. Pierson Company for the magnificent vase of Winsor carnation sent for decoration; on a previous occasion it got a certificate of merit. A. J. Guttman sent Pink Imperial for which a vote of thanks was also given. It, too, got a certificate of merit previously. Wm. Duckham exhibited, what to most of us was entirely new, a pan of Moschosma riparium. It is a grand Winter-flowering plant, 3 to 5 feet tall, white flowers resembling at a distance those of some spiræas. It is a labiata or mint. You could see nothing but flowers, individually small but almost countless. A balance of \$408.23 was reported in the club's treasury.

The entertainment committee did themselves great credit—coffee, sandwiches, cigars and Totty's famous punch were in plenty for all. The Rickard Brothers brought their friends and materially helped to entertain. Some professional talent of a high order was also with us. We had many out of town guests, among them Wm. Turner and Mr. Goemans of Oceanic; Mr. Ross of Tarrytown; H. L. Hand, of Portchester, N. Y.; Harry Turner, Castlegould, L. I.; and a delegation from Orange, N. J. With us, too, was Harry A. Bunyard of A. T. Boddington, New York, and Mr. Sperling of Stumpp & Walters Company, both of whom helped us to make merry. In local talent we were not wanting, singing, joking and merry-making carried us to 1.30 a. m. when with a lusty three cheers for the Morris County Gardeners and Florists' Society all hied for home.
E. R.

NEWPORT (R. I.) HORTICULTURAL SOCIETY.

—The first regular meeting of the new year of the Newport Horticultural Society was held Tuesday evening, January 8, President Bruce Butterton in the chair. The executive committee of the society held a meeting a few days previously when the following recommendations were the result of the deliberations: That two exhibitions should be held by the society this year, and that both be held in Masonic hall; that at least one thousand dollars be given in premiums exclusive of medals and other marks of recognition; that the price of admission be 25c. instead of 50c. as was customary in years past; that in order to draw a large attendance music and dancing should be provided upon the last evenings of each exhibition; all of which met the hearty approval of the society and were adopted. In connection with the decision to hold two exhibitions it may be stated that until a few years ago this society held two such exhibitions and a departure was made because it was thought that if one large exhibition was held in the Casino, which is the rendezvous of the organization, a larger share of the patronage of the four hundred would be bestowed. But the results from the change did not warrant the consequent neglect of things that should claim recognition if an early Summer exhibition was held to continue the large single Casino exhibition hence the turn around now. The first exhibition will take place in June or early in July when outdoor roses are at their best; the other will be held in September when dahlias are in like condition, although, of course, neither exhibition will by any means be exclusively for either of these features but will include groups of plants, specimen plants and all kinds of cut flowers, fruit, vegetables, and decorations.

The annual ball of the society was held in Masonic hall Tuesday evening, January 9. The selection of those composing the committee of arrangements was assurance that the affair would be a success, but the decided success it turned out to be surpassed all expectations. The decorations of the hall were very effective. The stage was tastefully decorated with bay trees and palms intermingled here and there with foliage plants of brighter color. In the front, as a border, were placed numerous Gloire de Lorraine begonias, the gift of Messrs. R. & J. Farquhar of Boston for the occasion. The ball started at 9 o'clock when Daniel Coughlan and Mrs. Wm. Allan, Jr. led the Grand March, from which time on into the "wee sma' hours" the enjoyment of all present was steady and uninterrupted. The committee of arrangements was composed of Messrs. J. T. Allan, Daniel Coughlan, Alex. Fraser, R. A. Smith, T. B. Connelly, B. M. Anthony and the president. The reception committee comprised James Robertson, J. Gibson, Col. A. K. McMahon, Dr. A. J. Anderson and D. McIntosh. Out of town friends of the society who took an interest in the ball included representatives of Weeber & Don, Hitchings & Co., Stumpp & Walter Co., of New York; R. & J. Farquhar and Schlegel & Fottler Co., of Boston.
D. M.

L. E. Marquisee's New White Carnation'

Originator's Description.

THE MARCHIONESS.—This seedling is in its third year. It is a very large, high-built, perfectly formed flower, practically non-bursting, extremely free, quick to mature bloom, very early and continuous, producing large, full flowers early in September and full crop in October. It is the freest carnation we have, or ever have seen.



Marchioness
Grower, L. E. Marquisee.



A. F. J. Baur
Secy.-elect Indiana State Florists' Association

Cycas Leaves.

Kreshover vs. United States.

U. S. Circuit Court, Southern District of New York, January 8, 1907. Suit 4088.

1. Ornamental Leaves—Cycas Palm Leaves Prepared—Wreaths.

Cycas palm leaves, which have been subjected to processes that restore their natural appearance and prevent decomposition, are within the provision in paragraph 425, tariff act of 1897, for artificial or ornamental leaves; and they are not removed from this provision by being arranged in wreaths on wire frames.

2. "Manufacture"—Preservation of Palm Leaves—Wreaths.

The preservative treatment of palm leaves and their arrangement in wreaths on wire frames do not result in such a change in their character or use as to remove them from the provision for "leaves" in paragraph 425, tariff act 1897, to that for "manufacture" of palm leaf in paragraph 449.

On application for review of a decision of the Board of United States General Appraisers.

In the decision below the Board of General Appraisers affirmed the assessment of duty by the collector of customs at the port of New York on goods imported by L. J. Kreshover.

HAZEL, District Judge: The articles in question, consisting of cycas palm leaves and of wreaths made of such leaves, were assessed for duty at 50 per cent. ad valorem under paragraph 425 of the present tariff act, which includes artificial or ornamental leaves, flowers, and stems of whatever material composed, not specially provided for. The protest states that the leaves and wreaths are dutiable at 30 per cent. ad valorem under paragraph 449 which includes manufactures of palm leaf or of which the same is the component material of chief value, or, in the alternative, at 20 per cent. ad valorem under section 6, as non-enumerated manufactured articles. The importers contend that the leaves and wreaths, having passed beyond the condition of mere leaves, are not properly dutiable as artificial or ornamental leaves. The proofs show that the natural leaves are first dried, then boiled in a solution of glycerin, and after again being dried are varnished, the purpose being to restore their natural appearance and prevent decomposition. The single question is whether the articles are more specifically described in the paragraph under which the importers claim they are dutiable, or whether the classification of the collector was correct. It seems to me that, as the object of the treatment of the leaves was to prevent decomposition and to retain or restore their original appearance, they are more appropriately included in the category of artificial or ornamental leaves and can not be classed as an article of manufacture. The wreaths of leaves, it is true, were made in part of metal—that is, the leaves were suitably attached to a circular thin wire frame. The collection of leaves in a wreath was not a transformation or alteration of them; and the wire attachment certainly was not a component part of the wreath, but seems to have been merely an incidental part thereof. No new branches or parts were added. The treatment did not result in a change of the leaves from their former appearance. There was no advance in manufacture in the sense that the process of preservation destroyed the original articles or made them useful for other purposes or altered their trade designation. *Hartranft v. Wiegmann* (121 U. S., 609).

In the cases of *In re Sheldon*, G. A. 4247 (T. D. 1982), and *G. A. 4580* (T. D. 21625), which counsel for the importer points out were followed by the circuit court in the cases of *G. W. Sheldon & Co. v. United States*, No. 3264 (T. D. 26101), and No. 3281 (T. D. 26462), single palm leaves that had been chemically treated were held to be dutiable under paragraph 449 as manufactures of palm leaf, but the question as to whether such articles were dutiable under paragraph 425 was not presented or considered in those cases. The principle of *De Jonge v. Magone* (159 U. S., 562) is not inapplicable, and therefore the decision of the Board of General Appraisers is affirmed.

FOR THE RETAILER

Flowering Shrubs and Garden Flowers.

The forcing of flowering shrubs and garden flowers at this season of the year has become quite a business with some up-to-date growers; and I feel sure these have proved a more than welcome addition, both from the florists' point of view and that of their customers, who grow tired of seeing the same roses and the same carnations, etc., day after day, in our ice boxes and displayed in our windows; although there seems to be an almost endless variety at all times. But the arrival of the flowering shrubs makes a pleasant change, and gives fastidious customers something more to select from, and new ideas for their dinner tables.

Another advantage of flowering shrubs is their length of stem, something we are all looking for at this season, when American Beauty roses are at a premium, and their purchase can only be afforded by our more wealthy patrons.

I am of the opinion that there is a large field opening for the grower of a good class of stock in this line, and undoubtedly it would prove a source of large profit if handled properly. For decorative purposes there is nothing that will give more satisfaction for large effects for the florist's window, the home, or church, than Forsythia suspensa, with its long graceful branches of small bell-like flowers growing in such profusion along the stems, that the total absence of foliage at the flowering period is hardly noticed. Its delicate fragrance is another attribute that recommends it and makes it one of the most popular shrubs for forcing purposes. Fyris japonica, or Cydonia japonica (Japanese quince), with its pretty pink blossoms, is also a great favorite with our customers, and lasts splendidly. Prunus cerasus (Japanese flowering cherry) is very good both for cutting or in plant form, especially when dwarfed, as introduced by the Japanese.

Most of the fruit trees are good for forcing, but are more liable to drop than the kinds mentioned. Peach, apple and the cherry have been used.

Deutzia has also been tried, but drops immediately after coming into full flower and for that reason has been discarded by most florists. Lilac, of course, is no longer a novelty, but has been in general use for years, both purple and white, although the former is seldom to be had in sufficient quantities and a larger supply would be most welcome.

There are doubtless many other varieties of shrubs that would be worth trying. The beautiful wistarias are most desirable as pot plants; also the European laburnum, with its lovely clusters of yellow flowers. This latter has been forced in small quantities with great success, and brings fancy prices as a novelty. There are hosts of others that will merit the attention of any enterprising grower, who would experiment along these lines.

Among the garden flowers that are being forced for the retail trade this season, perhaps the English wallflower, Cheiranthus cheiri, claims the most attention from our customers. A very good supply of this charming old flower has been sent into the market this Winter and proves to be quite popular. It is immediately noticed by customers who are attracted by its odd coloring of rich golden brown; it also has a perfume all its own, that is as refreshing as that of violets and much more enduring.

The antirrhinum, better known as snapdragon, although not here in any quantity at present, is extensively grown for the New York market. Its great assortment of coloring, with its odd-shaped flowers, is quite an attraction. Last Winter it could be had in almost any quantity, some of the spikes ranging from three to four feet in length. It has proven to be extremely useful both for vase work and table decoration. One of the largest dinner decorations I saw last Winter, in which antirrhinums were used, was a marvel. The colors were mixed, ranging from red and purple to white, most of the spikes being used full length, making a wonderful display. Very good effects may be obtained by using them in separate colors, white, and yellow being especially good.

White stock, or gillyflower, is another garden subject that is very useful; some of the colored varieties are also good. The white sorts have been especially well grown of late years, and are quite an addition to our Spring flowers.

Myosotis, the Baby primrose, pansies, etc., all help to make a variety, and the grower of such should receive every encouragement. It is not what we like, but what will suit our customers, with their ever-changing tastes and ideas, that counts.

Richardias or callas, for some reason in past years have lost caste, but I am glad to say are coming back into favor, and are now seen in our best stores and sell to our most critical customers. This surely is a good sign, as I have always admired them and consider them among our more artistic flowers.

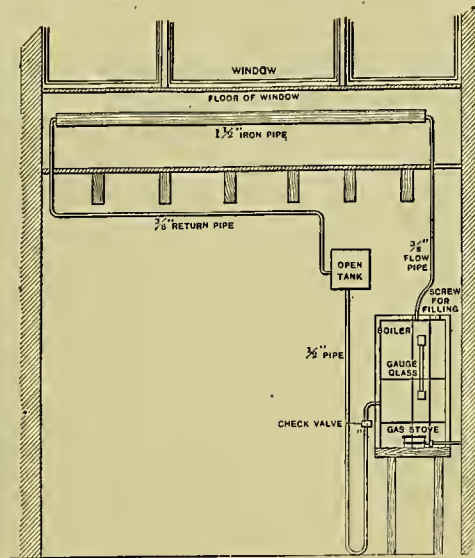
I was surprised to hear the tuberose is the fashionable flower this season, but have been unable to find a reason for it. We have had several members of the smart set insist on having tuberoses, but the flowers seem to be unusually scarce, so we were unable to gratify their wishes. D. RAYBUN.

Preventing Frost on Show Windows.

The annoyance of the store window covered with vapor or with frost during cold weather is an ever recurring one that has given rise to a good deal of ingenuity in developing plans to overcome and prevent it. A tastefully arranged display, one which probably represents hours of preparatory thought, hours spent in the actual arrangement, and in some cases no inconsiderable amount of money, is often practically entirely hidden from passers by through the collection of frost, which moreover is apt to remain on the glass for long periods at a time. The presence of the frost is, of course, due to the condensation of moisture in the air within the room on coming in contact with the cold glass surface, the glass being able to carry away the heat rapidly into the outside air. On account of a relatively high amount of moisture present in the air within the store and the high heat transmitting capacity of the glass the water stays on the glass and if the atmosphere on the outside is cold enough freezes.

Any account of a method of preventing the trouble is sure to be interesting, as one method or suggestion may be impractical in the case of a given show window, while another may be just the thing.

The accompanying idea and the sketch were recently submitted to The Ironmonger of London, by F. S. Francis of New Cross Road, London, England. In his case a window 18 feet long and 14 feet high was the proposition which had to be taken care of. He tried to prevent the window steaming by sending along it sheets of warm air, this tending to



Steam Heating Outfit to Prevent Window Steaming.

provide air that has a higher capacity for moisture than the rest of the air in the display space, besides bringing in contact with the window a supply of air so warm that the window has no time to cool it off sufficiently to bring about the condensation. He tried piping, carrying hot water for the purpose, but the result was that the window would only be cleared of condensation for a distance of 3 or 4 feet from the bottom.

Subsequently he employed 1 1/2 inch piping along the floor of the window about 1 1/2 inches from the glass, heating the pipe by means of steam. This he used through the fogs, which are a notorious characteristic of London atmosphere and which, he says, are the worst in respect to bringing about frost deposition. The steam is generated in a small boiler holding about 4 gallons of water. This is fixed in the cellar and heated by means of a gas burner. He had some trouble at first to prevent the boiler emptying itself, but a siphon and check valve, as shown in the sketch, have overcome this trouble.

The boiler is formed out of tin plate and is 12 inches in diameter and 11 inches high. It is inclosed by a stout sheet iron plate, which forms a 3/4-inch annular space around it, this space affording a passage for the hot products of combustion on their way from underneath the boiler, the arrangement thereby utilizing to a maximum the heat from the gas combustion. This outside guard is 1 1/2 inches higher than the top of the boiler, and it is suggested that a further economy might be effected by covering this with slag wool or asbestos. The check valve is of the mushroom type, made by one of Mr. Francis' own workmen.

The head of water represented by the difference between the position of the open tank, as shown in the sketch, and the opening where the water enters the boiler is about 1 1/2 feet. The results were so successful that the boiler has now been connected to two other flow pipes, each system returning to the open tank. These systems serve two lengths of 1 inch steam pipe in the shop. This is doubtless used for warming purposes in the shop, and it means that the small boiler effectively heats 18 feet of 1 1/2 inch steam pipe and two 12-foot lengths of 1-inch flow and return, 48 feet in all.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 MADISON AVENUE. My facilities for delivering flowers for any and all occasions are unexcelled; I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

LAMBROS MULINOS, 503 Fifth Avenue, and 301 Columbus Avenue. I have at all times a superb stock of seasonable cut flowers and can fill telegraphic orders at a moment's notice.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Oratlot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders, placed with us, will receive careful attention.

Denver, Colo.

THE PARK FLOREL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLOREST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Tex. and La. Mail and telegraphic orders solicited.

The question of fall is a matter of some importance. The pipe in the window drops 1 1/2 feet in the 18 foot total length, finally dropping sharply to the open tank; the other pipes have about 1 inch fall. The windows are open, so that there is no difficulty about ventilation, and Mr. Francis is of the opinion that in the case of a closed window some means of allowing the hot air in the window to escape might be necessary.

It would be interesting to know from readers something of their experience in the prevention of frost on show windows. No doubt a considerable number have employed schemes of the general lines described in the foregoing, where direct radiation is extended across practically the entire window front and where the temperature of the radiating surface is high enough so that a fairly warm sheet of air is continually sent upward along the window surface.

The feature of the arrangement which perhaps appeals more than anything else is the simple heating apparatus, which can be readily made in any shop. Where stoves are employed for warming, it is naturally difficult to see how a positive supply of air could be carried directly to the window and do very much good in keeping the window cleared. Where stoves are used for general warming, an independent heating outfit, like that shown, is a relatively inexpensive property, and needs only to be run when the outside weather conditions tend to shut off one's window from the public view.—The Metal Worker.

Trials and Tribulations of Detroit Florists.

(Paper read by E. A. Scribner before the Detroit Florists' Club, January 16, 1907.)

This subject covers a wide field. Most of us have been told either personally or by articles we have read that it is a good business policy to square yourself with the customer no matter what the financial cost or injury to your feelings may be. They say it is better from a business standpoint to submit and hope to play even or better than ever on some future transaction.

The troubles I will call your attention to are actual difficulties that different members of the club, including myself have had to contend with.

Mrs. D. steps to the telephone on Christmas day and notifies us that Mrs. So and So has sent her a George Washington cherry tree and "will you kindly send for the one you have just delivered and exchange it for a Boston fern." Now this request, or one very similar comes to all retailers and if it happens to be a good customer what will you do about it? Of course, a customer was justified, but is it fair to hang a dealer because some of his help put a red cover on a Simon Mardner azalea; or after going for a fern dish and planting it with eight ferns and delivering it for 65 cents, then have to call and get it because some other fellow had consented to plant it for 50 cents?

Another case. A lady calls and selects a Piersoni fern at \$1.25 which, by the way, was well worth the money. She has it delivered on Friday in time for a card party; then the following Wednesday she calls up and wants you to "please come and get the fern as it is not satisfactory." As Mrs. F. belongs to one of the oldest and best known families in the city you would hardly like to cry out "stop thief," but what would you call such a deal?

Then you sell a palm in fine condition to a pretty good customer and in three weeks get a request to come and take it back as it is not doing well. Although the deal was entirely closed, as one might expect, you have to take a practically dead or at least a worthless palm back on your hands with no chance to get even on future deals although John hopes to.

Of course, once in a while there is a funny side to a question. For instance, we sell a Gloire de Lorraine begonia to be sent to a party who is sick. The begonia is set inside an open window and gets a draught for a few hours because they know that "plants need air." Next day about noon time every flower had fallen; but in this case it was very easy to show that the plant froze although nothing else in the city froze, unless it was another begonia.

Another aggravating circumstance. A florist sends a poinsettia plant in an 8-inch pot by boy direct to the customer. Very soon he receives a telephone message requesting him to come and get the plant as the pot has been broken. Sure enough it was broken and the plant completely spoiled. Another plant must be sent to square the deal, although no doubt the first plant was delivered in good shape.

This next is a deal between a grower and a retailer. The first daffodils of the season sent to the retailer were in 6 and 8 inch pots, with 20 to 30 blossoms. He kicked on paying 40 cents per pot. Afterward the grower learned that the retailer cut four dozen flowers off the plants and sold them at \$1.25 a dozen and use the pots for a table decoration at \$1 each and got them back in the store next day and sold them at \$1 each. This, you see, is an instance where the grower got a kick from a source that would forever make him suspicious of that retailer.

Another trouble comes from the customer who wants to know what will be in next week. You remember that Mr. Grower has told you that he would have some fine stock of a certain kind next week and you straightway recommend such stock. After booking an order the time comes for you to deliver the goods. You call up Mr. Grower only to find the best sold or they are not quite ready. Then imagine the rest!

Or take a holiday customer. Where you explain to a good customer the conditions that make the price high, he gives an order and after two weeks, comes in to pay his bill. Perhaps that very day he has inquired of some other dealer about prices and found them lower. He may pay the bill but with much dissatisfaction, feeling he has been done.

Another trouble. When sales are good on a certain line the retailer orders from the wholesaler accordingly, only to have his order cut in two, which, of course, is a heavy loss. Later stock becomes more plentiful and Mr. Wholesaler fires in double the quantity although sales are only normal. Easy enough to see the retailer gets hit again.

Then again this trouble of delivering from one end of the city to the other where dwells a population of 400,000 is something terrible to think of, but there seems to be no way out of it, so we must be content.

Again, a new customer moves into the neighborhood. Almost the first deal she has, she asks to have a fern cared for, as it is not doing very well. After Mr. H. explains very fully that owing to lack of room and various other reasons he could not very well accommodate her, he finally consents to take the plant, and after three weeks he gets a telephone call: "If the plant is in good condition, please deliver it to Mrs. So and So up near the water works." Now, following a crow's tracks with a flying machine this distance would be at least eight miles; or, traveling in the usual way, about nine and one-half miles. But after explaining that the plant had only

just begun to recover and looked pretty much as it did when we took it, our prospective new customer was very much put out. With the average florist it does not take much "chinning" from a prospective customer of this calibre to bring out the request that she "go and dust herself."

Another circumstance, which while perfectly legitimate, might ruffle one man's temper a little. A goes to a grower and gets first choice of 50 plants at \$6 a dozen, which he sells at a uniform price of \$1 each. B gets from the same lot second choice of 50 plants and puts them on sale at \$1.50 each. Of course it is not long before he is reminded that he is asking altogether too much or, in other words, the customer can buy cheaper of the other fellow.

Another grower gives an experience that is surely aggravating. He gets a telegram at 1 a. m. to ship a lot of flowering plants by the morning boat. Of course, that means all hands get up and hustle. By keeping at it the plants are shipped as requested and on time. After a wait of three weeks for his money, \$80, he gets instead a notice that the buyer has been closed out on a mortgage held by his father who is a minister in active service of the Lord, with an inclination to do a little of old Nick's work on the side. He never got a cent for his plants. This same man sent a full load of geraniums to a party after a description as to size and color, and at an agreed price of six cents. He got word from the driver, after a seven mile drive, that the plants were not high enough, but would be accepted at four cents. This being clearly a "hold-up" they were ordered back. After an exposure of a 14-mile drive in the hot sun it looked like quite an extensive loss. Fortunately another buyer came along about the time the plants had taken water and bought them at 7 cents, somewhat smoothing over the troubles of the grower.

Another trouble that is serious to either the grower or retailer is the matter of giving credit. If you wish for convenience sake to buy goods on credit at one of the down-town stores you make a personal visit and offer a line of references which, if accepted, makes both a pleasure and a profit for the merchant to do business with you. In the florist business here in Detroit any one can get credit for the asking. The result is every retailer in the city has a lot of worthless accounts on hand that tangles his hair every time he thinks about it. Just imagine a one-horse Woodward avenue florist, who has been in business but a short time, sending out over \$1,600 in bills the first of January, with no hope of ever collecting more than half the amount! I believe this one trouble is why so many of our florists tumble into bed clothed in only a 50 cent night shirt and a troubled look, too infernally poor to borrow a razor to cut their corns with. It seems to me that this club is strong enough and harmonious enough to at least partly correct this growing evil.

Of course, the florist's troubles are measured by the temperament of the florist himself. What would be very annoying to one might not trouble another at all. Just so with the customers. A lady comes to me with a tale of woe, telling how some florist has swindled her. I see that my brother florist knows nothing of the circumstance and persuade her to go and explain the matter to him. She afterwards tells me the matter has been straightened out to her entire satisfaction.

Another customer will use up a lot of time you can hardly spare, telling what she knows about flowers, how beautiful they grow in California, and so on, finally perhaps buying a few flowers with the request that they be delivered at once three miles away, the cost of delivering being more than the profit on the purchase.

Another would-be society woman, who has been reading about Mrs. So and So's reception, has made up her mind to have something very similar and wants for about \$2.50 what was worth nearly \$100. Such customers can rarely, if ever, be satisfied.

Then another kind of customer comes in, usually a man, who don't know one flower from another. He takes a long time leading you to believe he will

buy heavily. After you are about worn out from too much "chin" he buys perhaps 25 or 50 cents' worth.

Another trouble that this club has somewhat smoothed out, but not entirely squelched is the donation to our church fairs. You will remember all over the city are churches of various denominations and everyone of these churches has from one to a dozen helping hand combines, every one a grafter. "Either give us an advertisement for our paper or program or a plant for our first prize and another for our second prize and a few flowers with which to decorate our tables." Now every plant given to any of these people is sold in one way or another and, of course, amounts to a handicap inasmuch as it supplies a want that might be satisfied by the purchase of a plant of some dealer. Of course, these pleaders for the church always offer an argument that we owe everything to the church for its civilizing effect, when every student of social science knows very well that the church, up to date, has done almost nothing for the betterment of humanity.

The fraternal societies are almost as bad in their demands. I don't believe any florist gets returns from any money he may pay into this kind of advertising.

Still another trouble of the retailer. Mr. Smoothman calls with a line of novelties, just out and something particularly fine. Mr. Florist in St. Louis ordered a million, and in Chicago Mr. S. got several orders for a carload. Finally you place a small order for what proves to be a flat failure and this repeated a few times finds you surrounded with a lot of plunder that has cost you good money and is not worth a hurrah in Hades.

There are a thousand and one other troubles that have no room for discussion, so I will just merely relate them as they have a funny side to them, although at times are very serious.

Mr. C., who is a member of this club, started in business over thirty years ago, had got his house pretty well filled with seedlings, and one morning while he was outside doing a little work, a flock of 20 or more of his neighbor's chickens got into the greenhouse. The task of driving them out was so difficult that when every chick was driven out, most of his stock was also out and Mr. C. was nearly out of business. He had a similar experience later when two women came, each with a dog. The dogs very soon got into a fight that lasted until a bed of young smilax was destroyed, also several other plants and a lot of pots. Only by the utmost strategy did the florist keep the women apart, which otherwise would have been his second finish.

In conclusion I wish to say I have asked many brother florists to give me an account of any aggravating circumstance of late happening and the replies have been very numerous. Of course there were many troubles coming to the several florists in common so I have mentioned only a few that would bear discussion. One rather philosophical brother thinks the troubles of the florist are no greater than the troubles of men engaged in other lines of business and winds up a friendly and very welcome letter with these lines: "I expect to pass through this world but once, any good which I can do, therefore, or any kindness I can show, let me do it now, let me not defer or neglect it, for I shall not pass this way again."

LEGISLATION AGAINST PLANT DISEASE IN ENGLAND.—A bill is now being drafted in the legal department of the Board of Agriculture for the purpose of providing the Board with the powers necessary to deal with the importation as well as the extermination of all diseases of a nature likely to spread to the detriment of plant life in this country.—The Gardeners' Chronicle.

Coles's New Carnation House.

The accompanying illustration shows Mrs. Lawson carnation in W. W. Coles's new carnation house at Kokomo, Ind. Here is an excellent example of the advantages of a light house.

This house is of the King truss construction with the glass laid the long way, 24 inches between the bars. The dark weather of the past two months has shown its effect on another carnation house on the place, which is of wooden frame and the bars spaced 16 inches apart. The cut in the old house has decreased while in the new one the plants are as healthy and vigorous as though they had been blessed with plenty of sunshine, and the cut is constantly increasing.

The two benches in the foreground are planted with Variegated Lawson, with White and Pink Lawson at the other end of the house. The two benches on the right contain several new and several of the standard varieties. The old house had the advantage of being planted a month earlier, the new one not being planted till late in September, owing to a delay in getting the bench material.

TRAVELER.



Coles's King Construction Carnation House

THE WEEK'S WORK.

Timme's Timely Teachings.

Asparagus.

Good, young plants of Asparagus plumosus for the making of new beds in June are obtained with easy facility by sowing the seeds now. And while providing stock for that purpose it is well to go considerably beyond the limit of what might seem sufficient for the size of beds to be stocked, so as to have plenty of plants from which to select the thriftiest for bedding. There need be no fear of finding no good use for those left over, since there are so many ways in which these asparagus plants prove most serviceable material right along throughout the entire year that I have never yet seen the time when there were too many of them.

The same may be said of Asparagus Sprengeri, of which sowings should now also be made. It is an easy matter to nurse up a batch of strong and lively seedlings for the many uses to which they can be put during the coming season and a much more reliable method of providing stock in this line than depending on old, exhausted stools.

For the starting of asparagus seeds one may use ordinary seed trays and a nice grade of well-enriched, sandy soil. In a house of steady warmth, especially if given bottom heat, the seeds will come up quickly so that in five or six weeks the little plants will have reached the right size for being transplanted into 2-inch pots, which should be of the deep or rose type. By keeping them in a temperature of 65 degrees with light, moisture and air judiciously afforded, they will rapidly grow into plants requiring a shift into 3-inch pots, a good size for the planting of permanent borders.

Smilax.

In June or July we renew our smilax plantations, and as with asparagus we prefer young stock for the new start, which, however, is not absolutely necessary in every case. Whether or not it is safe to rely on an old bed, which has already done well for one or even several seasons without renewal depends much on conditions, soil and mode of treatment. Planting with new stock does away with all uncertainty as to the final outcome, a point which is well worth the extra trouble and expense that the raising of young plants may bring with it.

The seeds of smilax are also sown now, and as advised for asparagus, requiring the same kind of soil and degree of temperature. When the little plants show four leaves the first shift from seed box into 2-inch rose pots is given, to be followed by another later on into 3 or 3 1/2-inch pots. During all this time they should have a warm stand in a house of at least 60 degrees of heat, with plenty of light and moisture. When in the 3-inch pots it is time to transfer them to mildly warmed hotbeds out of doors, if such are available. There is nothing in which young stock of smilax—and of many other things, too—can be brought to such perfection, as in a well-working and properly attended hotbed.

In planning new smilax and asparagus plantations for next June or July the following points of importance should be borne in mind: A steady heat of not less than 60 degrees throughout. Winter, plenty of head-room and a deeply worked, heavily enriched soil, a solid bed always being the best place.

Begonias.

Small plants of Begonia Gloire de Lorraine left over from a trade now past, can be grown into very fine specimens for next season's trade. They should be stood in place rather dry and in not much over 50 degrees in heat. In April or May the old earth is shaken off the roots, the top cut down and a replanting into fresh soil and as small plants as possible takes place. Large plants of this begonia, left over from the holidays, are treated in the same manner. If too large to be kept over they may be utilized as stock plants for Spring propagation. In that case they will need no further transplanting. If started into new growth at the latter part of April, an abundance of fine shoots will be had a month later, which will furnish all the cuttings needed.

Many varieties of the flowering greenhouse begonias may now be propagated with the best of success. The new shoots are in place rather dry and sturdy plants of the kind of cuttings to be taken. Rex begonias can also now be propagated, and plants so obtained will during the Summer grow

VICK'S ASTER SEED

The Standard of Excellence

Vick Quality ASTERS Introduced by us grown everywhere.

- Vick's Branching (7 colors)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Mikado
Vick's Violet King

How To Grow Asters is a little handbook compiled by us for the practical uses of Aster Growers.

Price 10 Cents Free with an order of Aster Seed.

SPECIAL OFFER One paper of each of Five New Varieties and How to Grow Asters for \$1.00.

SEND FOR OUR NEW Illustrated and Descriptive

Aster Book For Florists

It describes in detail not only the varieties originating with us but also all the other leading sorts.

The largest and handsomest work of its kind ever issued.

Intended only for wide awake florists who appreciate the fact that

The Best Quality is Always the Cheapest

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JAMES VICK'S SONS ROCHESTER, N. Y.

The Leading Specialists and Largest Growers of High Grade Asters in the World.

Five New Varieties For 1907

VICK'S SUNSET. Companion to Daybreak and Purity, in color a delicate pink shading to a deep rich pink in center. Profuse bloomer. Price per packet, 25c.; 2 pkts. 40c.

VICK'S UPRIGHT. Long graceful stems branch out at the ground and grow directly upward. Flowers are symmetrical, double and full to the center. Splendid for cutting. Especially valuable for shipping. Price per packet, 25c.; 2 pkts. 40c.

VICK'S ROYAL PURPLE. An offshoot from the Branching. Unlike its parent it sends out stems close to the ground. A medium early variety but lasting until late in fall. Nearly every stem produces specimen flowers. Price per packet, 20c.; 2 pkts. 35c.

VICK'S BRANCHING ROSY CARMINE. A new color in the Branching Class. Leading florists pronounce it a shade which will be popular with the trade. Price per packet, 25c.; 2 pkts. 40c.

VICK'S CARDINAL. The best bedding Aster ever introduced. A good one for cutting. With its profusion of flowers and brilliant coloring it makes a handsome showing. Price per packet, 25c.; 2 pkts. 40c.

As we would like to know where you saw this ad, please mention The Florists' Exchange when you write.

into good-sized market plants for next year's trade. Well-ripened leaves are used for propagation.

Good plants for Summer blooming, either in pots or outdoor borders, may be had by sowing the seeds now of tuberous-rooted begonias, if the seedlings are kept going in warm and otherwise favorable quarters. At any rate they will be good stock for next year, if started now. A sandy, fibrous loam should be used in the seed pans.

Bedding begonias of the Verner and semperflorens types can now be propagated from cuttings, and would not be too late, if started from seeds at once. All seeds of begonias are small and should be scattered thinly.

Gloxinias.

Earthenware seed pans are to be preferred to wooden boxes for the starting of gloxinia seeds, which should be sown now. A layer of roughly broken up, well-decayed sod soil in the bottom of the pans will assure good drainage, which, with seeds of this kind, should always be looked upon as an important essential to satisfactory results. On this layer finely sifted, sandy compost is spread, which forms the surface for the reception of the seeds. With a smooth piece of wood seeds and soil are firmed and then carefully, but thoroughly watered. Placed on bottom heat in a warm house and covered with pans of glass or paper, the pans will be covered with the young growth in a few weeks, when this direct covering must be removed. In an even temperature of about 65 degrees, and when under the watchful eye of a careful grower, there will be little danger of losing any. A uniform degree of health-promoting moisture can easily be held in well-drained pans, and this is the point on which the welfare of the seedlings mainly depends. It is best not to disturb the roots of small gloxinias any more than is just necessary, and for this reason they are not pricked off into other pans or trays unless a damping off sets in, or they are sown too thickly. If they can be left in their first seed pans until large enough for being potted up into 2 or 2 1/2-inch pots, they will be far better plants than if they should be placed over bottom heat, and when established and beginning to make decided headway the period of anxiety and possible danger has passed. From now on gloxinias are easy enough to manage. In a warm house and moist atmosphere, tempered by judicious ventilation, the plants will reach their last shift in excellent condition.

Primula Obconica.

Sowings of Primula obconica can now be made. Well-drained flats or seed pans and a porous, turfy soil should be used for the purpose. The soil must be evenly spread, the sides of the pan not to be forgotten in firming. The seeds are sown thinly, pressed into the soil, slightly covered and then thoroughly watered. Placed on a bench with bottom heat, and covered with boards on paper, the seeds will not be long in testifying to their vitality by showing growth above ground. It is then time to remove all top covering and to admit the full light and some air on favorable days, the allowance to be increased as the plants make headway and Spring draws nearer. Primulas, unlike gloxinias, are benefited by frequent transplanting from box to box, rapidly gaining in vigor and size by being so treated. They should not be put in pots until well advanced and ready for the 3-inch pots. A still surer way to plant sturdy seedlings that have already undergone a pricking off once or twice into the free soil of a mildly warmed hotbed at good distances and let them there grow into full size for the last shifts into pots.

Some Other Seeds Now to be Sown. Besides the seeds of bedding plants now to be sown and spoken of in a former paragraph, there are a few good things, easily raised from seeds, which also should now be started. Of these I will name Grevillea robusta, Musa Ensete, Draebina indivisa and Aralia Sieboldii. All these are most useful wherever plants for the general market and for the filling of vases and boxes are raised. The seeds of Ten-week stocks, Empress candytuft and mignonette for early Spring cutting and Memorial Day trade should also now be sown.

Poinsettias.

Left over plants of poinsettia, now beginning to drop their leaves, must be allowed to gradually dry out in their pots and given a rest of two or three months. Any fairly warm place under some bench where water cannot reach them will do for them until the beginning of April, when they are potted up into fresh soil. Then stood on a warm and well-lighted bench, and slowly started into growth, an abundance of tolerably firm, new wood will be had for propagating in May, which usually results in finer stock than that obtained by rooting pieces of the old canes. These plants, grown from cuttings of the newly made growth, attain a greater height, which is not a desirable trait, it is true, but they also produce the most magnificent bracts—a distinction worth striving for, when growing poinsettias for cuttings. Those propagated from well-ripened old wood are easier worked into well-branched, compact bushes.

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ARNOLD'S TELEGRAPH CODE... 2.50 By E. A. Arnold. The most valuable and complete code on the market; thoroughly intelligible; covers every need of the florist, seedsman, and nurseryman. Every one of these eminently practical books, written specially for the trade, should be in your library. We will deliver the six books above listed, carriage paid, on receipt of \$10.50.

THE GARDENER'S ASSISTANT (2 volumes) \$15.00 The Standard Encyclopedia on practical and scientific horticulture.

Prospectus of Any of the Above Books Will Be Sent Free on Application.

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SCHULTHEIS' SUPERIOR STOCK

Araucaria Excelsa, 5 1/2 in. to 6 in. pots, \$1.00, \$1.25, 4 to 5 tiers; 7 in. pots, \$1.50, \$2.00 and \$2.50; 8 in. pots, 3 1/2 ft. tall, \$3.00.

Azaleas, beautifully flowered, just right, 50c., 75c., \$1.25, \$1.50, \$2.00, \$2.50 and \$3.00 each. Miniature azaleas, \$4.00 and \$5.00 per doz. Also pyramids in quantity from 4 in. 5 in. and 6 in., \$7.00 each.

Begonia Gloire de Lorraine, \$9.00, \$12.00 per doz. Wire hanging baskets, \$1.25, \$1.50 each, can be planted to order.

Pyramid Box, 3 ft. high, \$2.50 to \$3.00 a pair; 3 1/2 ft. high, \$4.00 a pair; 4 ft. high, \$4.50 and \$5.00 a pair; 4 1/2 ft. high, \$6.00 and \$7.00 a pair; 5 ft. high, \$8.00 a pair; 5 1/2 ft. and over, perfect specimens, \$9.00 a pair.

Boston Ferns, 5 in. pots, \$3.00 per doz.; 8 in., \$2.00 each; 9 in., \$2.50 each. Specimens in 12 in. pots, \$5.00, \$6.00 and \$7.00 each; 14 in. pots, \$15.00 a pair.

N. Elegantissima, 5 1/2 in. pots, \$4.00 per doz.; 6 in. pots, \$6.00 per doz.

Scottii Ferns, 6 in. pots, \$4.00 per doz.

N. Whitmani, 4 1/2 in. pots, \$9.00 per doz.

N. Piersoni, 8 in. pots, \$15.00 per doz.

Lilacs, white and purple, in pots, \$2.00; also larger plants.

Tulips, in pans, 35c., 50c., 75c. and \$1.00 each.

Tulips, in flats, \$2.00, \$2.50 each, 50 in a flat.

Hyacinths, doz., \$2.00.
Crocus, blue, white and yellow, 35c. per doz.
Snowdrops, 25c. a pot.

COMING ON FOR EASTER!

3 houses Crimson Ramblers, Dorothy Perkins, in all shapes; **Baby Ramblers**, **Lilac**; **Heather**, yellow, pink, white, shell-pink; **Boronia**, **Acacia**, **Oranges**, **Azaleas**, and two houses of **Lilies**.

Aspidistra green, 5 1/2 in., \$9.00 per doz.; 6 in. pots, \$12.00 per doz.; 6 1/2 in. pots, \$18.00 per doz.

Daisies, English, \$12.00, \$18.00 and \$24.00 per doz.

English Ivy, 4 1/2 in. pots, \$2.00 per doz.; \$15.00 per 100; 3 to 4 ft. high.

Kentia Forsteriana, combinations, 3 and 4 plants in an 8 in. pot, \$2.50 to \$3.00; 9 in. pots, \$5.00 each; 10 in. pots, \$6.00 and \$7.00 each.

Kentia Belmoreana and **Forsteriana**, all sizes, single and combinations, from 5 1/2 in. pots, 75c., \$1.00 to \$10.00 each. Give us a trial.

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Euphorbia Fulgens.

A very near relative to poinsettia but greatly differing from it in character is *Euphorbia fulgens*, or *E. jacquiniiflora*, under which name it is also known. Although as easily propagated and in about the same manner as the poinsettia it is somewhat harder to grow into well-branched, shapely bushes, such as in fullest measure justify the pride of the good grower. When well grown and in full bloom it is one of the gems of the hothouse. It also does admirably well in dwelling rooms, lasting in flower for months, and for this reason, I think, it should be more extensively grown by commercial florists than is the case at present. It is altogether an easily managed subject, only baffling the grower's efforts in this one respect, that it refuses of its own accord to break into enough side growth consistent with the making of a compactly shaped plant—an attribute desirable in nearly all potted plants, but especially so in its case. To some extent, and often to the grower's entire satisfaction, this difficulty is overcome by bending down the shoots, which is not so dealt with, will not respond to pinching in or cutting back, and only push forth another single shoot.

Young, well-ripened wood is the best for propagation, and the cuttings, after having bled and dried off, root quickly. Bottom heat and a pretty warm corner in the propagating bed, with moderate moisture at first, tends to accelerate root formation. After being potted up and all through their subsequent stages of growth they require lots of moisture, heat and light, with a short intermission in the fall, when the plants should have a rest to bring about thorough ripening of wood, on which profusion of bloom depends. In repotting older plants a very turfy, roughly broken up soil is used.

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After being once firmly established in a well-prepared greenhouse border few indoor climbers excel *Lapageria rosea* in point of attractiveness. Grown in pots or tubs they may be had in full bloom in any living room under the care of the most unpracticed hands. The conditions of the greenhouse or cool conservatory, however, are most likely to set forth the plant's exquisite qualities. This is probably the best time for an endeavoring the best method of propagation of lapagerias. Slant side shoots, bent down and kept moist at the joints, immersed in soil, usually furnish all the plants needed. It will prove a good plan, if many are wanted, to select one or more of the strongest potted plants and set these in the center of a nicely prepared bit of solid border. All the shoots may then be utilized in the making of young stock by layering, the canes to be held down by pegs all around the plant. Only the strongest of the new plants will prove entirely satisfactory. Those of feeble growth and sparingly rooted will never

The Heather

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amount to anything worth carrying along. The same remarks apply to plants of *lapageria* raised from cuttings or seeds. Well-decayed turfy sod, dug at the edges of ponds, intermixed with sandy, friable loam and rotted manure is good soil mixture for these beautiful climbing plants. Well-established specimens need feeding when nearing their flowering season.

Bougainvilleas.

Easter comes early and bougainvilleas wanted for that holiday must now be aroused from their state of semi-dormancy. If the wood is well ripened there will be little difficulty in having them covered with exquisite bloom by Easter. Very strong forcing in a heat higher than 65 degrees often causes buds to remain blind or to open imperfectly. A slow start in a temperature of 50 degrees with a gradual rise up to 60 degrees, as the new growth advances, will likely be the extent to which forcing need be carried to bring out the plants in good time. When making growth they require much water and daily sprinkling—essential points in their treatment. Potted bougainvilleas given pleasing shapeliness by wiring, staking and tying and successfully brought into flower, are most attractive subjects, lasting in bloom a long time. Permanently planted out in a warm border of an intermediate house, they furnish an abundance of valuable, long-lasting cut material. Cuttings from the new growth root easily from on.

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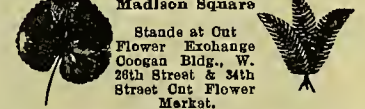
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New York.

News of the Week.

Quite a number from this city left on Tuesday evening over the New York Central Railroad for Toronto, Ont., to attend the annual meeting of the American Carnation Society. J. R. Fotheringham and J. I. Donlan, who will represent F. R. Pierson Company at the meeting, left on Monday evening in order to be there in good season to see to the proper displaying and to the artistic arrangement of the carnation Winsor. Mr. Pierson is to make an elaborate exhibit of this new carnation and is sparing no pains to that end.

The trustees of the New York Florists' Club held an important business meeting on Monday evening. The dinner committee of the club has made arrangements to have the annual dinner at the St. Denis hotel on Saturday evening, February 23. The award committee paid an official visit to the establishment of Dailladonze Brothers, Flatbush, Brooklyn, on Thursday, January 17. President Charles H. Totty is suffering from an attack of the grip. Secretary John Young was slightly indisposed with a hard cold the latter part of last week, but is again fully recuperated.

Many beautiful floral tributes were sent by the trade both wholesale and retail, to the funeral of the late James Mallon, the veteran Brooklyn florist, which was held on Tuesday morning last.

At the recent meeting of the Economic Entomologists of the United States, held in Columbia University, a resolution was adopted recommending uniform inspection laws as applied to nursery stock.

R. McNeff, one of the traveling men for the seed house of Wm. Elliott & Sons, 201 Fulton street, this city, met with a rather severe accident while driving in New Canaan, Conn., recently. The horse ran away and McNeff was thrown out of the vehicle and was bruised considerably; no bones were broken fortunately, and he is now almost recovered and ready for the road again.

It is believed by some of the bowling enthusiasts that the only way to have a successful and well-attended bowling club in this city is to hold the meetings in the afternoon. Members of the craft here reside out-of-town mostly, and when bowling meetings are held it means great inconvenience and not reaching home before the early morning hours, which makes life too strenuous altogether for many. If some one will start an afternoon bowling club, we think it would meet with the approval of a great many and would be a success from the start.

The Holland bulb drummers have begun to arrive, one vessel that reached this port a few days ago having twelve of these energetic salesmen on her passenger list. It would seem that these harbingers of Spring have now got the robin and swallow beaten to a standstill.

The New Jersey Floricultural Society holds its annual smoker at 240 Main street, Orange, on Friday evening, February 1, at eight o'clock.

Philadelphia.

The Week's News.

The topic one hears on every hand this week is the scarcity of cut flowers. The grower is downcast, as the elements are against him, and while prices are good he cannot produce. The retailer cannot get just what stock his customers order; and the commission man who, from the standpoint of the other two, always has the best of the deal, is in hot water with everyone. And with all this the cloudy weather continues. To illustrate the scarcity, the writer saw a shipment of roses unpacked Tuesday. Usually there are upwards of 200 Bridesmaid daily from this grow-

er; to-day there were 39. One box held his entire shipment; usually there are five and six boxes.

Victor Groshens has finally decided to locate at Hillside, Montgomery County, and has bought 20 acres of ground adjoining Edw. Towill and Adolf Farenwald. He has placed an order with Lord & Burnham Company, through D. T. Connor, their representative here, for material for two houses each 29 x 500 feet; these are to be trussed houses, open underneath and to include all latest material, such as iron gutters, etc.

The following left here Tuesday evening for Toronto to attend the Carnation Society's convention: Edward A. Stroud, S. S. Pennock, Wm. P. Craig and Thomas Beattie.

There is considerable going on in the decorating line this week. The Wm. Graham Company had the Kettle Club banquet at the Union League. This is a very elaborate affair this year. It is to be an Italian garden effect. The same firm has a large affair at the Mercantile Club. The Habermehls have the Charity Ball at the Academy of Music, a masquerade ball at the Second Regiment Armory

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Miss Murray had a large trade in American Beauty roses and Gloire de Lorraine begonias. Joseph Bennett grew and sold at wholesale and retail the finest poinsettias I ever saw. The plants were very low, six to eight to the pan, and the color and finish were splendid. Harris & Hopton sold everything they had; not a single plant in bloom was to be seen on the 26th, and they carried a very large stock. No florist had a better display than the McKennas. Their store was decorated with red-shaded lights and their window decorations were superb. E. Graves reports an excellent demand for all lines. Hall & Robinson handled some excellent

TORONTO.—Business since the new year has been rather quiet, with stock by no means plentiful. The weather has been fairly mild, but generally dull, and flowering stock has suffered considerably, but the chances are that we will have some bright weather soon.

I wrote a few days ago that Jay & Son had sold their retail stand to Thomas Plumb, of this city. The deal, however, fell through, and last week Messrs. Jay sold to H. G. Dillemoth, who has for some years been manager of J. H. Dunlop's retail department. Mr. Dillemoth is one of the best store managers in Canada, is very popular in the trade, and there is no doubt of his success in his venture. He has the best wishes of all the growers that he has had dealings with. T. M.

Indianapolis.

News Notes.

The new carnation mender should find a ready sale these days! The argument is heard that carnations should be grown in a manner so that they will not burst. The grower in this section who has succeeded in doing so with the prevailing weather conditions is not on hand.

McKinley's birthday, January 29, is no longer a factor in this market. 'Tis to be regretted, but nevertheless true, that the American public readily forgets in the face of so many current events.

Geranium cuttings have been much in demand this year. Many of the leading varieties are not obtainable in this State, as an unusual number found an early sale.

Messrs. E. G. Hill and John Bertermann visited F. Dorner & Sons last week. Two houses of seedling carnations proved most interesting to them, as the veteran carnation grower always has a choice lot to review with his friends.

Baur & Smith are preparing to erect an additional large house the coming season, which is to be planted with roses.

Visitors: S. Meyers, New York; G. Reising, Chicago; C. Brough, Dayton and M. Lucas, Bloomington, Ind. I. B.

PARIS, TEX.—Hammond's gin, southwest of town, has been burned down. Seed house and contents also burned. Loss on plant, which belonged to D. S. Hammond and J. C. Smith, \$3,500; \$2,600 insurance. Caused by sparks from furnace.

New Rose Rhea Reid.

Rhea Reid is the progeny of a line of red seedlings, the immediate pollen parent being American Beauty. The bloom is of the very largest size and absolutely full; the bud is long and splendidly formed from its earliest stages throughout its development, and the open flower is as big and fine as that of an h. p. The texture is excellent; the color is a clear red, lightening in warm weather to a deep cerise and in Midwinter approaching the Richmond color. The variety is a strong, heavy grower, producing fine canes profusely, every one carrying a fine flower which opens freely. It is a wonderful producer even in dark weather.

The rose requires a rich, heavy soil and generous treatment, as one would infer upon the most casual examination of its growth and habit. To add to its other good qualities it is deliciously fragrant. It will be disseminated in 1908.

E. G. HILL COMPANY.
Richmond, Ind.

New Rose Rhea Reid

Originators, E. G. Hill Company

and the Midwinter ball at Horticultural Hall.

The following visitors were in town from Baltimore on Tuesday: I. Moss and G. Richmond. DAVID RUST.

MONTREAL.—Christmas trade totaled a large increase over last year's. All good flowering plants were sold. Cut flowers went well, but a lot of carnations and violets were left unsold; thousands of both the latter were shipped in at the last moment. The price of violets, \$30 per thousand and wholesale, is far too high for this market. In plants the poinsettia seemed to be the favorite, yet azaleas were in great demand. Cyclamen, ardisias, tulips in pans and baskets, daffodils trimmed with boxwood, and all kinds of ferns and palms sold well. Funeral work was very plentiful all through the holidays.

Richmond roses from the Bedford Park Floral Company; these were of the finest quality seen here. The specials were very large, on 30-inch stems. Their cyclamen were finer than ever before. Although I have no personal reports from the many other florists I can safely say that all did an excellent trade. The Dale Estate of Brampton, Ont., shipped a larger number of boxes of flowers than ever before, and every box was a credit to the firm. Their American Beauty roses were grand, and their orders were filled in a most satisfactory manner.

The club's prize essays for the past year were: Thos. Pewtress, "Orchids for Beginners," first prize; Geo. A. Robinson, "Ferns from Spores," second prize, and G. Vreagde, "Thorns and Thistles," third prize.

W. C. H.

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Alexander J. Guttman
THE WHOLESALE FLORIST OF NEW YORK
43 WEST 28th STREET
PHONES. 1664-1665 MADISON SQUARE
ENOUGH SAID

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SPECIAL VALLEY AND TOP GRADE ASPARAGUS
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Receiver and Shipper of all varieties of Cut Flowers
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Wholesale Prices of Cut Flowers, New York, Jan. 23, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special....	60.00 to 100.00	Carnations	Inf'r grades, all colors.....	2.00 to 3.00
	" extra	35.00 to 40.00		STANDARD White	3.00 to 4.00
	" No. 1	15.00 to 20.00		" Pink	3.00 to 4.00
	" No 2	8.00 to 12.00		VARIETIES Red	3.00 to 4.00
	" No 3	6.00 to 8.00		" Yel. & Var	3.00 to 4.00
	Bride, Maid fancy-special....	15.00 to 25.00		" White	5.00 to 6.00
	" extra	12.00 to 15.00		*FANCY-- grades of Pink	5.00 to 10.00
	" No. 1	5.00 to 8.00		" (The highest grades of Red	5.00 to 6.00
	" No. 2	4.00 to 5.00		standard var) Yel. & Var	5.00 to 6.00
	Golden Gate	4.00 to 15.00		NOVELTIES, Yellow	4.00 to 6.00
	RICHMOND	4.00 to 20.00		GARDENIAS, per doz	2.00 to 4.00
	Mme. Abel Chatenay	4.00 to 15.00		LILAC, per bunch.....	1.00 to 1.50
	ADIANTHUM .....	.50 to 1.00		LILIES.....	15.00 to 20.00
	CROWNEANUM	1.00 to 1.50		LILY OF THE VALLEY	1.00 to 4.00
	ASPARAGUS.....	25.00 to 50.00		" MIGNONETTE	2.00 to 6.00
" Plumosus, bunches	8.00 to 15.00	" NARCISSUS, Paper White	1.00 to 2.00		
" Sprenger, bunches.....	8.00 to 15.00	" NOVELTIES, Yellow	4.00 to 6.00		
CALLAS.....	16.00 to 15.00	" ROMAN HYACINTHS.....	1.00 to 2.00		
CATTLEYS.....	40.00 to 60.00	" SMILAX	8.00 to 12.00		
CYPRIPEDIUMS.....	12.00 to 15.00	" TULIPS	2.00 to 3.00		
DAISIES.....	1.00 to 3.00	" VIOLETS50 to 1.00		

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TOP GRADE FOR SHIPPING
American Beauty, Bridesmaid, Bride, Liberty,
Lilies, Lily of the Valley, Carnations
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Madison Square
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55 West 28th St., NEW YORK
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1st Floor. Telephone, 2921-5243 Madison Sq.
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SPECIALTIES—Violeta, Carnations and Roses
Shipping orders receive prompt attention. Con-
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Shipments of Plants made to any part of the
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WHITE VIOLETS,
\$1.50 per 100

CATTLEYAS,
\$50.00 per 100

CUT BOXWOOD
15c. per lb

Open from 7 a. m. to 8 p. m.

BEAUTIES } IN **WHITE LILAC**
CATTLEYAS } QUANTITY } **DAFFODILS**

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FANCY ROSES
FANCY CARNATIONS

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Wholesale Cut Flowers

Valley, American Beauties, Brides and Maids; Sprengeri, Asparagus Plumosus, Carnations and Violets, all seasonable flowers.
 Large stock of Stevia on hand, can supply you at lowest market prices at short notice.
 Telephone and telegraph when you need cut flowers to

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W. E. McKISSICK,

Wholesale and Commission Florist

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Wholesale Prices of Cut Flowers—Per 100

PHILADELPHIA CUT FLOWER CO.

Wholesale Florists
 1516-18 SANSON STREET
 High Grade Cut Flowers
 Open Evenings until 8.

Buffalo.

News Notes.

Charles Schnell, formerly of the Wm. Heegerer Company flower department, has started a store of his own on Broadway. John Barth, recently with Werrick Brothers, has taken the place vacated by Mr. Schnell.

The Buffalo Florists' Club met last week at Kasting's and formulated arrangements for a carnation show, also a dinner, in February. Messrs. Wm. Scott, W. A. Adams and Wm. Kasting being on the committee, ought to assure the members a good entertainment.

No doubt several of the local florists will attend the Carnation Society's meeting and show at Toronto.

W. H. G.

BANGOR, ME.—Carl Beers is back in the harness again after being out of the greenhouse business for three years and is once more owner and manager of the big plant on Mount Hope avenue which he built some time ago. He retired from the business three years ago but has been obliged to take possession of the plant which is in excellent condition and well stocked.

Mr. Beers has spent a year in Europe where he visited some of the most famous gardens and floral establishments of the world. He brought home many new ideas, choice bulbs and seeds and also some new wrinkles in decorating. He will as fast as possible open branch agencies.

COLORADO SPRINGS, COLO.—Holiday trade was at least 50 per cent. better than last year's. Plants were the leading feature. Made up ferns in birch bark sold well. In cut flowers violets led. American Beauty roses were a little too high-priced to move well; teas were in good demand at fair prices. Foinsetias, cut, did not hold up well and very few were sold. The cut flower trade was about the same as last year.

COLORADO SPRINGS FLORAL CO.

Easton Jan. 21, 1907	Buffalo Jan. 21, 1907	Detroit Jan. 6, 1907	Cincinnati Jan. 21, 1907	Baltimore Jan. 14, 1907	Milwaukee Jan. 6, 1907	Philadelphia Jan. 21, 1907	Pittsburg Jan. 21, 1907	St. Louis Jan. 21, 1907
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BOSTON, MASS.
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Asparagus Plumosus
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 Brides, 'Maids
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 Wholesale Growers of Roses and Carnations
 18,000 assorted GERANIUMS in 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000.
 Also rooted cuttings of all the leading carnations.
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FOR ROSES, CARNATIONS
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GIVE US A TRIAL WE CAN PLEASE YOU



CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY

White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00
 Bountiful. Per 100 \$2.75, per 1000 \$25.00
 Enchantress. Per 100 \$2.00, per 1000 \$18.00.
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 Catalogue Free.

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THE
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 Consignments Solicited

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 All telegraph and telephone orders
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 Wholesale Florists
RICHMOND, INDIANA
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 Rosa Growers and Commission Handlers
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FLORISTS' SUPPLIES
 Wire Work our Specialty.
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 Headquarters for American Beauty Rose
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 Careful attention to a
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 Send us your Orders for delivery in the
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L. L. MAY & CO.,
Florists, St. Paul, Minn.

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 Wholesale
 Grower of **Cut Flowers**
CHOICE AMERICAN BEAUTY ROSES
 We will take care of your orders at reasonable prices.
 Prompt Attention.
35 Randolph Street, CHICAGO, ILL.
 Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers, Chicago, Jan. 22, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		STANDARD	
38-inch stems..... per doz.	6.00 to 8.00	White.....	1.50 to 2.00
30-inch stems..... "	4.00 to 5.00	Pink.....	1.50 to 2.00
24-inch stems..... "	3.00 to 3.00	Red.....	1.50 to 2.00
20-inch stems..... "	2.00 to 2.00	Yellow & var.....	1.50 to 2.00
18-inch stems..... "	1.50 to 1.50	*FANCY White.....	3.00 to 6.00
12-inch stems..... "	1.00 to 1.00	(The high- Pink.....	3.00 to 6.00
8-inch stems and shorts	to .75	set grades Red.....	3.00 to 6.00
Bride Maid, fancy special.....	10.00 to 15.00	of 1st'd var. Yellow & var.....	3.00 to 6.00
" extra.....	8.00 to 10.00	NOVELTIES.....	.75 to 1.00
" No. 1.....	2.00 to 3.00	ADANTUM.....	.....
Golden Gals.....	12.00 to 15.00	ASPARAUS, Plum. & Teo.....	.85 to 1.50
Uncle John.....	5.00 to 10.00	" Sprenger, bunches.....	.35 to .50
Liberty.....	6.00 to 15.00	LILIES, Longiflorum.....	..... to 20.00
Richmond.....	6.00 to 15.00	HARRIS.....	..... to 20.00
Killarney.....	8.00 to 12.00	Orchids—Oatclay.....	50.00 to 75.00
" extra.....	15.00 to 20.00	SMILEY.....	12.00 to 16.00
Perle.....	5.00 to 10.00	LILY OF THE VALLEY.....	1.90 to 6.00
Obstansy.....	5.00 to 12.00	VIOLETS.....	.75 to 1.00
Callas.....	to 16.00	" single.....	.50 to .75
HYACINTHS, Roman.....	2.00 to 4.00	HARDY FERNS per 1000.....	2.00 to 3.00
Narc. Single Yellow.....	3.00 to 4.00	GALAX.....	1.00 to 1.25
Tulips, White.....	2.00 to 4.00	NARCISSUS, Paper White.....	2.00 to 4.00
" Yellow.....	4.00 to 6.00	SWEET PEAS.....	..... to 1.50
Mig' onette.....	2.00 to 4.00	.....	..... to
.....	.....	.....	..... to

J.A. BUDLONG
 37-39 Randolph Street, CHICAGO.

Roses and Carnations
 A Specialty....
WHOLESALE GROWER of CUT FLOWERS
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A. L. RANDALL CO.
 Western Headquarters for
 Up-to-Date Florists' Supplies
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 and FLORISTS' SUPPLIES
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C. C. Pollworth Co.
MILWAUKEE, WIS.

CHAS. W. MCKELLAR
Orchids
 FANCY VALLEY, ROSES, CARNATIONS,
 and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago

Mention the Florists' Exchange when writing.

VAUGHAN & SPERRY
Wholesale Florists
 WESTERN HEADQUARTERS FOR
**DOUBLE & SINGLE
 VIOLETS**
 Valley, Carnations and Roses
58-60 WABASH AV., CHICAGO

Mention the Florists' Exchange when writing.

to the second floor of Atlas Block. The steady increase of this firm's business has necessitated this change. Pochmann Brothers who have been badly crowded for space, will take up the room vacated by Bentley-Coatsworth which will give them the largest space devoted to cut flowers exclusively in the Chicago market.

Zech & Mann are in line with good Bride and Bridesmaid which sell at a premium these days.

A. L. Randall Company is busy making preparation for Easter supplies and already shows some very fine novelties in this line.

E. H. Hunt reports very good orders for Easter supplies.

Bassett & Washburn are showing some very fine American Beauty roses; as generally, their other stock is up to the mark.

J. A. Budlong reports a good crop of Bride and Bridesmaid.

Chas. McKellar quotes some very fine gardenias, also a quantity of Phalaenopsis amabilis.

Stollery Brothers of Evanston are bringing in some Ajax Princeps narcissus grown from Virginian bulbs, which is a novelty at this time of the year.

On Saturday night the temperature dropped forty-five degrees in a few hours, which made the growers huddle that were not prepared for such a change.

August Jurgens reports the bursting of his boiler on Sunday; he is thankful there were no serious results.

Secretary Hanswirth has returned from Boston, where he had been for a week taking over the business and papers of the S. A. F.

Among those who went to Toronto from Chicago were Mr. and Mrs. P. J. Hanswirth, George Asmus, August Pochmann, P. J. Feley, Mr. and Mrs. Leonard Kill, and Chas. Balluf.

A. Marshall, formerly with Reed & Keller of New York has opened a retail store at 6254 Ashland avenue.

Visitors: Mr. and Mrs. Elberfield, Kansas City, Mo.; L. H. Stafford, Marquette, Mich.; Henry Kusik, Minneapolis, Minn. WM. K. WOOD.

Boston.

News Notes.
 Adin A. Hixon, secretary of the Worcester Horticultural Society, delivered the second lecture of the Winter course of the Massachusetts Horticultural Society on Saturday. His subject was "Peach Growing in New England." There was considerable discussion by prominent fruit growers who attended the lecture.

Death has called away two prominent lovers of horticulture during the past week—Mrs. R. C. Heeper, a daughter of the late F. L. Ames, and owner of a fine estate at Manchester, and Geo. F. Fabyan, from whose Brookline estate many of the fine plants, like cyclamen, cinerarias, calceolarias, etc., have been exhibited at Horticultural Hall.

At the February meeting of the Gardeners and Florists' Club C. W. Ross, street and park superintendent of Newton, will give a talk on "Road-building." Mr. Ross is an expert in this line and his lecture will be of much value to the members.

The Hatch experiment station has issued a bulletin on a new moth of Japanese origin which has been doing injury to shade trees in the Dorchester district. This insect was first discovered on the home grounds of P. Welch, the wholesale florist, who called the writer's attention to it destroying maple trees. It is doubtful if it will multiply sufficiently to become a dangerous pest.

Peter Fisher has a grand showing of his new carnation Beacon at the present time and will send some magnificent blooms to the Toronto meeting. As a producer this variety is superior to any of its color we have ever seen, and is a variety that should be grown by both commercial and private growers.

Considerable anxiety has been felt by the many friends of Robert Cameron, who was in Jamaica only a few days before the earthquake. No anxiety is felt at Mr. Cameron's home, however, as the last accounts from him said he would leave Kingston on January 11 for Cuba.

P. R. Quinlan of Syracuse, N. Y., was among our visitors this week.
 J. W. DUNCAN.

E. H. HUNT
The Old Reliable
 FOR
CUT FLOWERS AND SUPPLIES
76-78 Wabash Avenue, CHICAGO.

Chicago.

News Notes.
 Vaughan & Sperry report that in addition to the large quantity of New York violets they are receiving a liberal supply of choice single violets especially the Princess of Wales. Percy Jones still has a good supply of hexwood that he says does not need assorting.

The Flower Growers' Market through its manager, reports that it is a very busy place these days, local buyers being able to get their wants from the different space holders there.

E. F. Winterston Company is receiving some especially fine Enchantress carnations.

J. B. Deamud Company is having a big run on ferns.

Bentley-Coatsworth Company has made arrangements for larger quarters and will move in the near future

ADVERTISING IN THE FLORISTS' EXCHANGE
IS SURE TO BRING RESULTS

Cincinnati, O.

The Week's News.

Devastation is the only word that describes what this and all other cities are passing through along the Ohio River at this time. The water at this writing is sixty-two feet high and will go to sixty-five feet upon the rise. All truck gardens in the Mill Creek Valley are covered and everything is destroyed. The places of Fred. Walz and Ben. Glins are nearly all under water and the stock ruined. All trains entering the city stop at Eighth street and will probably be driven to the outskirts of the city before Monday morning. Millions of dollars worth of property are laid waste, and business in the bottoms is paralyzed. J. Chas. McCullough's warehouse, as well as the store, is surrounded by water, with three feet of it on the first floors. His office now is at Third and Walnut streets, J. M. McCullough Sons Company's warehouse is also in the same condition. Relief committees are busy moving the destitute to places of safety and supplying food and shelter. Saturday last was the first day of sunshine we have had in weeks, and a faint ray of hope is now furnished. Fortunately, the weather is very mild; the thermometer stands at 70 degrees, whereas, if it were cold, untold suffering would exist.

Business with the retail stores is fair, taking all things into consideration, and all good stock is well cleaned up at the wholesale houses daily. More good roses could be used. Prices are holding fair. Carnations are more plentiful and narcissus and other bulbous stock plentiful.

J. A. Peterson, W. K. Partridge, R. Witterstaetter, Wm. Murphy and E. G. Gillett will comprise the party to Toronto.

Our visitors to see the flood Saturday were Joe Hill and wife and Master John Simon, son of Fred Simon. Master John was very much interested in the boats. E. G. GILLETT.

St. Louis.

News of the Week.

Visitors the past week were A. Schloss of Schloss Brothers, New York, with full line of ribbon samples; F. J. Farney, who represents A. L. Randall Company, Chicago, with a nice line of florists' supplies.

Mary Ostertag has opened her new store at the corner of Olive street and Vandeventer avenue, having moved from her old location at Grand and Olive streets where a new building will replace the old one.

The St. Louis Palm Company, for some time located at 1010 Olive street, is now out of the florist business.

Frank M. Ellis, formerly one of our wholesale florists, left last week Thursday for Panama to make his home there; his family will follow in about a month.

The Bentzen Floral Company has purchased a lot on Grand avenue and Herbert street and will build a store for its retail business, which has grown too large for the old location near Broadway.

John Cannon of The Cannon Floral Company at Webster Grove reports that he will erect a large building at the corner of his place for the government, to be used as a post office.

Among the florists who have entered the city bowling championship this week are C. A. Kuehn, J. J. Bencke, A. Y. Ellison and Louis Schwartzkopf.

Phil. Breitmeyer and M. D. Hulbert of Detroit, Mich., park commissioner and secretary to the commissioner respectively, spent Monday in St. Louis making the rounds of the parks with Commissioner Robert, Secretary Duffy and Superintendent Ostertag in an automobile, leaving for home on the 8:30 Wabash train. Mr. Breitmeyer and Mr. Hulbert visited the principal cities of the South on an inspection tour in the interest of the Detroit parks. As a memento, each of the gentlemen was presented with a Teddy bear by our Park Department.

The St. Louis Horticultural Society was to have held its first annual meeting on Tuesday night of last week at the Hamilton Hotel. Only ten responded to the call and it takes thirty to make a quorum, so those present held an executive session and decided to hold a Spring



The Whilldin Pottery Co.

STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA

WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.



flower show in March, the date and place to be made known at the next monthly meeting in February.

President Irish of the Florists' Club held an officers' meeting at the Hotel Rozier on Thursday night of last week. At this meeting it was decided to continue the securing of subscriptions for the flower show and raise, if possible, the \$10,000 fund by the February meeting, at which the time set will expire, unless the committee should ask for more time.

The list of prizes for the carnation exhibition for our next meeting was also completed as follows: Best twenty-five red, first \$5; second, \$3, third, 2; twenty-five light pink, \$5, \$3; twenty-five rose pink, \$5, \$3; twenty-five dark pink, \$5, \$3; twenty-five white, \$5, \$3; twenty-five variegated, \$5, \$3.

This will make up the \$50 allowed to the trustees for prizes. The premiums can only be competed for by local growers and club members. Growers of new carnations will be asked to show new varieties for the benefit of our local tradesmen.
ST. PATRICK.

San Francisco.

News Items.

Thomas Stevenson, who before the disaster conducted the flower store in the Palace Hotel as "The London Florist," has the right of way to resume his former business on the site of the old stand, when the Greater Palace Hotel is rebuilt and opened for guests, said to be April 18, 1909.

The inclement weather continues; stores have been devoid of shoppers, and florists have had to talk with their few customers by telephone.


All the growers in the county feel exceedingly sorry for Sidney Clack, of Menlo Park, who has had more than his share of hard luck the last year. First the earthquake, then a fire did a lot of damage to his place, and the week before last the unprecedented wind storm broke 250 to 300 boxes of glass besides doing other damage. Mr. Clack felt very much like giving it up, but innate love of floriculture swayed him to forget it, and now repairing is being pushed along vigorously at his place.

The Floral Flower Works Company of Eureka, Cal., has come to Oakland with a branch store and found a convenient show and salesroom in connection with the Piedmont Floral and Seed Company on San Pablo avenue.

The California Nursery Company of Niles, Cal., has gone South with a great sample stock and opened a sales-yard for the season in Los Angeles.

The largest cut of lily of the valley in the city for the record business incidental to the Christmas-New Year trade came from the San Mateo county growers, Schwerin Brothers, who had splendid success this year with their unusually large crop.

The Rising and Dunscomb Company, which recently succeeded the Ocean Park Floral Company, founded by E. J. Vawter, also succeeded to the names, good will and business of the Hollywood Rose Company and the West Park Nursery. At Ocean Park the concern has eighteen acres planted with carnations for blooming in the field. So great has the demand become that an additional ten acres is now being planted. There are also two acres of violets, narcissi, etc., in proportion. Asparagus is grown in large quantities, 20,000 strings being produced annually. There are three acres of roses for cut flowers and the local trade takes 20,000 rose plants a year. A retail store is conducted at Ocean Park and a wholesale head-



THE BEST
Bug Killer and
Bloom Saver
For PROOF
Write to
P. R. PALETHORPE CO.
LOUISVILLE, KY.

Pure Kiln Dried Sheep Manure

At wholesale and retail, also put up in packages expressly for retail trade. Nice advertising cards go with each lot. Write for prices.
Pure Culture Mushroom Spawn; the best that is made. Write for book, or better come and see them growing.

F. A. BOLLES
Coney Island Ave. and Ave. L, Brooklyn, N. Y.
Mention the Florists' Exchange when writing.

IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.

quarters has recently been opened at 205 North Broadway, in Los Angeles. J. L. Dunscomb, secretary of the company, is a former Chicago railroad man, full of push, and greatly pleased with Southern California as compared with the climate in the immediate vicinity of Dearborn station, where he spent many years.

ALVIN.

St. Paul.

Trade Notes.
Adolph Bagdahl, formerly connected with the Fleishman Floral Company, New York, is now doing the design work for L. L. May & Co.

Holm & Olson are gradually getting their new store fixed up, and when all of the fixtures which they have ordered and received are in place, the firm will have one of the handsomest stores in the country.

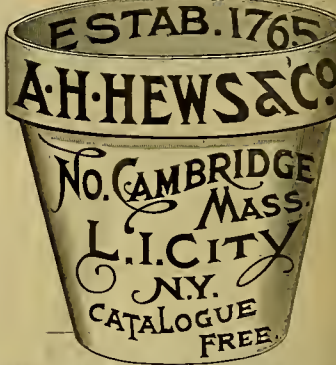
Wm. Hagemann, New York, was with us a few days the past week. He reports a very satisfactory trip so far, orders being away ahead of last year's.

The Remaley Floral Company is trying to dispose of its store, with the object in view of establishing a commission house. Mr. Ramaley's reason for selling is that he is tired of the retail business and long hours.

PAUL.

DAVENPORT, R. I.—The Tri-City Florists' Association held a meeting last week at Rock Island. The subject of discussion was "What Are the Best Plants to Raise for the Easter Trade?" After the meeting refreshments were served. The members will next be entertained by William Knees of Moline and the topic for the evening will be "Hotbeds, Their Making and the Best Flowering Plants to Grow in Them for Commercial Use."

FULTON, ILL.—Fred. A. Hills of the firm of Hills Brothers, proprietors of the big greenhouse industry near the Junction, recently sold his residence property in Morrison to C. R. Burroughs for \$2,000.



ESTAB. 1765
A.H. HEWES & CO.
No. CAMBRIDGE
MASS.
L.I. CITY
N.Y.
CATALOGUE
FREE

Mention the Florists' Exchange when writing.



THERE'S ONE BEST

In pots, just as in every other product and if you don't know that
Syracuse Red Pots
are "it" why you ought to order a lot and prove it.
Not to know this means a loss of profits. Order now.
Syracuse Pottery Co.
Syracuse, N. Y.

Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500 2 1/2 in. pots in crate, \$4.88	60 8	120 7 in. pots in crate, \$4.92	60 8
1500 2 1/4 " " " 6.25	60 8	HAND MADE	
1500 2 1/2 " " " 6.10	60 8	48 9 in. pots in crate, \$3.60	60 8
1000 8 " " " 5.00	48 10 " " " 4.80	800 8 1/2 " " " 4.50	24 11 " " " 8.00
800 8 1/2 " " " 5.80	24 12 " " " 4.80	800 5 " " " 4.51	12 14 " " " 4.50
800 5 " " " 4.50	12 14 " " " 4.50	144 6 " " " 3.16	816 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts., 31 Barclay St., N. Y. City
Mention the Florists' Exchange when writing.

Sheep Manure

Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.

Mention the Florists' Exchange when writing.

Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

GEORGE RIPPERGER,
LONG ISLAND CITY N. Y.

FREE HOSE

trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipe. Send for Free catalogue "Kay" Rollers, Ventilating Apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY COMPANY,
244 Fulton Street, New York City

PLANT CULTURE
PRICE \$1.00
A. T. DE LA MARE PTG. & PUB. CO.,
2 Duane Street, New York

ARE YOU GOING TO BUILD

Assure yourself of **HONEST COMPETITION** figures by obtaining an estimate from me on **Iron Frame or Sash Bar** greenhouses. My prices are the lowest for the best class of work.

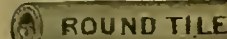
FRANK VAN ASSCHE

(FORMERLY SUPT. FOR WEATHERED)

FACTORY: Fulton and Rose Ave., Jersey City, N. J.

Mention the Florists' Exchange when writing.

TILE DRAINED LAND IS MORE PRODUCTIVE



crosses the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Lops, Encaustic Side Walk Tile, etc. Write for what you want and prices. JOHN H. JACKSON, 50 Third Ave., Albany, N. Y.

Newport, R. I.

Trade Notes.
This is the time of the year when a descent is made on Newport by the fascinating gentlemen representing the large retail seed houses throughout the country; and it seems that this year the number has rather increased than diminished. I say that these gentlemen of the road are fascinating and I say it in all earnestness; and were it not so I doubt very much if all of them would return to headquarters with orders sufficient to warrant their employers sending them again on a like errand. In case that in years gone by, in the ranks of the men of the road who came here to offer the gardeners the compliments of the season and incidentally take any orders given them, there were some unfortunates who went back with sad countenances, there may be a moral in the emphasis I put on the word "fascinating." Cudgeling no longer goes with the boys around here, if ever it did. Among the gentlemen who visited here recently was one from Boston, who possesses among other qualifications for his position the talent of story-telling in an unusual degree. He begins the practice of his art whenever he enters the potting shed or wherever else he finds his victim, and relaxes not for a moment until his departure, except to jot down the orders for packets as they are meekly uttered by the unsuspecting listener. Other men might think that dry reminders of the pressing needs of victims might be of more absorbing interest than the entrancing allurements of story-telling; but this man knows his business.

Among those visiting Newport last week was John H. Cox, representing F. R. Pierson Company of Tarrytown, N. Y. While in Newport Mr. Cox in his sales made specialties of cannabis King Humbert and Tarrytown, in consequence of which, it is understood, he received many orders. Both these cannabis are comparatively new and of great merit for bedding purposes, and there is no doubt that after they are seen here the coming season there will be a great demand for them for the following one.

Providence, R. I.

News Items.
Edward O'Brien, T. J. Johnston's reliable driver, has returned to duty after a week's illness.

John Goodwin, gardener at North Burial Cemetery, who has been ill the past 10 days with the grip, has returned to duty.

One of the most unique designs at the funeral of R. Downey was made by James B. Canning. It was a standing wreath 4 feet high and well proportioned otherwise, all made of bronze galax. One half of the wreath was brought out with Princess of Wales violets, the other half with Bride roses—the base was finished with HARRISII lilies.

J. L. Reynolds with John J. Johnston has recovered from another attack of the grip.

The many friends of Charles Johnston will be pleased to hear he is improving from his recent attack of grip and rheumatism. He expects to come home in a few days.

G. A. J.

NEW BEDFORD, MASS.—It is rumored here that S. S. Peckham will give up his store on South Sixth street in the near future and devote his entire establishment in Fairhaven to the growing of flowers and plants for the wholesale trade.

Holds Glass Firmly
See the Point **AF**. FULL SIZE N^o 2
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

GREENHOUSE GLASS
10x12 10x14 10x15 10x16 12x12 12x14 12x16 12x18 14x18 14x20 14x24 16x18 16x24
C. S. WEBER & Co.,
10 Desbrosses St., New York

For Greenhouses, Graperies, Hot beds Conservatories, and all other purposes. Get our figures before buying. Estimates free given

GLASS
N. COWEN'S SON,
14 & 16 Wooster Street. NEW YORK
Rochester, N. Y.

News Items.

After the very severe wind storm, which arrived from the west on Sunday morning, the city is again normal. A number of minor accidents happened; numerous ventilators of greenhouses were blown completely away, while all kinds of houses were given a severe test. Not much snow fell, but the continued dropping of the mercury was a source of discomfort to those having care of fires. However, we hope for a continued cold snap, if only to stop the ravages of the gripe.

The sympathy of the trade is extended to the relatives of Hearson Salmon, who passed away last week.

The Municipal Civil Service Commission met one day last week to establish a list of "feats" for applicants for positions of park foreman, foreman of city greenhouses and foreman of tree trimming. For the last named position practical tests were decided upon, to be demonstrated in the city parks under the supervision of Superintendent Dunbar.

Referring to business here, it has not been very brisk, which, of course, we all expect has been on account of the weather. Azaleas, which for the past two years have sold real well at this time of year, seem to be a somewhat poor investment at this time, although from past records the sales of this plant have increased steadily. Good material finds a ready sale at fair prices, the same values being asked for roses and carnations as last quoted. Violets, lily of the valley and bulbous stock move rather slowly, but on account of there being no great quantity shipped in, they generally are cleared up.

COCKNEY.

DAYTON, O.—The Miami Floral Company, of this city, has increased its capital stock from \$30,000 to \$50,000. Charles E. Pease is president of the company, William Kiefaber, Sr., is vice-president, and William Kiefaber, Jr., is secretary.

FRAMINGHAM, MASS.—S. J. Goddard has received from a firm in Europe an order for 10,000 Helen Goddard carnation plants.

SAVE TIME AND MONEY

OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING, VENTILATING APPARATUS, HOT-BED SASH

Putty--GREENHOUSE GLASS--Points

AT WHOLESALE

S. JACOBS & SONS,

GREENHOUSE CONSTRUCTION MATERIAL

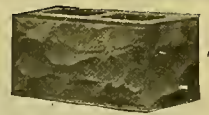
1365-79 Flushing Ave.,

BROOKLYN, N. Y.

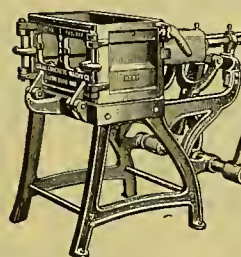
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FROST-PROOF ECONOMY

Ideal Hollow Concrete Block construction will protect your greenhouse from frost and secure greatest economy in fuel.



The illustration of hollow block explains its resistance to frost. With the Ideal Concrete Machine you can yourself make these blocks from sand, gravel and cement at little cost—far below the cost of brick, stone or lumber. Ideal Blocks not only give frost protection, but are absolutely fire-proof, and effect a perpetual saving in insurance.



IDEAL Concrete Machines

May be operated by any man without previous experience. The process of making blocks is simple as making mortar. Blocks for every building purpose, with plain, tooled, ornamental face or natural stone effect made with the same machine. Simple, durable and adaptable to any size block within capacity. Our catalogue will show you how to secure frost protection and fuel economy, as well as initial saving over cost of other materials. Write for it and it is freely yours.

IDEAL CONCRETE MACHINERY CO., Dept. Z, South Bend, Ind.
W. H. C. MUSSEN & CO., Montreal, Canada, Sole Agents for Canada.

Mention the Florists' Exchange when writing.

SCOLLAY BOILERS

ARE BEST

For Green House heating. Standard Cast Iron Green House Pipe and Fittings.

We are Headquarters for all sizes wrought iron pipe and fittings.

It will pay you to get our special quotation. We also contract for and erect Steam and Hot Water Heating apparatus in all parts of the country.

Illustrated catalogues free on application.

JOHN A. SCOLLAY,

74-76 MYRTLE AVE.,

BOROUGH OF BROOKLYN, NEW YORK CITY.

Telephones 1492-1493 Main. U. G. SCOLLAY, Manager.

Mention the Florists' Exchange when writing.

GEO. M. GARLAND
Iron Gutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at Chicago Flower Growers' Market. Mention The Florists' Exchange when writing.



WHEN IT COMES TO VENTILATING

your greenhouses, you want an apparatus that first of all is simple in mechanism and takes up least possible room—then it must have both ease of operation and speed of action. When a storm's coming, instant action is often required. —To "grind and grind" at such a time is often disastrous to your plants. Our apparatus is wonderfully light running and rapid. It's the best thing on the market for greenhouses.



Send for Ventilating Catalog

HITCHINGS & COMPANY

GREENHOUSE DESIGNERS AND BUILDERS
Manufacturers of Heating and Ventilating Apparatus

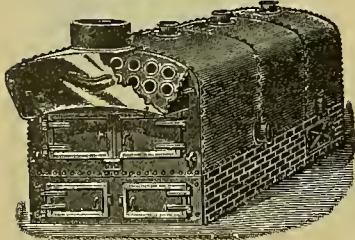
1170 BROADWAY, NEW YORK

Mention the Florists' Exchange when writing.



KROESCHELL BROS. CO. IMPROVED Greenhouse Boiler

33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information. Mention the Florists' Exchange when writing.



Your Money is well spent when you advertise in

THE FLORISTS' EXCHANGE

BEFORE YOU BUILD THIS YEAR
PERMIT US TO MAKE PLANS AND ESTIMATES

THE **FOLEY GREENHOUSE MATERIALS** THE BEST

ALL HEART SUN DRIED CYPRESS, UNEQUALLED
CUT EXACT SIZE AND FIT—PERFECT WORK

THE **FOLEY VENTILATING APPARATUS** THE BEST

ALWAYS SECURING PERFECT VENTILATION
ADAPTABLE TO ANY SIZED HOUSE. GET CIRCULARS

THE **FOLEY HOTBED SASH AND FRAMES** THE BEST

SASH OPEN OR GLAZED. STANDARD SIZES IN STOCK
GET OUR FIGURES AND SUGGESTIONS ON YOUR PROPOSED WORK
NEW ILLUSTRATED CATALOGUE, SENT POSTPAID

FOLEY MFG. CO., 471 W. 22nd St., CHICAGO

AFTER MARCH 15 WE WILL BE IN OUR MODEL NEW FACTORY AND
EXTEND YOU A HEARTY INVITATION TO COME AND SEE US



In Your New Houses

You surely wish to combine all approved new features of construction with the best grade of material at reasonable prices.

Write us for Estimates and Suggestions
THEY WILL INTEREST YOU.

Louisiana Cypress and Washington Red Cedar **GREENHOUSE MATERIAL**

A. DIETSCH CO.
615 Sheffield Ave., Chicago, Ill.

Mention the Florists' Exchange when writing.

PROMPTNESS AND GOOD WORKMANSHIP

The above combined with personal attention to all work, and the fact that I have in my employ men especially selected for their proficiency in greenhouse heating assures you of the best results possible for the amount of money expended.

Private gardeners and commercial florists in all parts of the country for whom I have installed work will verify the above (send for list).

IS YOUR HEATING PLANT IN ORDER FOR THE COMING WINTER?
IF NOT CAN SEND YOU COMPETENT MECHANICS AT ONCE.

Everything for Heating and Ventilating, Grates, Smoke Boxes, Etc.

WILLIAM H. LUTTON
West Side Ave. Station, JERSEY CITY, N. J.
Tel. 412 R. Bergen. Eastern Agent Furman Boilers, write for prices.

Mention The Florists' Exchange when writing.



IT'S not a cheap house neither is it expensive—that is if you don't figure expense all one way. U-Bar Greenhouses are the best greenhouses built because they grow better plants, stay in repair longer, and always look better than any other houses—now, they do cost a bit more to erect—but you get more from what you erect. Send for U-Bar Catalog. Pierson U-Bar Co., Designers and Builders of U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23 St., New York.

Mention the Florists' Exchange when writing.



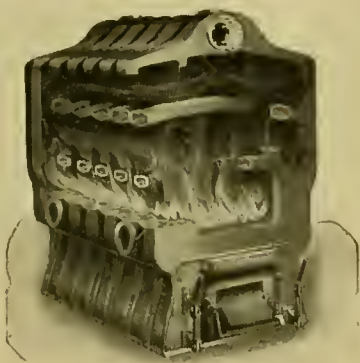
STANDARD Pumping Engines
If your business increases this year, what are you going to do about your water supply? Better have us help you. The Standard Pump & Engine Co. CLEVELAND, O.

Mention the Florists' Exchange when writing.



Evans Improved Challenge
Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGER the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere. QUAKER CITY MACHINE CO. RICHMOND, IND.

Mention the Florists' Exchange when writing.



The Greenhouse Boiler

"24° BELOW ZERO

and we had no difficulty in maintaining a temperature of 60°" is the testimony of a well-known Pennsylvania florist who is using my **GREENHOUSE BOILER.**

Let me quote you prices.

JOHN A. PAYNE

Horticultural Architect and Builder
33 Clendenny Ave., Jersey City, N. J.
Sash opening apparatus and all kinds of greenhouse structural material.

Mention the Florists' Exchange when writing.



The STANDARD VENTILATING MACHINERY

The original machine with self oiling cups; the most powerful, least complicated very compact, with ease of operation.

The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market.

The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

Mention the Florists' Exchange when writing.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.

Mention the Florists' Exchange when writing.

WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses Greenhouse (Heating and Ventilating Apparatus.

P. O. Address, Box 789, New York City.

Mention the Florists' Exchange when writing.

WE WILL PUT YOU IN

personal touch with some of our customers and show you how we have helped their business. They will tell you why it pays to get the best greenhouse material and why our material is the best.

IF YOU WANT US TO

we will send you the names of our customers who are nearest you and you can ask their opinion in the matter. Let us figure with you on the material for that next house now

JOHN C. MONINGER CO.

115 E. Blackhawk Street CHICAGO

Mention the Florists' Exchange when writing.

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS. IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS

DILLER, CASKEY & CO.

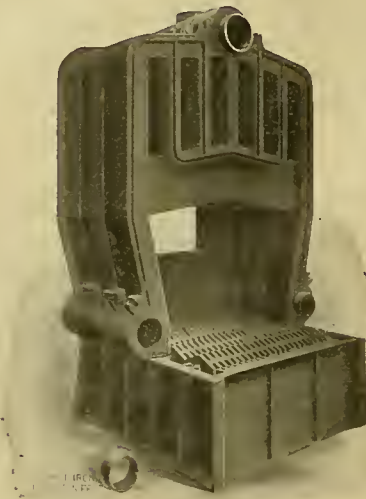
Successors to JENNINGS BROS

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA

GOING TO Build a Greenhouse?

Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.

The A. T. STEARNS LUMBER CO.
Boston, Mass.



To increase size of boiler, simply remove front section, attach extra base sections, put each section on base and tighten up. No entire new base to buy—no shipping back of old base, no taking of boiler down, no disconnecting of pipes.

We Have Something Particular To Say To You About Our Boiler

WE thought it particular enough to ask The Florists' Exchange to let us have a page talk with you. Well, last Friday afternoon I was being shown around one of the large Jersey ranges by the boss himself. When we came to the boiler cellar there was a great commotion going on—one of the sectional boilers was braced at the end with 3x4 scantlings, and one man was hitting the scantling with a wooden mallet to wedge it tighter, while three men were tightening the long tie rods that ran the entire length of the boiler. Here was a case of replacing a broken center section in one of those long tie

rod boilers, and it's exactly what you would have to do if you set up a new one. Every time a section is put on the base and pushed in place, the scantling has to be sawed off the thickness of the section and re-wedged again. When all the sections are finally on the base, the nipples in place and scantlings wedged down for the last time, then the bolts are tightened. The front and back sections are then pulling together and crowding the others tight—any uneven screwing up of the bolts, and it's ten chances to one you will crack a section. Now after it's all up and fire in, perhaps you find one section connection leaks, so the only thing to do is, tighten up the whole boiler again when you only wanted to tighten that *one particular section*.

There is always the danger of cracking a section or stripping the threads on the long bolts. Now listen! With a "Burnham" there are just as many bolts as there are sections—each section is tightened as it is set up by its short tie bolts—there is no bracing of scantlings—no sawing off—no blocking with washers—no danger of breaking a section, and you can *tighten the exact section you want to* without having to tighten the whole boiler. When you want to add another section or so, we furnish the tie bolts—with the other boilers you must buy new long bolts.

You see what a bungling, time taking, risky proposition those other boilers are. As for the economy, quick-to-respond, absolute reliability of the "Burnham," we have been telling you about that for years, but what we would really like to do is, show you some of the letters of recommendation we have from the biggest men all over the country—or better yet, take you to a nearby range and see the boilers at work and get the opinion *first hand* from the owner.

Put these boiler cold facts under your hat, and next spring when you want a greenhouse boiler made for greenhouse work—buy a "Burnham." We will stand by the "Burnham" and guarantee that the "Burnham" will stand by you. Send for catalog now.

Lord & Burnham Co.

Greenhouse Designers and Manufacturers

1133 Broadway, Corner 26th Street

NEW YORK
BOSTON BRANCH, 819 Tremont Building



This shows exactly how we use the short tie bolts—you tighten the exact joint you want tight. In ease of set up, adding sections, or making repairs, they are great time savers.

THE FLORISTS' EXCHANGE

We are a straight Hand Expd. grow into a vigorous plant
 A WEEKLY MEDIUM OF INTERCHANGE FOR MEN, SEEDSMEN AND THE TRADE IN GENERAL

Vol. XXIII. No. 5 NEW YORK AND CHICAGO, FEBRUARY 2, 1907 One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention. Won first prize for best 100 pink

We have not advertised Winsor until now because we have not had to. It is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise, for the present, February delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time doing so.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR

We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. February delivery, \$12.00 per 100, \$100.00 per 1000.

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

Mention the Florists' Exchange when writing.

ing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

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Strong Rooted Cuttings. February delivery, \$12.00 per 100, \$100.00 per 1000.

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

GRAFTED ROSES



WE are now booking orders for early delivery of Richmond, Killarney Bride, Bridesmaid, Wellesley, Liberty, Kaiserin, Carnot and Bon Silene.

Now is the time to get Kaiserin Augusta Victoria for early summer flowering. I have a large quantity of 2 1/4 inch own root stock now ready for shipment.

SEND FOR PRICES

W. H. ELLIOTT, Brighton, Mass.

Mention the Florists' Exchange when writing.



Vaughan's Asparagus Plumosus Nanus

Northern greenhouse grown. Large, plump, freshly picked seed, sure to grow. 100 seeds 65c., 250 seeds \$1.25, 1000 seeds \$4.50, 5000 seeds \$21.00. 3 discount for cash with order.

Florists Flower Seeds

NEW CROP READY NOW.

Send for our "Florist Catalogue."

SPIREA to Close Out

	Per 100 in N. Y.
Astiloides Floribunda.....	\$4.00
Compacta Multiflora.....	4.00
Blondin (Extra).....	5.00
Superba.....	5.00

Tuberous Begonia Finest Strain

Large Bulbs—Separate Colors	Doz.		
	100	100	1000
Single white, scarlet pink, salmon, yellow, etc.....	\$0.40	\$2.50	\$22.50
Single mixed.....	.30	2.25	20.00
Double mixed, scarlet, Salmon, Pink, Yellow, Etc.,	.65	4.75	45.00
Double mixed.....	.50	4.00	37.50
Finest named kinds.....	.50	4.00	
Mixed kinds.....	.40	3.50	

Vaughan's Seed Store

14 BARCLAY ST. NEW YORK

CHICAGO, 84-86 Randolph Street. Greenhouses, Western Springs, Ill.

Mention the Florists' Exchange when writing.

FUCHSIAS

- | | | |
|----------------|------------------|------------------|
| Black Prince | Minnesota | Elm City |
| Mrs. Gladstone | Lieut. Mauritz | Rose Phenomenal |
| Marinka | White Phenomenal | Minister Boucher |
| Speciosa | | |

\$2.50 per 100, Our selection 6 var. 1000 for \$20.00

Hardy Pompon Chrysanthemums

Large Flowering or Aster Varieties.....\$3.00 per 100
 Small Flowering or Button Varieties.....\$2.00 per 100
 1000 our selection of 50 varieties all sorts for \$20.00

Miscellaneous Greenhouse Plants

	Per 100		Per 100
Ageratum, Inimitable.....	\$3.00	Hardy English Ivy, extra strong.....	\$2.00
Ageratum, Stella Gurney.....	2.00	Panicum Variegated, for hanging baskets.....	2.00
Ageratum, Dwarf White.....	2.00	Sonchico Scandens, Parlor Ivy.....	2.00
Alternanthera, Red and Yellow, 5 var.....	2.00	Tradescantia, Dark Variegated.....	2.00
Begonias Vernon, White and Pink.....	2.00	Dahlia Roots, mixed.....	4.00
Lemon Verbena, Aloysia Citriodora.....	2.00		Cash with order.
Lobelia, Crystal Palace Gem.....	1.50		

A cordial invitation is extended to all interested in Horticulture to visit us. Cowenton Station, Philadelphia division, B. & O. R. R., 12 miles north of Baltimore.

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

Mention the Florists' Exchange when writing.

NEW CROP of 1906

Asters Queen of the market, mixed..... per oz. 50c.
 Asparagus Plumosus Nenus..... 1000 seeds \$4.50
 " " Springeri..... 1000 seeds 75c.
Begonia Vernon, fine strain, trade
 " pkt. 25c., oz. \$2.00
 Belle Perennis, double.....trade pkt. 25c.
 Candytuft Empress..... per oz. 20c.
 Cantarea Gymnocarpa..... per oz. 35c.
 Golden Feather, dwarf selected..... per oz. 40c.
 Lohelia Crystal Palace Compacta, true, trade
 pkt. 25c.
 Patunia Grandiflora, extra choice single mixed,
 trade pkt., \$1.00.
 Patunia Grandiflora, superb fringed mixed, trade
 pkt., \$1.00.
 Phlox, choice mixed..... per oz. 40c.
 " " Dwarf..... per oz. \$1.25
 Salvia Bonlire..... per oz. \$2.50
 Stocks, Ten Week, dwarf, large flowering, mixed
 trade pkt. 25c.
 Verhiana Mammoth white.....trade pkt. 15c.
 " " scarlet..... trade pkt. 10c.



STERILIZED SHEEP MANURE

One of the grandest natural stimulants for vegetation on the market. \$1.25, 100. \$20.00 a ton. Half tons at low rates.

1907 CATALOG NOW READY

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.
 Mention the Florists' Exchange when writing.

FOR IMMEDIATE SOWING

Salvia Splendens Grandiflora..... 1-8 oz. Oz. \$0.25 \$1.50	Salvia Splendens Maroon Prince..... 1-8 oz. Oz. \$0.75 \$5.00
" " Compacta..... .40 2.50	" " Fire Ball..... .75 6.00
" " Bonfire..... .40 2.50	" " Silverspot..... .75 6.00
" " Lord Fauntleroy..... .75 4.00	

NOVELTY 1907

SALVIA ZURICH. Per original Pkt. 20c.

This Salvia is fully two weeks earlier than "Fireball" and is very compact. Excellent for a potplant and for forcing. Retains its flowers for a long time. One of the best novelties of this season. Our Seeds are absolutely fresh and of high germination.



W. W. RAWSON & CO.
 5 UNION STREET, BOSTON, MASS.

PACIFIC SEED GROWERS' CO.
 109 MARKET STREET
 SAN FRANCISCO, CAL.
 Specialties:
 Onion, Carrot, Lettuce, Sweet Peas

Mention the Florists' Exchange when writing.

A Tuber FREE We offer to our customers without charge a potato which recently sold in England for \$1.246 a single tuber.
OUR CATALOG

Our catalog (FREE) contains many varieties of vegetables which we were first to introduce. Of these we endeavor to keep a pure stock. All our seeds are tested. Plain instructions are given for cultivation.



J. J. H. GREGORY & SON,
 MARBLEHEAD, MASS.

Sow Now The True Thing!

Ageratum, Blue Star, the best of all for pots, 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Alyssum, Carpet Queen, fine extra dwarf strain, 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Begonia, Erfordia, for pots the best rosy pink, 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Begonia, Gracilis Luminosa, a fine bedder, new with large bright scarlet flowers and ball-shaped habit, unexcelled for pots and outdoors, 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
 Cyclamen, Giant flow, separate colors, 1000 seeds, \$6.00; Trade Pkt. \$1.00.
 Petunia, Bay Moon, a fine bedder, 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Petunia, Californian single Giants, extra strain, 6 Trade Pkts. \$4.00; Trade Pkt. 75c.
 Petunia, double fringed Giants, 6 Trade Pkts. \$5.00; Trade Pkt. \$1.00.
 Phlox, New Cecily, the very best large flowered, real dwarf, compact, Drum.
 Phlox for pots, mixed colors, 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
 Salvia, Bonfire, 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Salvia, Fireball, this is a new, real dwarf compact early flowering, fine variety and there is hardly a better one for pots, 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
 Verbenia, Mammoth, unexcelled strains; as Arica lowered, Scarlet, Strip, G. Pink, Purple, White, each separate, Oz. \$1.50; Trade Pkt. 25c.
 For larger quantities special quotations.
 O. V. ZANGEN, Seedsman, Hoboken, N. J.

Mention the Florists' Exchange when writing.



Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.

New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

J. M. THORBURN & CO.
 33 Barclay St., through to 38 Park Place, New York.

ASTER SEED

Our descriptive price list of High Grade Aster Seed is now ready and will be sent free on application. Try our new varieties: **CARDINAL, SUNSET and ROSY CARMINE BRANCHING**; they are winners. Price per packet, 25c.; two packets for 40c. Pointers on how to grow **ASTERS** successfully sent free with every order.

VICK & HILL CO.

P. O. Box 613 ROCHESTER, N. Y.
 Mention the Florists' Exchange when writing.

GOLD MEDAL STRAINS BEGONIAS & GLOXINIAS

BEGONIAS		GLOXINIAS	
	Per doz. Per 100		Doz. 100
Double Rose.....	\$65 \$5.00	Single, Scarlet.....	\$0.40 \$2.50
" Orange.....	.65 5.00	" Dark Red.....	.40 2.50
" Red.....	.65 5.00	" Pink.....	.40 2.50
" Salmon.....	.65 5.00	" Rose.....	.40 2.50
" Dark Red.....	.65 5.00	" White.....	.40 2.50
" Yellow.....	.65 5.00	" Yellow.....	.40 2.50
" Mixed.....	.50 4.00	" Nankeen.....	.40 2.50
NEW VARIETIES.			
Duke of Zepplin.....	1.50 11.00	" Orange.....	.40 2.50
La Fayette.....	2.40 18.00	" Salmon.....	.40 2.50
Single Giant, Fringed mixed	1.00 8.00	" Mixed.....	.30 2.25
		Double White.....	.65 5.00
EMPEROR SEEDS			
Emperor Frederick.....	Doz. 100 \$0.75 \$5.00	Prince Mathilda.....	Doz. 100 \$0.75 \$5.00
Emperor William.....	.75 5.00	Queen Victoria.....	.75 5.00
Princess Elizabeth.....	.75 5.00	Defiance.....	.85 6.00
Mont Blanc.....	.75 5.00	King of the Reds.....	.85 6.00
Violaace.....	.75 5.00	Prince Albert.....	.85 6.00
Mad. Helene.....	.75 5.00	Finest Mixed.....	.60 4.00

STUMPP & WALTER CO., 50 Barclay St., N. Y.

SEEDS WHICH SUCCEED

THIS MEANS THAT **LANDRETHS' SEEDS** GROW AND ARE GOOD

Mention this paper when you write.

ADDRESS, BRISTOL, PA.

NEW STOCKS

FLOWER SEEDS FOR FLORISTS
 Wholesale Catalog Ready

Send for it today. But first read our advertisement on page 125 in the Florists' Exchange for January 28th, 1907. It is worth reading.

JAMES VICK'S SONS
 Seedsmen
 ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

VERBENA MAMMOTH

COLORS or MIXED.....oz. \$	.75
Petunia Double Large Fl. Fringed, f. pkt.	1.00
" Single Large Fl. Fringed.....	.50
Salvia Splendens.....oz.	1.00
Stacks Large Fl. 10 Weeks.....f. pkt.	.25
" Dwarf Snowflake....." "	.25
Begonia Dwarf Vernon....." "	.25
" Vulcan....." "	.25
" Erfordia....." "	.25

W. C. BECKERT,
 Allegheny, Pa.

Mention the Florists' Exchange when writing.

SEED PANSY PLANTS

THE JENNINGS STRAIN
 25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first class in every respect. First size, large plants, ready to bloom, \$1.00 per 100; \$7.50 per 1000; by express only. Second size, strong plants, 100 by mail, 60c.; 1000 by express, \$4.00.; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

E. B. JENNINGS,
 Lock Box 254 Southport, Conn.
 Grower of the Finest Panalea
 Mention The Florists' Exchange when writing.

100,000 Phoenix Roebelenii Seed

This elegant, graceful and easy growing palm is one of the most useful for all kinds of decorative work, both in small and large plants. Prices, \$7.00 per 1000.

YOKOHAMA NURSERY CO., 31 Barclay St., New York
 Mention The Florists' Exchange when writing.

SHAMROCK

IRISH: THE REAL THING: GREEN
 Strong and fine plants. Better order early. \$4.00 per 100; or 80c per doz., by mail.

XXX SEEDS

Verbena Improved mammoth, the very finest grown, mixed, 1000 seeds, 25c.
 Cineraria. Finest large flowering dwarf. Mixed colors, 1000 seeds, 50c.
 Phlox Pinnata Compacta. Very dwarf and compact, grand for pots; in finest colors, mixed. Good per cent of New Cecily, 1000 seeds, 50c.
 Chinese Primrose. Finest large-flowering fringed varieties, mixed; single and double. 500 seeds, \$1.00; half pkt. 50c.
 Pansy, Finest Glanta. The best large-flowering varieties, critically selected; mixed, 5000 seeds, \$1.00; half pkt. 50c. Masd. Ferrit gratia.
 Petunia New Star; from the finest marked flowers, extra choice. Trade pkt. 25c.
 Petunia Giant single fringed very large and fine. Trade pkt. 25c.
 Cyclamen Gigantum. Finest giants, mixed 200 seeds, \$1.00; 1/2 pkt. 50c.
 Salvia "Bonfire." Finest variety grown, brilliant scarlet and compact. 1000 seeds, 40c.

CASH. Extra count of seeds in all packets.
JOHN F. RUPP, Shiremanstown, Pa.
 The Home of Primrosea
 Mention the Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA
 Blue List of Wholesale Prices
 mailed only to those who plant for profit.

EXTRA CHOICE FLOWER SEEDS

List free on application.
FRED. ROEMER, Seed Grower,
 QUEDLINBURG, GERMANY.
 Mention the Florists' Exchange when writing.

W. & D.'s Specialties for Forcing

Mignonette "New York Market"
 Sweet Peas "True" Christmas Flowering (Pink and White)
 Tomato "The Doan" Tomato "Shirlog Castle"
 Mammoth Spewn "Englab" and "Pure Culture"
 Send for 1907 Catalogue.

WEBBER & DON, Seed Merchants and Growers
 114 Chambers Street, NEW YORK
 Mention the Florists' Exchange when writing.

ASPARAGUS PLUMOSUS NANUS FINE PLUMP SEED

ESTABLISHED 1824
Bridgeman's Seed Warehouse
 Rickards Bros., Props.
 37 EAST 19TH ST. Near Broadway NEW YORK CITY
 Telephone: 4285 Gramercy
 Mention the Florists' Exchange when writing.

JOHNSON'S HIGH-GRADE ASTER SEED For Florists

From the Best American and European Growers.



NEW HOHENZOLLERN ASTER.

See our Flower Seed offer in the Exchange January 12th.

JOHNSON SEED COMPANY, 217 Market St., Philadelphia, Pa.
Herbert W. Johnson of the late firm of Johnson & Stokes, President.

	Trade pkt.	oz
Queen of the Market, three weeks earlier than other Asters, separate colors.....	\$0.20	\$0.00
Choice mixed.....	.15	.50
Simple late Branching, high-grade American grown not California, separate colors.....	.20	.75
Choice mixed.....	.20	.75
Ostrich Plume, separate colors.....	.25	1.50
Choice mixed.....	.25	1.25
Victoria, highly prized by florists for bedding and cutting, separate colors.....	.25	1.75
Choice mixed.....	.25	1.50
Improved peony perfection, very popular with florists, a profuse bloomer, separate colors.....	.25	1.50
Choice mixed.....	.20	1.25
Mignon, an invaluable variety for cutting, pure white.....	.25	1.50
Choice mixed.....	.25	1.25
Hohenzollern, the earliest of all Asters, separate colors.....	.20	1.25
Choice mixed.....	.20	1.00
Comet, a beautiful class, with curled and twisted petals, separate colors.....	.25	1.50
Choice mixed.....	.25	1.25
Daybreak, (originator's stock), shell-pink, one of the most beautiful of Asters, early, long-stemmed and of compact habit.....	.30	2.00
Purity, (originator's stock), pure white, and identical in form and habit with Daybreak.....	.30	2.00

Your attention is called to our advertisement, January 20, page 94. Tells all about, seeds, bulbs, etc.

H. H. BERGER & CO.,
47 Barclay St., New York
Mention The Florists' Exchange when writing.

CYCLAMEN SEED

The best commercial large flowering strain in the following colors at 75 cents per 100 and \$6.00 per 1000: Blood Red, Bright Light Red, Bright Rose, Pure White, White with Carmine Eye. The following at \$1.75 per 100, \$15.00 per 1000: Lilac, Rubin, Salmon.

PERENNIAL GARDENS CO., - TOLEDO, O.
Mention the Florists' Exchange when writing.

A. J. Pieters Seed Company
HOLLISTER, CAL.

GROWERS OF Vegetable and Flower Seeds
Special attention paid to selected stocks
A. J. PIETERS, President and Manager.
Mention The Florists' Exchange when writing.

S. M. ISBELL & CO.
JACKSON, MICH.
Seed Growers for the Trade
BEANS, CUCUMBER, TOMATO, Radish, Peas, Muskmelon, Squash, Watermelon, Sweet Corn.
We are now booking orders for 1907, Fall delivery. Send for Contract Prices also surplus list.

C. C. Morse & Co. SEED GROWERS

171-173 Clay St., San Francisco, Cal.
ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
Warehouses, Santa Clara, Farms and Farm Headquarters, Garadero, near Gilroy
Mention The Florists' Exchange when writing.

If you have not received our florist list, write us; we will mail it.

H. E. FISKE SEED CO.,
12 & 13 Faneuil Hall Sq.
BOSTON, MASS.

Mention the Florists' Exchange when writing.

CAULIFLOWER SEEDS

Extra early dwarf "Snowball" and Dwarf "Danish Giant" grown in Denmark, are, after recent trials at "The State Agricultural College," the best in the world. Cabbage seeds Amarger Danish Ballheads tall and short-stemmed, recommended H. J. HANSEN, Seed grower (for the trade only), VORDBINGBERG, DENMARK. Prices on application. Samples free. Mention The Florists' Exchange when writing.

ASPARAGUS Plumosus Nanus

Seed is in perfect condition. Well ripened and full size. 60c. per 100; \$2.50 for 500; \$4 per 1000. Special prices on large quantity.
EDWARD J. TAYLOR, - Southport, Conn.
Mention the Florists' Exchange when writing.

SPRENGERI SEED

1906 CROP
10c. per 100; 60c. per 1000; \$2.75 per 5000; \$5.25 per 10,000. Cash with order please.
F. J. BAKER & CO., UTICA, N. Y.

75,000 Gladiolus Bulbs

to 1 1/2 inches \$2.00 per 1000; Larger sizes at proportionate prices; all very fine light mixed Lemoines and Gandavensis. Cash with order.
I. & J. L. Leonard, Iona, N. J.
Mention The Florists' Exchange when writing.

WHOLESALE LIST

NOW READY. Send for it.
HYBRID PERPETUALS, 2 1/2 in. pots @ \$27.50 per 1000.
CREEPERS and CLIMBERS \$20.00 per 1000
YOUNG STOCK for transplanting. Give orders now or you will be disappointed.
ELIZABETH NURSERY CO., ELIZABETH, N. J.
Mention the Florists' Exchange when writing.

ASPARAGUS SEED

1906 CROP
Plumosus Nanus, True..... 100 1000 50c. \$3.50
Sprengeri..... 15c. .75
Cycas Revoluta Seed..... \$2.50 22.50
Headquarters for all the best flower seeds. 100-page seed buyer's guide free.
MOORE & SIMON, Seed Growers,
339 Market St., Philadelphia
Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

PHILADELPHIA, PA.—W. Atlee Burpee & Company are distributing the "Fordhook Set of 12 Picture Post-Cards," showing interesting views of this great seed-testing farm.

NEW YORK.—Chas. McTaggart, for many years with the firm of Weeber & Don, seedsmen, is now travelling in the interests of J. M. Thorburn & Company, seedsmen.
David Adams of J. M. Thorburn & Company, will make a trip among the Rhode Island gardeners next week.

WACO, TEX.—A movement is on foot to form a Texas Seed Growers' Association. In the call for a meeting on January 31 it is stated.

"Texas needs a hundred well trained and practical men to breed up and keep breeding up the seeds for Texas crops—corn, cotton, oats, wheat, rice and a long list of vegetable seeds. Those of us who are already in the business know something of the time, care and thought required to produce and keep pure any class of seed. But if it cost a thousand times as much it would still be commendable and profitable work. Therefore, let us meet and form an association for our mutual improvement. Let us meet and discuss the problems of improving the yielding power of our plants. We already have the American Breeders' Association, but few of us can afford to travel half way across the country to hear the lectures upon the latest discoveries in breeding science. We want a State association. It seems desirable, also that some method of seed registration should be devised which would be a protection of the originators of valuable varieties and to planters at large."

EXPORTS OF SEEDS, ETC.—January 23.—To Cape Town, 11 packages seed, valued at \$518; to Glasgow, 200 bags seed, valued at \$200; to Leith, 50 bags clover seed, valued at \$66, 100 bags seed, valued at \$390; to London, 100 bags grass seed, valued at \$746, 9 bags seed, valued at \$157.

January 18, 1907—Shipped from New York to Liverpool, per Etruria, nine packages of seeds, value, \$140.

IMPORTS OF SEEDS Etc.—January 18, 1907—J. H. Ferdinand, one bag of seed; Peter Henderson & Co., one case of seeds; W. Larzelere & Co., four packages of seeds; J. M. Thorburn & Co., six bags of seeds; January 19 and 20—R. J. Godwin's Sons, 32 packages of seeds; Kennedy & Moon, three boxes seeds; Vaughan's Seed Store, 35 packages seeds; Weeber & Don, two cases garden seed; W. Elliott & Sons, two packages seeds; F. R. Pierson Company, one case of seeds. January 21, 1907—McHutchison & Co., 13 packages plants, E. R. Durkee & Company, 300 sacks of seeds.



DREER'S Reliable FLOWER SEEDS.

Asters are one of our specialties and we do not believe it possible to get finer stock at any price. We offer below a few of the most important sorts for the Florist. For complete list see our current wholesale Price list, mailed free on application to any Florist.

- Early Wonder.** A new variety and the earliest of all, blooming by the end of June, flowers high grade on long stems and pure white. 40 cts. per trade pkt: \$2.00 per oz.
- Daybreak.** A fine mid-season sort, color Daybreak pink, 40 cts. per trade pkt: \$2.50 per oz.
- Purity.** Similar to Daybreak but pure white. 40 cts. per trade pkt: \$2.50 per oz.
- Lavender Gem.** Exquisite soft color, early flowering 50 cts. per trade pkt.
- Snow Drift.** Early pure white of Comet type, 50 cts. per trade pkt: \$3.00 per oz.
- White Fleecy.** The finest white of the Comet type, long stemmed large flowers of purest white, 50 cts. per trade pkt: \$4.00 per oz.
- Violet King.** A new color in the late branching type, 40 cts. per trade pkt: \$2.50 per oz.
- Dreer's Superb Late Branching.** The finest strain procurable, and the best of all for late blooming, Pure White, Shell Pink, Rose Pink, Deep Purple Lavender, and Crimson, each 25 cts. per trade pkt: \$1.00 per oz.; Finest Mixed, 25 cts. per trade pkt; 75 cts. per oz.

Sow Now. Agoratum, Centaurea, Lobelia, Petunia, Salvia, etc., etc. See list for details etc.

HENRY A. DREER, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

IMPORTS OF SEEDS, ETC.—January 23, 1907.—H. F. Darrow, 130 cases lily of the valley pips; W. Taat, 70 cases lily of the valley roots; Vaughan's Seed Store, 1 bag seeds.

January 24, 1907.—H. F. Darrow, 2 packages seed, 1 case bulbs; A. H. Ringle & Company, 1 package seeds; J. M. Thorburn & Company, 1 case seeds; P. Henderson & Company, 2 cases seed; Maltus & Ware, 9 bags seed; J. M. Thorburn & Company, 7 bags seed, 1 cask seeds; F. Von Schiff, 4 cases plants; American Express Company, 90 packages seed, 236 packages seed; Ammermann & Paterson, 32 packages seed, 9 packages plants; Company's General Agent, 136 packages seed; H. F. Darrow, 50 packages plants, 76 packages seed; International Despatch, 2 packages plants; McHutchison & Company, 34 packages seed, 24 packages plants; "Labouisiere," 1 package plants; G. W. Sheldon & Company, 144 packages seed, 136 packages plants; Ungerer & Company, 100 packages seed; F. B. Vandegrift & Company, 42 packages plants, 25 packages seed.

January 25, 1907.—Wm. Lazerclere & Company, 4 casks seed; A. Olsen, 150 bags clover seed; Vaughan's Seed Store, 3 cases seed, 20 packages seed, 9 bags seed, 1 box seeds, 1 case trees and shrubs, 1 case plants; Meise, Akahote Company, 343 bags seed; Perry, Ryer & Company, 1 case natural plants; Wm. Elliott & Sons, 21 bags grass seed; Holland-America Line, 1 bag seeds, 1 box seeds; Kennedy & Moon, 6 bushels garden seed; J. M. Thorburn & Company, 40 bags grass seed, 16 bushels garden seed.

January 26 and 27, 1907.—C. C. Abel & Company, 44 cases live plants; Atlantic Transport Company, 150 casks mustard seed, 150 bags clover seed; J. B. Gruman, 100 casks seed; Lazerclere & Company, 2 casks seed, 2 cases seed; J. Munroe & Company, 100 bags sugar beet seed; Vaughan's Seed Store, 20 packages seed, etc.

January 28.—Peter Henderson & Company, 1 case seeds; A. Olsen, 638 bags clover seed; Towns & James, 10 bags seed; Vaughan's Seed Store, 1 case flower seeds; Brown Brothers & Company, 398 bags canary seed.

FLOWER SEEDS FOR WEST INDIAN GARDENS.—Consul W. W. Handley of Trinidad believes that it may be of interest to American exporters of flower seeds to have a list of the temperate flower seeds which have been tried in the West Indies, and applies to altitudes of 100 to 700 feet.

Plants which grow well with very little care: Abutilon, Asparagus plumosus, begonia (fibrous rooted), celosia, Ipomoea grandiflora, marvel of Peru Nicotiana affinis, cosmos, dolichos, gounflos, lantana, petunias, ricinus, sunflowers, tuberosa, zinnias, amaranthus, balsam, canna, coleus, datura, gaillardia, marigold, portulaca, solanum, torenia, Vinca rosea.

Plants which require more or less special care in soil, shading or manuring and often do not succeed so well as in temperate zones, but have all flowered fairly well:

Asters, begonia (tuberous rooted), chrysanthemum (show varieties), everlasting flower, violets (California), carnation, cyclamen, clematis, dahlia, dianthus, fuchsia, glorioxia, honeysuckle, lavender, mignonette, nasturtium, geranium, heliotrope, myosotis, Salvia splendens, Sweet William.

The following plants failed to flower, or flowered very poorly; all grew to some size from the seed or bulb: Bermuda lily, Pelargonium (Lady Washington geranium), primulas (Chinese), calceolaria, cineraria, gladiolus, narcissus, pentstemon, pansies, sweet peas, tulips, wallflower.

THE HOUSE OF REPRESENTATIVES DISCUSSES SEED ADULTERATION.—The question of adulteration of seeds was before the House of Representatives on Saturday, January 26, having been introduced in the discussion on the Agricultural Appropriation Bill by Representative Mann of Illinois. In the course of his remarks the honorable gentleman said:

"Under the item which has been carried for several years in the Agricultural appropriation law the Department of Agriculture has been collecting samples of seed, and making analyses. These samples of seed are obtained by mail, by purchase. As a rule the seed houses which send out a quantity of seed by mail are more particular than when sold in other ways. I have obtained, myself, from the Department of Agriculture, from seed which they have collected in this way, and from seed which they have collected at my request, forage seed, during a recent period, not running very far back, over 100 samples bought in the open market, which were adulterated. Some of these adulterations run as high as 90 per cent. adulterant. Of the seed which has been examined by the Department there were 352 samples of alfalfa seed. One hundred and sixty of these, or nearly one-half, were found to contain dodder seed. Of 522 samples of red clover seed, 116 contained dodder seed. Of 61 samples of low-grade red clover seed, imported during the fiscal year 1905-6, 75 per cent. contained dodder seed. And these samples contained also nearly 30 other kinds of weed seed.

"Of seventeen samples, representing an aggregate of 282,000 pounds imported during the fiscal year 1906, less than 50 per cent. was pure alfalfa seed that germinated. Two lots, representing 33,000 pounds each, germinated 8 and 9 per cent. only—only 8 or 9 per cent. of this imported seed. Of sixty-one samples of red-clover seed imported during the same period, representing an aggregate of 990,000 pounds, less than 48 per cent. was red-clover seed that germinated. These seed are sent here for the purpose of adulteration. In Europe there is a system of voluntary seed examination, prevalent as a matter of custom, by which seed in a given locality is examined and the certificate is made, and no one buys seed in one locality from a seedman in another locality, except upon a large scale; and the result is that there is sent to this country an immense quantity of these inferior seeds."

The speaker said he had found some samples of orchard-grass seed which were adulterated by crushing up old oats and mixing with the orchard-grass seed, "and I doubt very much whether any Member of the House would be able to distinguish it unless he were a seed expert." He also said that Canada has a law which



Summer Flowering Bulbs

My New Begonias and Gloxinias are in stock and are as fine as any I have ever seen.

LARGE FLOWERING BEGONIAS—Tuberous Rooted

Single: (1 1/2 inch bulbs)			Double: (1 1/2 inch bulbs)				
	Per doz.	Per 100	Per 1000		Per doz.	Per 100	Per 1000
Scarlet	\$0.35	\$2.50	\$23.00	Scarlet	\$0.60	\$4.25	\$38.00
Crimson	.35	2.50	23.00	Crimson	.60	4.25	38.00
White	.35	2.50	23.00	White	.60	4.25	38.00
Rose	.35	2.50	23.00	Rose	.60	4.25	38.00
Yellow	.35	2.50	23.00	Yellow	.60	4.25	38.00
Mixed	.30	2.25	22.00	Mixed	.50	4.00	35.00

GLOXINIAS, GIANT FLOWERING

Fine, Large Bulbs, Strong and Well Matured, Blue, Red, White, Red with White Border, Spotted and Tigered. Per Doz. 50c; Per 100 \$3.50. Mixed Sorts, Fine, Per Doz., 45c; Per 100 \$3.25.

FORCING VEGETABLE SEEDS

Special Strains for Greenhouse Culture—Cucumber, Cauliflower, Lettuce, Radish, Tomato. Write me Your Wants

Mushroom Spawn. Frequent importations from England. Per 100 lbs. \$6.00; Per 1000 lbs. \$55.00

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

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forbids at home the sale of weed seeds, but permits them to be exported. Last year in two samples there were 10,000 pounds of the so-called "clover seed" imported into this country from Canada. Consisting almost entirely of catchfly seed, used either for direct sale or more probably for adulteration. He added: "Last Summer there was but little good onion seed grown in the country. Two years ago there was a smaller quantity than usual of good onion seed grown in this country. I think that this year gentlemen will find very little of it in their Congressional distribution. You may find some, but all of the old onion seed that may have been in the warehouses for the last ten years, perhaps, will be sold this year as fresh onion seed, though not a pound or particle of it will germinate. It will be mixed with seeds, and the percentage of germination of the lot may be one-half. All of the new seed may germinate, but none of the old seed will do so."

Mr. Mann also referred to the large quantities of yellow trefoil seed imported, which he said was "for one purpose only, and that purpose is for using it as an adulterant." He had been informed by the Department of Agriculture that most of the yellow trefoil seed was imported from Hamburg, a considerable proportion of it without being mixed at all, and quantities mixed with alfalfa and clover seed. Mr. Mann exhibited samples of adulterated seed—Kentucky with Canada blue grass and others.

It was pointed out by Mr. Wadsworth that the Secretary of Agriculture, in his report, had stated that "the rank and file of American seedsmen do not follow any such practice and are as anxious as the Department to protect the farmer." Mr. Mann replied, "It is partly for the purpose of protecting the reputable seedsmen from the improper rivalry of the impure seedsmen that I think we ought to have legislation on this subject."

The circulars issued by the Department of Agriculture showing the names of the firms from whom adulterated seeds had been secured, as well as the nature and extent of the adulterations are printed in the Congressional Record of the date mentioned.

European Notes.

The continuance of mild weather has brought a rush of orders from people who invariably leave things till the last minute and expect that the working of the entire establishment must be changed at a moment's notice to compensate for their neglect of proper business methods. As an exceptionally virulent outbreak of grippé has materially thinned the ranks of our most capable assistants, everything continues at high pressure, except prices. These, with the solitary exceptions of red clover and onion, remain at a quite unremunerative level. Clover has a strong upward tendency owing to continued enquiries from your side; while onion has risen in value partly for the same reason and partly because the bulbs for present planting are not keeping well. The growers of onion seed are

not happy, having to choose between sacrificing their seed crops or sacrificing their bulbs. The market prices for the latter are probably the lowest on record. As the crop, owing to the drought, was not more than 40 per cent. of an average, it is difficult for the growers to decide on which horn of the dilemma they may sit with the greatest comfort.

Long and sometimes painful experience makes one shy of prophesying before the event, but it appears absolutely certain that onion seed will be from 25 to 30 per cent. higher in price next season.

N. B. The intelligent reader will please take note that the Californian output has not been taken into account.

As predicted in these notes many months ago, the radish seed growers are practically inaccessible in the matter of price just now. Many of them, and of course, the best, refuse to entertain the culture. This is not to be wondered at when we remember how disastrous have been the results during the past three years. Bearing in mind the fact that stocks are exhausted, it is easy to see that the growers hold the key to the position. Efforts have been made in many districts to supplant the French grown transplanted seed, but so far as the earliest forcing varieties are concerned they have hardly been successful. Everything therefore points to a considerable rise in price for this article. The larger and later varieties, which are grown with good results in more northerly countries, will still be obtainable at moderate prices.

As regards spinach, the usual acreage will be planted in England, where the crop produced last year was above the average. In Germany and Holland higher prices are demanded; in the first named country because of the heavy loss entailed by the poor crops obtained last season, and in Holland partly because sugar beets have given a good result last year and growers are expecting higher prices this year from the sugar fabricants, and partly because the large acreage of winter corn, which has been sown, is doing so well that there will not be anything to plow out. EUROPEAN SEEDS.

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Summer-Flowering Bulbs

German or Japan Iris,

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First size, 1 1/2 and up.....\$12.00 per 1000
Second size, 1 1/4..... 8.00 per 1000
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Rowell & Granz, Hicksville, L. I., N. Y.
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HARDY JAPANESE LILIES

These are excellent for forcing, and bring handsome prices. We have an extra fine importation just received in good shape. Try a few and note the ready sale.

AURATUM	White, spotted crimson yellow strips	Doz.	100	1000
8 to 9 in. circum.	\$0.75	\$5.25	\$47.50
9 to 11 " "	1.10	7.50	70.00
11 to 13 " "	2.00	16.00	130.00

(Paeon.) Pure white, improved type.

ALBUM,	8 to 9 in. circum.	1.00	7.00	65.00
9 to 11 " "	1.50	11.00	105.00

MELPOMENE,	Rich Crimson.	Doz.	100	1000
8 to 9 in. circum.	\$1.00	\$7.25	\$65.00

MAGNIFICUM. Mammoth beautiful crimson blooms.

8 to 9 in. circum.	1.00	7.00	65.00	
8 to 11 " "	1.20	8.00	76.00

SALVIA, Clara Bedman, or Bonfire.

A special strain of carefully hand selected seed from large specimen plants.

25 cts. per 1-2 trade pkt., Trade pkt. 40 cts., \$2.50 per oz.

Send for our new wholesale catalogue, it will interest and pay every florist.

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NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
Orlando Harrison, Berlin, Md., president; J. W. Hill-Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

TACOMA, WASH.—The stockholders of the Sunny-side Nursery Company recently increased the capital stock of the company from \$10,000 to \$26,000. T. C. Williams and Dr. J. R. Harvey were taken into the company as stockholders. Mr. Williams has had about thirty years' experience in the nursery business in Illinois. The officers of the company now are: F. G. Spalding, president; W. S. McClain, secretary; Dr. J. R. Harvey, T. C. Williams and H. K. Spalding, trustees. The company has this year sold 100,000 trees and will have half a million ready for the market the coming year.

ROCHESTER, N. Y.—The National Association of Retail Nurserymen held its fourth annual banquet on Tuesday night, January 22, at the Eureka Club, with more than one hundred present. The occasion was one of pleasant reunion. After an elaborate dinner Toastmaster John D. Lynn opened the exercises. The speakers and their subjects were: "Square Deal," C. J. Maloy; "Political Deal," W. K. Gillette; "Nurserymen's Deal," Charles E. Ogden; "The Shrub Common People," Hon. Assemblyman H. R. Glynn. Between the deals selections were given by the Rochester Male Quartette and the Fifty-fourth Regiment Band. Among the members present from out of the city were: Orlando Harrison, of Berlin, Md., president of the American Association of Nurserymen; E. Albertson, Bridgeport, O., chairman of the executive committee and special representative of the American Association of Nurserymen; Professor John Craig, of Cornell University, Ithaca; George S. Josely, Fredonia; D. H. Henry, C. G. Chase and Theodore J. Smith, Geneva; James M. Pitkin, postmaster, Newark, N. Y.; O. D. Green, Syracuse; George C. Perkins, John Watson, C. H. Stuart, William W. Gould, Arthur M. Christy, Newark, N. Y., and W. T. Wood, Richmond, Va. The committee in charge of the dinner was made up of B. F. Allen, chairman; W. W. Wyman, E. S. Osborne and Charles L. Yates. The president of the national association is William Pitkin of this city.

Catalpa for Timber.

Editor Florists' Exchange:

In your issue of January 19, 1907, there is an article on "Catalpa for Timber," by Joseph Meehan. After reading this article I would presume that Mr. Meehan has never investigated very closely the difference between *Catalpa speciosa* and *Catalpa bignonioides*. While *C. bignonioides* is as lasting as *C. speciosa*, it grows slower and branches out sooner. In going over a large plantation of catalpa one can pick out every tree of *C. bignonioides*, as they will be smaller and branch closer to the ground. As to the general appearance of the trees, up to three years there is but little difference, but after that it is very distinct.

A few Westerners have entertained Mr. Meehan's ideas to their sorrow. *C. bignonioides* is not profitable to grow for any purpose; while *C. speciosa* has netted the owners of a few plantations as much as \$115 an acre per year for 13 years. And you could not sell these men a *C. bignonioides* tree. Most of them now grow their own seedlings, as when buying *C. speciosa* they have got *C. bignonioides* instead. Those contemplating growing catalpas, either for nursery or their own use, will do well to investigate them before gathering or buying seed.

CHAS. MURRAY,
Supt. Landscape Dept.
Washington University, St. Louis, Mo.

Horticultural Notes.

Many fail in transplanting the trailing arbutus, *Epigæa repens*, because of neglecting to prune it. It is an evergreen, and one that makes few roots. If the tops were cut back one-half, or if a good ball of soil were taken with the roots, the arbutus is not difficult to transplant.

The round-headed catalpa, the one usually grafted on the common sorts and known as Bungal, is believed to be but a variety of *C. bignonioides*. It was thought to be a variety of *C. Kämpferi* at one time, but it is not, if the *Kämpferi* in cultivation is true to name.

Evergreens when near or under trees have a hard time getting food, the large trees taking from them what they should have. For this reason spreading surface manure about them, as far around as the branches extend, is a signal help to them.

Staphyleas are not seen in collections as often as they should be. Two of them, *S. Bumalda* and *S. colchica*, are superior to our native one, *S. trifolia*. They have white flowers, those of *Bumalda* slightly fragrant, and of *colchica* in little clusters, not unlike a white lilac. In Europe, *S. colchica* is sometimes used for forcing in winter.

Glyptostrobus Pendulus (Taxodium.)

A tree in universal demand when one of upright, conical character is desired, is the one almost universally known as *Glyptostrobus pendulus*, or Chinese cypress. The strange thing in connection with the name is that the tree is not a *glyptostrobus* at all, but simply a form of the well-known deciduous cypress, *Taxodium distichum*. A prominent botanist called it *glyptostrobus* at one time, and it is never listed in nurseries under any other name that we are aware of. That it is but a variety of the common deciduous cypress is evident, for it has been found in a wild state among the cypress trees, and it has appeared in beds of seedlings of the cypress raised in the North. There are other forms of the



Glyptostrobus Pendulus (Taxodium)

deciduous cypress beside this, but, undoubtedly, the *glyptostrobus* is the most distinct of all.

The illustration well represents the habit of growth of this tree. The parent form, the deciduous cypress, is not a great spreader, but the *glyptostrobus* is even of more slender growth than it. The branches are extremely slender, and they may be drooping or otherwise, depending somewhat on the tree and on the stage of growth. The leaves are spirally arranged, needle-shaped, and are close to the stem, bearing but little resemblance to those of the deciduous cypress.

It will be seen that, in the illustration, there are two trees of like character of the *glyptostrobus*. Both are growing alongside the main driveway fronting the Agricultural Building, Washington, D. C. How well they fit the position it is not hard to imagine. Hardly another tree could be named that would do

as well. Probably the *salsburia* would have suited, but the famous avenue of that tree commences at but a stone's throw away from where the *glyptostrobus* are, so it was well not to use the former.

It seemed to us when having the photograph prepared that the trees were excellently well placed, and that nothing could have been substituted to have done as well. As will be seen in the picture, the tall shaft of the Washington monument shows in the distance, and it, too, seems to blend nicely with our *glyptostrobus* trees. It is the knowledge of how trees grow, their shape and general appearance, that is so necessary to the success of one who would become a thorough landscape gardener.

Showing how trees that are found naturally in low ground will thrive in situations much higher, the *glyptostrobus* is a good example. The type is found in swampy ground, actually the roots entirely under water in some instances, yet they will grow in quite high situations, as those photographed prove. The ground on which these trees stand is quite elevated; and many trees on other grounds are to be found on quite high positions. Still, to have them do their best, a damp soil is advised.

The *glyptostrobus* is increased by grafting it on the common deciduous cypress. Done indoors in winter, or outdoors in spring, just as the sap is rising, the work is generally successful.

Rapid Growth of Oak and Hickories.

Contrary to the idea prevailing in times past, the oak and the hickory are among our fast-growing trees. Years ago one of our planters set out a row each of various well-known trees, among them several oaks. Those trees were all within sight of one another, were in the same soil and situation, and had the same care. It is nearly thirty years ago since the trees were planted, and now it shows that the oaks are in every way the equal of their companions. This agrees with what nurserymen have observed of the trees. They tell us that the oak and the hickory are fast growers, quite the equal of any other ordinary trees. The silver maple, poplar and a few other trees could be named as faster growers, but take the ordinary run of nursery trees and the oak and the hickory keep pace with them in growth. The only time they grow slow is the year or two following transplanting. Their transplanting is difficult when of good size unless frequently transplanted previously, and to have success in the operation there must be very heavy pruning. When raised from seeds the plants can stand until two to three feet high, when they should be transplanted. A similar operation should follow three years later. When well established again further removals may follow if desired, but at every transplanting close pruning should not be overlooked. In the end, set out with other trees of the same age, the oak and the hickory will be found fully their equal in size.

Winter Pruning Stock.

In the Southern and the border States there will be but few more weeks before the opening of Spring, with its rush of work, hence the importance of getting performed now every operation possible. Pruning of stock and getting it into shape is one. When trees are young and growing it is a help to let them carry many shoots through the summer, not required eventually, as the more of them the stronger a tree becomes. But many of these, it will be seen now, are not in shape or in positions desired, looking to a well-formed tree, and now is the time to cut them away, and at the same time prune the trees in such a manner that they will assume a good shape and be of pleasing appearance to those who may wish to buy them.

There are customers for trees with tall stems and for those with branches near the ground. Single trees of the latter kind on lawns are often desired. It is better to have the two sorts in different rows in the nursery, the tall ones in one row, the low-branched ones in another, for reasons of cultivation; and when pruning young trees the work can be so arranged.

Landscape gardeners find a good lot of work at winter-pruning among large trees. By cutting away some of the older limbs and encouraging those younger and of more vigor, and then feeding the trees well, many an old orchard has been made almost young again. It is well worth remembering that dead or partly dead wood is drawing on the sap of the tree as much perhaps as live shoots do; and for this reason the pruning away of such limbs is of great advantage to the trees.

At this season of the year such shrubs as flower in summer and autumn may be pruned back well. A good pruning tends to promote vigorous shoots, and these give the flowers. No need to name those that need pruning and those that should not be pruned. Just think whether the shrub is one that flowers in spring or in late summer. If it blooms late, prune it; if it flowers in spring, keep your knife away from it.

Florists and nurserymen who grow shrubs solely for selling do not pay attention to pruning for flowers. They prune for propagation's sake, and all kinds that will grow from cuttings and have long shoots that can be cut into suitable lengths are cut now. These shoots are cut up at once, tied in bundles, and placed in a cellar, in sand, to be set out in nursery rows with the opening of spring. In large establishments, the work of making cuttings of trees and shrubs is started at New Year's, and it is better done early than late; but any time before the sap starts is not considered too late.

JOSEPH MEEHAN.

47,960 Low-Budded Roses
in 26 varieties
being the entire surplus of the Heikes-Biloxi stock. Delivery February—from my cellars here.
No. 1 @ \$95.00 per 1000. No. 1 1/2 @ \$85.00 per 1000. Privet cuttings \$1.25 per 1000—10,000 for \$10.00.
Correspondence promptly answered.
HIRAM T. JONES, Union County Nurseries
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Specimen Nursery Stock
DECIDUOUS TREES and SHRUBS, EVER-GREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties.
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Special HEDGE PLANTS Best Varieties
CALIFORNIA PRIVET DEUTZIA PRIDE OF ROCHESTER NORWAY SPRUCE
BARBERRY THUNBERGII TARTARIAN HONEYSUCKLE AMERICAN ARBOR VITÆ
Full assortment of Ornamentals, Fruits, Roses, Clematis, Vines, Peonies and Herbage on Plants.
Write for our fall wholesale trade list.
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ROSES

F. & F. NURSERIES SPRINGFIELD NEW JERSEY
Wholesale Growers **TREES AND PLANTS** in full assortment. Trade Catalogue Free
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MANETTI STOCKS Especially for Florists' use. Best French Grown.
First Size, 6 to 10 m.m., per 1000.....\$9.00; per 10,000.....\$90.00
Newark prices. DUTY PAID. For prompt delivery, order now and avoid disappointment.

ROSES, two years, field-grown, well-rooted
DOROTHY PERKINS..... per 100, \$8.00
CRIMSON RAMBLER..... per 100, 10.00
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Send for our Wholesale Price List of Roses, Clematis, Flowering Shrubs, Conifers, Etc.
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Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.
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CRIMSON RAMBLER, DOROTHY PERKINS, and other leading climbers, BABY RAMBLER, Hybrid Wichoriana, Hybrid Sweet Briar, Hybrid Rugosa and Hybrid Perpetual. Large assortment of varieties, fine stock and reasonable prices. Send for catalog or trade list.
BAY STATE NURSERIES, North Abington, Mass.

1000 English Ivy, 2 1/2 in., pot grown, heavy, long tops..... 6.00
3000 Vinca Major, variegated, 2 1/2 in., pot plants..... 2.50
6000 Vinca Major, variegated, K. O., 7/8" per 1000..... 1.00
500 Purple-Leaved Barberry, 4 ft..... 5.00
500 Berberis Thunbergii, 2 to 2 1/2 in., very bushy, 8c., 18 to 24 in., 4c.
500 Eucyamus Radicans, variegated, 2 1/2 in. pots..... 6.00
1000 Hydrangea Olakes, 3 1/2 in. pots, \$4.00..... 2.50
2000 Hydrangea Paeuolita Grandiflora, 3 year old, 8c.; 2 year, 6c.; 1 year, 4c.
500 Althea, double white and rose, and variegated leaved, 2 year old..... 4.00
500 Japan Snowball, 3 ft., 15c.; common Snowball, 3 ft. 7c.
2000 Spiræa Anthony Waterer, 3 year old, 6c.; 2 year, 4c.
1000 Hibiscus, Ormeon Eye, 2 year, roots strong..... 5.00
1000 Spiræa, Van Houttei, and Reevessii, 3 ft. 6.00
1000 Lilac, purple and white, and Forsythia 3 year old..... 5.00
1000 Deutzia, Crenata and Gracilis, and Philadelphia, 3 year old..... 5.00
500 Variegated Weigela and Yucca Filamentosa, 3 year old..... 6.00
500 California Privet, 5 ft., \$5.00 per 100; 2 1/2 to 3 ft., \$2.50 per 100; 12 to 15 in., 1.00
1000 Halliana Honeysuckle, 2 year old, \$5.00 per 100, Ready to transplant..... 6.00
500 Blue Wistaria, 2 and 3 year old, 6 and 8c.; 2 best grades KOLALA..... 6.00
500 Crimson Rambler, 4 ft., 2 year old, fine..... 15.00
500 Baby Ramblers, 5 in., pot plants..... 25.00
5000 Canna bulbs, no stocks, \$10.00 to \$15.00 per 1000..... 2.00
3000 Madeira Vine and Cissampelos Vine roots, \$3.00 per 1000..... 1.00
500 Caladium Bicoloratum, 7x3, 6c.; 6x7, 3c.
500 Gladiolus, all colors mixed..... 1.00
1000 Stokesia OYANA, pot grown, German; and Hibiscus, Crimson Eye..... 3.00
20 lb. clean seed, Ampelopsis Veitchii, \$1.50 per lb.
5 lbs. Stokesia OYANA, fresh seed, 60c. oz.; \$3.00 per lb.
20 lb. Canna Seed, Florence Vaughan and Henderson, \$1.00 per lb.; mixed, 76c. per lb.
All the above stock in No. 1; satisfaction guaranteed. Cash, otherwise C. O. D.

1000 California Privet, 5 ft., \$5.00 per 100; 2 1/2 to 3 ft., \$2.50 per 100; 12 to 15 in., 1.00
1000 Halliana Honeysuckle, 2 year old, \$5.00 per 100, Ready to transplant..... 6.00
500 Blue Wistaria, 2 and 3 year old, 6 and 8c.; 2 best grades KOLALA..... 6.00
500 Crimson Rambler, 4 ft., 2 year old, fine..... 15.00
500 Baby Ramblers, 5 in., pot plants..... 25.00
5000 Canna bulbs, no stocks, \$10.00 to \$15.00 per 1000..... 2.00
3000 Madeira Vine and Cissampelos Vine roots, \$3.00 per 1000..... 1.00
500 Caladium Bicoloratum, 7x3, 6c.; 6x7, 3c.
500 Gladiolus, all colors mixed..... 1.00
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All the above stock in No. 1; satisfaction guaranteed. Cash, otherwise C. O. D.

SEND TO
THE MOON COMPANY
For TREES, SHRUBS, VINES Your and SMALL FRUITS
Descriptive Illustrated Catalogue Free
THE WM. H. MOON CO.
Morrisville, Pa.
Mention the Florists' Exchange when writing.

Trees and Shrubs
We make specially low prices on nursery stock to Parks, Cemeteries, etc.
Wholesale price list on application.
We carry immense quantities of the finest named varieties of peonies.
PETERSON NURSERY
605 W. PETERSON AVE. CHICAGO, ILL.
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TREE SEEDS
Send to-day for our Trade Price List and our Illustrated, Descriptive Catalog
Otto Katzenstein & Co., Atlanta, Ga
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DAHLIAS
A fancy, fresh, vigorous stock of Dahlia Bulbs, of our own growing. Over sixty varieties. The cream of a list of over 500 varieties from which we expect to produce as fine a stock of plants for spring delivery as practical experience and the right conditions can develop. No insects. No fungus.
Write us for bulbs or plants.
Postum Cereal Co. Ltd.
Garden Department. BATTLE CREEK, MICH.
Mention the Florists' Exchange when writing.

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3000 Ampelopsis Veitchii, pot grown, dormant, lung tops..... \$4.00
2000 Clematis Paniculata, 2 year old, pot grown..... 6.00
1000 English Ivy, 2 1/2 in., pot grown, heavy, long tops..... 6.00
3000 Vinca Major, variegated, 2 1/2 in., pot plants..... 2.50
6000 Vinca Major, variegated, K. O., 7/8" per 1000..... 1.00
500 Purple-Leaved Barberry, 4 ft..... 5.00
500 Berberis Thunbergii, 2 to 2 1/2 in., very bushy, 8c., 18 to 24 in., 4c.
500 Eucyamus Radicans, variegated, 2 1/2 in. pots..... 6.00
1000 Hydrangea Olakes, 3 1/2 in. pots, \$4.00..... 2.50
2000 Hydrangea Paeuolita Grandiflora, 3 year old, 8c.; 2 year, 6c.; 1 year, 4c.
500 Althea, double white and rose, and variegated leaved, 2 year old..... 4.00
500 Japan Snowball, 3 ft., 15c.; common Snowball, 3 ft. 7c.
2000 Spiræa Anthony Waterer, 3 year old, 6c.; 2 year, 4c.
1000 Hibiscus, Ormeon Eye, 2 year, roots strong..... 5.00
1000 Spiræa, Van Houttei, and Reevessii, 3 ft. 6.00
1000 Lilac, purple and white, and Forsythia 3 year old..... 5.00
1000 Deutzia, Crenata and Gracilis, and Philadelphia, 3 year old..... 5.00
500 Variegated Weigela and Yucca Filamentosa, 3 year old..... 6.00
500 California Privet, 5 ft., \$5.00 per 100; 2 1/2 to 3 ft., \$2.50 per 100; 12 to 15 in., 1.00
1000 Halliana Honeysuckle, 2 year old, \$5.00 per 100, Ready to transplant..... 6.00
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20 lb. Canna Seed, Florence Vaughan and Henderson, \$1.00 per lb.; mixed, 76c. per lb.
All the above stock in No. 1; satisfaction guaranteed. Cash, otherwise C. O. D.

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

WAIT TILL
You know our prices before you buy your BULBS. We grow all the leading varieties in Hyacinths, Tulips and Narcissus. Your interest is our interest. Drop a postal to our Mr. John Perchomb.



He will call on you or send you our price list. Address, until first of April,
14 Stone St., New York
Try our new Spirea, "WHITE QUEEN"; throws twice the number of flowers as the old Spirea Japonica.
D. Nieuwenhuis & Sons
Lisse, Holland

CANNAS
Per 100
10 varieties, dry bulbs, my selection.....\$2.00
Geraniums, 10 varieties, my selection, 2 and 2 1/2 in. pots..... 3.00
Paney Plants, small from frames \$3.00 per 1000..... 50
Aparagus Plumose and Sprengeri, 2 in., \$1.75 per 100. Cash.
JOS. H. CUNNINGHAM, Delaware, O.

350,000 CANNAS

TRUE TO NAME
Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

RED CANNAS 100 1000
A. Bouvier, 5 ft..... \$2 00 \$17 50
Beaute Potevina, 3 1/2 ft..... 2 25 20 00
Chas. Henderson, 4 ft..... 2 00 17 60
Crimson Bedder, 3 ft..... 3 00 27 60
J. D. Eisele, 5 ft..... 2 25 20 00
Explorateur Crampbell, 5 1/2 ft..... 2 00 17 60
Flamingo, 4 1/2 ft..... 2 00 17 60
PINK CANNAS
L. Pattry, 4 1/2 ft..... 2 00 17 60
Martha Washington, 3 1/2 ft..... 2 00 17 60
Mlle. Berat, 4 1/2 ft..... 2 25 20 00
Paul Marquant, 4 1/2 ft..... 1 75 15 00
ORANGE CANNAS
Admiral Avellan, 4 1/2 ft..... 1 75 15 00
J. D. Cabos, 4 1/2 ft..... 2 00 17 60
President Cleveland, 4 ft..... 3 00 27 60
Queen of Holland..... 2 75 25 00
Secretary Chabanna, 4 ft..... 2 00 17 60
GOLD EDGED CANNAS
Mad. Crozy, 3 1/2 ft..... 2 75 26 00
Queen Charlotta, 4 ft..... 2 75 26 00
Souv. de A. Crozy, 4 ft..... 2 75 26 00
YELLOW CANNAS
Buttercup, 3 1/2 ft..... 5 60 50 00
Comte de Boucharde, 4 1/2 ft 2 75 25 00
Florence Vaughan, 5 ft..... 2 00 17 60
L. E. Bailey, 4 1/2 ft..... 2 00 17 60
WHITE CANNAS
Alsace, 3 1/2 ft..... 2 00 17 60
Peachblow, 3 ft..... 1 75 15 00
BRONZE CANNAS
Black Beauty, 5 ft..... 6 00 50 00
David Harum, 3 1/2 ft..... 3 25 30 00
Egandale, 4 ft..... 3 25 30 00
Grand Rouge, 8 ft..... 1 75 16 00
Massifolia, 8 ft..... 2 75 26 00
Robusta, 5 to 8 ft..... 1 75 15 00
Shenandoah, 6 ft..... 2 25 18 00
ORCHID CANNAS
Allermannia, 4 to 5 ft..... 2 25 18 00
Anstria, 5 ft..... 1 75 15 00
Italia, 4 1/2 ft..... 2 25 18 00
Kronus, 6 ft..... 2 75 25 00
Mrs. Kate Gray, 6 ft..... 2 75 25 00
Pennsylvania, 5 ft..... 2 25 20 00
King Humbert, 4 ft., 12 \$2, 15 00

Full descriptions of above and fifty other varieties of Cannas mailed free.
ELEPHANT EARS
(Caladium Esculentum)
All sound and with eyes. 100 1000
6-8 inches in circumference..... \$1 50 \$10 00
8-10 " " "..... 3 50 30 00
10-12 " " "..... 5 50 50 00
12 inches and up in circumference 10 00 90 00

ARTHUR T. BODDINGTON
342 W. 14th. St., New York

**-CANNAS-
ASTER SEEDS**
At Exceedingly Low Prices—Send for List and Prices.
NATHAN SMITH & SON,
ADRIAN, MICH.

DAHLIAS
Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.
DAVID HERBERT & SON,
Successors to L. K. PEACOCK, Inc.
ATCO N. J.

PLANT CULTURE
PRICE \$1.00
THE BEST BOOK FOR THE PLANT GROWER
A. T. DE LA MARE PTG. & PUB. CO. LTD., 2-8 DUANE STREET, NEW YORK

Lilliums for the Trade.

The deliveries of Lillium longiflorum and other sorts of Japan lilies are now about over, and it must be admitted that, contrary to the majority of florists' subjects, the trade, both for the European importer and the grower here, has been in an all around satisfactory condition the whole year; for although prices paid for the bulbs have probably been higher than ever before, the cut blooms have always realized sufficient to leave a comfortable margin of profit.

The process of retarding has generally been carried out in a more satisfactory manner, and the percentage of losses to the grower has been considerably less of late. It used to be the custom to retard lilliums under the same conditions as lily of the valley with more or less considerable disaster. It is now generally recognized that lilliums require a much drier air than valley to be a success, as the excessive moisture required to prevent a valley pip from shriveling when stored in the retarding chamber is not required by the more fleshy and solid lillium bulb and causes it to rot and become useless for cultivation.

It is reported that a much larger number than usual is being packed for retarding (probably a record quantity) for use during 1907, and a good sale is already experienced for these in advance. In fact, some dealers report being booked up for retarded stock for the whole of 1907.

A feature of the trade is the unprecedented advance in price for the last Fall and Winter deliveries, also for the retarded stock for the coming season. Why this advance has occurred is not very clear, and not at all appreciated by growers here, for although the profit on last year's cut blooms was satisfactory, it was not sufficient to cover the full 50 per cent. advance in the price of bulbs. The cause is generally ascribed to larger profits being raked in by the dealers and importers in Europe and the growers in Japan. No doubt this is true to some extent, but there are many circumstances which jointly caused the price to rise; chief among them may be the neglecting of the cultivation of stock in the far East during the late war. There is also a much increased call for the bulbs both in England and America; the demand is also much firmer and more decided in its nature—a fact the Japanese, with their keen business tact, are not slow to recognize, with a consequent increased independent attitude toward the buyer.

The demand at the present time is for much larger sizes than formerly; where 6 to 8 inches was the leading size years ago, the florist who grows for market now buys little else than 8 to 10 and 9 to 11. These sizes, of course, are more difficult to procure in sufficient quantity, necessitating a much larger number being grown for stock in Japan than formerly. Also, since the retarding process has reached comparative success, a larger quantity is required, as practically the whole of this trade is an absolute addition, the bloom being now on the markets practically all the year round. Even under the present fairly successful method of retarding, large numbers are annually spoiled in the process.

It was hoped that a remedy for the high prices would be found in the competition of Dutch-grown bulbs, but although the stock from that country is of especially superior quality, the quantity available is so small as to command little consideration. In fact, I am inclined to think that less can now be procured from Dutch sources than was the case years ago.

Many growers and importers are turning their attention, with great hopes for the future, to the new source of supply from the Azores Islands. I recently inspected some large quantities of these bulbs growing in England and they appeared to be of a very promising nature, the growth all around being much superior to any I have ever seen produced by Japanese bulbs. They are also of a much hardier constitution; the blooms are said to possess as much substance as those of the true giganteum type, and all who have

Dreer's Summer Flowering Bulbs

The Begonias and Gloxinias offered by us are the best that skill and careful selection can produce, being grown for us by one of the most expert European specialists.

TUBEROUS-ROOTED BEGONIAS

Single Flowered, Scarlet, Crimson, White, Yellow, Rose and Orange, 40c. per doz.; \$3.00 per 100; \$25.00 per 1000.
 Choice Single Flowered in Mixture, 35c. per doz.; \$2.50 per 100; \$22.00 per 1000.
 Double Flowering, Scarlet, Rose, White and Yellow, 65c. per doz.; \$5.00 per 100; \$40.00 per 1000.
 Choicest Double Flowering in Mixture, 50c. per doz.; \$4.00 per 100; \$35.00 per 1000.

New Hybrid Frilled Tuberous Begonias

A most unique form of flowers of immense size, with wavy or frilled petals, similar to the best forms of single petunias, 25c. each; \$2.50 per doz.; \$20.00 per 100.

GLOXINIA CRASSIFOLIA GRANDIFLORA

A very fine selected strain, strong, well matured bulbs, Red, White, Blue, Red with white border, Blue with white border, in separate colors or in choicest mixture, 60c. per doz.; \$4.00 per 100; \$35.00 per 1000.

FANCY-LEAVED CALADIUMS

A choice selection of 25 distinct named varieties; fine large bulbs, \$1.50 per doz.; \$10.00 per 100; choice mixed varieties, \$1.25 per doz.; \$3.00 per 100

Our quarterly Wholesale List offers a full line of Seasonable Plants, Seeds and Bulbs.

HENRY A. DREER, Philadelphia, Pa.

Mention the Florists' Exchange when writing.



tried Azores-grown bulbs express themselves as well pleased with the results.

There is a great and growing demand for longiflorum bulbs in England and it has for a long time been felt that a new source of supply was needed to those at present in existence, if only to cheapen the cost of importing the bulbs. Should they advance any more than they have done during this season, the cultivation would certainly be much curtailed, as at the present price of bloom the cost of production does not leave more than a bare margin of profit.

ENGLISH CORRESPONDENT.

A BIRTHDAY CELEBRATION.—W. W. Rawson, the Boston seedman, celebrated his sixtieth birthday on January 23, by giving a dinner at the Hotel Vendome. Some 400 invitations were sent out and about 275 persons were present at the banquet, including the Governor and Lieutenant-Governor, several members of the Council and many of the prominent market gardeners and florists with whom Mr. Rawson has been associated in his past forty years of active business life. The large banquet hall of the hotel was beautifully decorated, and there were many pleasant incidents during the evening, one of which was the presentation to Mr. Rawson of a very handsome hall clock and a Masonic charm. The menu cards were appreciated by every one; on the front was a portrait of Mr. Rawson, and the cards contained a list of the important events of his life. At the conclusion of the dinner Mr. Rawson rose and in thanking his guests for the honor they had done him in attending, said that he had almost passed forty years of an active and successful business life the past two of which had been partly political. He was old and well, with his property free from incumbrances, so he thought it was high time to celebrate. He then introduced G. L. Gould as toastmaster. Governor Guild was the first speaker called upon by Mr. Gould. The Governor after paying a tribute to Mr. Rawson spoke of Massachusetts as an agricultural state. Among other things he said that Middlesex County, where Mr. Rawson had his greenhouses, stood Number 13 among all the counties of the United States in the value of its agricultural products. Among valuable crops grown in this state the Governor mentioned the cranberries of Cape Cod, the lettuce and cucumbers of Arlington and roses of Natick. Other speakers of the evening were: J. J. McCarthy, Samuel J. Elder, Guy A. Ham, Mayor Wardwell of Cambridge, W. A. Lytle, Rev. W. H. Rider and T. L. Creely. J. W. DUNCAN.

CATALOGUES RECEIVED.

J. ROSCOE FULLER & COMPANY, Floral Park, N. Y.—Illustrated catalogue of Seeds, Bulbs, Plants, etc. This firm has adopted the method of giving definite quantities of seeds for 5c. and 10c., instead of the old plan of selling vegetable seeds in packets.

VICK & HILL COMPANY, Rochester, N. Y.—Illustrated Circular concerning High Grade Asters, new and standard varieties. Among the novelties are several of the Branching class, including Cardinal of a color indicated by its name; Rosy Carmine, spoken very highly of by cut flower dealers, Pink Branching, Violet King, etc. Those interested in this popular class of plants will find the document of considerable value.

M. H. BRUNJES & SON, Brooklyn, N. Y.—Illustrated Catalogue of Seeds, Bulbs, Plants, etc. A neatly printed catalogue in which all the newest and standard things are offered. The present year is the firm's twenty-fifth anniversary and the business continues to increase in a most satisfactory manner. The cover designs—Asters and Yellow Globe Danvers Onion—from photographs, are very attractive.

C. C. MORSE & COMPANY, San Francisco, Cal.—Illustrated Catalogue of Garden and Flower Seeds, with a list of Novelties and Specialties. Sweet peas form a leading line of this concern, a very comprehensive list of which, including several novelties, classified as to color, is presented. In the general disaster of last April the firm was burned out, and is now located temporarily at 71-3 Clay street, the new house being at Santa Clara.

HENRY F. MICHELL COMPANY, Philadelphia, Pa.—Catalogue of Seeds, Bulbs, Plants, Supplies, etc., with an interesting list of Novelties and Specialties, particularly in asters, sweet peas, etc. The catalogue is profusely illustrated, and contains a colored plate showing Michell's "Improved" Semple's Branching Asters. The beautiful embossed cover designs in color—Nasturtium, Michell's Improved Ideal Sweet Corn, extremely early, and Tomato Very First, are very attractive. Also Wholesale Trade Catalogue of Seeds, Bulbs, Plants, and Supplies.

WATKINS & SIMPSON, London, England.—Foreign and Colonial Wholesale Catalogue of Garden and Flower Seeds. There is included a very extensive list of Novelties in Vegetables and Flowers among the latter Alyssum compactum, Little Derrit, an improvement on Little Gem; Anchusa italica, Dropmore variety; several novelties in antirrhinum; Cineraria hybrida compacta Starfish; various new Nasturtiums; and Sweet Peas, Nora Unwin, Mrs. Alfred Watkins, Frank Dolby and D. J. Castle. A colored plate of the Sweet Peas accompanies the catalogue.

CONARD & JONES COMPANY, West Grove, Pa.—New Floral Guide, 1907. Specialties of this house are Roses and Cannas of both of which comprehensive lists are catalogued. Among the former is the new rose, Charles Wagner, and among cannas, William Saunders, Ottawa and New York. General collections of Plants, Bulbs, Shrubs and Fruits are also enumerated, the cata-

logue being profusely illustrated. The cover designs, Roses in color, are very attractive, including Magnifano, White Maman Cochot, Souvenir de Jeanne Cabaud and Charles Wagner.

HOLMES SEED COMPANY, Harrisburg, Pa.—Catalogue of Vegetable, Field and Flower Seeds, Plants, Roots, Supplies, etc., with a full list of novelties and specialties. A feature of this catalogue is the list of premiums offered by the concern. Mr. Holmes is always happy in the selection of his cover designs the present year's being a representation of a young gardener contemplating the break-down of his "go-cart," which apparently proved inadequate for the wealth of products, from Holmes's seeds, heaped upon it. The back cover design shows "Burrell's Gem" Rocky Ford melon.

COX SEED COMPANY, San Francisco, Cal.—Seed and Plant Annual, 1907. Illustrated Catalogue of Seeds, Plants, Small Fruits, etc. The cover subjects are Evelyn Eyatt and Gladys Unwin Sweet Peas, and a collection of Orchid-flowered Cannas. The firm is now located at 125 Market street, San Francisco. It states: "Our seeds were always fresh, but to those who may have had any doubt on this point we would say that every seed we had was destroyed by the fire, so that to those desiring a fresh seed this will surely be a convincing argument." The offerings are, as usual, very complete in all the lines listed.

LEONARD SEED COMPANY, Chicago, Ill.—Catalogue of Vegetable and Flower Seeds, Supplies, etc. A contemporary, in speaking of this concern, says: "The business was established by S. F. Leonard in 1884 and incorporated in 1901. It is the largest seed growing firm of the central West, where a very large part of the seeds used by planters are produced. Its growing points are variously located. Beans in different parts of Michigan and Wisconsin, where the soil produces the bright sample and high germinating quality; peas in selected parts of northern Wisconsin and Michigan, where freedom from bugs and full maturity is assured; vine seeds and sweet corn in several States where the conditions are the most suited to their growth; garden seeds of all kinds at the points safely adapted to their development." Onion sets are a leading specialty of this firm, large quantities being handled. Illustrated.



Lambert's Pure Culture Mushroom Spawn.
 Produced by new grafting process from selected prolific specimens, thoroughly acclimatized.
Has never failed to run.
 Sold by Leaps Seedman.
 Practical instructions on "Mushroom Culture" mailed free on application.
 American Spaw Co.
 St. Paul, Minn.

Sphagnum Moss and Cedar Poles

Moss, 5 barrel bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Poles, 2 in. butt, 8 ft. long, \$15.00 per 1000; 2 1/2 in. butt, 10 to 12 feet long, \$22.50 per 1000.

R. H. AKERS, Chatsworth, N. J.

GRAND NEW CANNAS

William Saunders

The flowers are large, of splendid form, and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson. Foliage is a large and beautifully formed, color is carmine with tints of old rose and deep coral, add to this the silken sheen and you can imagine the effect a few plants will produce.

Ottawa

is a strong grower, very robust and 5 to 6 feet high. The flowers are large and beautifully formed, color is carmine with tints of old rose and deep coral, add to this the silken sheen and you can imagine the effect a few plants will produce.

Note.—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert:

Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 massed in one bed during the past season this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size." 50c. each; \$5.00 per doz.; \$35.00 per 100.

New York

Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of cannas. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Send for our list and prices of 60 other leading varieties of cannas.

ROSES

Are our great specialty, 2 and 4 in. pot plants we have in great variety. Teas, Hybrid Teas and H. P. Roses on their own roots. Philadelphia Rambler, Crimson Rambler, Dorothy Perkins and other climbers in strong field plants.

Shrubbery

in variety. Viburnum Plicatum, Spireas, Altheas, Deutzias, Weigelias, Barberry Thunbergii, Hydrangea Pau. Grandiflora, Honeyuckles, etc.

Send for our Price Lists.

THE CONARD & JONES CO., WEST GROVE, PA.

CANNAS

Plump, sound roots, 2, 3 eyes and more, no cuts, true to name, 250 at 1000 rate. Our stock is first-class only.

	Doz.	100	1000
ORCHID CANNAS.			
America, 5 ft. 100%.....	100	1000	
bronze-leaved	\$2.00	\$18.00	
Allemania, 4 ft.	\$0.30	1.50	10.00
Anatolia, 5 ft. ....	.30	1.50	10.00
Barbana, 4 1/2 ft. ....	.50	2.50	10.00
King Humbert, 4 ft.	2.50	20.00	
Mrs. Kate Gray, 5 ft. ....	.35	2.25	20.00
Pennsylvania, 5 ft. ....	.35	2.25	20.00
Italia, 4 1/2 ft. ....	.30	1.75	18.00
BRONZE CANNAS.			
Black Beauty, 5 ft. ....	.50	4.00	25.00
Brandywine, 3 1/2 ft. ....	.35	3.00	25.00
David Harum, 3 1/2 ft. ....	.35	3.00	25.00
Egandals, 3 1/2 ft. ....	.35	3.00	25.00
Grand Rouge, 8 ft. ....	.25	1.50	12.50
Robusta, 7 ft. ....	.25	1.50	12.50
Bronze Queen, 5 ft. ....	.25	2.00	18.00
President Meyers (sub. for King Humbert, gold medal, 4 ft. ....	.35	3.00	25.00
PINK CANNAS.			
Martha Washington, 3 1/2 ft. ....	.30	2.00	17.00
Louisa, 5 ft. ....	.30	2.00	17.00
West Groves, 4 ft. ....	.30	2.00	17.00
Empress of India, 5 ft. ....	.30	2.00	17.00
GOLD-EDGED CANNAS.			
Plazaon's Premier, 2 1/2 ft. ....	.40	2.50	24.00

For full description of above and many more varieties of CANNAS, see our catalogue.

SHELLROAD GREENHOUSES, Grange, Baltimore, Md.
Mention the Florists' Exchange when writing.

Roses! Cannas! Violets!

Roses. We have in stock upward of 1000 different varieties, consisting of the very latest European varieties, as well as all the leading varieties of American origin. Stock from 2 1/2 and 4 and 6 in. pots, all on own roots. Ask for catalogue.

Cannas. 40 leading varieties. \$10.00 per 100 and upward. Write for list and prices. Louisiana Cannas \$3.00 per 100.

Violets. Lady Hume Campbell, Princess of Avellan and Loxton, nice strong plants, from 2 1/2 in. pots, \$3.50 per 100; \$30.00 per 1000.

Clematis Paniculata. two-year-old field-grown stock, strong plants, per 100 \$7.00, per 1000 \$65.00.

Claire Discolor. nice plants, from 2 1/2 inch pots, per 100, \$4.00.

Cyperus Gracile. from 2 1/2 in. pots, per 100 \$3.50.

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Mention the Florists' Exchange when writing.

ROSES

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THE LEEDLE FLORAL COMPANY
SPRINGFIELD-OHIO

10,000 MAMAN COCHET ROSES

White and Pink, 2 year old stock, the finest grown in Riverton, \$5.00 per 100.

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Announcement

OWING to unavoidable accident, and unforeseen delays in the construction of my New addition for the growing of "QUEEN BEATRICE," I find it impossible to produce sufficient young stock to supply the orders already in hand to justify me in disseminating "QUEEN BEATRICE" this Spring.

I make this announcement thus early to avoid inconvenience to those who have reserved space for the Rose. Thanking my many friends for their kind and favorable expression who have seen it grow, and my many patrons who have favored me with their liberal orders for 1907 and have consented to leave their orders stand for 1908 Delivery. Thanking you again, I am,

Most respectfully yours,

F. H. KRAMER.

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Field Grown—Own Root—Very Fine: Three grades: Low Prices. Cochet,—Pink and White, and Teplitz—nice plants at \$5.00 per 100; also, some for \$3.50 per 100,—prime for lining out,—all from the field.

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Two years, field-grown, budded on Manetti; all of our own growing; strong, sturdy, well-ripened, hard-wooded, American-grown stock.

Price..... \$15.00 per 100 (Write for prices on large lots.)
Send for our Spring Price List, now ready; largest stock and completest assortment of Roses in the country, leading kinds, either budded or on own roots; list showing varieties, quantities available, and prices, sent, on request, to those in the Trade.

JACKSON & PERKINS CO., Newark, New York.
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GRAFTED ROSES

THE GRAFTING SEASON is a most interesting and a very important one on a large plant like ours. We ordered one hundred and sixty thousand Manetti stock for this winter's work. All orders received before the grafting is over will be carefully filled and the plants

reserved for each customer. It is therefore an advantage to our patrons to make their wants known as early as possible. We offer this year the following assortment: **Bride, Bridesmaid, Bon Silene, Etoile de France, Franz Deegan, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Liberty, Mme. Abel Chatenay, Mme. Caroline Testout, Mme. Hoste, Mrs. Pierpont Morgan, Maman Cochet, Marechal Niel, Perle Des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.**

The above grafted from 2 1/4 inch pots, \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

American Beauty. On own roots, from 2 1/2 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1000; April, May and June delivery.

Mme. Norbert Levavasseur. (The Baby Rambler.) An everblooming dwarf Crimson Rambler. We will furnish May delivery plants of this sensational rose from 2 1/2 inch, at \$2.50 per dozen; \$15.00 per 100.

OUR GUARANTEE GOES WITH EVERY PLANT

A. N. PIERSON - - - - - Cromwell, CONN.

Mention The Florists' Exchange when writing.

ROSES

The past season has been a very unsatisfactory one for all florists, for rose growers in particular. There has been but very little sunshine, and as a result the plants have not made their customary growth. However, the tide is turning, and as the days grow perceptibly longer it is hoped there will be a change for the better. If in good health, the plants will from now on require some extra feeding to support the new growth; this can best be applied in the form of liquid manure. Use it weak and often. For best results the manure should be allowed to ferment, then run it into a tank and dilute as desired. If sheep manure can be procured one application every three weeks as a change will prove very beneficial. Of course, where the liquid manure cannot be used, a good mulch of but partly decayed cow manure, to which a small quantity of soil has been added should be applied. Afford it on a clear day and then give the bench a good soaking. When leveling, do not break up the soil too fine. Keep the plants tied, and see that none of the young shoots touch the glass, as two or three freezings will ruin them.

As considerable firing has to be done, give attention to the bottoms of the benches; they are apt to get dry, especially after the mulch is applied.

Unless the hose is properly handled red spider will soon begin to assert itself; so do not wait till the foliage is half gone, but keep an eye on the corners and around the supports.

As the cuttings will soon need potting, get the soil in shape. Put some of it at least into the potting shed where it can dry out a little, it will screen easier and be in much better condition for potting. When the roots of the cuttings are about 1/2 to 3/4 inches long they are at their best; there is then less danger of breaking them while potting. The question of how many thousand can be potted in a day is nothing compared with how the work is done. Pot firmly, and be careful to have the pots even; this facilitates the work of watering, for if all the pots are filled alike they take the same amount of water. It is a waste of time and space to bother with poorly rooted cuttings; discard them now, for it is doubtful if they will ever make good plants. After potting give a good watering, just enough so that the whole ball is nicely moist, not mushy; then, if a clear day, shade with paper. This watering usually will last till the roots have started, but the plants should be shaded for three or four days from the bright sun. The temperature should run from 56 at night to 70 degrees in the daytime.

Give the young stock the front bench where it can get plenty of light. The back benches may be poorer just now, but it pays to make a little sacrifice at this time and get nice stock for next season. It is needless to say the

GRAFTED ROSES

On Dicksons' Irish Manetti.

We are now booking orders for March delivery. **KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND;** \$120 per 1000.

Order Now

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- White, pink, red, crimson and variegated... \$1.25
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 - Gazania Splendens... 1.50
 - Heliotrope, Dark, from soil... 1.00
 - Lantana, dwarf, 6 varieties, from soil... 1.25
 - Lantana, trailing... 1.25
 - Scarlet Sage, tall and dwarf... 1.00

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- Dracena Indivisa, 18 to 36 in. high... \$20.00
- \$10.00, \$15.00 and... \$20.00
- Shaata Daisy, 3 in... 3.00

Cash with order please.

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pots used should be clean, not coated with scum and half filled with old soil from last year. If dry, or when new pots are used, give them a dip in a tub of water, not enough to soak them though.

These are small things, well known to older growers, but of some value to beginners. PENN.

SPIRAEAS, AZALEAS, RHODODENDRONS, Etc.

- SPIRAEA NANA COMPACTA**, Strong clumps in best condition, \$4.00 per 100.
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 - 14 to 16 in. crowns—\$55.00 per 100.
 - 16 to 18 in. crowns—\$90.00 per 100.
- AZALEA MOLLIS**, Fine for forcing, bushy and full of buds.
 - 12 to 15 in. high—\$25.00 per 100
 - 15 to 18 in. high—\$35.00 per 100
- RHODODENDRONS**, bushy, perfect plants, brightest and best we ever had—full of flower buds.
 - 18 to 20 in. high, \$9.00 per doz.
 - 20 to 24 in. high, \$12.00 per doz.
- LATANIA BORBONICA**, 4 in. pots, short and bushy, \$15.00 per 100.
- KENTIA BELMOREANA**, 5 in. fine, \$60.00 per 100.

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- Rooted Cuttings. Our selection... \$.75 per 100 \$ 6.00 per 1000
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CARNATIONS Choice Rooted Cuttings Free From Disease

- Robert Craig, scarlet, very productive; My Maryland, pure white, good stems. Cardinals, scarlet, good flowers; Jessica, white, pencilled with scarlet. Price \$6.00 per 100; \$50.00 per 1000.
- Crisis, Lady Bountiful, Enchantress. Price \$3.00 per 100; \$25.00 per 1000.
- Mrs. M. A. Patten, Judge Hinsdale, Flamingo, Buttercup. Price \$2.50 per 100; \$20.00 per 1000.
- Mrs. Thomas Lawson, The Queen. Price \$2.00 per 100; \$17.50 per 1000.
- Golden Beauty, Prosperity, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000.
- Mrs. E. A. Nelson, Dorothy, Wm. Scott, Flora Hill, Ethel Crocker, Eldorado, Mrs. Joost, Portia. Price \$1.50 per 100; \$12.00 per 1000.

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Rooted Cuttings of The Bride and Bridesmaid Roses

\$1.50 per hundred. Our Roses were awarded first prize by American Rose Society. SMILAX at 12 1/2 c. per string

BRANT BROTHERS, Utica, N. Y. Successors to Peter Crowe.

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FREE STOCKS FOR EASTER FREE

Large flowering. Ten week stock, dwarf bouquet, 8"-9" per cent. double; the finest strain for forcing and pot plants; sells at sight. "F" Snowflake, white; Imperial, blue; Triumph, scarlet; strong plants from 2 1/4 in. pots. \$2.50 per 100; \$20.00 per 1000. "E." Each color separate or mixed. Trade package of seeds from the above strain 3 colors, goes free with every order for 100 plants.

SHELLROAD GREENHOUSES, Grange, Baltimore, M. D. Mention The Florists' Exchange when writing.

Sacrificing Plants

To make room for Easter stock. All large, healthy plants in bud and bloom. Azaleas, 50c. to \$1.00 each. Primula Obconica 4 in., 6c.; 6 in., 10c. Primrose, 4 in., 10c. Cineraria, 4 in., 8c.; 6 in., 10c. Cyclamen, 4 in., 10c.; 4 1/2 in., 12c. Rooted Carnation Cuttings, Admiral Severin, \$12.00 per 1000. Cash Please. **F. B. RINE, LEWISBURG, PA** Mention the Florists' Exchange when writing.

OUR CARNATION NOVELTIES FOR 1907

Winsor, the most talked about Carnation at the Toronto Convention. Won first prize for best 100 pink.

Winsor, White Enchantress, and Helen M. Gould

ONE way to judge carnations is to see them on the exhibition tables. A better and more convincing way is to see them growing; therefore we cordially invite all carnation growers to visit us and judge for themselves regarding the superiority of the above-named sorts.

Our carnation houses are at **Scarborough-on-Hudson** (not Tarrytown). Friends who desire to visit us can take the N. Y. C. & H. R. R. R. from New York. Trains leave there every half hour. Scarborough is the first station north of Tarrytown. Our grounds adjoin the station, and the greenhouses are about five minutes walk from the station.

We are growing **25,000 plants of Winsor** for cut flowers, alone, for the New York market this season, which shows the faith we have in it. This will also enable visitors to see it growing in quantity, and, besides that, will give us enough plants to get a great abundance of fine, healthy cuttings without over-propagating. We have already booked a large quantity among the large growers, and anticipate for this variety the largest sale of any new carnation that has ever been distributed, as large growers who have seen it are enthusiastic in regard to its value. Those who have seen it have immediately placed large orders for it, so we recommend those who have not ordered to place order without delay, so as to ensure early delivery.

For full description of these three valuable novelties, see our wholesale price list. Of course, we shall have all of these varieties on exhibition at Toronto, where they can be seen, and where they will speak for themselves.

WHOLESALE PRICES ROOTED CUTTINGS SPRING 1907

- Winsor.** Soft silvery pink. The best color, best keeper, best shipper, best seller—best every way. \$12.00 per 100, \$100.00 per 1,000.
- White Enchantress.** Has the large size, long stem, productive habit of Enchantress, but is pure white. \$12.00 per 100, \$100.00 per 1,000.
- Helen M. Gould.** A beautiful sport of Enchantress. Ground color lovely shade of silvery pink, with very fine pencillings of carmine, making an exceedingly exquisite combination. While on close observation this variety is variegated, the general effect is one beautiful tone of dark pink. Exceedingly valuable, because it combines the earliness, freedom, long stem, and large size of Enchantress, giving another color possessing all the other desirable qualities of Enchantress. \$12.00 per 100, \$100.00 per 1,000.
- Beacon.** Orange-scarlet. A vigorous, healthy grower, of ideal habit. A profuse bloomer, with long stems. \$12.00 per 100, \$100.00 per 1,000.
- Aristocrat.** Cerise-pink. Will be planted largely in place of Lawson. \$12.00 per 100, \$100.00 per 1,000.
- Melody.** Daybreak sport of Lawson, about the same color as Enchantress, but much brighter, and does not fade like Enchantress. Also a much better keeper and shipper. Those who grow the Lawson varieties exclusively will find this very valuable and desirable, because it gives an improved Enchantress color, which is so popular, and at the same time can be grown in the same house with the other Lawsons. An extra fine thing in every way and in great demand. A great addition to the Lawson class. \$10.00 per 100, \$75.00 per 1,000.
- Rose Pink Enchantress.** A sport of Enchantress. Color, dark rose-pink. \$7.00 per 100, \$60.00 per 1,000.
- White Perfection.** A novelty of 1906, and a variety for which there is a great demand this season. A third larger than Lady Bountiful and a more perfect flower. \$6.00 per 100, \$50.00 per 1,000.
- Victory.** Scarlet. This is giving great satisfaction, being a free blooming, profitable scarlet. \$6.00 per 100, \$50.00 per 1,000.
- Red Lawson.** A fine red. Our stock of this is superior to many stocks of Red Lawson that we have seen. \$4.00 per 100, \$30.00 per 1,000.
- Variegated Lawson.** The most productive of the variegated sorts. A favorite. Outblooms Mrs. M. A. Patten. \$4.00 per 100, \$30.00 per 1,000.
- White Lawson.** An excellent white. \$4.00 per 100, \$30.00 per 1,000.
- Lady Bountiful.** Pure white. \$4.00 per 100, \$30.00 per 1,000.
- Enchantress.** \$3.00 per 100, \$25.00 per 1,000.
- Mrs. M. A. Patten.** \$3.00 per 100, \$25.00 per 1,000.
- Mrs. Thos. W. Lawson.** \$3.00 per 100, \$20.00 per 1,000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

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REVIEW OF THE MARKET

NEW YORK.—The continuous sunless weather makes roses a very scarce article in this market, and prices necessarily remain high. In the case of Bride and Bridesmaid it seems almost impossible to fill orders on the short grades. American Beauty of the fancy grade, not being so absolutely necessary to many of the retailers, the dollar price which is asked for the very finest can hardly be said to be firm, as regular buyers are able to get the flowers at 75c each, though outside customers have to pay \$1 if they demand the best grade. Carnations are getting more plentiful as the week progresses, and while prices are being maintained fairly well it would seem but a question of a few days when there will be a break in values. Lilacs are exceedingly scarce, and the best are held firm at 20c. Lilac as yet does not seem to have become overplentiful, and is clearing out at satisfactory figures. Sweet peas have not yet come to be a feature in New York; this, without doubt, is owing to the cloudy weather, as the plantings of sweet peas for Winter-flowering for this market, are, we believe, much heavier than has been the case for many years. Tulips and narcissus, in the several colors, are all finding a better market than has been the rule for many years, owing to the scarcity of the violet market suffered greatly for overproduction a week ago, but has again become firm, with the price at 50c per 100 for choice. These are the best California. Governor Herrick are selling at 20 cents per 100. Lily of the valley of ordinary quality is meeting with a poor demand at \$2 per 100; special grades run to \$4, and are scarce. Sweet peas are arriving in limited quantities, selling at 75c and \$1 per 100. Bulbous stock, such as tulips, Roman hyacinths and Paper White narcissus are selling well. Von Sion have appeared, but in very small quantities. The green market is in a healthy condition, as there is plenty of smilax, asparagus, adiantum, galax and common trees to be had in any quantity.

CHICAGO.—The clear, bright, cold weather of late has tended to improve the quality of stock, though there is a marked shortage in nearly all lines, especially in all varieties of roses which if of good quality were very desirable property last week. Many shippers found difficulty in filling all requirements of their customers. Colored carnations were perhaps furnished in quantities sufficient for all demands, as fully as any of the principal staples, yet the call was sufficient to clean out these as well as practically everything else every day. Owing to the shortage prices on roses are somewhat higher than is looked for at this season, the best American Beauty being quoted at \$3 per dozen, Bride and Bridesmaid at \$15 per 100, and other roses proportionately strong. This week opened with a storm, and price held firm in all directions, the wholesalers all claiming a very satisfactory business cleaning out of everything at satisfactory figures. Stock generally is in good shape, though there has been some little complaint of sleepy carnations. Bulbous stock is increasing in quantity and variety, adding an attractive Spring feature to the flowers in hand. Green goods generally are in ample supply and of good quality, with the exception of hardy ferns, which are coming out of storage in poor condition; when in first class shape \$3 per thousand is realized for them. W. K. W.

BOSTON.—There has been so much dull weather lately that seldom has a season been seen at this time of the year when such a scarcity of some kinds of flowers was apparent, especially of roses. Then again, the most of the past week has been of the old-fashioned New England Winter type, and some days trade has been rather unsatisfactory. Carnations seem to be more plentiful than roses. Bulbous stock of all kinds has been bringing better prices than for many a day. Lilacs are not very plentiful. There are lots of good lily of the valley. Violets are perhaps the most plentiful of all flowers, and prices on these are low.

PHILADELPHIA.—Conditions in the cut flower market are about as reported last week. The supply is still scarce, but below demands, and great difficulty is experienced in filling orders to the satisfaction of customers. American Beauty roses are quoted at \$9 and \$10 per dozen for the best stock; there is a strong call for lower grades, but few are to be had. Don't ask for tea roses, one hears on every side. Prices range from \$8 to \$15 for general stock; a few Killarney have sold at \$25 per 100, and a few Richmond sold on Tuesday at \$50 per 100. They were very good with 3 1/2 foot stems. Carnations are in fair supply, but more can be used for prices range from \$2 to \$3 per 100 for general stock; fancy flowers of Enchantress and Beacon are selling at \$3 per 100. Violets are selling rather better this week, doubles at \$1 to \$1.25 with \$1.50

per 100 for white; singles, large varieties, at 50c. to \$1 per 100. Bulbous stock is moving very fast. Tulips white and yellow bring \$4 per 100; daffodils from \$1 to \$5 per 100. Paper White narcissus \$2 to \$4 per 100; Roman hyacinths, \$2 to \$3 per 100. Sweet peas are improving in quality and bring \$1 to \$1.50 per 100. Lillium Harris, cut, at \$2 per dozen flowers, are selling fast. DAVID RUST.

ST. LOUIS.—Business the past week in cut flowers, design work and for wedding receptions was reported very good. The weather has been exceedingly mild for the month of January, which created a large supply of cut stock, but the demand was great, so stock was reported scarce. Really fine roses are very scarce just now, and even the supply of the lesser grades has been limited the past week. American Beauty long fancy, are up to \$3 per dozen; those with shorter stems come in more or less deformed. Bride and Bridesmaid, for extra fancy, bring \$20 per 100. Richmond, Ivory and Killarney seem just as scarce, with the trade clamoring for the few that come in. As to carnations, this Monday morning they are also up in price. Any that look fancy fetch \$5 per 100 and small, common stock \$3 and \$4. These prices were owing to McKinley Day, Tuesday. Enchantress and any good white are also in big demand.

INDIANAPOLIS, IND.—Conditions have improved materially, as there have been several bright, crisp days, and stock is much finer and of better color. The volume of business transacted is also much heavier. Counter trade is brisk; and there are numerous funerals calling for quantities of flowers. The heavy supply of stock has not been sufficient lately and much is shipped. Spring flowers, tulips, jonquils, narcissus, sweet peas and freesias are in heaviest demand. Bulbous stock generally wholesales at \$3.50 to \$4 per 100. Select sweet peas bring \$1 to \$2 per 100. Single violets in a ready sale, as they outclass the double in quality, at \$1 per 100.

ST. PATRICK. Conditions are generally off crop and weak-stemmed; the best bring \$7 per 100. Carnations are in fair supply, but for some time, but the price is still firm at \$4 to \$5 per 100 for fancies. Medium grades, including Mrs. Lawson, are sold at \$3 to \$4 per 100. The general retail price is \$4 per dozen. McKinley Day caused no change in prices. Harris' blues and callas find a ready sale at \$10 to \$12.50 per 100. Cyclamen are often cut and sold at \$2.50 per 100.

Plant trade is still very brisk. The supply is augmented by a quantity of lilacs, azaleas, hyacinths and rhododendrons. Tomlinson Hall market reports a most satisfactory business, but the quantity of flowers brought there is not great, as most of them are wholesaled direct. I. E.

NEW BEDFORD, MASS.—With the continued cloudy weather and snowy days it is a hard thing to get blooms enough to supply the demand. Trade is very good with lots of funeral work; but the hardest thing just now is to get stock to fill orders. Prices remain fairly good. Carnations, retail bring from 60c to 75c; roses \$2 to \$3 per dozen. Violets are of fairly good quality; these bring \$1.50 per hundred. Sweet peas are in the market selling at \$1 per hundred. Freesias are also in bloom; these work in very readily for funeral work.

The stock and fixtures of S. S. Peckham at 8 South Sixth street, were sold at auction January 27. Mr. Peckham will devote his time to wholesale growing for the trade at his large range in Fairhaven. W. K. W. reports that his place on Hillman street has things in very good shape. He is putting up another 1,000 square feet of glass; this will be devoted in the Spring to vegetables and afterward to callas. HORTICO.

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Indianapolis.

News Notes.
'Tis better to have tried and lost than never tried at all' is the way the local florists philosophize in regard to the next meeting place of the American Carnation Society. Indianapolis hopes to have the pleasure in 1909, and is much satisfied to have the president from this State. Peter Weiland has a new variegated rose; it is a sport of Bridesmaid and is well defined. The grower now has several stock plants. Wm. Hack, the oldest son of the Bendavis florist, has joined the Navy. The employees of Bertermann Brothers Company, at 3010 East Washington street, entertained last week. A most enjoyable time is reported. The Indiana Floral Festival Association has decided not to hold a show this Fall, as neither the new coliseum nor Tomlinson Hall will be available.

ELEGANTISSIMA FERN RUNNERS

Very fine stock, \$1.50 per 100; \$12.00 per 1000.
BOSTON, Bench, 4 in. 10c.
TARRYTOWN, Bench, 2½ in., 4c.; 3 in., 10c.; 4 in., 15c.; Runners \$1.50 per 100.
Flowering Begonias, 8 kinds, 2 in., 2½ cts.
ROOTED CUTTINGS, prepaid per 100.
Paris Daley, white, yellow, \$1.00; **Alexandria**, \$1.25; **Fuchsias**, 5 kinds, \$1.25; **Ageratum**, white, Gurney, Pauline, 60c.; **Vinca Variegata**, 90c.; **Double Petunias** 10 kinds, \$1.00; **Salvia Bonfire**, Splendens, 90c.; **Alternanthera**, 3 kinds 50c.; **Heliotrope**, 3 kinds \$1.00; **Rex Begonias**, 20 kinds mixed \$1.25.
 Cash or C. O. D.

BYER BROS., Chambersburg, Pa
 Mention The Florists' Exchange when writing.

WHITMANI FERN

Large stock of strong plants, 2½ inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN
 3 inch pots.....\$ 8.00

SCOTTII
 2½ inch pots.....\$ 5.00
 4 inch pots..... 12.00

KENTIA FORSTERIANA
 4 inch pots, made up, strong and bushy.....\$25.00
 5 inch pots, made up, strong and bushy..... 50.00
 No order for less than 10 plants accepted.

CHAS. H. CAMPBELL,
 3601 GERMANTOWN AVE., PHILA., PA
 Mention The Florists' Exchange when writing.

FERNS MY SPECIALTY

Please notice the big reductions. **Cibotium Schiedel**, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:
 Strong plants from 2½ in. pots, \$10.00 per 100, \$95.50 per 1000.
 3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100; 5 " " 60.00 each. 1.70 each.
 10 " " Large specimen, \$5.00 each.
Adiantum Regina, a beautiful fern, also called the hardy Farleyense, 4 in. strong plants, \$25.00 per 100, 5 in. \$40.00 **Adiantum Rhodophyllum**, 4 in., \$20.00; 5 in., \$35.00 per 100. Assorted ferns for jardinières, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate.

J. F. ANDERSON,
 Successor to Anderson & Christensen,
 SHORT HILLS, N. J.
 Mention the Florists' Exchange when writing.

NEPHROLEPIS

Whitmani, 2½ in., \$10.00 per 100.
 Boston, 2½ in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass.
 Mention the Florists' Exchange when writing.

Adiantum Farleyense

The Very Best Only
 5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 per dozen.

JULIUS ROEHR'S COMPANY
 Exotic Nurseries Rutherford, N. J.
 Mention the Florists' Exchange when writing.
 Grower of Palms, Ferns and other Decorative Stock.

John Scott
 Rutland Road & E. 45th St., BROOKLYN, N. Y.
 Telephone 2890 Bedford.
 Mention the Florists' Exchange when writing.

BOSTON FERNS

Very fine bushy stock from 6 in. pots 60c.; 7 in pots \$1.00; 8 in pots \$1.50; 9 in. pans \$2.00.

FRANK N. ESKESEN, MADISON, N. J.
 Mention the Florists' Exchange when writing.

GERANIUMS
 in good varieties
 2½ in. pots, ready
 March 1 1907.
WM. J. CHINNICK, Trenton, N. J.
 Mention the Florists' Exchange when writing.

SPECIAL OFFER

Cyclamen Splendens Giganteum. This strain has no equal or better; in five colors, including fringed varieties twice transplanted from flats \$3.00 per 100, \$25.00 per 1000.
Primula Obconica Grandiflora. The celebrated Ronsdorfer and Lattmans Hybrids in bud and bloom, from 5 in. pots, \$1.80 per doz., \$15.00 per 100.
Primula Chinensis. Fringed varieties, extra fine plants in bud and bloom, from 4 in. pots, \$1.00 per doz., \$8.00 per 100.
Cinerarias Hybrida Grandiflora. Well grown plants, 2½ in. pots \$2.50, from 3 in. pots \$4.00, from 5 in. pots \$15.00 per 100.
Asparagus Plumosus Nanus. Fine plants, 2½ in. pots \$2.50, from 3 in. pots \$4.00, from 3½ in. pots \$8.00 per 100.
Cannas. Pres. McKinley, Alph. Bouvier, Chicago, Queen Charlotte, Florence Vaughan, Egandale, J.D. Cabos, fine tubers, no better, true to name; \$2.00 per 100, \$17.50 per 1000.
PAUL MADER, EAST STROUDSBURG, PA.
 Mention The Florists' Exchange when writing.

Mention The Florists' Exchange when writing.

LATANIA BORBONICA

	100	1000
2 inch.....	\$3.00	\$25.00
3 inch.....	6.00	
4 inch.....	12.00	

These are good value and in fine condition.

AZALEAS in fine shape 40c., 50c., 70c., \$1.00, \$2.00 and \$3.00 each. Order now and grow for Easter.

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

KENTIA BELMOREANA

5 in., clean and bushy, 50c. and 75c. each. 2½ in., for center of fern dishes, 10c. each; \$9.00 per 100.
SCOTTII FERNS, 6 in., 40c.
DRACAENA INDIVISA, 6 in., 35c.
FERNS FOR JARDINIÈRES, etc., \$3.00 per 100

H. WESTON, HEMPSTEAD, N. Y.
 Mention The Florists' Exchange when writing.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.
Sander, St. Albans, England
 and
 235 Broadway, Room 1, New York City
 Mention The Florists' Exchange when writing.

ORCHIDS

Arrived in fine condition. **Cattleya Harrisoniae**, **C. Intermedia**, **C. Gigas**, **C. Trianae**, **Speacelsheimia**, **C. Leopoldii**, **Laelia Purpurata**, **Oncidium Varicosum Rogersii**, **O. Marshallianum**, **Phalaenopsis Amabilis** and **P. Schilleriana**. Write for prices.

LAGER & HURRELL, Summit, N. J.
 Growers and Importers
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ROBERT CRAIG & CO.

ROSES, PALMS, CROTONS
CARNATIONS and Novelities in DECORATIVE PLANTS
 Market and 49th Sts. PHILADELPHIA, PA.
 Mention The Florists' Exchange when writing.

Holly FERNS

We still have fine stock in 2 in. pots, and will give you specially good count on all orders you send us during January. 20 per cent. extra count on all orders for mixed ferns at \$3.00 per hundred.
R. G. HANFORD, - NORWALK, CONN.
 Mention The Florists' Exchange when writing.

For Decoration Day SPIRÆAS

Are a most useful plant

We have an excellent lot in cold storage, extra large clumps, and offer them as follows:
Spiræa Japonica. Per 12 60c., per 100 \$4.50, per case, about 300, \$12.00.
Spiræa Compacta Multiflora. Per 12 60c., per 100 \$4.50, per case, about 300, \$12.00.
Spiræa Asilloidea Floribunda. Per 12 60c., per 100 \$4.50, per case, about 300, \$12.00.
Spiræa H. Witte (new). Undoubtedly one of the finest and most profitable Spiræas for florists. Per 12 \$1.00, per 100 \$7.50, per case, about 300, \$21.00.

POT GROWN LILACS

Extra strong and well set with buds.
50 Marie Le Graye, 50 Chas. X, 50 Wä Caseler Perler, 50 Md. Lemoine, \$8.00 per dozen while they last
50 Deutzia Lemoinei (pot grown), at 18c. each

Arthur T. Boddington
 342 W. 14th St., New York
 Mention the Florists' Exchange when writing.

PALMS AND FERNS

Write for Price List.
The Geo. Wittbold Co.
 1657 BUCKINGHAM PLACE CHICAGO
 Mention The Florists' Exchange when writing.

POINSETTIAS

Field grown, one year old, excellent stock, delivery March first. \$10 per hundred, \$85 per thousand. Address,

Frank S. Sessions, San Diego, Cal.
 Mention the Florists' Exchange when writing.

CINERARIAS

CINERARIAS, best strain, 6 in., fine plants, ready to bloom, most in buds, \$2.00 per doz., \$15.00 per 100.

AGERATUMS, (Inimitable); these Giant varieties are the best in cultivation. R. C., \$1.00 per 100; 2½ in., \$2.50 per 100.
J. C. SCHMIDT CO., BRISTOL, PA.
 Mention the Florists' Exchange when writing.

GERANIUMS

Ricard, Doyle, Buchner, Nutt, Poitevine, Brett.

Perkins, Pasteur, Montmort. 2 in. pots, \$2.00 per 100; \$20.00 per 1000
Cannas. Pleasing varieties, \$1.50 per 100.

ROOTED CUTTINGS

Fuchsias, best varieties.....	100	1000
Double Petunias	\$1.50	\$10.00
Heliotropes	1.50	
Ageratum, Gurney & Pauline .....	.60	5.00
Lobelia Compacta, blue.....	.60	5.00
Coleus, Golden Bedder.....	.60	5.00

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

Chrysanthemums

A very good thing, indeed, is the Baby Rambler rose, good at nearly all times and for many purposes. The most profitable for the retail plantsman to handle is stock purchased when in a dormant state and potted up in the Fall or early Spring. The former, now placed in a house of 45 or 50 degrees, will soon fill their pots with active roots, and if then removed to warmer quarters will be in the best of trim for the Easter trade. These latter roses can stand a deal of high heat when fresh growth is pushing and buds are forming, and willingly respond to a considerable amount of forcing. When they show rapid growth of wood above potbound roots, it is well to give them another shift into larger pots three or four weeks before the first flowers open. This will make much finer plants out of them than what they would be if left in their first pots. It takes a little over three months to bring newly potted dormant plants into full bloom. As regards atmospheric conditions, watering, sprinkling, lighter and ventilation, they require a greater amount of care and attention than other roses under similar culture.

For an all-around plant trade during late Spring, Summer and Fall, as also

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

CHARLES H. TOTT
 WHOLESALE FLORIST
 MADISON, N. J.

CHRYSANTHEMUM NOVELTIES A SPECIALTY
 List Now Ready. Send for it.
 Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

Rambler Roses.
 The various varieties of Rambler roses potted up in November or pot-grown all along during last Summer, constitute good property for an all-around Spring trade. It is now time to start them into growth in a temperature of from 40 to 50 degrees, first nicely tying them up into shapely form. No pruning other than cutting away dried tips or scraggy undergrowth should be attempted. Frequent sprinkling of the canes will do much toward securing an even break.

Ramblers intended for the Easter trade should now be well under way in the making of a good start. If so, they will easily bear a temperature of 58 or 60 degrees and even a little higher later on, should the grower encounter any doubts as to their being in good time for Easter, which comes early this year. Sprinkling overhead and a moderately humid atmosphere are most beneficial to the steadily advancing new growth. The full light is necessary for perfect development, and sunshine imparts vigor and depth of color to the flowers. They should be held away from Rambler roses in full bloom, since it is apt to turn brightness of color into lusterless hue, and considerably shortens their flowering season. Great care in the matter of ventilation is necessary in the case of Rambler roses under forcing. Mildew always is easier to overcome by long distance combat than by a struggle at close range; in other words, it is easier to keep it away from Ramblers under glass than it is to fight it with remedies, when once this insidious spoiler of beauty has found a firm foothold in the house.

Hybrid and Everblooming Roses.

Potted roses of all kinds, intended for the Spring holidays and bedding plant trade must be given a chance to break into new growth. Most of these will not only bear but require severe pruning before being started afresh. Strong growers, easily singled out from the rest, have their canes, usually few in number but these thick and sturdy, cut down to from six to ten joints above the pots, or lower if wanted for the grower's own use in permanent outdoor plantings. Everblooming roses of the kinds commonly grown in pots for Easter are pruned down to from four to six good eyes, and the very early and straggly growth is cut away entirely. Hybrid medium strength, ordinarily the most satisfactory of all potted roses, grow into good plants from about five eyes, left at the base of each shoot in pruning.

A slow start in a pretty cool house is the best guarantee for success in the forcing of roses. When begun with the aid of top-sprinkling a good break has been secured, a temperature as high as 65 or even 70 degrees may safely be employed in holding the plants at a rapid pace of development, though a little less heat, steadily held, is more likely to bring the best results. In a too low temperature, however, in that of a carnation house for instance, potted roses will never reach a state of perfect development in growth and bloom—a frequent cause of failure with the smaller growers. In this respect roses of nearly all kinds differ greatly from rhododendrons, spiræas, deutzias and many other hard-wooded plants suitable for forcing. Bedding roses not wanted in bloom at planting time may be grown on in a cool house.

Baby Rambler roses.

A very good thing, indeed, is the Baby Rambler rose, good at nearly all times and for many purposes. The most profitable for the retail plantsman to handle is stock purchased when in a dormant state and potted up in the Fall or early Spring. The former, now placed in a house of 45 or 50 degrees, will soon fill their pots with active roots, and if then removed to warmer quarters will be in the best of trim for the Easter trade. These latter roses can stand a deal of high heat when fresh growth is pushing and buds are forming, and willingly respond to a considerable amount of forcing. When they show rapid growth of wood above potbound roots, it is well to give them another shift into larger pots three or four weeks before the first flowers open. This will make much finer plants out of them than what they would be if left in their first pots. It takes a little over three months to bring newly potted dormant plants into full bloom. As regards atmospheric conditions, watering, sprinkling, lighter and ventilation, they require a greater amount of care and attention than other roses under similar culture.

for the Winter holidays, for which they may easily be had in perfect shape and bloom, it is best to put up good dormant stock of varying sizes in the early Spring and let it take its own time in forming white roots and sturdy top-growth. The best specimen plants are those that never leave the house until sold. If grown in frames or in the open they do not present so fresh and healthy an appearance. After they once show flowers they continue in bloom for any length of time. Faded tufts of bloom should be picked off wherever seen.

Lilium Candidum.

One hears and sees little nowadays of *Lilium candidum*, once the all-favored lily for pot culture. The spread of a disease peculiar to this species, and the advent of the *Harrisii* and long-flowered types are responsible for the small measure of interest accorded the beautiful annunciation lily of old. In the last four or five years a decided betterment was evident in the bulbs of this lily, as coming to us from foreign growers, and the difficulty of securing good, sound stock for forcing is not now so great as to furnish cause for its being shunned by lily growers. As a potted lily for Easter and Memorial Day it cannot be excelled.

In its culture as a lily for forcing it differs somewhat from those species now so largely made use of. It is, however, as easily grown as they are, if some few points in treatment, essential to success, are observed, always provided the bulbs are perfectly sound and healthy.

All lilies suffer by being out of ground any length of time and none of them more so than *Lilium candidum*. Imported bulbs of this lily arrive in the latter part of August and should be planted as soon as received, for if lying around dry they will lose in vigor and value from day to day, often expending their stored up energy in the making of roots and top growth while in this dry state. Another point of importance in the successful forcing of this lily is never to subject it to a temperature any higher than 50 degrees; a little lower rather than there is preferable. Fresh, buoyant air during its growing season is better for it than a close, over-moist atmosphere. And, finally, there is nothing so helpful to entire success in the forcing of *Lilium candidum* as a few sound freezings of the potted bulbs before being brought in.

The fact that antirrhinums are true biennials is often lost sight of by those new in the growing of this useful old favorite for its flowers in a cut state. The propagation by cuttings, which invariably root most easily, is well enough for a year or perhaps two from one and the same set of plants, but after that nothing good need be expected to come from plants obtained by this process. It is then time to renew the stock by growing a fresh lot of seedlings; and where snapdragons are raised somewhat extensively, as is the case now on many places, it is best to always have seedlings on hand as a source to draw from in the annual propagation by cuttings. Of course these seedlings also do their share in furnishing flowers, while producing the cuttings; but the bloom is never quite as uniform in color as those raised on plants obtained from carefully selected batches of cuttings.

It is now time for both the rooting of cuttings and the sowing of seeds, and good stock for next season's crop of flowers is to be provided. The seeds of the tall and most improved kinds in separate colors, white, yellow, pink, and red, should be used in the raising of snapdragons for indoor bench culture. The seedling flower the first year, but it is the second growth, coming in the form of sturdy roots from the base of the plants, which grows into those magnificent long and strong-stemmed, large-flowered sprays, that bring the high price and make the growing of snapdragons a most profitable feature. By pinching back cuttings as well as seedlings, as they rapidly grow into size, strong will be had at any time during the Summer or Fall for benching. They may be grown on in pots, with frequent shifting, which is the better way; or they can be raised into size in the field.

Dwarf Snapdragons.

There are many things listed in the seedsmen's catalogues which are of no use for the commercial florist. Knowing this to be a fact we are very apt to look on some of the listed varieties with great contempt, that, were we to give them a trial, would prove exceedingly useful in one way or another, all depending on into whose hands they fall. Many of the old-fashioned garden flowers we think little of have been immensely improved since the time we knew them well, and others now grown under methods greatly differing from old time usages show up in quite a new light.

Two years ago, through some mistake, I received from my seed dealer a

trade package of mixed antirrhinum seed of the dwarf kinds, instead of a tall pink sort. I sowed the seeds in August, transplanted them into pots in late Fall, placed them under a carnation bench, cut them down to within a few inches of the pots in January, gave them a long shift into 5-inch pots and started them into fresh growth on the southernmost bench of my coolest house, close under glass. In a short time I had to find another place for them with more head room, where the maximum heat amounted to 50 degrees, until the bright days of approaching Spring sent it up ever so high. But they were then coming into bloom—the sturdiest, thriftiest plants imaginable. We never found time to remove them to outdoor quarters, as I had intended; and perhaps it was well we did not. They were cleared out fast enough anyway, because they were the principal feature among flowering potted plants that Spring, selling as if they were the choicest greenhouse products, many of them coming in right for Easter. I had intended to cut the flowers, but not a pot remained unsold. They were about eighteen inches high and a mass of brilliant bloom.

Fuchsias.

I am glad to see fuchsias again take up their place of prominence among general greenhouse plants, a position which they came very near losing in the rush and clamor for new things. The widespread revival of interest in fuchsia culture is not so surprising when the excellent attributes possessed by the genus are made a matter of close contemplation. Easily propagated, rapid in their growth, profuse and long lasting in their bloom, good subjects for conservatory and living room, not troubled by disease or insects and altogether distinct in habit and peculiarly pleasing array of pendant flowers, it is no wonder they have managed to stay with us.

By propagating in the early part of Winter large specimens in 8, 9 or 10-inch pots are obtained with ordinary good culture, aiming at extraordinary dimensions in height and spread, resulting from constant push of growth until the desired size is reached when a gradual let-up will throw the plants into a mass of bloom. Such specimens are marvels of beauty, if masterfully finished, but are not what would best suit the commercial grower's peculiar trade in which profits play their part.

For the retailer in potted plants 4 and 5-inch fuchsias, with a few in 6-inch pots, are the best selling and most profitable sizes. These are easily had in fine form by putting in nicely balanced, short-jointed, stocky cuttings now, taken from newly started stock plants of good varieties. Keep the sand warm and moist, or put the plants at once into small pots in sandy soil and place these on bottom heat. Sprinkle often, and pot and repot as soon as needed. Do not pinch in, but stake and tie if necessary. A rose house temperature suits fuchsias, as does the richest of soil.

Pelargoniums.

Every American florist knows that when pelargoniums are spoken of none other than the fancy-flowered section, the so-called Lady Washington varieties, are meant, and not the entire genus bearing that appellation, embracing also all classes commonly called geraniums. When it comes to conveniently adjusted nomenclature, Americans know a thing or two yet to be learned by their European brethren.

Fancy pelargoniums are again coming into favor with a large class of plant buyers. At any rate, it would not do to be entirely without them, and I noticed that many of the retail growers, who had discarded them, have again made provisions for an ample supply in this line.

The main point to be observed in working up a stock for a good class of trade is to throw out all poor, stunted and shabby plants right at the start, for such will never amount to anything worth bothering with, only being a disfiguring part of any good collection, and greatly helping to increase the harassing trouble with greenfly. Stock plants usually produce enough cuttings to allow of making a careful choice before as well as just after rooting, and none but the sturdiest, shapeliest and best rooted should be considered worthy of being grown on.

One-year-old plants are best for a general trade in the Spring, the cuttings of such to be struck now. Those intended for this season's sales should now be in 3 and 4-inch pots, ready for the last shift, after being first started into a lively growth in a fairly warm house. A good, rich soil should be used in repotting. Another cutting back or merely nipping in will increase the number of flowers, but these will be less and smaller. The operation is not done after this and the plants promise to be of fine shape without it. Regular fumigation will keep aphids in check.

FRED. W. TIMME.

Selected Carnation Cuttings FROM FLOWERING STEMS ONLY

JANUARY DELIVERY		Per 100	Per 1000
3000 Beacon	.....	\$12.00	\$100.00
5000 Robert Craig	.....	6.00	50.00
5000 Enchantress	.....	2.50	20.00
2000 Mrs. Patten	.....	2.50	20.00
500 Variegated Lawson	..	6.00	50.00

FEBRUARY DELIVERY		Per 100	Per 1000
7500 Beacon	.....	\$12.00	\$100.00
5000 Robert Craig	.....	6.00	50.00
3000 Octoroon	.....	2.50	20.00
4000 Enchantress	.....	2.50	20.00
2000 Mrs. Patten	.....	2.50	20.00

Per 100		Per 1000	
1000 Variegated Lawson	..	6.00	50.00
1000 Lieut. Peary	.....	3.50	30.00
4000 Winsor, January rooted from two in. pots, extra fine stock, at \$12.50 per 100.			

MARCH DELIVERY		Per 100	Per 1000
7500 Beacon	.....	\$12.00	\$100.00
5000 Robert Craig	.....	6.00	50.00
3000 Octoroon	.....	2.50	20.00
4000 Enchantress	.....	2.50	20.00
2000 Mrs. Patten	.....	2.50	20.00
1000 Variegated Lawson	..	6.00	50.00
1000 Lieut. Peary	.....	3.50	30.00

When above are sold we shall have no more Carnation Cuttings to offer.

COTTAGE GARDENS COMPANY QUEENS, N. Y.

Mention the Florists' Exchange when writing.

CARNATIONS

WELL ROOTED CUTTINGS, HEALTHY STOCK

PINK		Per 100	Per 1000	WHITE		Per 100	Per 1000
Lawson	.....	\$1.50	\$10.00	Boston Market	.....	\$1.25	\$10.00
Nelson	.....	1.50	10.00	Lady Bountiful	.....	2.00	17.50
Nelson Fisher (cerise)	.....	2.00	17.50	White Lawson	.....	3.00	25.00

LIGHT PINK		Per 100	Per 1000	RED		Per 100	Per 1000
Enchantress	.....	2.50	22.50	Robert Craig	.....	6.00	60.00
Mrs. Patten	.....	2.00	17.50	Cardinal	.....	2.50	20.00
				Estelle	.....	2.00	17.50

ROSES Strong and Well Rooted Cuttings

Per 100		Per 1000		Per 100		Per 1000	
Richmond	.....	\$1.50	\$12.50	Uncle John	.....	\$1.50	\$12.50
Liberty	.....	2.00	17.50	Chatenay	.....	1.50	12.50
Bridesmaid	.....	1.50	12.50	Ivory	.....	1.50	12.50
Bride	.....	1.50	12.50	Perle	.....	2.00	17.50
Sunrise	.....	3.00	25.00				

Peter Reinberg

51 Wabash Ave., CHICAGO

Mention the Florists' Exchange when writing.

GERANIUMS Rooted, then grown in pots a month. Sent free of soil.

Dbl. Grant, Beucher, Pottvine, Ricard, Perkins, Vland, Nott and Doyle, assorted, \$16.00 per 1000. Rooted Cuttings of Nott and Grant, \$1.50 per 100.

COLEUS Verscht, G. Hedder, and brightest Fancy mixed, strong, 8oc. per 100. Giant, many kinds, finest grown, 8oc. per 100.

GLADIOLI Groff's, blooming size, 5oc. per 100. Write Geranium wants before order is sent.

DANIEL K. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

GERANIUMS

25,000 bushy, 3 in., \$4.00 per 100; \$35.00 per 1000; ready February. Standard varieties. 20,000 transplanted Evergreens, trees, etc. Come and see stock and get a bargain for cash. 15,000 standard, 5 in. pots, \$1.00 per 100; \$8.00 per 1000. Extra fine leaf mould 75c. per bag; \$14 per ton.

WM. S. HERZOG, MORRIS PLAINS, N. J. Mention the Florists' Exchange when writing.

FOUNDED IN 1889



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsman and the Trade in General

Exclusively a Trade Paper.

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

Fire Troubles.

Early on Thursday morning, January 24, a disastrous fire broke out in our building, practically wrecking the top floor. Our offices and workshop being located on the ninth floor and directly underneath, were deluged, the quick work of the Fire Patrol in covering the type, presses, material and stock generally, with tarpaulins, alone saving us from heavy losses through damage by water.

Several of the forms of The Florists' Exchange were on the presses and already prepared to start printing; operations having to be entirely suspended, these forms, as soon as could be, were pulled off and the presswork divided up and taken to three different printing establishments. The remaining news matter, namely that of Thursday, was set up for us in other shops. The Florists' Exchange, it will thus be seen, was issued under somewhat adverse circumstances and was late in going into the Post Office. Had we not been located in one of the best fireproof buildings in this city, our plant would in all probability have been annihilated.

Under the circumstances, we ask and feel that we will receive the indulgence of our readers and patrons for any shortcomings to be noted in our issue of January 26.

Obituary

Arthur J. Newton.

Arthur J. Newton, Norfolk, Va., died at his home near Campostella Heights on Tuesday, January 22, 1907, after a week's illness from pneumonia.

Mr. Newton was born at the North, but had lived in Norfolk for fifty years, and was very highly esteemed throughout this section. He married Miss Annie P. Odend'hal, who, with four sons, survives him. The sons are Messrs. Arthur M., Ernest J., Wm. J. and Alton R. Newton.

He was 62 years of age, his birthday occurring last week.

For many years he was an extensive trucker in the section of Norfolk county where he died, but in recent years he had been at the head of the Newton Floral Company, and carried on an extensive business in that line. He was also President of the Mutual Benefit Association, a farmers' insurance company of Norfolk, Princess Anne and Nansemond counties.

He was a man of the highest integrity, generous of heart and genial of disposition, and his demise will carry sincere regret to a large circle of friends.

Pure Seed Bill Introduced

On Monday, January 28, Representative Hepburn of Iowa introduced a bill to prevent the sale of adulterated or misbranded seed.

American Carnation Society.

In our issue of last week we alluded briefly to the success of the Carnation Society's Toronto meeting and exhibition. It is an event that can always be counted upon as being successful, for there are few, if any, horticultural affairs where specialization is the dominant feature in their creation, in which so much enthusiasm, such keen interest are exhibited, as at the annual convention and show of the American Carnation Society. And that the cultivation of the American varieties of the divine flower is the "one touch of Nature," that makes gardeners in almost every part of the civilized world "kin," was clearly evidenced by the papers from specialists abroad appearing in our last week's number. May it be ever thus.

Beyond giving some sound, practical advice, President Dunlop's address contained no new suggestion or proposition for the society's consideration. The certificate matter was touched upon in a general way, and he seemed anxious that some satisfactory solution of this perplexing problem should, if possible, be reached.

The same subject was referred to in the paper of John Birnie, who, in addition to the proposal to inspect the growing plants, suggested that the cuttings of the new varieties should, with propriety, come in for a share of the visiting committees' scrutiny. It was later announced that the committee appointed to consider the certificate matter could not agree on a practicable plan of inspection, and the whole subject was ultimately dropped. It is to be hoped that it will not again be revived, for a problem that is as far from satisfactory solution at the end of sixteen years as it was when first broached, would seem to have had its fair share of consideration, and ever-recurring discussion of it proves but a waste of time.

In this connection we believe that those who look at this subject from all but the most selfish point of view will endorse the remarks of Mr. Rudd thereon, to which we respectfully refer all concerned.

Mr. Birnie also touched upon a matter that is worthy of attention, namely, recognition by the society of the cultivation of the carnation as a pot plant. This has been alluded to heretofore, but nothing has been done in regard to it. The proposition has, we think, something in it. The encouragement of this branch of carnation culture by the society would tend to create interest in its work among pot plant growers for market, thereby adding to its membership; and a display of carnations in pots at the annual exhibition would relieve the monotony created by cut flowers alone. The rose growers appear to be convinced of the value of a display of roses in pots at the annual show of the American Rose Society, and have made provision for such in their schedules. It might be well for the American Carnation Society to follow this example.

The papers kindly furnished by our foreign brethren are interesting and instructive. They demonstrate the increasing popularity of the American carnation abroad; that many of these varieties often prove as fickle far away from home as they do on their native heath; that nothing but the best sorts will win their way anywhere; and last but not least, that the day is not far distant when the foreigner will prove a formidable rival to the home grower in the production of new varieties of carnations bred from the best American kinds.

The decision of the society to the effect that all varieties competing at its exhibitions under name shall first of all have been registered, cannot in the main, we think, be greatly objected to, although to some the ruling may appear to be somewhat arbitrary; but as the American Carnation Society is paying the premiums, it has, of course, a perfect right to stipulate the rules and regulations under which varieties competing for these prizes shall be governed.

However, as registration of a name is so easily and cheaply accomplished, we presume exhibitors generally may not regard the rule in the light of a hardship.

The committee on color classification seems to have made the most of a difficult proposition. It would greatly facilitate matters, we think, if prizes were offered for individual specified varieties in each color class, as is done at the shows of the Chicago Horticultural Society, for instance, a method that permits of the merits of each sort being measured by those of its own kind; but it takes money to allow of this being done, and the cash balance now in the treasurer's hands precludes the present adoption of such a plan. This leads to the thought that when everything is taken into consideration—the imperative outlays that fall to the lot of the American Carnation Society, the benefits accruing from its operations, especially from its exhibitions—the annual dues seem somewhat inadequate to fully meet every burden, and permit of smooth and satisfactory working, preventing, in a degree at least, the advancement that would result were conditions other than they are, so far as finances are concerned. And as an increased membership seems slow in materializing the only alternative would appear to be an advance of the annual dues.

Taking the Toronto gathering as a whole, we believe it will, when the annual report appears, be considered fully up to the standard of those that have gone before. And as "record-breaking" is the adjectival order of the day, the Washington meeting, next year, with Fred. H. Lemon as president, and the earnest, hard work for which the local craftsmen are famed, will, we doubt not, be fully and fairly entitled to the use of that most significant and satisfactory designation.

Free Seed Discussed by the House.

The plan of Government seed distribution as reported by the Committee on Agriculture was discussed by the House of Representatives as a committee of the Whole House on Friday, January 25, 1907. The substitute paragraph regarding the character and scope of the distribution—copy of which has already appeared in these columns—was reported by the Committee on Agriculture, with the subjoined commentary thereon:

"There has been omitted from the bill the paragraph making appropriation for what is commonly known as the 'Congressional free seed distribution.' In its place there has been substituted a paragraph providing for the purchase, propagation, and testing of new, rare, and uncommon seeds, bulbs, trees, shrubs, vines, cuttings, and plants; foreign and domestic; the sum appropriated for this purpose being \$238,000, the same amount carried by the bill last year for the general distribution.

"The substitute paragraph was drawn in the office of the Secretary of Agriculture and is strongly endorsed by Secretary Wilson, who expresses the emphatic opinion that he can render the farming interests of the country vastly more valuable service by carrying out the provisions of the present bill than would be possible under the old plan. This opinion seems to be fully concurred in by the National Grange, the State granges, and practically all the farmers' organizations of the country, because with almost complete unanimity they have adopted resolutions protesting against the present plan as wasteful and useless. It can not be disputed that the original purpose of the law was to limit the distribution of seeds to the introduction of new and valuable varieties. Your committee believes the best interests of agriculture demand a return to this original purpose."

Representative Candler of Mississippi, who seems to be the most formidable champion of the old method of distribution, gave notice that he would move to strike out the substitute provision and insert the one of last year. The honorable gentleman appeared to be greatly distressed that the provision in the pending bill only provides for seeds for "experimental purposes," and that there "will be no seeds for general distribution." He argued that those Congressmen who might apply for seeds, etc., for experimental purposes would not get them; and that the present was "an effort to increase the power of the bureaucracy, which is one of the banes of the Government to-day."

Representative Clayton of Alabama was of the opinion that Congressmen ought to have a share in the distribution as "a matter of right in our representative capacity, without having to resort to the necessity of going to the head of the Department with hat in hand begging a favor for a constituent." He also advanced the far-fetched suggestion, that it might be possible "at some future time for a partisan Secretary of Agriculture to single out some district where a political friend of his has a hard fight on hand, and give him, if necessary, 400,000 packages of seeds and plants necessary to save his political life."

Another wild and imaginary evil arising before the free-seed supporters was that the "new and rare seeds," etc., might only go into the hands of the seedsmen "for experimental tests," so "that they could sell them to the rest of us on proper occasions."

Much stress was laid on an alleged "lobby" that the seedsmen had had in Washington for some time; while the farmers' interests had only been represented by the Representatives from farming districts. "God bless the farmer, and the Representatives from those districts! We are going to have these seeds," exclaimed the beneficent Clayton.

One of the choicest parts of the debate was the following:

"Mr. Lamb (Virginia): Should the amendment prevail, what will become of the provision carried in the other bill for the distribution of flower seed, and how will you and I send our pretty girls any flower seed?"

"Mr. Candler: We will not have any flower seeds to send to the pretty girls, and they will look longingly with their bright and smiling faces, anxiously desiring the flowers, but we will be compelled to say 'No' to the sweetest, noblest, and best of all God's creation, a pure, beautiful girl. (Applause.)"

"Mr. Clayton: Except a white-haired old lady, who is just as sweet and lovely."

"Mr. Candler: Yes."

One of the most sensible speeches on the subject was that of Representative Scott of Kansas, who argued that the new provision proposed to be inserted in the bill was a return to the original intent of the Government to distribute only new and valuable plants and seeds. He emphasized the fact that the seedsmen were in no way responsible for the provision now offered, which had emanated from the Department of Agriculture itself. He had no criticism to offer regarding the seedsmen sending their representatives before the Committee on Agriculture; and he did not believe there was a man on that committee whose vote was influenced in any degree by any facts brought before the committee by the seedsmen.

Representative Henry of Connecticut took the same stand as he did a year ago in opposition to the distribution of common seeds.

Mr. Zenor of Indiana made a lengthy harangue in which he said, among many other things, that he was opposed to the suggested new provision "because it is not a matter of economy and it does not lighten the burdens of the Government." He could not see that the farmers of the country were to be benefited by the proposed change. There is no provision in this bill for that. "Is it simply for the purpose of gratifying the curiosity and demonstrating the skill, of

these expert scientists that may be selected to investigate and inquire into the improvement and quality of the seeds of this country? I do not believe it is a proper policy."

Tuesday, January 29, the House in committee of the whole voted to continue the free distribution of garden and flower seeds along old lines, and not according to the methods recommended by the Agricultural Committee in the Appropriation bill. The amendment appropriating \$238,000 for the free distribution of ordinary seeds was adopted, as had been the practice for a number of years.

Friday's debate on the free-seed question occupies some 21 pages of the "Congressional Record." It would, we think, be a difficult task to find better examples of obtuseness, of random conclusions, and hastily arrived at opinions than are presented by the speeches of the members opposing the reform plan of seed distribution as submitted by the Department of Agriculture.

Society of American Florists and Ornamental Horticulturists.

S. A. F. O. H. State Vice-Presidents.

President William J. Stewart of the Society of American Florists and Ornamental Horticulturists announces the following appointments as vice-presidents for 1907.

Alabama, E. A. Beaven; Colorado, J. A. Valentine; Connecticut, Peter Zuger; District of Columbia, W. H. Ernest; Florida, C. D. Mills; Illinois, North, George Asmus; Illinois, South, F. L. Washburn; Indiana, J. A. Evans; Iowa, W. A. Harkett; Kansas, Oscar Roebr; Kentucky, A. R. Banner; Louisiana, M. Cook; Maryland, Wm. Weber; Massachusetts, East, E. L. Peirce; Michigan, W. E. F. Weber; Minnesota, John Monson; Mississippi, S. W. Crowell; Missouri, East, W. C. Young; Missouri, West, George M. Kellogg; Nebraska, Geo. E. Swoboda; New Hampshire, Aug. Gaedcke; New Jersey, C. H. Totty; New York, East, Chas. Lenker; New York, West, C. H. Vick; North Carolina, J. Van Lindley; Ohio, South, J. B. Heiss; Ohio North, Geo. Bayer; Pennsylvania, East, P. J. Lynch; South Carolina, C. A. Moss; South Dakota, C. E. Newbury; Tennessee, C. L. Baum; Virginia, H. Brown; West Virginia, C. P. Dudley; Wisconsin, Fred. Holton; Ontario, J. H. Dunlop; Washington, Amy K. Luffman. P. J. HAUSWIRTH, Secretary.

American Rose Society.

The executive committee of the American Rose Society had a well attended meeting on Wednesday evening, January 23, at the Hotel Martinique, New York City. The interest manifested in the coming show from various parts of the country was most encouraging.

It was decided that the opening meeting of the forthcoming Washington convention should be held on March 13, at 8 p. m., the second meeting at 3 o'clock the following afternoon.

The special prize schedule which we have to offer is larger than ever before gathered together, and several more premiums will be added to the list, the determination being to make this a very successful exhibition.

A committee was appointed to wait on President Roosevelt and invite his presence at the show as may suit his convenience.

The schedule of the society will be issued within a very few days.

The following is a list of the special premiums to date:

Special Prizes.

Fifty American Beauty rose, the "Executive Committee's Prizes"—\$50, \$25.

The Lord & Burnham Trophy, valued at \$250, presented by the Lord & Burnham Company, will be awarded in conjunction with the first prize for fifty American Beauty roses in this class, and will become the property of the competitor winning it twice, consecutively or otherwise.

(Won once by Waban Rose Conservatories, Natick, Mass., and by Geo. Barton, Chestnut Hill, Pa.)

Best display of roses all varieties.

The Dorrance challenge cup, value \$250, offered by Benjamin Dorrance; the winner to hold the cup a year and on relinquishing it to the society for another competition, at the end of that period to receive a silver shield suitably engraved, as a permanent record of his having held the cup.

Fifty Golden Gate, silver cup, value \$50, offered by Geo. H. Cook, Washington, D. C.

Fifty Wellesley, silver cup, value \$50, offered by John H. Taylor, Bayside, L. I., N. Y.

Best exhibit of Rambler roses in pots, not less than 12 plants, silver cup, value \$50, offered by Robert Simpson, Clifton, N. J.

Fifty Mrs. Abel Chatenay, silver cup, value \$50, offered by Trendly & Schenck, New York City.

Fifty Richmond, silver cup, value \$25, offered by Henry F. Mitchell Company, Philadelphia, Pa.

Fifty Killarney, \$25 in gold, offered by Dingee & Conard Company, West Grove, Pa.

Fifty Liberty, \$25, offered by W. H. Elliott, Brighton, Mass.

Fifty Bridesmaid, silver cup, value \$25, offered by S. S. Pennock-Meehan Company, Philadelphia, Pa.

Prize for the vase of roses showing the most artistic arrangement in the exhibition, \$25, offered by Welch Brothers, Boston, Mass.

Fifty Richmond, \$25 in gold, offered by E. G. Hill & Company, Richmond, Ind.

Best fifty blooms of any variety of American origin now in commerce, a silver cup, value \$25, offered by Alexander Montgomery, Natick, Mass.

For exhibition American seedling not yet introduced, silver cup, value \$25, offered by H. O. May, Summit, N. J.

Best collection hybrid Wichurajana roses, silver cup,

value \$25, offered by Frank R. Pierson, Tarrytown, N. Y.

Wanted: five Bride, \$12, offered by L. P. Coddington, Murray Hill, N. Y.

For six or more blooms of any new rose never before exhibited, \$10 in cash, offered by Mrs. S. C. Briggs, Washington, D. C.

For best foliage rose suitable for village dooryards, \$10 in cash, offered by Benjamin Hammond, Fishkill Landing, N. Y.

Best show of Ivory, \$10, offered by Benjamin Hammond, Fishkill Landing, N. Y.

Twenty-five General MacArthur, \$15 prize, offered by Edward Hatch, 22 Devonshire street, Boston, Mass.

For the prettiest exhibit to be decided by three ladies visiting the Washington show, a prize of \$5 gold piece, offered by Miss M. I. Hammond, Fishkill-on-Hudson, N. Y.

Special prize for American Beauty rose, \$100 in gold is offered by A. Gude & Bro., Washington, D. C., for one hundred American Beauty, but there must not be less than five entries for this prize.

Society's Medals for Novelties.

Gold medal for the best new rose not yet disseminated, whether of domestic or foreign origin. Exhibits to be judged by the official scale of the American Rose Society, and no gold medal to be awarded to any rose scoring less than 95 points.

Silver medal is offered at the same time and under the same conditions for a novelty scoring not less than 85 points.

It is further ordered that the complete scores of all entries in the competition be filed with the secretary of the American Rose Society before the award of any medal is confirmed. No duplicate medals will be awarded. It is understood that though the award of the gold or silver medal may be made to the same variety from one exhibitor exhibited in different centers, only one medal will be delivered to the exhibitor.

The executive committee of the American Rose Society reserves to itself the right of selection of the judges who shall pass upon the exhibits in the competition for these medals.

BENJAMIN HAMMOND, Secretary.

Fishkill-on-Hudson, N. Y.

The Toronto Banquet.

The banquet, which was held in the dining room of the Queen's hotel on Thursday evening, was participated in by about two hundred people, and was a most enjoyable affair. The decorations were beautifully arranged, and consisted chiefly of carnations contributed by F. R. Pierson Co. and arranged by James I. Donlan. At one end of the large room the Union Jack and the Stars and Stripes were displayed together. The menu offered was as follows:

- | | | | |
|----------------------|--|----------|----------------|
| Olives | Blue Points, Deep Shell | Radishes | Salted Almonds |
| | Chicken Gumbo | | |
| | Fillet of Halibut, Sauce Tartare | | |
| | Pommes Parisienne | | |
| | Tenderloin of Beef Larded, aux Champignons | | |
| | Creamed Spinach | | |
| | Young Turkey, with Cranberry Sauce | | |
| Mashed Potatoes | Cauliflower Cream Sauce | | |
| | Punch a la Romaine | | |
| | Rocky Mountain Grosse Pique, an Cresson | | |
| | English Plum Pudding, Hard & Brandy Sauce | | |
| Neapolitan Ice Cream | Assorted Fancy Cakes | | |
| Walnuts | Fruit | Almonds | Coffee |
| | | | Dehesa Raisins |

The dinner was admirably served. When all the good things had been done full justice to the president of the society, John H. Dunlop, proposed the toast of "The King and the President," and the Yankees and the Canadians joined together in the singing of "God Save the King" and "My Country, 'Tis of Thee." The Blight Male Quartette then rendered "The Old Brigade," in a very acceptable manner.

The toast "Canada and the United States" was proposed by F. R. Pierson and responded to by Mr. Algie and C. W. Ward. Mr. Pierson, in his remarks said that Boston, Mass., leads all the United States in hospitality, he had always thought, but he had now become convinced that Toronto equals Boston in that respect. He hoped that the time would come when the imaginary boundary line between the two countries would be burned away by friendship, and he was glad to know that they have no Governor Swettenham in Canada. He trusted that our Canadian brothers would give the American Carnation Society their full support at its meeting in Washington next year.

C. W. Ward spoke as a Canadian citizen for Canada, and said in part, "We Canadian citizens meet you half way in everything, and we expect that you will do the same." He was not the only American citizen that had been absorbed, as many of them come over here and seek the beautiful girls that Gammage spoke about yesterday. He also said that you Yankees might come to Canada and learn to obey the laws of your country.

Mr. Ward's remarks were followed by a song, "The Homeland," beautifully rendered by W. J. Lawrence, after which Mr. Algie, in the rôle of an American citizen, spoke on the United States. He said "I visited Massachusetts once and gathered a pink Enchantress, who is now the mother of my children, and if all mothers were like her there would be cobwebs in our divorce courts. It was thirty-five years ago that this pink Enchantress was gathered in Boston, and as a result there are 'six brats in two varieties.' I do not feel like a foreigner when under the Union Jack, as our blood is the same, the climate is the same; in fact, we are very much like the two ladies that were going along the street, and a colored gentleman, on being asked if the two ladies were not very much alike, answered, 'Yes, especially the one on this side.' When Canada gives a President for the United States, like the Scotch people did when they gave a King to England, the Yankees will find that the Canadians will have a great deal to do with the Government, just the same as the Scotch are at

present having a great deal to do with the Government of England." Mr. Algie concluded his remarks by reciting one of Kipling's poems, "The Waler Carrier," which was greatly applauded.

The toast "Mayor and Corporation" was proposed by R. J. Score and responded to by Alderman Graham of Toronto; following which the male quartette rendered, "There was a Boy," so well that they had to respond to an encore.

Mr. Duggan proposed the toast, "The Society of American Florists and the Canadian Horticultural Society," and called upon W. J. Stewart, Thomas Manton and P. J. Hauswirth to respond. Mr. Stewart, president of the S. A. F., replied in a very able manner, followed by Secretary Hauswirth, who dwelt at length on the proposed national show to be held in Chicago in 1908, and hoped that the support of every one in the trade would be willingly accorded thereto.

Thomas Manton made one of the best speeches of the evening, appealing in an able manner to his brothers in the trade to get together oftener, to never forget that we are all brothers, and recommended that an arrangement be made whereby a meeting of the Society of American Florists should be held at Niagara Falls, or in close proximity thereto, and that the Canadian florists should also meet near the border at the same time, so that the two societies could come together and get in closer touch with each other.

"The American Carnation Society" was toasted by Mr. Gammage and responded to by president-elect Fred H. Lemon, E. G. Gillett and J. A. Valentine, following which the song "Scotland" was rendered by Mrs. Edwards, who accompanied herself on the mandolin.

At this stage of the proceedings W. N. Rudd presented the cups, prize money and medals won at the exhibition to the successful competitors, each recipient acknowledging the same with a few brief words.

Mr. Bennett of Montreal proposed the toast "The Allied Societies," which was responded to by W. F. Kasting, H. R. Frankland, president of the Toronto Horticultural Society, and John Chambers, superintendent of parks. Mr. Kasting made a special plea for the national flower show, and advised everyone to subscribe to the guarantee fund.

"The Horticultural Press" was proposed by H. M. Altick, and replied to by J. A. Shaw, and H. B. Cowan of the Canadian Florist. Mr. Altick drew attention to the serious illness of Wm. Scott of Buffalo, who, he said, had done a great deal of work for the field in connection with the horticultural press.

H. Simmers proposed "The Ladies," and called upon Mr. Marquisee to respond, which that gentleman did in his usual efficient manner.

The proceedings closed with the singing of "Auld Lang Syne."

The banquet committee was composed of R. J. Score, chairman, and Messrs. W. G. Rook, H. Simmers, H. Dillemut, T. W. Duggan, W. Munton, T. Manton, R. W. King, J. Simmons, D. J. Sinclair, E. Dale, J. R. Milne, E. F. Collins, John Chambers, A. Houle, and H. R. Frankland. W. J. Lawrence was chairman of the music committee.

Notes.

A. M. Tyrell of Calgary, Alberta, Canada, reached Toronto on the evening of the banquet, his train being eighteen hours late.

An effort is being made to create a life membership in The American Carnation Society, and seven gentlemen have already assented to become life members.

Parentage of Winsor Carnation.

Editor Florists' Exchange:

W. H. Waite, in your issue of January 26, takes exception to our remarks concerning the parentage of the new carnation Winsor. That part of our article on this grand carnation is as near as we remember an exact recital of the facts as given by Mr. Murray, the originator. We, of course, have only Mr. Murray's words for it, and these to us are all sufficient. Regarding the possibilities of pollenization, there is much yet to be learned. I for one am ignorant of any authority that can prove the impossibility of mixing pollen. I am glad however that Mr. Waite has brought up this most interesting subject, and hope it will be thoroughly discussed in your columns. Anyhow, get the above carnation to win, sir.

J. IVERA DONLAN.

Editor Florists' Exchange:

I note Mr. Waite's comments in last week's issue regarding Mr. Donlan's remarks on the parentage of carnation Winsor. For the information of all interested in this beautiful carnation, I would state that the originator, Peter Murray, informs me that he obtained the variety five years ago. Mrs. Lawson was used as a seed parent, and the pollen was taken from both Daybreak and Albertini, with the result that he had some fifteen plants, most of which were different. Mr. Murray adds: "I had no idea of keeping them, as there was no convenience for handling them in a small place such as mine, but I liked the color of Winsor and kept the variety, without any idea as to its future development."

I hope this information will set at rest the minds of your readers regarding the parentage of this charming pink carnation, which is meeting with so much favor wherever exhibited.

FRANK R. PIERSON.

Tarrytown, N. Y.

AMERICAN CARNATION SOCIETY

Continuation of Proceedings
of the Toronto Meeting

In last week's issue we presented a very complete summary of the proceedings of the sixteenth annual convention of The American Carnation Society, held at Toronto, Ont. We now subjoin a continuation of the report, giving in full the discussions on the various subjects that came up for consideration by the organization.

The exhibition as a whole was not so extensive perhaps as the one at Boston a year ago; at the same time, it was a most interesting one. Many of the flowers had evidently suffered in transit, as was evidenced on the second day of the exhibition by their rather sleepy appearance. A few there were that stood the ordeal well, and seemingly were as fresh on the second day as on the first. Welcome, by Dailedouze Brothers, and Winsor, by F. R. Pierson Co., both looked exceedingly well up to the finish.

It would seem to us that shipping the flowers at the last moment is not by any means the best way to have them appear fresh during the time they are staged, judging from the fact that some of those lasting the best through the exhibition were cut on Sunday and shipped on the Monday evening previous to the show. The flowers that were exhibited from Boston, which, as we said in our last report, did not arrive until the second day of the exhibition, were staged that morning, and appeared remarkably fresh, showing up to good advantage considering the long time they had been on the road.

The J. H. Dunlop prize of \$10 in gold for the best vase of fifty white blooms, distinct from other varieties, which we stated in last week's report was won by Aristocrat, shown by Richard Witterstaetter, was captured by that gentleman with a white seedling, Number 1009.

There was a general feeling among the visitors that the annual convention should be extended to three days instead of two. Some of the reasons for this put forth seem to warrant those in charge in taking up the matter and giving it due consideration. Take the convention last week, for instance. Most of the exhibitors arrived about mid-day on Tuesday. The flowers were staged in a hurry, and the room cleared by 2 p. m., in order that the judges could go to work; it was 5 p. m. before visitors and exhibitors were again admitted into the exhibition hall. At 7:30 p. m. the first session of the convention opened, and, of course, everybody wanted to be on hand to listen to the business proceedings. This session lasted until almost 11 p. m. On the following morning a business session was held at 10:30, lasting until nearly 1 p. m. Another session opened at 2 p. m., closing at 5 p. m., at which time the exhibition was dismantled and everybody made hurried preparations to attend the banquet, which was called for 7:30 p. m. It will be seen from this program that from the time the judges had finished their work until the closing of the exhibition but twenty-four hours had elapsed.

Now, we would ask, "Do the gentlemen who have come from a distance to exhibit flowers, to see the flowers of other exhibitors and to attend the sessions of the Carnation Society, have time to look over the various exhibits?" In fact, we know positively that many visitors from afar went away from Toronto without having had time to see many of the carnations on exhibition there. If it were possible to extend the meeting one day longer—not to make any more business sessions, but merely to give an additional twenty-four hours so that everybody could go into the exhibition hall and have time for a careful examination of the varieties exhibited—we think it would be a good thing for the society, and particularly beneficial to those who go to the convention for the sole purpose of seeing new varieties so as to be guided in their purchases.

Report of Committee on Rules for Judging

The report of this committee showed that the gentlemen appointed at the Boston meeting to consider new rules for judging carnations had failed to agree, and they desired to be discharged.

Mr. Wilson: I would like to hear from some of the members of that committee.

Mr. Valentine: I do not think the committee have anything further to say except that in regard to these matters we are so diverse—that we cannot really agree on anything. Nothing suggested itself to us as a really practicable way to carry out the ideas of the society expressed in the resolution which they passed a year ago, that certificates should not be granted unless the plants had been examined by a committee of this society in the greenhouses where they grew. We were not able to devise any method we could all agree upon for making an examination, and that is why we ask to be discharged.

Mr. Rudd: I take a great deal of pride in this society. I do not believe any organization has taken up a flower and pushed it so successfully as this society has done, and I think we can all congratulate ourselves on what it has accomplished. Before, however, we depart from our established custom of years and take up an entirely new method of doing business, I think we want to consider the matter very carefully. If we were operating in Canada

alone or in one of the States, then it might be possible for us to make arrangements to visit and examine the plants in their growing state; but we are attempting to cover the whole of Canada and the United States of America, and that is an utterly impossible and impracticable proposition. This visiting proposition is not going to be a panacea and cure-all which some people think it will be for evils which I am not prepared to admit do exist to any great extent. The whole trouble, I take it, was started by the unfortunate Fiancée. Now, Fiancée was growing within 40 miles of Chicago for three years, and you could not have got a committee, a visiting committee, that would have dared to throw that variety down. In my own mind I am positive that your visiting committee would not have cured that trouble.

There is another point, the advancement of the carnation. I do not think this society exists especially for the advancement of people who want to buy some noted cuttings, and I want to say to you gentlemen that although Fiancée turned out to be a terrific failure, I think the exploiting of that carnation, the general advertising it created, and the interest awakened among the buying public, did more good for the carnation than what few dollars were lost in buying something that did not turn out profitable. Let well enough alone, and recognize that your certificate is nothing but an opinion of the quality of the flower shown at your exhibition, and that the commercial value of carnations must be determined in other ways. It is beyond the ability of this society to attempt to say whether a certain carnation shall prove a profitable investment to the buyer or not. (Applause.)

Mr. Fendlay offered the suggestion that about 25 plants should be distributed among some four or five reliable growers to be reported on by them two or three times a year, but the chairman pointed out that that had already been tried to a certain extent.



Louis Wittbold

Essayist on "Mechanical Watering" A. C. S.

(See Page 117, Issue
Jan. 26).

Mr. Harvey: I agree thoroughly with Mr. Rudd. I do not see how a certificate can vouch for anything except the quality of the carnation as it appears on the table. We all know a great many varieties have failed us in different parts of the country, but these failures may be due to conditions which do not exist in the establishment where the varieties were first grown. There is no doubt we have all been disappointed in buying such sorts, but it seems to me that the people who cannot afford to run the risk of failures of new introductions had better wait a few years until the varieties are established as a money-making proposition.

Mr. Nicholson: I believe in letting well enough alone. I do not see very well how you can improve on the present method. Carnations grow differently in different localities, and what we obtain might do well or might do poorly, but still the original might turn out very fine. I for one should be in favor of letting the method stand just as it is.

Mr. Gammage: I move that the report be received and the committee discharged as requested. Mr. Rudd has thoroughly expressed the general opinion of the members, and his ideas are so practical that it would be time wasted to discuss the matter any further. Mr. Asmus seconded the motion, which was carried.

(Color Classification.)

Mr. Rudd brought in the report of the committee on color classification. The committee recommended that the following classes of color be used in the society's schedules:

Flesh pink, being those shades of pink of a flesh or salmon type. Light pink, being those lighter shades of pink verging on true pink and light Lawson. Dark pink, darker than Lawson and also including cerise not dark enough to be classed as red. Red or crimson, including all shades of red that cannot be classed as scarlet or cardinal. Scarlet or cardinal, to include those shades now commonly known in the trade as scarlet. Maroon to cover those shades now classed as crimson, the committee considering that maroon is more properly descriptive of the color than crimson. Any other color, to include any color decidedly distinct from the other colors specified. Yellow and variegated, colors to stand as now classified.

Mr. Dailedouze: I cannot quite see where that maroon comes in. I thought that maroon and crimson were two different colors.

Mr. Rudd: They are practically all crimson, so-called. I would say that I think it is generally considered that the Jack rose is a pretty close approach to the crimson color, and that all of those carnations, or nearly all of them, that we have been calling crimson are nearer to what is called maroon.

Mr. Dailedouze: How does that stand with the Harvard color; does it stand with crimson or maroon?

Mr. Nicholson: The true Harvard color is crimson, and I do not see where you are going to put in maroon. I am decidedly opposed to adopting maroon instead of crimson.

A Delegate: I would like to ask whether "any other color" would take in Toreador, purples and those yellows? Yellows are not specified there.

Mr. Dailedouze: What was this committee appointed for?

The Secretary: To decide the point frequently raised about the class of "any other color," especially in the case of different shades of pink.

Mr. Rudd: I think the committee has rather amplified the instructions. The matter came up originally on the question as to "any other color," from there it drifted into a question of classification of pink, and the committee was appointed to consider that matter and present suggestions at this meeting. The committee found in the course of its discussion that the dividing line between the pinks and the reds was a question of dispute, and they therefore went a little further and considered the reds, and from there proceeded to a consideration of the so-called crimson. (Laughter.) I think any artist will tell you that the word crimson is a misnomer for carnations selling under that name. A true crimson approaches to the Jack rose, and what we are selling as crimson are nearer to maroon.

Mr. Dailedouze: I do not consider Mrs. Lawson is a pink. It seems to me it is a cerise. If you struck out the yellow class instead, there probably would not be so much in it.

Mr. Rudd: We do not intend to strike out any classes now existing. The committee considered they were properly covered and described under the present classification and they submit these recommendations simply as a solution of the colors mentioned. The yellows and variegated will still be as they have always been.

Mr. Wilson: The members of the committee should be experts on color, and I would like to ask Mr. Rudd what the color of his necktie is. (Laughter.) (The tie was a very decidedly scarlet hue.)

Mr. Rudd: I think it is green. (Great laughter.) It was duly moved and seconded that the report be accepted.

Mr. Nicholson moved and Mr. Dailedouze seconded an amendment that the word "maroon" be stricken out.

Mr. Weber: Our specification in regard to color now brings the blotched varieties in competition with the striped sorts. It seems to me it is not at all fair to put them in the same class. Prosperity is not a type to be put in competition with one of the striped class; I think it ought to have a separate class.

Secretary Herr: In getting up the schedule all these varieties of blotched types are supposed to go in with "any other color." I think there has only been one instance where Prosperity has been classed as a striped variety.

Mr. Weber: It seems to me that the blotched varieties are original enough in color not to be classed with what are termed "freaks." We put in purples and odd shades in that latter class. I would not class blotched varieties of the order of Prosperity a freak class.

Mr. Rudd: It seems to me this is not a matter for discussion here but is rather a matter for the directors to take up. If the funds in hand will warrant it, undoubtedly these gentlemen will make a striped class and blotched class.

Mr. Lemon: As a member of the committee who helped to frame this report I would explain that our aim was simplicity. There are hundreds of varying shades of color in the carnation, and it is impossible absolutely to make a class for each one of these varying shades. The simplest way, the way which would give a good sub-division, was the aim of the committee. The idea was to include these blotched varieties in "any other color" and take them from the freak class into a good class of carnations, carnations with some commercial value.

The amendment was lost and the report adopted.

Report of the Committee on Nomenclature.

Mr. Nicholson moved that this report be accepted and placed on record, but Mr. Rudd asked for some more information with regard to the elimination of names registered previous to 1896.

Secretary Herr: We have a pretty fair record of all the names that were ever given to carnations, something like fifteen or sixteen hundred, and in looking over the reports back to 1896 I find there is nothing in commerce to-day that has been registered previous to that time. I thought the elimination of such names would be a great help, as in place of looking over that list we could have a smaller practical working list.

Mr. Rudd: It seems to me that you are taking chances of a mix-up. It is a very difficult thing to say what varieties are completely out of commerce. I shall be inclined to oppose the elimination of any name that has been once borne by a carnation. It seems to be there are plenty of good names without duplicating previous ones. The suggestion in regard to requiring registration before allowing parties to compete in our exhibitions is, I think, most excellent.

Mr. Stewart: I see by the records that medals and awards of value have been given to carnations under number. That seems to me a little irregular. Speaking from memory, I think in the case of the S. A. F. medals the requirement originally was that these medals should not be awarded until the variety had been given a name by which it would be permanently known.

Mr. Valentine: With regard to what Mr. Stewart has just stated I would like to say that if any of us have transgressed in that matter it has been through ignorance. If there is any condition attached to the medals of the S. A. F., I think that that fact ought to be set forth in the schedule, so that the judges would be advised of the fact.

Mr. Stewart: It is a matter of memory, but I think it would be a wise provision. Probably most of the exhibitors would agree to that when they come to think it over.

Secretary Herr: That was the idea in making this suggestion. It was made last year, but no action resulted. In order to get the matter in proper shape you will require to have a motion making that a rule.

Mr. Asmus: I move that that part of the suggestion of the committee be adopted by the society. It is that no carnation shall be eligible for exhibition at the American Carnation Society's meetings unless properly registered with the society either previous to the meeting or at the meeting, by name. Mr. Herr seconded.

Mr. Witterstaetter: Do I understand that a carnation not named can never be entered at this exhibition in the competitive classes?

Secretary Herr: That is the idea.

Mr. Lemon: I think it is entirely wrong that we must name the carnation before entering it. If a carnation entered for a certificate fails, the name cannot be used on another variety, and we are then in the position of having a carnation which we will not introduce and send out. The name is registered of a carnation which is not in commerce. It might be as well to permit an exhibitor to enter a variety under number until a certificate is secured, and the society could then withhold the certificate until the name is registered.

Mr. Valentine: I would like to ask for a little information. It strikes me that the intention of that motion is that no carnation can be entered in competition, not that it cannot apply for a certificate, under number. An application for a certificate is not a competition.

Secretary Herr: That is the idea.

Mr. Witterstaetter: The way I judge my carnations is by leaving the judgment to others. We have entered ours under number, as we do not like to name our carnations unless they are going to be articles of commerce. I believe it is going to complicate matters in having names registered that we may never use. I believe if we allow these numbers to come in in the competitive class we should withhold the prizes awarded them until the varieties are named. The motion was put and carried.

The members then discussed the next recommendation that all names registered before 1896 be eliminated from the working list of the society.

Mr. Weber: I believe we are treading on dangerous ground, and the list, I think, should stand. I am sure there are many varieties now in cultivation that are not offered regularly in our trade papers or catalogues. I know of one instance. We have Buttercup still growing on our place for hybridizing purposes. That variety has been in commerce for more than 20 years. I move that that clause be stricken out. Mr. Asmus seconded and the motion was carried.

Registration of Welcome.

Discussing the suggestion that the registration of the name Welcome, a pink sport of Mrs. Lawson, be allowed, Mr. Gingrich considered that a great many people would not know to what class this sport belonged, and he considered that if they simply called it a flesh Lawson, according to the color classification, it would complicate matters less. Mr. Wilson disagreed. He thought they had too many Lawsons already—Pink Lawson, Striped Lawson and almost every other shade of Lawson. Mr. Weber considered the subject was a proper one for the Nomenclature Committee to take up. Personally, he considered the sport eligible to be given a special name. The motion of Mr. Hauswirth, that Welcome would be accepted

as a sport from Lawson, was duly seconded and carried.

Mr. Gammage moved the adoption of the committee's report as amended. Seconded and carried.

Closing Session.

The president called the meeting to order at 2:45 p. m. The selection of the next place of meeting coming up for consideration, Mr. Ward asked that the rules be suspended and the matter left open for discussion. This was assented to.

Discussion on Next Meeting Place.

Mr. Ward: It is not very often that I take any particular interest in where the society's meeting is held, but this time I feel that if we do not go to Washington we are going to make such a cardinal error that I ought to speak my mind on the subject. I am a member of the American Breeders' Association which has just met at Columbus, O. That association is composed of 1,000 members, comprising the best scientific people throughout the entire world. It has 53 committees that are working upon different problems of breeding, those committees covering all grains, fruits and flowers, all domestic animals, game and pet birds, and all sorts of pet animals. The Honorable James Wilson is president and W. M. Hays, his assistant, is secretary and treasurer. At our last meeting I told Mr. Hays that the Carnation Society's next meeting would undoubtedly be in Washington, and if the society goes to Washington, the breeders' meeting would undoubtedly be fixed at

likelihood will be there and will probably meet in the East next year. Now, if the Carnation Society meets in the East, where are the Western fellows going to?

Mr. Ward: To the East.

Mr. Dornor: I would ask Mr. Ward where the Breeders' Association holds its next meeting?

Mr. Ward: It is fixed for Washington, and the date is named by the council, but will not be acted upon until after the Carnation Society fixes its meeting and date.

Mr. Dornor: The probabilities are we will have three meetings in the East if you vote for Washington this year.

Mr. Ward: The East is a pretty good place to meet in. As far as exhibitions are concerned we will match at Washington whatever Indianapolis can do, and I am sure in point of opportunities of gaining knowledge we will go a great deal better. I have been connected with the Breeders' Association since its organization and from things learned there I have been able to accomplish results possibly tens years earlier than if I had not been connected with that association, which makes me anxious to give my brother carnationists the same opportunity to learn these things.

Mr. Patten: We want to go where we can learn something; a good time doesn't count for everything, and I hope we will go to Washington, where we shall be able to get the benefit of these practical, scientific



Grower, J. A. Peterson, Cincinnati, O.
(Shown at A. C. S. Meeting, Toronto.)

Begonia Agatha

the same time, and a program arranged to give the Carnation Society's members the greatest amount of information and instruction in regard to breeding flowers. Now, if we go to Washington and do not have a paper read, but merely transact routine business and then adjourn and devote our time to attending the sessions of the plant section of the American Breeder's Association, we shall learn more about carnations in those three days than among ourselves in twenty years. I have heard one argument against Washington—that we have no membership there. Now, gentlemen, that has always been urged heretofore as a strong argument in favor of going to a place. Our object is a missionary one, and the fact that we have not any members in Washington is the strongest kind of argument why we should go there and get some. (Applause.) I have a great admiration for the Western florists, fully as much as I have for the eastern or Washington florists, but I will say that the movement toward Indianapolis, in view of the fact that we have been twice there, is not actuated in the best interests of the Carnation Society, but is a purely selfish movement on the part of the Indianapolis and Western people, although I hate to say so. (Laughter.) The American Breeders' Association will meet at Washington under the strongest friendly feeling on the part of President Roosevelt and without any doubt the President will have some connection with our meeting. We shall have all the principal men connected with the agricultural department and with all the scientific departments with which the Government is in connection, and I can assure you that not only will you gain knowledge there, but you will advertise the carnation ten times over. These particular conditions make it very desirable to go to Washington, and will not happen again in the next ten years for the Breeders' Association moves all over the United States and sometimes into foreign countries for its meetings. (Applause.)

Mr. Dornor: I cannot see the selfishness of the Western people in inviting you to Indianapolis. You were there before, in 1902, and I am sure you will admit that he had a good meeting. Probably it is right that Washington should have the meeting, but not a representative is here to urge the claims of that city. We have a good delegation from the State of Indiana and we assure you that if you vote for Indianapolis as the next meeting place, we will guarantee you a good time and a good exhibition. (Applause.)

Mr. Fendley: The S. A. F. meets in Philadelphia in the Summer. The American Rose Society in all

men, who are working along the lines we want to know more about.

Mr. Stewart: Although I strongly believe in Washington as the city where this society should go next year, yet I do not quite agree with Mr. Ward that there is any selfish motive on the part of the Western people. I think Indianapolis in inviting us a third time shows magnificent generosity, and I believe its delegates will go one better and waive their claims in favor of Washington and so make this vote unanimous. (Applause.)

Mr. Ward: I did not mean to cast any aspersion upon Indianapolis. I recognize the difference between selfishness and selfish generosity (Laughter); and I spoke of Indianapolis in the latter respect. It is not to their discredit to invite us there at all, but the point I wish to emphasize is, that if they persist in taking us to Indianapolis when manifestly we ought to go to Washington, then, possibly, they may be guilty of selfishness. (Laughter.)

Mr. Valentine: I really cannot see any claims that Washington has on this society. Until recently Washington had not a single member in this society, and the fact that they have not a representative here seems to me to indicate a great lack of enthusiasm. Mr. Ward's idea is that we are going to boost the carnation business in that locality, but I think we ought to go where there are consistent and energetic boosters of the carnation year in and year out, and I do not know where you will find more of them than in Indiana. If there is anything of interest in Washington to justify us in going there in order to get the benefit spoken of, there is certainly sufficient inducement to take any man there independently of the carnation meeting. (Applause.)

Mr. Rudd: I see several gentlemen in their remarks have assumed it is the manifest duty of this society to go to Washington, and several others think it is the manifest duty to go to Indianapolis. Now, whichever side gets the most votes will be evidence to me that it is the manifest duty of the society to go there. (Laughter.) I move the discussion close. Seconded and carried.

Mr. Dornor and Mr. Weber were appointed tellers. The voting resulted in Washington 46, Indianapolis 34. The result was received with applause. Mr. Lemon, speaking for the minority, heartily endorsed the action of the majority and promised support to the convention at Washington. At the suggestion of a delegate three hearty cheers were given in recognition of Indianapolis's generosity.

American Carnations Abroad.

The following papers were read by Mr. Simmers: "American Carnations and their Prospects in Europe," by C. Engelmann; "American Carnations in England," by A. F. Dutton; "American Carnations in Stacey's," appeared in last week's issue.

All of these papers, with the exception of Mr. Stacey's appeared in last week's issue.

Speaking in reference to Mr. Dutton's paper, Mr. Ward stated that his firm had sent Mr. Dutton at times shipments of from five to ten thousand cuttings of carnations, and had found that, taking all in all, from the first to the last of February was the best time for shipping to England. He considered they had evolved in America a type of carnation better than any other on the face of the globe, for Winter blooming. They had eliminated the English type of border carnation and did not wish to get it into their stock. They had ceased importing English varieties ten years ago, but on the representation of Mr. Dutton were importing a few plants of Britannia and other varieties; but the speaker's opinion was, that if the English growers confine themselves for Winter carnations to American blood, and if the American hybridizers kept away from the English border carnation, the varieties produced would bloom very much better in the Winter time.

Replying to a question from Mr. Patten as to how

took half a day to do it. He used it as an accessory to the hose rather than to supplant it. It did the watering very evenly and assisted also in keeping down red spider, consequently it was not necessary to do much syringing. He thought nobody had got less rust in their houses than he had, because with this system he could do his watering very early in the morning in from 15 to 20 minutes and that gave a full day to dry the plants off, whereas with the hose it was necessary to cut off the blooms in the early morning and by the time that was done it would be 9 or 10 o'clock, and then the ordinary watering or syringing would probably take up till noon. He found his plants were very much cleaner than before.

During the temporary absence of the chairman, Mr. Lemon took the chair.

A Protest.

Under the subject of new business the secretary read letters from the Toronto Gardeners and Florists' Association with reference to the protest made by F. R. Pierson in relation to the carnation Excelsior, which was a variety that had been disseminated, and he wished the American Carnation Society to settle the matter.

Mr. Ward: If it could not be exhibited by other growers I should hold it was an undissemated variety, although it would seem to me that the members of the local society ought to be able to settle such matters among themselves. As I understand

a dozen sports of Enchantress. Mr. Schroeder, Detroit, Mich., had one, and perhaps these others may be just the same. I had a sport, I know, and threw it away. It was not as good, as Mr. Schroeder's; but one of my neighbors had a sport quite as good as Mr. Schroeder's. If it is different, give it a separate name; but do not give it the name of Rose-Pink Enchantress, as that is already on the market.

Mr. Ward: I have had this rose-pink Enchantress almost from the time we grew Enchantress. We have cultivated a few for hybridizing, and we have no less than six different sports ranging from the type of Helen Gould through various shades of rose-pink color. You could take and bunch the whole lot together and there would be no greater difference in the whole set of different sports than there would be in a lot of Scott or Lawson grown and picked at different stages of development. I do not believe, when you come to these dark pink sports of Enchantress, that there is enough difference in habit and profusion of bloom, and there is certainly not enough difference in color for New York dealers to pay any attention to the different rose-pink sports of Enchantress. I do not believe they are entitled to different names.

It was moved by Mr. Weber and duly seconded that the matter be laid on the table. Carried.



General View of American Carnation Society's Exhibition at Toronto, Ont., January 23-24, 1907

his firm got plants into Germany, Mr. Ward stated that the plants were always shipped to England, thence to Germany, as both France and Germany had very stringent regulations to guard against the introduction of San Jose scale. In dealing with customers from Germany, Denmark or Holland it is necessary to have an agent in England through whom to pass the goods. These English nurseries made a charge for receiving, packing and shipping of 10 per cent., which the purchaser on the other side had to stand.

Mr. Fendley stated that Mr. Riise took carnations from the United States when he went to the old country and had been making quite a success of the American carnation, it being such a novelty over there. In Denmark they had rather a peculiar house, the roof on the north side having double glass so that it does not take quite so much heat, and he imagined that this somewhat darkened the house, at least on one side. He knew Mr. Riise was a very successful grower while in America and his chrysanthemums always took good prizes at the Chicago shows.

Mr. Simmers read a paper on "Mechanical Watering," by Mr. Louis Wittbold, Chicago. (See last week's issue, page 117.)

Mr. Fendley stated that within the past year he had made a trial of the Wittbold system of mechanical watering and had found it a great help from early Spring until the dark weather comes on in the Fall, because during that time he was so busy that watering was sometimes neglected when it

the situation Excelsior is a sport of Enchantress. I think that when we have sports of Enchantress, instead of naming them with an absolutely distinct name, they ought to be described as a variation of Enchantress. In that way we would avoid this duplication of names.

Mr. Rudd: It seems the whole question is whether these carnations are of the same kind or whether they are two different and distinct sports. It appeared to the judges that there was quite a marked difference in the vases shown, but it also appeared that that difference was no more marked than might be occasioned by a difference in cultivation. In the opinion of the judges the difference is no more marked than is frequently seen on the same stage in varieties entered as Lawson. It is the view of the judges that in a case of that kind the general tendency should be to suppress the duplication of varieties that are so similar, and that the burden of proof should still rest with the person claiming one of these varieties is decidedly different from the others. Under present conditions it is doubtful if any man living could go into the hall and say definitely whether these were or were not sufficiently distinct to be different varieties. The only way that that could ever be determined would be to visit the houses where they are grown and perhaps grow them side by side.

Mr. Duggan: We claim the variety is most distinct and we had a number of visitors this morning who have had last year's sports from Enchantress.

Mr. Patten: I think there is something like half

A Discussion on Cuttings.

Secretary Herr announced the following question had been propounded. "Why is a so-called top cutting, in other words a cutting off a flowering shoot, not considered equal to one taken from a side shoot? Will such a top cutting ever make a field plant equal to a side shoot cutting, and if not, why? Has anyone proven it by actual test or is it only an accepted theory?"

Mr. Ward: We have considered a top cutting inferior theoretically, because the bud being developed would run rapidly into flower and weaken the plant. In some varieties we tested that out, and at the present time we discard all the top and base cuttings and take the three strongest side shoots, thinking they are the best. We find in some varieties that tend to stool and are very strong growers, that by taking the top cutting we get a plant that is not as vigorous as the side shoot or base cutting, but it will bloom a little freer. By selecting some varieties for a number of years we have imagined—I do not know that we have proved it—that we could take a variety that was a fairly shy bloomer and make it a fairly free bloomer.

Mr. Wilson: I would like to know what a top cutting is?

Mr. Ward: We consider it the last cutting on the top of the stem; the one next to the terminal flower.

Mr. Fendley: When I went into business I made a number of experiments extending over several years to determine what was the best cutting to

take. I noticed at the time that several establishments in the neighborhood of Chicago, when they had something valuable and wanted to get lots of cuttings, would take the bud right off there. (Mr. Fendlay exhibited a stem to illustrate his remarks.) The consequence was, anybody buying that stock would throw it out at the end of the first year. I prefer to cut down to the first strong shoot, and that strong shoot will not very often make a long interval from the first joint or point of insertion in the sand up to the first joint. There is a difference in varieties, but I consider that that cutting is the first cutting; the rest of these would not have made anything.

(Mr. Fendlay pointed out on his specimen stem the most vigorous shoots which should be selected for propagation).

Mr. Wilson: I want to know whether a top cutting is from the top or side shoot, or the base of the plant?

Mr. Fendlay: I should call that a top cutting. (Indicating position on main stem.) The average man will call this one taken off on the side the top cutting, but this is just as much a top cutting as this is.

Mr. Wilson: Although still off the base of the shoot?

Mr. Ward: The difference is this, that the growth on the plant started at the same time as the main stem, and it has been robbed by the main stem and checked and its individual constitution is not as strong as these shoots that have gone on and flowered. So we start out with evidence of weakness right away.

Mr. Wilson: Why is it that a large number of customers write that they won't take any top cuttings? They say they put them in 2-inch pots and in a short time they are flowering; and yet the dealers swear they are not top cuttings.

Mr. Ward: That may be answered in this way, that possibly the dealer's idea is that if he threw off the first cuttings on the top and took the second, then he was not taking the top cuttings, strictly speaking. But if the second cutting was a weak growth, or was taken from a weak stem, as soon as weakness is developed the tendency is to throw it into flower. The plant may be checked in cutting back, in shipping, for want of water at the time of potting, and if you check it the tendency is, in a great many varieties, to throw the plant into bloom. The whole question is a matter of judgment as to the condition of the plant. We have entirely stopped the cutting back of plants, that is, topping off the buds to force the growth of the side shoots.

Mr. Wilson: There are three or four partially dormant buds on the base of this stem; then appear the three ideal cuttings. Now, if these had been taken off only four inches higher and rooted while the stem was in tender growth, would it force those buds out to make good growth and would these make a good plant and be called top cuttings?

Mr. Ward: In some instances we have done well by taking a good strong growth, cutting it back and getting good, strong cuttings from the breaks: We call that rooting the flowering shoots and we have succeeded very well in some instances.

Mr. Wilson: How would you take off those ideal cuttings?

Mr. Fendlay: I have tried every way I could discover, and I don't find very much difference between taking the cutting off with a heel, taking it off with your thumb and first finger so that you get that little original growth on it, or just taking it up and stripping the first two leaves off so as to expose the



Group of Delegates at the Toronto Meeting of The American Carnation Society

inner layers. I find both successful, but by taking these cuttings off with a heel it is a little quicker, and, therefore, we do it in that way. There is a good deal said about weakening the plant, but I don't find any trouble so far as that is concerned.

A Delegate: Coming back to top cuttings, I think a top cutting is any shoot at the end of the flower just before it begins to form a bud.

Mr. Weber: The top cutting, such as the average grower will take, is from cuttings that have gotten to be of a good height. This cutting I have in my hand is a good example of a top cutting. The lower short shoots, before elongated preparatory to flowering, we call top cuttings, and not the small shoots near the top of the flowering stem.

Mr. Patten: I think any carnation grower knows what kind of cutting to take for himself. The only thing is that in purchasing a new variety we have got to be charitable. (Laughter.) If the grower selected the center cutting he would have to charge 50 per cent. more.

Mr. Fendlay: Why not charge \$25 a hundred more? I would rather pay \$25 a hundred and have every

plant good than to pay less and waste my bench space.

Mr. Rudd: I thought I caught the word "Chicago" in connection with bad carnations. I am always prepared to rise to defend my native city when aspersed. I tell you, gentlemen, it is a credit to Chicago, that sort of thing. (Laughter.) We claim to be able to furnish anything that a man wants, and there is a whole lot of fellows who want to buy carnation cuttings at a price at which no earthly man can root good ones for. While they are required I think Chicago will be wise enough to furnish such cuttings. If anybody wants better stock he can get that furnished, and if anybody wants as good stock as sent out anywhere we can still furnish it at a price. And I would add that if anybody wants poor stock we can also furnish it. (Laughter.)

Mr. Fendlay: While I thought that thing was done in Chicago I would state that the best cuttings were bought by me within 100 miles of Chicago. I always expect to pay a good price for a good article, and I only buy a good article when I know it.

To Meet with Breeders' Association.

Mr. Ward: I would like to suggest that a committee be appointed from the Board of Directors of this society to meet a similar committee which I will suggest be appointed from the members of the Board of Control of the American Breeders' Association to confer each with the other in regard to the meeting in Washington. My impression is that a joint meeting can be arranged between this society and the plant section of the Breeders' Association which will be one of the most interesting and one of the largest attended meetings that we have ever had. No doubt the Breeders' Association will provide papers upon the breeding of flowers to be read at that meeting that will be of the very greatest interest and importance, and prove of very great instructive value to the members of this society. I make that a motion.

Mr. Valentine: I beg to second that. It makes for concerted action by both societies and insures a most interesting program. Carried unanimously.

Scoring Prize-Winning Varieties

Secretary Herr announced a further question from the Question Box—"Should not every prize-winning vase of carnations be properly scored according to the scale of points adopted by the society on the data included in our annual report?"

Mr. Rudd: It is certainly the feeling of the judges that scoring is only necessary in the case of new varieties and in the case of close decisions. In the competitive classes all that is necessary to know is the best and the second best exhibit, and if the exhibit is so marked that that can be readily arrived at without scoring, what is the use of scoring? It was considered by the judges to be a kindness to the exhibitors of some varieties which could not possibly secure a certificate not to score their exhibits. At this convention the judges have not scored any variety for certificates when they were unanimous



Carnation Toreador

Exhibitors, H. Weber & Sons Company, Oakland, Md.

In deciding that it could not possibly take a certificate. Those varieties only have been pointed which had some show of winning.

Mr. Valentine: Some varieties were not pointed simply because they did not arrive in a condition to justify the judges in attempting to consider their merits. The flowers had gone to sleep or had experienced some mishap. Therefore, I do not think it is fair to infer that all the varieties which are not scored would not have secured a certificate had they been in shape for us to judge them.

An Employee's Right in New Varieties.

The secretary also read the following question: "Has an employee any right to demand public credit for the origination of a new carnation when said carnation has proven of commercial value to the extent that it is placed on the market for the sale of plants, and where said origination is due entirely to the efforts of the employee?"

Mr. Ward: I may say, from the legal standpoint, the employee would be entitled to credit for originating the variety and his employer would be entitled to the proprietorship on the ground that the employee had been paid for his services.

Final Resolutions.

The secretary read the report of the committee on Final Resolutions which expressed the society's high appreciation of the cordial welcome extended to the members by the City of Toronto through the Lieutenant-Governor and the Mayor, Alderman J. J. Graham and Mr. R. J. Score, the officers of the Electoral District Society, Toronto, the Gardeners and Florists' Association, the Horticultural Society and the press, and extended the society's heartfelt thanks to one and all of their friends in the Dominion who had done so much to make the meeting of 1907 a success.

The resolution was received with applause. The meeting then adjourned.

A Visit to the Dale Estate.

On Friday morning, on invitation of the management of the Dale estate, the delegates were invited to the greenhouses of that company at Brampton, Ont. About one hundred boarded a special train which arrived in Brampton at 11 a. m. En route W. F. Kasting canvassed the delegates for subscriptions toward the benefit fund for Mrs. Harts-horne, Joliet, Ill., and succeeded in raising several hundred dollars.

On arriving at Brampton the party were immediately piloted through the different houses of the immense establishment. There are about sixteen acres under glass, and the construction of the various houses was favorably commented upon by visitors from this side of the line. The houses at this establishment have been spoken of before in these columns, and no detailed description of their structure is necessary here. We may say, however, that it is quite an imposing sight to stand in the center of a carnation house of about four acres in extent, and when once seen is never forgotten.

The boilers, together with the machinery for taking away the ashes, were all very interesting, though we were informed that the automatic stoking apparatus had been discontinued some time ago. The heating is all done by steam, and it takes twenty tons of coal per day to keep the boilers supplied.

One feature that impressed us as being rather good, was the manner in which the houses devoted to the forcing of lily of the valley were utilized. On most establishments lily of the valley is forced in frames in low houses, but here the houses were high enough so that the rafters were covered with orchids that require a tropical temperature, the benches on which the lily of the valley was forced being directly underneath the orchids. This seems to us like economizing heat and a plan that is worthy of adoption by those who force lily of the valley to any extent.

The methods of culture for roses and carnations as seen here differ little from those employed around New York. Some of the roses are planted on solid beds and are run several years, while others are planted in raised benches. Carnations are mostly in beds raised about two feet from the floor, and there were several varieties seen that are not grown very extensively at the present time among American growers, such as Morning Glory, White Cloud, Estelle, etc. A portion of the establishment is devoted to narcissus, tulips, callas and adiantum, and there are several benches of single violets and mignonette in one of the sections.

Previous to our visit we had been under the impression that there was something about the soil and climate of Brampton, Ont., that was conducive to the production of much better flowers than can be raised here in the East, and we are free to admit that we were disappointed in this respect, for neither in the carnation houses nor in the rose houses did we see anything superior to what we have at home. In fact, since getting home we have come to the conclusion that neither in carnations nor roses can the Canadian grower equal in quality the flowers as grown by some of our New York and Jersey plantmen.

The management of the estate took great pains in piloting the delegates over the entire establishment, and thanks are due them for the special courtesies extended.

Greenhouse Construction.

BY R. O. KING, N. A. SC., OF THE KING CONSTRUCTION CO.

During the past few years many papers have been read on greenhouse construction. The general methods of construction have been very thoroughly described, and most of the growers are agreed, for



R. O. King
Essayist, A. C. S.

instance, that cypress is about the best thing to use for the wood work, that iron posts are better than wood posts, that an iron gutter is better than a wood gutter, etc. All of these things are so familiar that it is hardly worth while going into further discussion about them. It will perhaps be more interesting to take up some points of greenhouse construction which are just as important, but which have not received as much attention. For instance, the use of glass up to 24 inches in width makes a lighter and less expensive house than narrow glass. The choice of locality for a greenhouse plant should depend, among other things, on the amount of light available. The application of the scientific principles used in the design of large buildings and bridges to greenhouse construction is something which should interest the grower as well as the designer. The application of these principles has not been necessary in the ordinary construction of small houses where the accumulated experience of many years has been a sufficient guide. When, however, it is necessary to design a house unlike anything previously constructed there is, of course, no experience to fall back on, so a safe design can only be worked out by the application of the scientific methods referred to.

Wide Glass.

Some years ago 16-inch glass was considered about the limit for greenhouse construction. More recently 18-inch glass has been used. In Canada a number of plants are built with 20-inch double diamond English glass. Twenty-inch glass is probably selected because 20 inches square is a good size for butting, and it does not exceed 40 united inches. In the United States where lapped glass is most generally employed the size most in use is 16 x 24

with the bars 16 inches apart. A few of the more daring growers have risked building their houses with the bars 24 inches apart and using this same size glass. In our own experience a number of customers have put the glass in this way. In only one case do we know of any trouble having occurred. Such great advantages in economy of material and the lightness of construction are obtained by the use of this wide glass that it is worth making some study of the requirements that are necessary for the satisfactory use of 24 inch glass.

Breakage from Hail.

It seems unlikely that 24 inch glass will suffer any more damage from hail than 16 inch glass. The reason of this is, that glass laid the 24 inch way has more of a chance to spring than glass laid the 16 inch way, so that in case of a sharp blow such as from a hailstone 24 inch glass, although really weaker, can give way more without breaking than the 16 inch glass, consequently the extra spring makes up for the extra weakness. This action of hail was well illustrated at the Lancaster (Pa.) plant of W. J. Palmer & Son. In July, 1905, a hail storm passed over this plant and broke considerable glass. The house with 24 inch glass, which had just been built, did not suffer any more in proportion than the houses with 16 inch glass. In fact, the greatest damage was done on some 10 inch glass, though this was single thick. It seems that a hailstone big enough to break 24 inch glass will be big enough to break 16 inch glass, so the danger from hail need not worry anyone who wishes to use wide glass.

Dead Weight on Glass.

Glass is likely to be broken by the dead weight of large accumulations of snow and ice; for this reason it is interesting to determine just what weight glass can stand. In Canada, where everyone believes we have a great deal of snow, a number of growers are using 20 inch English double diamond. Now, English double diamond is about as heavy as American single thick. A box of 50 feet of American single thick glass is supposed to weigh 70 pounds, while a box of 100 ft. English double diamond is supposed to weigh 140 pounds. It follows from this that our Canadian friends are using 20 inch single thick glass in localities where much more snow may be expected than in localities in the United States. In addition to this more of the greenhouse plants in Canada are built on the ridge and furrow system so that they get the full benefit of the weight of a sudden snowstorm. We have made some tests on the weight of American double thick glass taken the

Table
Test of Breaking Strength of 16 x 24
American Double Thick A Glass.
1. Supports 24" apart. Sand used for loading.

Weight of light	Load required to break light	Breaking load per square foot
4 lbs 5 ozs	107 lbs	40.2 lbs
4 - 4 -	40 -	15.1 -
3 * 12 -	57 -	21.5 -
4 - 7 -	61 -	23.0 -
4 - 12 -	110 -	41.3 -
4 - 4 -	95 -	31.9 -

Greenhouse Construction

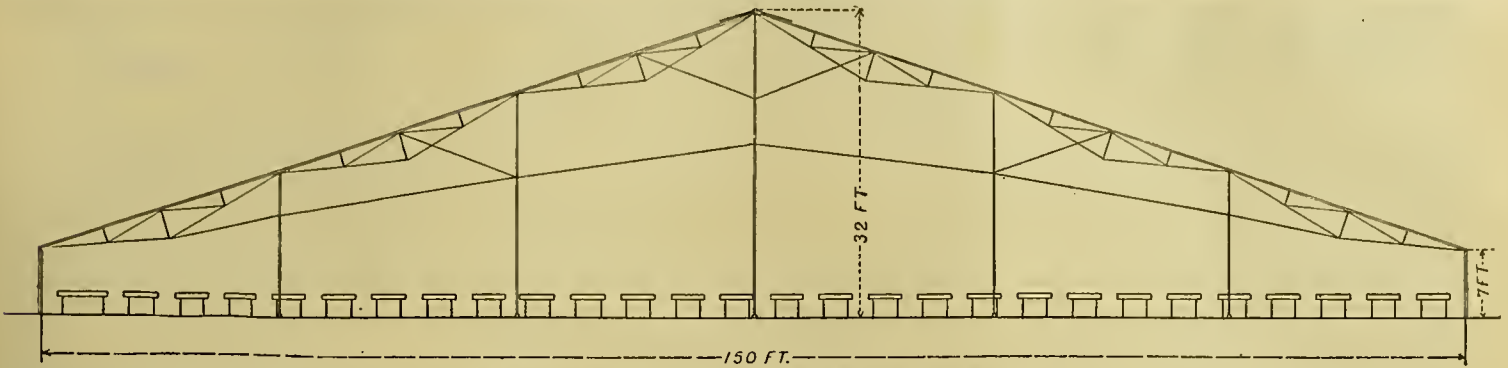
long way and the accompanying table shows the results obtained. The peculiar point about these results is that the strength does not depend at all on the thickness. You will notice that one light of almost the same thickness as the light which took 110 pounds to break, broke at only 40 pounds. Another peculiar feature you will notice is that although the glass is supposed to be double thick and each light should therefore weigh 4 pounds 11½ ounces, in order to make 80 pounds to a box of 19 lights, there is not one light up to weight. You will probably find that this is the general case, and although you pay for double thick glass you really get what ought to be called single thick.

The glass taken for our test was selected at random and the weights found therein are confirmed by some weights taken a short time ago in Philadelphia. Selecting two boxes at random, each light was weighed carefully, and in one box 14 lights out of the 19 weighed less than four pounds each. In the other 13 lights out of 19 weighed less than four pounds each and some of them were very much less than four pounds each. Leaving out of consideration two or three extra heavy lights in each box, the remainder of the glass was practically single thick. This probably explains why Canadian growers find English double diamond really as strong as American double thick. In order to cover this point the weight of six boxes from two different factories is given herewith. This glass is all labeled A double thick and is as fine looking glass as one usually sees. The average weight of one lot is 76.8 pounds per box and the other is 80.8 pounds per box, making both lots very much under requirements of double thick glass.

Referring again to the test of the strength of glass, the peculiar fact that the strength does not depend on the thickness is probably explained by the difference in annealing. If the glass for a greenhouse is to be selected from the point of view of strength, then no other qualification is more

Eldred Pa Glass		Brookville Pa Glass	
Spans out of box	Net wt of Glass	Spans out of box	Net wt of Glass
87 lbs	77½ lbs	76 lbs	66½ lbs
85½ "	76 "	85½ "	79 "
86½ "	77½ "	85½ "	76½ "
94 "	84½ "	79½ "	70 "
87½ "	78 "	85½ "	76 "
100½ "	91 "	79½ "	69½ "
Average wt. 80.8 lbs		Average wt. 76.8 lbs	

Greenhouse Construction



Greenhouse Construction—Design of Even Span 150-Foot House

King Construction Company, Builders.

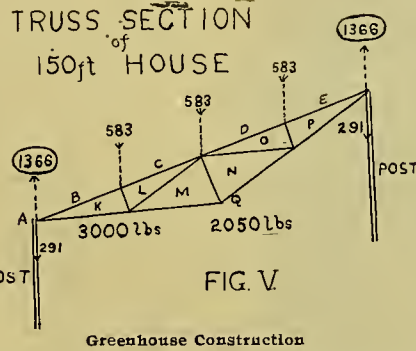
important and we should have some guarantee from the makers that the glass has been properly annealed. The purchase of properly annealed glass has not been given sufficient attention, and it is very likely that a great deal of the annual breakage of glass in greenhouses is due to defective annealing. Certainly if you put some lights in your house which will only stand 40 pounds and others which will stand over 100 pounds, you must expect that the weak ones go first. As glass is now manufactured it is perhaps impossible to devote special attention to greenhouse requirements. The glass people say that the workmen do not like to make greenhouse sizes because they can make more money on larger sizes. The greenhouse trade, however, is increasing rapidly, and improvements are being made in the manufacture of glass, so that perhaps sometime we will be fortunate enough to have a factory making glass especially adapted for greenhouse work.

Sunshine Available in Different Localities.

In locating a greenhouse the only thing not usually considered is the amount of sunlight that is to be expected. Yet there is nothing more important and a guarantee of a good measure of sunlight would be a very valuable asset for a greenhouse plant. Localities only one or two hundred miles apart are found to have very different amounts of sunshine during the Winter months. For instance, before locating the United States Cut Flower Company's plant at Elmira, N. Y., it was found that the sunshine to be expected in that locality is about double what would be expected in Buffalo. (In order to illustrate the great difference in sunshine for different localities Mr. King submitted a table covering the Winter months for the past three years, adding; "It is only possible to give observation for points widely separated owing to the extent of the territory covered, but it should be kept in mind that the difference shown by the table as occurring between points widely separated may also occur between what might be called local points as in the case of Buffalo and Elmira as already referred to.")

Though it is perhaps unnecessary or rather unwise to start a discussion as to the relative merits of houses built detached or built on the ridge and furrow system, still the consideration of this sunshine table leads to the observation that as lack of sunshine is the condition that confronts most of us it

is just as well to build houses to suit that condition. Now to meet that condition you must try to cover as much ground surface as possible with as little structural material as you can get along with. The way to cover ground with a small quantity of material is to use the ridge and furrow system, making the pitch of the roof as low as possible and using as wide glass as you will risk. Remembering that we are meeting the condition of no sunshine, it also follows that it does not matter whether the houses run north and south or east and west. Finally, provided your houses are built to meet that



worst condition, that is, no sunshine, will they not then take care of themselves under better conditions, that is, with sunshine?

Design of Greenhouses from Consideration of Strength of Materials.

It may be interesting to describe the process of designing a new type of greenhouse for which practically no data are furnished by previous actual building experiences. A design for an even span house 150 feet wide and having only five rows of supporting posts has recently been completed. This house is a great departure from present standards, and will set a record for wide houses which is not likely to be surpassed for some time, or, at least, until we can profit from the success or failure of the gentleman who are willing to experiment on such a grand scale. Beginning with the glass, it is desired to lay it with the supporting bars 24 inches apart. Referring to table (1) it is found that the average weight required to break the glass is 30 pounds per square foot. This is equivalent to about one foot of wet snow. The glass is hardly likely to be called upon to stand more than this, so the question of weight against dead weight can be considered settled. The frame work is made strong enough to carry somewhat more weight than the glass could stand, so that the glass would break before the frame work collapsed.

Considering the length of rafter it is seen to divide conveniently into three lengths of 28 feet each on each side of the ridge. As it is desired to use as few posts as possible, suppose it is decided to put in a post at every 28 feet section and carry the intervening space by truss work of the form shown in figure IV. The load that each truss is to carry in order to be strong enough to support the glass

under its breaking load is found by taking the area of roof supported by this truss and multiplying this by the weight per square foot that the glass will bear, that is 30 pounds. Now this is the breaking load of the glass that the truss would be called to bear, but it would be safe to take the working load as one-fourth of this, or 7½ pounds per foot. This even would be a high working weight, as ordinarily the truss has only to carry the weight of the glass which is less than two pounds per foot. Adding 2½ pounds per square foot to cover the weight of the glass and bars we have ten pounds per square foot as the total working load for the truss. Supporting the posts are spaced 3 feet 4 inches apart lengthwise of the house, then each truss has to carry a total working load of 8 feet 4 inches x 28 x 10 pounds or 2,333 pounds. This loading may be considered as being distributed at the joints and the ends of the truss as shown by figure V. The stress or strains produced in the members of the truss can now be determined by means of the device known as the stress or strain diagram. The stress diagram for the truss we are considering is shown by figure VI. It will be noticed that the lines in figure VI are drawn to a scale of 333 pounds to 1 inch, and that they are all paralleled to one or other of the lines in the truss shown in figure V. Attempting further explanation, it may be stated that the length of each line in figure VI represents the number of pounds strain or stress in the corresponding member of the truss. For instance, the line K B in figure VI is parallel to the lines between B K on figure V., that is, the upper member of the truss or the sash bar between the two lower purlins. The line B K is 9.6 inches long, and as 1 inch on this diagram represents 333 pounds the stress or strain in the sash bar is 3,200 pounds. In the same way the stress in the lower truss rod is found to be 3,000 pounds.

After finding in this way the strain in each member of the truss, calculations must be made to obtain the correct size for each. For instance, if the sash bar is of cypress, then it must be heavy enough to stand a working and strain of the 3,200 pounds. In the case under discussion it has been calculated that this bar must be 1½ x 2½, this size giving a working end strain of 3,200 pounds and a breaking strain of 12,800 pounds. The lower member, which we found must carry 3,000 pounds, is in tension, so should be of iron or steel, and by a separate calculation it is found that ¾ inch diameter is suitable for this strain. The other members of the truss are proportioned in the same way.

Having now designed the truss to carry the roof it is necessary to design the posts or columns to carry the truss. The strength of a column depends greatly on its length, so by properly bracing a long slender column it is practically divided by the bracing into a corresponding number of short columns. In the wide house under consideration it is found that 2-inch pipe, properly braced in every direction, will carry the roof.

The design is now complete, leaving the glass the weakest member as it should be, for it is seen that although the breaking strength of the glass is 30 pounds per square foot and the breaking strength of the truss work is the same, yet the glass is not uniform in strength, whereas the trusses are. And as 30 pounds is an average, it follows that half the glass would be broken by the time this load would be reached, and if half the glass is broken, half the weight has gone with it, so our frame work stands to be subjected in the limit to only one-half of its breaking load. There is a good deal of theory about all of this, but many of the gentlemen here now will likely be at the S. A. F. meeting at Philadelphia in August, and there will then be an opportunity to see how it has all worked out.

A Gladiolus Show.

Plans are being made by Arthur Cowee, of Berlin, N. Y., Arthur G. Babcox and the Humphrey Company, for the largest gladiolus exhibit that ever has been attempted in northern Ohio. It will be put on at Euclid Beach during the month of August.

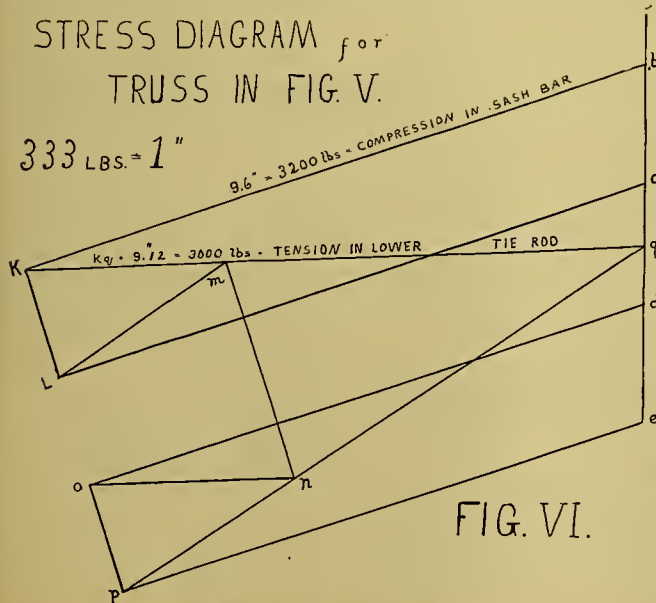
Fifty thousand gladiolus spikes are expected to be shown in this exhibit. They will be of the choicest varieties grown at Meadowdale farm, where the culture has reached the highest stage of perfection. The exhibition probably will be open the whole month.

STRESS DIAGRAM for TRUSS IN FIG. V.

333 LBS. = 1"

9.6" = 3200 LBS. - COMPRESSION IN SASH BAR

Kg. 9.12 = 3000 LBS. - TENSION IN LOWER TIE ROD



Greenhouse Construction

FOR THE RETAILER

Scarcity of Stock.

Notwithstanding the unprecedented scarcity of roses at this season of the year, business with the first-class retailer has been exceptionally good, in some stores amounting to a rush. The general opinion among buyers is that roses have never before been as scarce within the memory of the oldest of them. Christmas prices are prevailing and there is not enough stock to go around. Stores that are in the habit of using fancy and special grade flowers to fill their orders are eagerly buying ones and twos and paying fancy prices for them.

Lilies have also been at a premium for some time; and if it were not for carnations, which, we are thankful to say, are in good supply, business would be at a standstill for want of flowers to fill orders.

Tulips are also on the market in fair quantities, and are a most welcome addition. Narcissus Golden Spur are also to be had in quantity.

Reports from Toronto are not more favorable, returning delegates announcing a great scarcity there, even greater than here. One of the largest growers, who under normal conditions cuts roses by the thousands, and even ships to this city as a general thing, is only gathering a few hundred roses a day.

in this fern are not so liable to fade. Clusters of *Cyrtopodium Leeanum*, with their pretty white dorsal sepals, formed a most delightful contrast.

The beautiful hardy *Azalea mollis* makes a charming table decoration at this season, the great variety of coloring being unobtainable in any other plant. A large table strewn with lump moss to form a bed and planted with branches of *Azalea mollis*, in graduating colors, from very pale yellow to deep orange, called forth many favorable comments.

The indica varieties of azaleas can also be used with good effect for this purpose. Mme. Van der Cruyssen, Professor Wolters and the charming little *Firefly* being very effective. I saw a very pretty table of the *Firefly* azalea and *apacris*, used in combination, the latter plant predominating. This plant has not been generally employed, but it is well worth a trial. Its pretty spikes of little white flowers are very attractive, especially when massed. Small quantities of *Lilium speciosum album* have been seen this week; and I am surprised there are not more grown. *L. speciosum rubrum* and *roseum* also make their appearance occasionally; they are very popular with our customers, owing doubtless to their unique appearance and good keeping qualities, every bud developing in due season. D. RAYBUN.

CLUB AND SOCIETY DOINGS.

WESTERN NEW YORK HORTICULTURAL SOCIETY.—Never in the history of the Western New

York Horticultural Society has there been assembled so large or a more enthusiastic gathering than was in attendance at its fifty-second anniversary held in Rochester, N. Y., last week. A count of the roll showed a registration of 891 annual members at \$1 each, and three \$10 life memberships—a record breaker. The exhibition was an excellent one, a principal feature of which was a showing of 600 plates of fruit by the New York Agricultural Experiment Station at Geneva, N. Y.

The display of spraying devices and outfits, with engines in action, was by far the largest and most successful ever assembled in this section, and the demonstration that was given won many customers for the various exhibitors.

One of the secrets of the success of these meetings is that the presiding officer, William C. Barry, makes an ideal chairman. No time is allowed by him to go to waste and the attention of members is held throughout each session.

The election of officers resulted as follows: W. C. Barry was re-elected president and S. D. Willard, of Geneva; J. S. Woodward, of Lockport; F. B. Wilson, of Halls Corners, and B. J. Case, ofodus, were elected vice-presidents, John Hall, of Rochester, to whose efforts much of the success of the society is due, was re-elected to the secretaryship for the seventeenth successive year. The salary was increased to \$400 and many complimentary references were made to Mr. Hall's work.

The following committees were appointed:

Executive Committee—C. M. Hooker, Rochester; Duane Bogue, Medina; I. H. Dewey, Rochester; H. S. Wiley, Cayuga.

Botany and Plant Diseases—Professor F. C. Stewart, Geneva; Dr. L. H. Bailey, Ithaca; Albert Perkins, Rochester; C. H. Stewart, Newark; Willis T. Mann, Barker.

Chemistry—Dr. L. L. Van Slyke, Geneva; Dr. A. S. Lattimore, Rochester; Professor L. E. Roberts, Ithaca.

Entomology—Professor R. J. Farratt, Geneva; Professor M. V. Slingerland, Ithaca; Professor E. P. Felt, Albany; J. Rose, South Byron; J. Jay Barden, Stanley; Louis Hooker and Dr. Charles T. Howard, of Rochester.

Foreign Fruits—Irving Rouse, Rochester; I. H. Babcock, Lockport; Frank E. Rupert, Geneva; John Charlton, Rochester; H. J. Peck, Brighton; Nathan Wood, Carlton.

Flowers and Bedding Plants—William Scott, Buffalo; Charles J. Maloy and John A. Charlton, Rochester; Duncan Rhind, Canandaigua.

Garden Vegetables—Abram Franke, Irondequoit; O. M. Taylor, Geneva; L. D. Welsh, Pittsford.

Grapes and Small Fruits—Delos Taylor, Hilton; Edward H. Pratt and George S. Josselyn, Fredonia; Laurence J. Farmer, Pulaski.

Legislation—S. D. Willard, Geneva; C. M. Hooker, C. H. Hooker and William Pitkin, Rochester; Albert Wood Kent, D. S. Beckwith, Albion.

Native Fruits—C. Barry, Rochester; Dr. L. H. Bailey, Ithaca; Professor W. F. Hedrick and S. D. Willard, Geneva; W. J. Edmunds, Brockport; William C. Barry, Rochester; Professor John Craig, Ithaca.

Nomenclature—Professor W. P. Hedrick and S. D. Willard, Geneva; W. J. Edmunds, Brockport; W. C. Barry, Rochester; John Craig, Ithaca.

Ornamental Trees and Shrubs—C. C. Laney, Rochester; Nelson Bogue, Batavia; T. J. Smith, Geneva; C. J. Malloy and John Dunbar, Rochester.

As usual, a large number of interesting papers were presented, and the Question Box contributed its customary share to the value of the proceedings.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 23rd St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 MADISON AVENUE. My facilities for delivering flowers for any and all occasions are unexcelled; I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

LAMBROS MULINOS, 503 Fifth Avenue, and 301 Columbus Avenue. I have at all times a superb stock of seasonable cut flowers and can fill telegraphic orders at a moment's notice.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders, placed with us, will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLOREST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Tex. and La. Mail and telegraphic orders solicited.

An Impression of John Birnie.

Editor Florists' Exchange:

I now know John Birnie. I had heard a great deal and read a great deal about him, but only this week did I become intimately acquainted with him by seeing his portrait in *The Florists' Exchange*. I admit that I was surprised, but agreeably so, at what I have no doubt is a genuine likeness of the man who has no patience with Job. I have no doubt Job has the advantage of me in knowing John Birnie in the flesh, and the absence of that doubt only doubles my admiration for the prowess of Job, because the man whose likeness appears before me now on paper is not one to be tackled by any individual of ordinary attainments. My surprised condition was only entered into when I beheld Mr. Birnie's photograph as reproduced in your paper. I fully expected to find on perusing the columns of matter relating to the Carnation Society's convention that the next president would be John Birnie of West Hoboken, but to my regret I was in that disagreeably disappointed. When I consider how much Mr. Birnie must look like General Grant did, at his age and how well John acquitted himself in the task assigned to him as essayist. I arrive at the conclusion that Hoboken is to blame for the neglect of genius and not Mr. Birnie.

S. H.



Mirror Decoration with Winsor Carnations
By F. R. Pierson Co., at Toronto meeting A. C. S.
Artist, James Ivera Donlan.

These conditions are a great tax on the retailers, and give them many anxious moments. Their customers have to be supplied, and the large number of dinners and entertainments at this season only tend to increase perplexities.

Of course, at a dinner where only one table is used it is difficult to employ more than one variety, or color of flowers, or at the most two; but a very pretty idea, where several tables are to be decorated, is to use a different center-piece for each table. This is especially helpful when flowers are so scarce as at present. Roses, carnations or Spring flowers are all useful for this purpose. At a very large affair given last week, tulips formed the decoration for the tables, a different color being used for each center-piece. At a large dinner dance given in Philadelphia, each table was decorated with a different variety of carnation; corsages for the ladies and boutonnières for the gentlemen were supplied to match each table, so that the gentlemen wearing the Enchantress boutonhole escorted the lady with a corsage of the same flower in to dinner, and they were ushered to a table decorated with the same variety, the idea being to do away with cards used for that purpose.

Plants in Decorative Work.

Adiantum Farleyense, beautiful in itself, is a great help when flowers are scarce, and many attractive effects are to be obtained with this handsome fern. Center-pieces of *A. Farleyense* and *Cyrtopodium Leeanum* were used at a large dinner this week. The baskets were formed by putting the growing plants of this fern on round plateaus. The advantage of this is, that the delicate, tinted fronds, so much admired

Chicago.

The Week's News.

On Monday morning the Bentley-Coatsworth Company commenced moving their books, furniture and other paraphernalia from the basement to the second floor of the Atlas Building, where they now occupy a very desirable location on the corner.

At Peter Reinberg's it is reported that the orders for rooted rose and carnation cuttings are far ahead of all previous years at such an early date.

Hermann Schloss of New York was in town last week showing some of the latest attractive novelties in ribbons.

The excessive death rate in this city of late, probably never equalled, has tended to create an unusual demand for short roses for design work.

February 14, a week from next Thursday, is the regular meeting night of the Chicago Florists' Club and that day has been selected for the holding of the annual carnation exhibition of the club which has of late years proved such an attractive feature. It is expected that the show will be held as last year in the Atlas Building, but positive announcement will be made on this point next week.

Victor Brothers note a marked improvement in the quality of stock and particularly in the color of Bridesmaid roses since this section has been visited with a more generous allowance of sunshine, such a rare commodity with us since Winter set in.

The zero weather, the coldest in two years, which visited Chicago last week, resulted in some loss by frozen shipments. The reports to this effect covered all lines to a greater or less extent, from Eastern violets to productions within six miles of the market.

The report which has become current that a well known tobacco company would soon take possession of J. Mangel's store is denied by that gentleman, who says he has a lease still extending over several years.

Phil. J. Hauswirth, with the main part of the Chicago delegation to Toronto, returned Sunday evening last, reporting a very pleasant and successful convention. The secretary is now fully launched in the midst of his new duties in connection with the S. A. F. O. H.

Kennicott Brothers Company have commenced moving to their new quarters on Wabash avenue and will proceed as they find it convenient to do so.

Vaughan's Seed Store has issued its Spring Catalogue for 1907—the 30th year. This concern has also issued this year a neat memorandum book and 1907 calendar for gardeners. Besides calendars for the current and ensuing years, blank spaces are available for daily and other memoranda such as frost notes, planting notes, notes on pruning, notes on fertilizers, special notes for next year, in addition to all of which is given a fund of important information and reminders which will prove of inestimable value to the gardener, to whom the little book is dedicated.

Advance cards have been received announcing that Paul Berkowitz, representing H. Bayersdorfer & Company of Philadelphia, will be in town next week.

C. W. McKellar is still in daily receipt of a generous consignment of orchids including cattleyas and dendrobiums, and is also handling a choice line of fancy lily of the valley. J. A. Budlong is cutting nice Bride and Bridesmaid roses from the grafted stock which he installed last year.

Poehlmann Brothers have extended the variety of their offerings this week with a generous allowance of Lilium speciosum rubrum.

TRUE STOCK Aquilegia Coerulea Rocky Mountain Columbine From the Rockies

SEED—1 oz. \$1.00; 1/2 lb., \$3.50; 1 lb., \$12.00 by mail. ROOTS—4 and 5 year old, doz. \$1.25; 100 \$3.00 by express.

Order from headquarters. THE BARTEDES SEED CO., DENVER, COLO.

Tulips, narcissi in increased variety, freesia in generous quantity and other Spring flowers are constantly adding to the attractions in the store windows, yet the retailers, with few exceptions, report a rather unsatisfactory business.

The J. B. Deamud Company is among the fortunate ones whose hardy ferns are coming out of storage in excellent form.

A. L. Randall Company has been increasing its shelving in the supply department for the accommodation of the ribbon section. Easter novelties, especially in unique basket creations, continue to arrive, and orders are being booked to a very satisfactory extent.

At E. H. Hunt's much pleasure is evinced at the universal satisfaction expressed by the users of Tobakine Products, for which this house is agent.

The E. F. Winterson Company, who handle W. N. Rudd's output, are calling especial attention to some novelties in the line of seedling carnations which are being shipped in by Mr. Rudd at the present time. It is believed here that they have not been christened, yet they will undoubtedly figure in the higher commercial sorts when they are put upon the market.

WILLIAM K. WOOD.

Cincinnati, O.

News of the Week.

At last the waters have receded and dry land is once more in sight. Cold weather coming on was a god-send, as the rain stopped, which also allayed one of the worst floods we have had since 1884. Business is quiet, and stock is none too plentiful. Roses and carnations are selling out clean nearly every day. Bulbous stock is going abegging, narcissus selling at almost any price.

Our visitors during the past week were quite numerous: B. Eschner and M. Reukauf, from Philadelphia; George F. Struck, representing F. R. Pierson Company and Lager & Hurrell; and R. C. Whitebills, with Slug Shot and other useful articles manufactured by our esteemed friend, Benjamin Hammond; and last, but not least, Wm. Nicholson of Framingham, Mass. Mr. Nicholson came on from Toronto with the Cincinnati and Dayton boys on his way to Richmond, where Mrs. Nicholson is visiting a married daughter.

I am sorry to note that The Florists' Exchange has had such a close call, but how thankful all must be that you were only detained thirty-six hours. Fire and water generally go together, and what one does not destroy the other generally does.

J. A. Peterson and wife, R. Witterstaetter and E. G. Gillett were the delegates to Toronto, Ont. Did we enjoy our visit? We certainly did. A better conducted meeting and show it has never been my pleasure to attend, and the Queen's hotel is certainly o. k., and so are our Canadian brothers—all of them. They can sing and they can talk; and Mr. Algie can beat Kipling at reciting his own poetry. Mr. Lawrence is a singer of great volume, if only a small man; but only think of C. W. Ward accepting one of Mr. Lawrence's silver vases, only to be obliged to give it up a few moments later! That was a mean trick of Rudd's. The Dale estate is the finest establishment I ever saw, and the most complete.

E. G. GILLETT.

Save Your Pinks Before Splitting Don't try to patch them up with wires that would do for the 19th, but not for the 20th Century. A Perfect Flower guaranteed. \$1.75 per hundred, \$15.00 per thousand, 250 at thousand rates.

GERANIUMS

All rooted cuttings booked for January. Cash with order. PETER BROWN, Lancaster, Pa. ROOTED CUTTINGS Prepaid per 100. Ageratum variegatum, 90c.; \$7.50 per 1000. Hardy Pinks, Her Majesty, \$1.00. Abbotsford, 75c. Alternanthera, red and yellow 50c.; Heliotrope, blue 85c.; Verbena, mixed 00c. Cash. SHIPPENSBURG FLORAL CO., SHIPPENSBURG, PA.

WELCOME

THE ROSE PINK SPORT OF LAWSON, a favorite among storekeepers

\$12.00 per 100; \$100.00 per 1000. Well rooted cuttings, now ready. Cash or satisfactory references with order.

DAILLEDOUZE BROTHERS, FLATBUSH - - - - - BROOKLYN, N. Y. Mention The Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS READY NOW

Strong, Healthy and Thoroughly Rooted Cuttings of the following varieties:

Table with 2 columns: Variety and Price. Includes Victory (scarlet), Robt. Craig, Red Sport, Enchantress (pink), Lawson, Mrs. M. A. Patten var., Lieut Peary (white), Lady Bountiful, White Lawson, Boston Market, Queen, Queen Louise.

Remember we guarantee satisfaction. 250 of any one variety at 1000 rate. Write for discount on large orders.

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

UNROOTED CARNATION CUTTINGS

ENCHANTRESS, QUEEN, FAIRMAID, RED SPORT, HARLOWARDEN, pink, white and variegated LAWSON, \$10.00 per 1000. WHITE PERFECTION and VICTORY, \$30.00 per 1000. LADY BOUNTIFUL, \$12.00 per 1000. LIEUTENANT PEARY, \$15.00 per 1000. SCOTTI FEENS, 8 in., \$25.00 per 100. COLEUS, Verechaffelt and Golden Bedder, 2 in., \$18.00 per 1000.

ROOTED

VICTORY, \$50.00 per 1000. QUEEN, \$15.00 per 1000. LADY BOUNTIFUL, \$30.00 per 1000

Larchmont Nurseries Larchmont, N. Y. Mention the Florists' Exchange when writing.

MRS. H. BURNETT

New Salmon-Pink Carnation for 1907. A Seedling from Mrs. Lawson and an English Variety. Awarded 2 First-class Certificates and an Award of Merit. A lovely warm Salmon-Pink flower. Petals of good shape and substance. Calyx perfect. Delightful clove fragrance. 2 1/2 to 3 1/2 in. in diameter according to season. Stems 18 to 36 inches. A rapid and easy grower. Very productive. Many shades greater than Enchantress and keeps its color better. Keeps for a long time after being cut and travels splendidly. Just the shade that everybody wants and one not yet produced in America. Price, \$5 per 100 established in 2-inch pots.

H. BURNETT

St. Margarets, Guernsey, Eng. Mention the Florists' Exchange when writing.

ROOTED CUTTINGS February and March Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices. ALBERT M. HERR, LANCASTER, PA.

CARNATIONS

Table with 3 columns: Variety, Price per 100, Price per 1000. Includes VICTORY, ABUNDANCE, ENCHANTRESS, HARLOWARDEN, FROSPERITY, GANNAS, KRAMER BROTHERS.

ROOTED CARNATION CUTTINGS

Well rooted cuttings of Enchantress (best light pink), Robert Craig (fine red), Nelson Fisher (best dark pink), M. A. Patten (excellent variegated), W. Lawson and P. Lawson. Our stock is O. K. Orders taken now will be ready for February and March delivery. Send for our price list. VALLEY VIEW GREENHOUSES VILLE Bros., Props. MARLBROOUGH, N. Y. Mention Florists' Exchange when writing.

CARNATIONS

Strong, healthy, well rooted stock

Table with 3 columns: Variety, Price per 100, Price per 1000 from pots. Includes White Perfection, White Lawson, Bountiful, Cardinal, Bochantress, Lawson, Harlowarden, Boston Market.

Cash with Order. Satisfaction guaranteed.

SMITH & GANNETT Geneva, New York Mention the Florists' Exchange when writing.

S. J. GODDARD Framingham, Mass. Rooted Carnation Cuttings a Specialty. Correspondence Solicited. Mention the Florists' Exchange when writing.

ABUNDANCE

Rooted cuttings of the most prolific white carnation will be ready for delivery in January. Price, \$5.00 per 100; \$40.00 per 1000; 250 at 1000 rate; 5 per cent. discount for cash with order.

RUDOLPH FISCHER, Great Neck, L.I., N.Y. Mention the Florists' Exchange when writing.

COMING

Get ready for ST. PATRICK! Emerald Green coloring. The best for Carnations. Ready for use, \$1.00 per quart.

MANCHESTER CHEMICAL CO. 2804 Manchester Ave. Phons. { Kinlock Central 5313 | or, O. A. Kuehn Bell Baumont 84 | 1122 Pine St. ST. LOUIS, MO. Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

READY FOR IMMEDIATE OR LATER DELIVERY VICTORY, \$5.00 per 100; \$50.00 per 1000 Lady Bountiful, \$5.00 per 100; \$25.00 per 1000 Variegated Lawson, \$1.00 per 100; \$30.00 per 1000 Pink Patten, \$5.00 per 100; \$10.00 per 1000 Enchantress, \$2.50 per 100; \$20.00 per 1000 Boston Market, \$1.50 per 100; \$12.50 per 1000 JENSEN & DEKEMA 674 West Foster Ave., Chicago, Ill. Mention the Florists' Exchange when writing.

CARNATIONS

F. DORNER & SONS CO. LA FAYETTE, IND. Mention the Florists' Exchange when writing.



\$ \$ \$ \$ \$
IT WILL MEAN DOLLARS TO YOU
TO HAVE THIS OUTFIT SOON

ENDORSED BY THE HIGHEST AUTHORITIES



Invisible, Inexpensive, Indispensable, Instantaneously Applied



All who saw our exhibit at the Toronto convention last week pronounced the Baur Clip and Plyer for mending split carnations **A Great Success**. "The slickest thing I ever saw."—A prominent New York wholesaler. "Every up-to-date carnation grower will have one."—A grower from Philadelphia. "You've got the only thing."—A Practical grower from eastern Pennsylvania. "I came to see the thing work and am convinced that it is all that you claim for it."—This from a Canadian grower who brought some hard cases of splits with him and saw us promptly turn them into first-class carnations. We solicited no personal testimonials and no personal orders, well-knowing that all who saw this up-to-date device working would go home satisfied that he needed an outfit. The way orders have come in since then has proven the correctness of our prediction. You who have not seen it need it as much as those who did. You more than need it. You must have it, or drop behind in the profession as an up-to-date grower. It is what you have long been looking for and what you will need every day until settled warm weather sets in. You have racked your brain for some practical means of mending your split flowers, even though you may be only a small grower. You have thought of the good coal and energy you have been wasting every year raising split carnations that found no profitable market. You used clumsy rubber bands and what not, to fix them up. Only to find that the job was not much better after than before. Here is

something that solves your problem as far as it ever will be solved as long as carnations split—as far as it ever needs to be solved—a little practically invisible Wire Clip that holds the calyx and petals in their natural position without in the least affecting any other part of the flower. It does not make a wound that will cause the bloom to wilt before its natural time. It is in all intents and purposes part and parcel of the calyx and holds with a grip of iron. It can't come loose. It is so practical and free from all objections that it will make your split flowers, after mending, sell with those that were not split. A flower properly mended with this device is not a split flower. It is a first-class flower in every way and serves every purpose that will be served in which the accident of splitting did not occur. Our Plyer for putting on these Clips is a wonderful instrument. Wonderful in simplicity and in the work it does. With a little practice the operator can do the work twice as fast as it can be done in any other way and do it much better. Time is money, and if you both save time and make a perfect job you are doubly the gainer. Send for this up-to-date outfit today. Convince yourself. Your money will not be lost, for we will cheerfully return it if you are not fully satisfied with your bargain. Give it a fair trial and it will convince you that it is just what we claim for it and what you have been looking for. It will save its price every few days that you have it and will help to pay your coal bill as it helps to pay ours. Ready about Feb. 10.

PLYER \$3.00.

Postage Prepaid.

Cash With Order.

1,000 CLIPS \$1.00.

To be had from all the leading Florist Supply Houses, or direct from

BAUR FLORAL CO.,

18 W. 10th St.,

ERIE, PA.

Winners at Toronto

WHITE PERFECTION, all white, the best in the show. We have the largest stock of this variety in the country? Strong healthy cuttings ready now. **100,000** first-class cuttings. \$6.00 per 100. \$50.00 per 1,000.

ARISTOCRAT, a beautiful cerise—winner everywhere. March 1st delivery. \$12.00 per 100. \$50.00 per 1,000.

RED RIDING HOOD, our grand scarlet, \$12.00 per 100. \$100.00 per 1,000.

DAYBREAK LAWSON or MELODY, best light pink \$6.00 per 100. \$50.00 per 1,000.

	Per 100	Per 1000		Per 100	Per 1000
White Lawson.....	\$3.00	\$25.00	Red Lawson.....	\$4.00	\$30.00
Lady Bountiful.....	3.00	25.00	Victory.....	6.00	50.00
Cardinal, grand scarlet..	4.00	30.00	Variogated Lawson...	3.00	25.00
Lieut. Peary, fine white	4.00	30.00	Harlowardea, crimson	2.00	15.00

WINNERS OF SEVEN FIRST PRIZES AT TORONTO

Our stock is clean and healthy. Send us your orders now.

Chicago Carnation Co., A. T. Pyfer, Mgr. JOLIET, ILL.

Mention the Florists' Exchange when writing.

CARNATIONS

Rooted cuttings Victory, \$6.00 per 100; \$50.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patten, \$2.50 per 100; \$20.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Fern, and Fair Maid, \$2.00 per 10; \$15.00 per 1000. 5 per cent discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass. Mention the Florists' Exchange when writing.

The American Carnation Price \$3.50
 A.T. De La Mare Ptg. & Pub. Co., 2 Duane St., New York

A. B. DAVIS & SON, Inc.

PURCELLVILLE, VA.

Place your orders now for Red Sport cuttings, the best red carnation grown. \$3.50 per 100; \$30.00 per 1000.

Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION
 Price, \$3.50
 A. T. DE LA MARE PTG. & PUB. CO. LTD.
 2-8 Duane Street, New York

CARNATIONS

Rooted Cuttings; Fine Healthy Stock

ROBERT CRAIG VICTORY, HELEN GODDARD, \$4.00 per 100.
 RED LAWSON and VARIEGATED LAWSON, \$5.00 per 100.
 ENCHANTRESS, LADY BOUNTIFUL, NELSON FISHER, and WHITE LAWSON, \$3.00 per 100, \$25.00 per 1000.
 BOSTON MARKET, GENERAL MACEO, MRS. T. W. LAWSON, PINK ARMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

VERBENAS—Best Mammoth, rooted cuttings.....\$1.00 \$ 8.00
 Ageratum, Copp's Fat, White Cap, P. Pauline and Stella Orney..... 1.00 8.00
 Achyranthus, 4 sorts..... 1.00 8.00
 Coleus, best bedding and fancy sorts.. 1.00 8.00
 Cuphea, Platycentra 1.25
 Fuchsia, double and single varieties... 2.00 15.00
 Feverfew, The Gem 1.50 12.00
 Geranium, double and single..... 2.00 15.00
 Hallotrope, light and dark..... 1.25 10.00
 Ivy, German 1.25
 Moon Vio, true white..... 2.00 15.00
 Salvia, splendens, Bedman, etc..... 1.25 10.00
 Salvia, new early flowering sorts..... 1.50 12.00
 Vioas, variegated and Elegans, 2 1/4 in. pots..... 3.00

ASPARAGUS

PLUMOSUS NANUS, 2 1/4 in. pots..... 4.00
 " " 3 in. pots..... 8.00
 " " 4 in. pots..... 10.00
 SPRENGERI, 2 1/4 in. pots..... 4.00
 " " 3 in. pots..... 8.00
 " " 4 in. pots..... 8.00

Grafted ROSES Own Roots

Orders booked for early delivery. KIL-LARNEY, RICHMOND, JOE HILL, KAISERIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, PERLE, SUNRISE, SUNSET, etc.

MANETTI STOCKS

\$1.25 per 100; \$10.00 per 1000.

Send for List.

WOOD BROS., FISHKILL, N. Y. Mention the Florists' Exchange when writing.

White Enchantress

white sport of Enchantress, rooted cuttings \$12.00 per 100; \$100.00 per 1000.

E. SCHRADER, NEW SPRINGVILLE Richmond Borough, N. Y. Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

	Per 100	Per 1000
WHITE PERFECTION.....	\$8.00	\$50.00
LIGHT PINK LAWSON.....	8.00	50.00
GLENDALE.....	8.00	50.00
VICTORY.....	8.00	50.00
ROBERT CRAIG.....	5.00	35.00
CARDINAL.....	4.00	35.00
FIANCEE.....	3.50	30.00
LADY BOUNTIFUL.....	2.50	20.00
THE BELLE.....	2.50	20.00
WHITE LAWSON.....	2.50	20.00
ENCHANTRESS.....	2.50	20.00
NELSON FISHER.....	2.50	20.00
HARRY BERN.....	2.00	15.00
MRS. T. W. LAWSON.....	2.00	15.00
ESTELLE.....	2.00	15.00
BOSTON MARKET.....	1.50	12.00
WHITE CLOUD.....	1.00	8.00

ASPARAGUS Strong, ready for shipment. ASPARAGUS SPRENGERI, 3 in. at \$4.00; 4 in. at \$6.00 per 100; 5 in. at \$20.00. ASPARAGUS PLUMOSUS, 2 1/4 in. at \$2.50 3 in. at \$5.00; 4 in. at \$8.00; 5 in. at \$25.00 per 100.

W. J. & M. S. VESEY, Fort Wayne, Ind. Mention the Florists' Exchange when writing.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa. Mention the Florists' Exchange when writing.

JOHN E. HAINES

The leading scarlet, brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place.

Rooted Cuttings \$8.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa. Mention the Florists' Exchange when writing.

Robert Craig Carnations

Fine, strong plants, 1 1/2 in. pots, ready to top and pot on \$6.00 per 100; \$50.00 per 1000.

Victory, 1 1/2 in. pots, \$6.00 per 100; \$50.00 per 1000. ROBT. C. PYE, NYACK-ON-HUDSON, N.Y. Mention the Florists' Exchange when writing.

BEACON CARNATION

(ORANGE-SCARLET)

ORIGINATED AT

ELLIS, MASS.

Has been tested four years and proved to be of Great Commercial Value

COMMENCING to bloom early in the Fall, it gives a profusion of flowers for Christmas (when scarlet is in demand at remunerative prices) and CONTINUES THROUGHOUT THE WINTER MONTHS. It may not score as high on the exhibition table as some, but WILL FIGURE UP ON THE RIGHT SIDE OF YOUR LEDGER in a manner highly satisfactory.

The blooms, under ordinary culture, average 2 3/4 to 3 inches in diameter, the guard petals are broad, well arranged, and of good substance, the center loosely arranged and not too full. Color, scarlet with a dash of orange, which lightens up the flower, especially during dull, dark weather, making it very brilliant and attractive. The stem is long, stiff and wiry. Calyx long and seldom bursts (less than four per cent. last winter). It propagates easily. The plant is a vigorous, healthy grower, of ideal habit, and a most profuse bloomer. A night temperature of 50 to 52 degrees suits it admirably.

A BENCH OF BEACON IN FULL BLOOM IS A SIGHT NOT EASILY FORGOTTEN

PRICES

Per 100.....	\$ 12.00, 50 at 100 rate	Per 5000.....	\$90.00 per 1000
" 1000.....	100.00, 250 at 1000 "	" 10,000.....	80.00 "
" 2500.....	95.00 per 1000	In lots of 20,000 or more, cash with order.....	75.00 "

WE ARE PREPARED TO MAKE PROMPT DELIVERY

COTTAGE GARDENS CO.

QUEENS, N. Y.

PETER FISHER

ELLIS, MASS.

MENTION THIS PAPER

Mention the Florists' Exchange when writing.

30,000 ROOTED CARNATION CUTTINGS

READY NOW

Strong, Healthy and well rooted, in following varieties:

VICTORY.....	Per 100 \$6.00	Per 1000 \$60.00	PINK LAWSON.....	Per 100 \$1.80	Per 1000 \$18.00
ROBERT CRAIG.....	8.00	80.00	WHITE LAWSON.....	2.50	25.00
JOHN HAINES.....	8.00	80.00	GOETHE.....	1.80	18.00
ARUNDANCE.....	6.00	60.00	GENEVIEVE LORD.....	1.80	18.00
THE QUEEN.....	1.80	18.00	PROSPERITY.....	1.80	18.00
ELDORADO.....	1.80	18.00	MANLEY.....	2.50	25.00
WM. SCOTT.....	1.80	18.00	HARRY FENN.....	2.00	20.00
			ROOSEVELT.....	2.00	20.00

GLADIOLUS, BRENSCHLEYENSIS, Per 100, \$1.50; per 1000, \$12.00. SHAKESPEARE, " 5.00; " 40.00. MIXED, best whites and pinks, extra bulb, per 100, \$2.00; per 1000, \$16.00.

COLEUS, VERSCHAFFELTII, rooted cuttings, ready Feb. 20, per 100, \$1.00 per 1000, \$8.00.

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MRS. LAWSON.....	\$1 50	\$12 50	WHITE CLOUD.....	\$1 25	\$10 00
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ENCHANTRESS.....	2 00	17 50	HARLOWARDEN.....	2 00	15 00
LADY BOUNTIFUL.....	2 00	17 50	CHICAGO.....	1 50	12 50
LIEUT. PEARY.....	3 00	25 00	ESTELLE.....	2 00	15 00
BOSTON MARKET.....	1 25	10 00	RED SPORT (MACEO).....	2 00	15 00

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WHITE—Omaen.....	Per 100 \$1.50	Per 1000 \$12.50	Helen Goddard.....	Per 100 \$4.00	Per 1000 \$40.00
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White Lawson.....	2.00	20.00	RED—Red LAWSON.....	2.00	20.00
PINK—Enchantress.....	2.00	20.00	Robert Craig.....	2.00	20.00
Lawson.....	1.50	15.00	Harry Fenn.....	2.00	20.00
Pink Patten.....	4.00	40.00	VARIEGATED—Mrs. Patten.....	2.50	25.00
Victory.....	5.00	50.00			

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New Pink Carnation for 1907

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size.—Three to four inches in diameter when established. Odor.—Pleasing, but not strong. Stems.—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.—A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness.—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. NO discounts. Delivery Jan. 5th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000. First-class certificates Madison and Indianapolis.

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Ready for Delivery

Enchantress.....	100 \$2.50	1000 \$20.00	Victory.....	100 \$5.00	1000 \$50.00
Enchantress, rosa pink.....	7.00	60.00	Cardinal.....	3.50	30.00
Lawson, pink.....	2.00	15.00	Lady Bountiful.....	3.00	25.00
Genevieve Lord.....	2.00	15.00	Boston Market.....	2.00	15.00
Helen Goddard.....	5.00	45.00	Queen.....	2.00	15.00
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Decorative Plants.

ACACIAS.—This group comprises a great number of handsome, free-flowering shrubs, the majority of which are of easy culture and very desirable for decorative work in Spring and early Summer. They are especially well-suited for the decoration of conservatories where they present pleasing and striking contrasts to the other kinds of plants in bloom at the same time. They are now, as they have been in the past, in limited numbers grown for Easter, and it would seem that perhaps in them will be found, in part at least, what is wanted in the way of greater variety for the market at that time every year.

Acacias do not take kindly to forcing because an inordinate degree of heat is disastrous to them, but if left to their own natural way of getting there, several of the varieties suitable for pot culture will, with care, come in right, as a rule, for Easter.

In the main acacias are as easily propagated from cuttings. Those of the half-ripened wood of the side shoots taken off with a beel, in June, and dibbled firmly in small pots, or several in larger pots or pans, filled with sharp sand and these placed over a very gentle heat and kept moist and shaded carefully, will root in a few weeks. The cuttings may be put in the sand and rooted without pots, but usually there is a smaller percentage of dead ones resulting from the former method. Acacias produce seed more or less in abundance and young plants are very frequently obtained from seed, which may be sown either in Autumn when gathered or in February or March in pots or pans, put in a moderately warm temperature till the little plants are about half an inch high, when they should be potted singly into the smallest size pots and after they get somewhat established in these gradually exposed to the full sunlight and air of a light greenhouse. Young plants, whether seeds or cuttings, should be shifted on as they fill their pots with roots; and to obtain shapely specimens, the points of the shoots should be pinched off from time to time during the growing season.

None of the species is over particular in regard to soil, and most of them thrive exceedingly well in good fibrous loam with the addition of a little peat or leaf mold, but it is very important in all cases and at all stages of their growth that ample drainage be provided otherwise the soil may get sour. A condition inevitably fatal to the successful cultivation of any of the species. This holds good when the tall-growing ones are planted in greenhouses permanently also, in which case good drainage should be provided underneath.

Those intended for pot plants should in Summer be removed to a sunny sheltered position outdoors, after being repotted and cut back, where they will make strong and healthier growth and ripen better than they would in a greenhouse. When growing rapidly a good deal of water will be necessary, but as the wood ripens water in smaller quantity will suit their condition better until the wood is ripened, then, but little water will be necessary.

Although acacias like a cool temperature it will of course be understood that as the cold weather comes on their removal to a greenhouse is imperative.

For pot plants *A. armata*, *A. Drummondii* and *A. grandis* are recommended.

ACALYPHAS.—Years ago acalyphas in several varieties were grown in considerable number in pots for greenhouse adornment and for various other decorative purposes before their utility as bedding plants was generally recognized. They were for a time somewhat neglected and continued so until the variety known as *Sanderi* made its appearance. This novelty caused a mild sensation, but from one cause or another its popularity was

Surplus Stock

In Excellent Condition

The time for parties and balls is now on the programme. What will you use to decorate? Take my advice and use for a change an **ARAU-CARIA COMPACTA**, **KOBUSIA** or **GLAUCALIA**—the kind and size I grow. You will be surprised what a lovely effect they will have when placed upon tables of dinner or supper parties, or any other place in the house. These plants I have got on hand now are a **Wonder of Natopus**.

Price: 6-7 in. pots, 4-5 year old, as broad as high, 4-5 tiers, from \$2-35 in. in height, \$1.50, \$1.75, \$2.00 to \$2.50 each. Glauca specimens 7 in. pots, 38 in. high, 36 in. wide, 5 tiers; \$2.50 to \$3.00; 6 in. pots, 3 years old, 4-5 tiers, \$1.00, \$1.25 to \$1.50 each.

KENTIA FORSTERIANA PALMS not scarce with us; have plenty and can meet all wants cheaper than ever; 5 1/2 to 6 in. pots, 30 in. high, 6 good leaves, 60c., 75c., and 85c. each. 7 in. pots, made up 1 large size, about 40 to 45 in. high in the centre, and three smaller size plants 25 to 30 in. high around, which gives them a fine appearance, price \$1.00 to \$2.50 each. 6 in. pots, single plants, 38 to 45 in. high, 5 to 6 good leaves, 4 years old, \$1.25-1.50, \$1.75 each. 8 in. pots, 32 to 38 in. high, 5 to 6 good leaves, 4 years old, \$1.25 to \$1.50 each. 6 in. pots, 32 to 38 in. high, 5 to 6 good leaves, 4 years old, 75c. to 85c. each.

ARECA SAPIDA, just imported from Belgium, something new, looks like *Kentia* palms, about 25 in. high. Look! only 50c. each, worth \$1.00. This is a bargain seldom offered.

ASPARAGUS SPRENGERI, 4 in. pots, 1/c.

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All raised in pots and not on benches as follows:

NEPHROLEPIS BARROWSII, 7 in. pots, as big as a bushel basket, 75c. to 1.00 each. 8 in. pots, large, ready for 7 in., 50c.; 6-12 in. 40c.; 5 in. 30 to 35c.; 4 in. 25c.

BOSTON FERNS, 7 in., very bushy, only 75c.; 8 in., 50c. or 55.00 per doz.; 6 in., 30c. to 35c.; 4 in. 20c.

NEPHROLEPIS SCOTTII, 8 in., as big as a wash tub, worth \$2.00, now \$1.25; 7 in. as big as a bushel basket, worth \$1.25, now 75c.; 6 in., 50c.; 5-12 in. 40c.; 4 in. 25c.

DRACAENA BRUANTII. Imported from Belgium. This is the best *dracaena* grown for house cultivation. Most favored all over Europe; can stand any amount of dry heat, dust or dirt. Always full of green waxy foliage from top to bottom. 6 in. pots, about 30 in. high, 50c.

CINERARIA HYBRIDA. H. F. Michell's best strain, 2 1/2 in. pots \$4.00 per 100, 3 in. strong plants, ready for a shift, into 5 1/2 or 6 in. pots, \$7.00 per 100; 4 in. \$10.00 per 100.

AZALEA INDICA for Easter blooming, all best American Varieties, 50c. 75c., \$1.00, \$1.25, to \$1.50 each.

AZALEAS in bud and bloom now, Deutsche Perle, Simon Mardner and variegated 80c., 75c. to \$1.00 each.

All goods must travel at purchaser's risk. When ordering, say whether the plants should be shipped in the pots or not. Cash with order.

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short-lived. Taking them all through, I think the best variety for all purposes is *Macefeana*. This is a quick growing variety, with beautiful foliage ranging in color from red to crimson, and forming a handsome decorative plant even in its earliest stages of growth; although it is when planted out in the Summer that it develops into a gorgeous specimen of singular ornament. This variety of *acalypha* stands well in the full sunlight and succeeds surprisingly well in partial shade, although in the latter situation it may be expected to be somewhat devoid of color.

Now is the time to propagate this variety and the methods is to take the cuttings off the stock plants with a beel if possible and put them in the sand. They should be kept shaded for a few days. In about three weeks, if placed over a mild heat, the cuttings will be rooted, when they should be potted into the smallest size pots and later repotted until they are in 4-inch pots, from which they should be planted out early in June. It is a mistake to pinch these plants, because they make finer specimens when allowed to grow unchecked, whether indoors as pot plants or outdoors in beds or borders. D. M.

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Araucaria Excelsa, 6 1/2 in. to 6 in. pots, \$1.00, \$1.25, 4 to 5 tiers; 7-in. pots, \$1.50, \$2.00 and \$2.50; 8 in. pots, 3 1/2 ft. tall, \$3.00.

Azaleas, beautifully flowered, just right, 50c., 75c., \$1.25, \$1.50, \$2.00, \$2.50, and \$3.00 each. Miniature azaleas, \$4.00 and \$5.00 per doz. Also pyramids in quantity from 4 in. 5 in. and 6 in., \$7.00 each.

Begonia Gloire de Lorraine, \$9.00, \$12.00 per doz. Wire hanging baskets, \$1.25, \$1.50 each, can be planted to order.

Pyramia Box, 3 ft. high, \$2.50 to \$3.00 a pair; 3 1/2 ft. high, \$4.00 a pair; 4 ft. high, \$4.50 and \$5.00 a pair; 4 1/2 ft. high, \$6.00 to \$7.00 a pair; 5 ft. high, \$8.00 a pair; 5 1/2 ft. and over, perfect specimens, \$9.00 a pair.

Boston Ferns, 5 in. pots, \$3.00 per doz.; 8 in., \$2.00 each; 9 in., \$2.50 each. Specimens in 12 in. pots, \$5.00, \$6.00 and \$7.00 each; 14 in. pots, \$15.00 a pair.

N. Elegantiissima, 5 1/2 in. pots, \$4.00 per doz.; 6 in. pots, \$6.00 per doz. **Scott's Ferns**, 6 in. pots, \$4.00 per doz.

N. Whitmani, 4 1/2 in. pots, \$9.00 per doz.

N. Pierstoni, 8 in. pots, \$15.00 per doz.

Lilacs, white and purple, in pots, \$2.00; also larger plants.

Tulips, in pans, 35c., 50c., 75c. and \$1.00 each.
Tulips, in flats, \$2.00, \$2.50 each, 50 in a flat.

Hyacinths, doz., \$2.00.
Crocus, blue, white and yellow, 35c. per pan.
Snowdrops, 25c. a pot.

COMING ON FOR EASTER!
 3 houses **Crimson Ramblers**, **Dorothy Perkins**, in all shapes; **Baby Ramblers**, **Lilac**; **Heather**, yellow, pink, white, shell-pink; **Begonia**, **Acacia**, **Oranges**, **Azaleas**, and two houses of **Lilies**.

Aspidistra green, 5 1/2 in., \$9.00 per doz.; 6 in. pots, \$12.00 per doz.; 6 1/2 in. pots, \$18.00 per doz.

Daisies, English, \$12.00, \$18.00 and \$24.00 per doz.

English Ivy, 4 1/2 in. pots, \$2.00 per doz.; \$16.00 per 100; 3 to 4 ft. high.

Kentia Forsteriana, combinations, 3 and 4 plants in an 8 in. pot, \$2.50 to \$3.00; 9 in. pots, \$5.00 each; 10 in. pots, \$6.00 and \$7.00 each.

Kentia, **Belmoriana** and **Forsteriana**, all sizes, single and combinations, from 5 1/2 in. pots, 75c., \$1.00 to \$10.00 each. Give us a trial.

Livistonia Sinensis, superior to **Lantania Borbonica**, 6 1/2 in. pots, \$9.00 per doz.; 7 in. pots, \$12.00 per doz.; 8 in. pots, \$18.00 per doz.

Pandanus Veitchii, 4 in. pots, \$3.00 per doz.; 5 in. pots, \$4.50 per doz.; 8 in. pots, \$2.50 each.

Cash or satisfactory New York reference. When sending orders, please state whether plants are to be shipped with or without pots.

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- 10 **ARAUCARIA EXCELSA**, 8 in., 2-3 tiers.....\$3.50
 - 10 **ARAUCARIA EXCELSA**, 10 in., 3 tiers..... 4.50
 - 5 **ARAUCARIA EXCELSA**, 12 in., 3-4 tiers..... 3.00
 - 10 **KENTIA FORSTERIANA BELMORIANA**, 5-6 leaves, 3 ft..... 17.50
 - 4 **LANTANIA BORBONICA**, 5 leaves, 2 1/2 ft..... 6 00
 - 4 **PHOENIX CANARIENSIS**, 6-8 leaves 2 1/2 ft..... 7.00
 - 2 **COCOS WEDDELIANA**, 4-5 leaves, 1 1/2 ft..... 2.00
- TOTAL, \$42.50

You can return plants at our expense if not entirely satisfactory.

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- ASPARAGUS SPRENGERI**, 2 in., \$2.50 per 100;
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- Geraniums**, as fine a lot as was ever offered for sale at \$18.00 per 1000. S. A. Nutt, Pottaville, La Favorite, Perkins, Bruantii, Brett, Viand, Doyle, and several other varieties, out of 2 1/2 in. pots with or without soil.
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	" extra	35.00 to 40.00		{ White	2.00 to 4.00
	" No. 1	15.00 to 20.00		{ Pink	3.00 to 4.00
	" No 2	8.00 to 12.00		{ Red	3.00 to 4.00
	" No 3	6.00 to 8.00		{ Yel. & Var.	3.00 to 4.00
	Bride, Maid fancy-special....	15.00 to 20.00		{ White	5.00 to 6.00
	" extra	12.00 to 15.00		{ Pink	5.00 to 8.00
	" No. 1	8.00 to 10.00		{ Red	6.00 to 6.00
	" No. 2	5.00 to 6.00		{ Yel. & Var.	5.00 to 6.00
	Golden Gate.....	5.00 to 15.00		{ NOVELTIES	6.00 to 10.00
	RICHMOND.....	5.00 to 20.00		GARDENIAS, per doz.....	2.00 to 4.00
	Mme. Abel Chateauy	5.00 to 15.00		LILAC, per bunch.....	1.00 to 1.50
	ADIANTHUM.....	50 to 1.00		LILIES.....	15.00 to 20.00
	CROWN LILY.....	1.00 to 1.50		LILY OF THE VALLEY	1.00 to 3.00
	ASPARAGUS.....	25.00 to 50.00		{ MIGNONETTE var.	2.00 to 6.00
	Plumosus, bunches.....	8.00 to 15.00		{ NARCISSUS, Paper White.....	2.00 to 2.50
	" Sprenger, bunches.....	8.00 to 15.00		{ Yellow.....	3.00 to 4.00
		..... to		{ ROMAN HYACINTHS.....	1.00 to 2.00
	GALLIAS.....	10.00 to 15.00		SMILAX.....	8.00 to 12.00
	CATLEYAS.....	40.00 to 60.00		TULIPS.....	2.00 to 4.00
	CYPRIPEDIANS.....	12.00 to 15.00		VIOLETS.....	.60 to 1.26
	DAISIES.....	1.00 to 3.00		 to
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S. S. PENNOCK-MEEHAN CO.

Acacia Pubescens

Cut sprays, 18 in. to 3 1/2 ft. long, \$2.50 to \$5.00 per bunch.

THE WHOLESALE FLORISTS OF PHILADELPHIA

Cattleyas

\$6.00 per doz Can make a very attractive price in lots of 100 or more.

STORE CLOSSES AT 8 P.M.

1608 to 1618 LUDLOW STREET

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Open from 7 a. m. to 8 p. m.

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RHINEBECK VIOLETS FANCY ROSES FANCY CARNATIONS

NEW LOCATION

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Wholesale Cut Flowers

Valley, American Beauties, Brides and Maids; Sprengeri, Asparagus Plumosus, Carnations and Violets, all seasonable flowers. Large stock of Stevia on hand, can supply you at lowest market prices at short notice. Telephone and telegraph when you need cut flowers to

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15 Province St., - 9 Chapman Pl., BOSTON, MASS

All orders will have our prompt attention. A trial order will convince you.

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DUMONT & CO.

Wholesale Florists

Carnations a Specialty

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Bell and Keystone Phones.

H. G. BERNING

Wholesale Florist

1402 Pine Street, ST. LOUIS, MO.

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W. E. McKISSICK,

Wholesale and Commission Florist

Business hours: 7 A.M. to 8 P.M.

1221 FILBERT ST., PHILA., PA

Wholesale Prices of Cut Flowers—Per 100

Table with columns for cities (Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburg, St. Louis) and rows for various flower types and varieties with their respective prices.

PHILADELPHIA CUT FLOWER CO.

Wholesale Florists

1516-18 SANSON STREET High Grade Cut Flowers

Open Evenings until 5.

Mention the Florists' Exchange when writing.

New Orleans, La.

News Notes.

The carnival season here is well on now and all are busy preparing for the balls. Charles Eble has an order for one and is to furnish 250 baskets of flowers which are to be presented one to each of the lady dancers. This is an novel idea which has been introduced this season for the first time.

Eble and other florists complain of carnations reaching them in a sleepy condition, causing great losses. Many shippers claim that the heated pipes in the express cars produce the condition complained of. Mr. Eble has called upon G. F. Nosler, agent of the American Express Company, who has issued strict orders to all agents on his line to keep boxes containing flowers from heated pipes. Mr. Eble suggests that it might be a good idea if the shippers had labels printed bearing the advice to "keep from extreme heat or from heated pipes," in the place of "to keep from frost."

On the other hand, U. J. Virgin is of the opinion that it is the bad condition in which the flowers are shipped which is the cause of the trouble.

The windows of most of the florist stores are gay at the present time with well-flowered and shapely azaleas; these are principally what were intended for Christmas and New Year, but were a trifle late.

At the recent meeting of the New Orleans Horticultural Society a committee was appointed and an appropriation made for the entertainment of visiting florists to the annual meeting and show of the Society of Southern Florists to be held in this city February 14 to 16 inclusive. CRESCENT CITY.

BOSTON, MASS.

WELCH BROS.

PROPRIETORS

CITY HALL CUT FLOWER MARKET

226 Devonshire Street.

Asparagus Plumosus Mignonette L.H. Harrisll Brides, 'Maids American Beauties Can furnish at short notice.

Price according to quality of goods. Long Distance Telephones 6267 and 6268

Kaiserin Carnots Orchids Valley Carnations Chrysanthemums

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Telephone: 142-26-A.

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Wholesale Growers of Roses and Carnations 18,000 assorted GERANIUMS in 2 1/2 in pots, \$2.50 per 100; \$20.00 per 1000.

Also retold cuttings of all the leading carnations.

WORCESTER, MASS.

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Headquarters in Western New York

For ROSES, CARNATIONS

And all kinds of Seasonable Flowers.

WM. F. KASTING

Wholesale Commission Florist

Also dealer in Florists' Supplies and Wire Designs

383-87 Ellicott St. BUFFALO, N. Y.

Give us a trial. We can please you.

Mention The Florists' Exchange when writing.



CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
 White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00.
 Bountiful. Per 100 \$2.75, per 1000 \$25.00.
 Enchantress. Per 100 \$2.00, per 1000 \$18.00.
 Book order no. ultyguaranteed. If you don't like them we pay express both ways.
 Catalogue Free.
E. F. WINTERSON & CO. Wholesale Cut-flowers and Florists' Supplies
 46-47-49 Washback Ave., Chicago, Ill.

CHAS. W. MCKELLAR

Orchids
 FANCY VALLEY, ROSES, CARNATIONS, and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago
 Mention the Florists' Exchange when writing.

Los Angeles, Cal.

News Notes.
 The amount of rain that has fallen this season, 13 to 16 inches, is about four times as much as that of last season for the same length of time. There are yet three months of the rainy season which usually gives us a greater precipitation than the first three months, therefore the soil will be well soaked, and bountiful crops assured for the year.

The fabulous returns of well-kept Valencia and navel orange groves the past two seasons—in some instances as much as one thousand dollars per acre net—have wrought up growers of the fruit to a fever of extensive planting and nursery stock, one-year-old trees, one inch caliper, are held at \$1.25 per tree, no matter about the quantity taken. Walnut groves are being converted into firewood, and the ground planted to Valencia oranges principally.

Blight has exterminated all pear orchards in this part of the State; and peaches have become so uncertain that they have been discontinued on the lower levels. Among the foothills and higher elevations, where a lower temperature prevails during the Winter, they are still successfully grown.

The wet weather has brought forth violets in greater quantity than the writer has ever before seen in this market at this season of the year; yet the prices have kept up to about 25c. per hundred. Field-grown carnations have also been in bountiful supply; while outdoor grown roses have suffered some from the rains and consequent cloudy weather.

Seedsmen report business good; while nurserymen are kept busy growing stock to supply the unprecedented demand. The Orange County Nurseries at Fullerton imported from Kansas two carloads of peach trees packed in bulk; a horticultural commissioner inspected every tree to discover if he might, any "borers" in the roots, and he condemned only 50 trees which were promptly consigned to the fire. This is one pest of the fruit grower which does not seem to thrive in this part of the State.

P. D. BARNHART.
Detroit, Mich.

News Notes.
 Cut flowers of all kinds are still very scarce here. Good roses look like gold, and carnations are not much more plentiful. Dealers all over town are scouring the country in order to obtain flowers for the Alger funeral.
 The Detroit Floral Company sustained a loss of about two hundred dollars during a wind storm on Sunday, January 20, 1907. Ventilators were torn from their hinges on the roof; doors were stove in and whole strips of glass were broken into shreds. The wall in the boiler room was blown in and it was only with the utmost exertion that the firm was able to keep the houses from freezing.

The Michigan Cut Flower Exchange was lately incorporated. The members of the firm are now: Philip Breitmeyer, Fred Breitmeyer, Wm. Dilger and Robert Rahaley. Th officers for the ensuing year are: Philip Breitmeyer, president; Wm. Dilger, vice-president; Fred Breitmeyer, second vice-president; Robert Rahaley, secretary and treasurer. The Michigan Cut Flower Exchange was the initial cut flower commission house of Detroit. By steady progress it has made itself what it is to-day. Up to this time it has been backed by Mr. Breitmeyer, who has indeed proved his business genius.
 HARRY.

BIRMINGHAM, MICH.—The work of excavating for a lake 15 acres in extent at Cranbrook, the new estate of George G. Booth, nurseryman, is being carried steadily along all the Winter. A new bridge with an arch of 50 feet span, dam and overflow have been built by the Kahn system of reinforced concrete. H. J. Corfield, who is carrying out the work, hopes to have everything completed and ready for planting by the time Spring arrives. Extensive planting will be carried out on this place.

Be your own Commission Man
THE FLOWER GROWERS' MARKET
 furnishes the facilities
 See PERCY JONES, Mgr.
60 Wabash Ave., CHICAGO.

THE BUSIEST HOUSE IN CHICAGO
J. B. DEAMUD CO.
 Wholesale Cut Flowers
51 Wabash Av., CHICAGO
 Consignments Solicited

WIETOR BROS.
 Wholesale Growers of
CUT FLOWERS
 All telegraph and telephone orders given prompt attention.
51 Wabash Ave., CHICAGO

E. G. HILL CO.
 Wholesale Florists
RICHMOND, INDIANA
 Mention the Florists' Exchange when writing.

Chicago Rose Co.
 Rose Growers and Commission Handlers of Cut Flowers
FLORISTS' SUPPLIES
 Wire Work our Specialty.
56-58 Wabash Avenue, CHICAGO.
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CUT FLOWERS
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All Leading Varieties of
PETER REINBERG
 Wholesale Cut Flowers
51 Wabash Ave., CHICAGO, ILL.
 Headquarters for American Beauty Rose
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SINNER BROS.
 WHOLESALE CUT FLOWERS
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 Careful attention to all
SHIPPING ORDERS.
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ST. PAUL, MINN.
 Send us your Orders for delivery in the Northwest, which will have our best attention.
L. L. MAY & CO.,
 Florists, St. Paul, Minn.
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GEO. REINBERG
 Wholesale Grower of **Cut Flowers**
 CHOICE AMERICAN BEAUTY ROSES
 We will take care of your orders at reasonable prices. Prompt Attention.
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VAUGHAN & SPERRY
 Wholesale Florists
 WESTERN HEADQUARTERS FOR
DOUBLE & SINGLE VIOLETS
 Valley, Carnations and Roses
58-60 WABASH AV., CHICAGO
 Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers, Chicago, Jan. 29, 1907

Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		STANDARD	
38-inch stems.....per doz.	6.00 to 8.00	White.....	2.00 to 4.00
30-inch stems..... "	4.00 to 5.00	Pink.....	2.00 to 4.00
24-inch stems..... "	3.00 to 4.00	Red.....	2.00 to 4.00
20-inch stems..... "	2.00 to 3.00	Yellow & var.....	2.00 to 4.00
18-inch stems..... "	1.50 to 2.00	*FANCY White.....	4.00 to 6.00
15-inch stems..... "	1.00 to 1.50	(The high Pink.....	4.00 to 6.00
8-inch stems and shorts "	.75 to 1.00	est grades Red.....	4.00 to 6.00
Bride Maid, fancy special.....	10.00 to 15.00	of Sta'd var. Yellow & var.....	4.00 to 6.00
" extra.....	8.00 to 10.00	NOVELTIES.....	6.00 to 8.00
No. 1.....	6.00 to 8.00	ADANTUM.....	.75 to 1.00
No. 2.....	5.00 to 6.00	ASPARAGUS, Pinn. & Tea.....	.35 to .50
Golden Gate.....	12.00 to 15.00	" Sprengert, bushes.....	.35 to .50
Uncle John.....	5.00 to 10.00	LILLIES, Longiflorum.....	..... to 20.00
Lilyart.....	6.00 to 15.00	HARRIET.....	..... to 20.00
Richmond.....	6.00 to 15.00	Orchids—Ostleyas.....	50.00 to 75.00
Killarney.....	8.00 to 12.00	SMILAX.....	12.00 to 16.00
Perle..... extra.....	15.00 to 20.00	LILY OF THE VALLEY.....	1.00 to 5.00
Narc. Single Yellow.....	5.00 to 10.00	VIOLETS.....	.50 to .75
Obatony.....	6.00 to 12.00	" single.....	.50 to .75
Callas.....	..... to 16.00	HARDY FERNS per 1000.....	2.00 to 3.00
HYACINTS, Roman.....	2.00 to 4.00	GALAX.....	1.00 to 1.25
Narc. Single Yellow.....	3.00 to 4.00	NARCISUS, Paper White.....	2.00 to 4.00
Tulips, White.....	2.00 to 4.00	JONQUILS.....	3.00 to 5.00
" Yellow.....	4.00 to 6.00	FREE-LIA.....	2.00 to 4.00
Mignonette.....	2.00 to 4.00	SWEET PEAS.....	..... to 1.50

J.A. BUDLONG
 37-39 Randolph Street, CHICAGO.
 Wholesale
CUT FLOWERS
 Roses and Carnations
 A Specialty....
 GROWER of
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A. L. RANDALL CO.
 Western Headquarters for
 Up-to-Date Florists' Supplies
 Write for Catalogue
No. 19 RANDOLPH ST., - CHICAGO.

HOLTON & HUNKEL CO.
 WHOLESALE FLORISTS
 and FLORISTS' SUPPLIES
 Manufacturers of WIRE DESIGNS
457 Milwaukee St., MILWAUKEE, WIS.
 Phone, Main 874. P. O. Box 108

WHOLESALE CUT FLOWERS
 and FLORISTS' SUPPLIES
C. C. Pollworth Co.
MILWAUKEE, WIS.

Newport, R. I.
Trade and News Notes.
 The first real cold spell of the Winter visited Newport the beginning of last week and it has kept us close company ever since. Last Winter was all through so mild that not a pound of ice was harvested in Newport, and that meant that all the ice used by florists and men engaged in various other business undertakings had to be brought here from distant parts, which added greatly to the expenses by reason of the increased cost of the ice. If this cold snap holds for a few days, Jurgens will get his house filled and the ice company theirs also.
 Carl Jurgens has usually a steady demand for roses and lily of the valley during the Summer months from the Avenue florists. To meet this demand Mr. Jurgens will devote the two houses, which he has just completed, to roses for the Summer trade.
 Robert Purshall, who, for several years has been in charge of the estates of Marble House and Belmont, the properties of Mrs. O. H. P. Belmont, is to be transferred to the Long Island tract in the same capacity at "Brokatt," Mrs. Belmont's residence in Hempstead. A successor to Mr. Purshall has not yet been decided upon.
 D. M.

ADVERTISING IN THE FLORISTS' EXCHANGE
 IS SURE TO BRING RESULTS

SOUTHERN WILD SMILAX

Now ready in any quantity

Book orders now for future delivery. Beaven's Fadeless Sheet Moss, \$3.50 per bag, delivered. Send for samples. Also Fancy Holly for Xmas trade. Satisfaction guaranteed. Write for prices.

E. A. BEAVEN
EVERGREEN, ALA.

Mention The Florists' Exchange when writing.

Wild Smilax \$2.50 Per Case

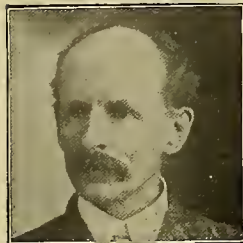
The only place where you can **always** get it. Long Needle Pines, \$1.00 per doz.; Palm Crowns, \$2.50 per doz.; extra nice long stemmed Palmetto leaves, \$2.50 per 100; Magnolia, \$2.50 16 cubic ft. cases. Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000

SPEED A SPECIALTY

Write for Catalogue

CALDWELL THE WOODSMAN DECORATING CO., Evergreen, Ala.

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CALDWELL THE WOODSMAN
Introducer of the Wild Smilax

HEADQUARTERS FOR HARDY CUT GREENS AND FLORIST'S SUPPLIES



Fancy & Dagger Ferns.
Fine Quality \$1.50 per 1000.
New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.
Southern Wild Smilax \$3.50 and \$7.00 per case.
Laurel Festooning, good

and full, 5c. and 5c. per yard.
Branch Laurel, 50c. per bundle.
Leucothoe Sprays, \$1.00 per 100.
Sphagnum Moss, 50c. per bag; five bags \$2.00.
Green Moss, \$1.00 per bbl.



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes, cut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.

15 Province St.—9 Chapman Pl.
BOSTON, MASS.

TEL. MAIN 2617-2618

Mention the Florists' Exchange when writing.

Fancy or Dagger Ferns



\$1.25 per 1000
Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
Boxwood, No. 1 Stock, 50 lb. cases, \$8.50
Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
Southern Smilax, fancy stock, 50 lb. cases \$8.50
Laurel Branches, 35c. per bundle

Telegraph Office: New Salem, Mass.

Long distance telephone connections

GROW FERN CO., MILLINGTON, MASS.

Mention the Florists' Exchange when writing.

EXTRA FINE FANCY AND DAGGER FERNS

\$1.75 per 1000. Discount on large orders. Leucothoe Sprays: \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE

WILLIAM DILGER, Manager.

Let us have your standing order for Ferns; we will make Price right all through the season.
38 & 40 Broadway. Formerly **DETROIT, MICH.** Miami Ave.

Send for our weekly price list on Cut Flowers.

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Importers and Manufacturers of **FLORIST'S SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

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THE BEST WAY

to collect an account is to place it with the

National Florists' Board of Trade
56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.
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GALAX LEAVES

New crop; fresh from the patch; prices as follows:
Bronze and Green Galax Leaves.....\$0.50 per 1000
Fancy and Dagger Ferns.....1.00 per 1000
Green Leucothoe Sprays.....2.50 per 1000
Bronze ".....5.00 per 1000
Rhododendron Sprays.....3.00 per 1000
Kalmia or Mountain Laurel.....3.00 per 1000
Also Rhododendron Plants which will grow, 10 to 15 inches, 10c. each; 20 to 25 inches, 15c.; 30 to 40 inches, 25c.; 50 to 80 inches, 40c. Discount on large orders. Fourteen years' experience enables me to guarantee perfect satisfaction. 250 customers now in U. S. Send cash with first order.

J. N. PRITCHARD, Elk Park, N. C.
Mention the Florists' Exchange when writing.

THE ECONOMY GREENHOUSE BRACKET

IS THE MEANS OF ADDING WEALTH

to your pocketbook. It increases the capacity of your houses. Just the thing for cuttings, etc. Endorsed by leading growers. Send for prices and circular.

BUXTON & ALLARD, Nashua, N. H.
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WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY
W. J. COWEE, BERLIN, N. Y.
Samples free. For sale by dealers.

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Southern Smilax

If you want SMILAX, and you want to get it when you want it, send your orders to
JAS. TOMLINSON - Newton, Ala

Mention the Florists' Exchange when writing.

BRILLIANT Galax and Lencothoe SPRAYS

Wholesale Trade Solicited
J. L. BANNER & CO., Montezuma, N. C.
Mention the Florists' Exchange when writing.

GROW MUSHROOMS

If you do not know how, procure that simple but complete and practical book called "How to Grow Mushrooms." The price is ten cents and it can be secured from this office. Special rates will be made to the trade who wish to supply their customers.

THE FLORISTS' EXCHANGE
2 Duane St., New York

Boston. News of the Week.

The first exhibition of the year of the Massachusetts Horticultural Society was held on Saturday. A regular blizzard was raging all the morning; as a consequence, the show was small but some very good primulas were on the tables. For the best six plants of *Primula sinensis* Wm. Whitman (Martin Sullivan, gardener) was first; C. R. Talbot second, and Geo. M. Anderson, third. For *Primula scutellata* Wm. Whitman was first and Mrs. J. L. Gardeur (Wm. Thatcher, gardener), second. For *Primula obovata* the same exhibitors won the prizes in the order named. Some very fine violets were shown, H. F. Woods being first, N. F. Comley second and C. S. Strout third. There was a small display of carnations, the only exhibitors being H. A. Stevens Company and C. S. Strout, the prizes being about equally divided.

John E. Lager of Summit, N. J., was the speaker in the lecture course on Saturday morning. His subject was "Orchid Collecting." A small but very appreciative audience was in attendance.

Mr. Lager said in part that the most interesting and important field for orchid collections is Colombia; Venezuela and Brazil are second and third. He then described in some detail his visits to the different orchid regions, and in conclusion stated that the prospects for the future are not encouraging. The search for orchids has led many natives to go into collecting, but in many cases they know nothing of the proper methods of securing, packing and shipping the plants. Last year alone several hundred boxes of orchids came from South America in which every plant was ruined by carelessness or ignorance, and one native can do more harm in an orchid region in one year than a collector would do in ten. At the conclusion of the interesting talk a large number of questions were answered by Mr. Lager.

There was no marked difference on McKinley Day in this city. Carnations have been selling well for some time and there has been no surplus lately.

W. W. Rawson left on Saturday for a brief vacation in the South, where he will give vegetable growing some study.

A. L. Rogers of Rogers Brothers, Alpena, Mich., was a visitor this week.
J. W. DUNCAN.

Philadelphia.

News Notes.

There is not very much going on this week. The stores are doing a nice business, but no rush is noticed. The decorators are fairly busy. The William Graham Company have three balls in succession at Horticultural Hall and the Habermehls have the Charity Ball at the Academy of Music. While these affairs are not using many cut flowers, lots of azaleas, lilies and other bulbous plants are employed.

We are very sorry to report that Thomas B. Meehan has met with a sad bereavement; his 9-year-old boy Thomas, fell out of a third story window at his home on Monday, and died later in the hospital. The little fellow was reaching out to get an icicle, when he overbalanced and fell to the cement sidewalk.

Henry F. Michell is at his desk again this week after a three weeks' rest in the South.

John Westcott left on Saturday for Florida for a few weeks' rest.

S. S. Pennock says Will Gude owes a very strong vote of thanks to his friends who rooted for Washington at Toronto, because he was not there to marshal his own forces.

A good attendance is looked for at the Florists' Club meeting on the 5th; many new carnations have been promised for the exhibition.

DAVID RUST.

Commercial Violet Culture
Price, \$1.50
The Florists' Exchange, 2-8 Duane St New, York.

New York.

The Week's News.

Owing to the great inconvenience caused in our office last week by a fire on the floor above us, some of the names of New York delegates to the Carnation Society's convention at Toronto were omitted in the published list. Those from this city and vicinity who visited Toronto were Mr. and Mrs. E. Dilledouze, John Young, F. H. Traendly, E. Leuly, O. Boehler, P. Beurlen and son, J. Niemels, H. A. Bunyard, A. J. Guttman, Marius Matheron, C. W. Ward, F. R. Pierson, J. R. Potheringham and J. I. Donlan.

Through the courtesy of John Chambers, superintendent of parks at Toronto, John Young, F. H. Traendly and H. A. Bunyard were enabled to visit the Government House and witnessed the proceedings of the opening of Parliament. They were also introduced to the Speaker of the House, and were shown every possible courtesy by this high official of the Canadian Government.

On the return journey from Toronto to the United States, Mr. Traendly was the center of a rather embarrassing situation. It seems that on approaching the State line, when the customs inspectors were asking the nationality of each traveler, some joker in the crowd informed one of the inspectors that Mr. Traendly was not an American citizen. The inspector began to question Mr. Traendly rather closely as to his birthplace and citizenship, and the situation grew rather embarrassing for Frank, being only relieved by the laughter of his comrades who were seated a few seats behind, and explanations of the joke to the customs officer.

Mr. Young and Mr. Traendly stopped off at Buffalo on their way home, and spent a few hours visiting the craft in that city, reaching New York during the forenoon of the day following.

W. J. Lawrence of Eglinton, Toronto, whose fine tenor voice was heard at the banquet last Thursday evening, will be with the Toronto Choral Society, singing in Carnegie Hall in this city, on Wednesday, February 13.

At the thirteenth annual meeting of the American Society of Heating and Ventilating Engineers, held in New York on January 22, 23 and 24, U. G. Scollay of Brooklyn was re-elected treasurer of that organization.

Benjamin Hammond, Fishkill-on-Hudson, N. Y., secretary of the American Rose Society, has been suffering from a severe attack of the grip, but is now, we are glad to say, recovering.

Vaughan's Seed Store received this week a carload of Kentucky blue grass, together with another carload of various grasses and clover seed.

The annual smoker of the New Jersey Floricultural Society was held on Friday evening, February 1, in their rooms at 240 Main street, Orange, N. J. As is usual with this society at their annual gathering, they had a most enjoyable time.

Mr. and Mrs. Carl Jurgens, Newport, R. I., sailed for Europe on Tuesday, January 29.

Tuesday was McKinley Day, but close observation did not show that many citizens here were honoring the occasion by wearing carnations, from which fact we would gather that life in New York is so strenuous that sentiment does not enter into it, so far as the business man is concerned.

Albert Crawford, a gardener employed in the greenhouses at Prospect Park, Brooklyn, was found dead in one of the houses one morning last week. It is believed that he went there in the night to take care of some of the plants and was stricken while attending them. He was forty-four years of age, and resided at 129 Gelsion place, Brooklyn.

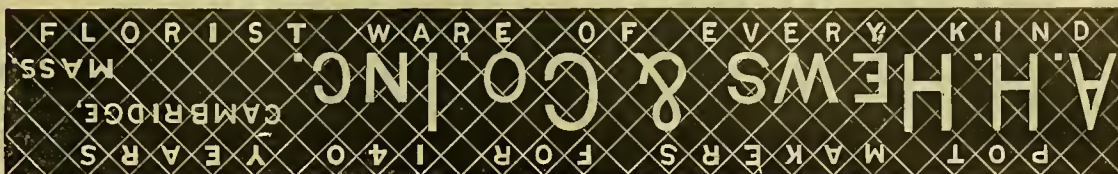
George Kramer, a man who styled himself "the Luther Burbank of the East," was up before Magistrate Barlow in the West Side police court a day or two ago for selling artificial seeds that were supposed to produce lemon trees and rubber plants. According to witnesses at the trial, Mr. Kramer's operations began four years



The Whilldin Pottery Co.
STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.



STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500 2 1/2 in. pots in crate, \$4.88		120 7 in. pots in crate, \$4.20	
1500 2 3/4 " " " 6.25		80 8 " " " 3.00	
1500 2 5/8 " " " 6.40		HAND MADE	
1000 3 " " " 6.00		48 9 in. pots in crate, \$8.80	
800 3 1/2 " " " 5.80		24 10 " " " 4.80	
500 4 " " " 4.50		24 11 " " " 3.60	
300 5 " " " 4.50		24 12 " " " 4.80	
200 6 " " " 4.50		12 14 " " " 4.80	
144 8 " " " 6.16		6 16 " " " 4.50	

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Roiker & Sons, Acts., 31 Barclay St., N. Y. City
Mention the Florists' Exchange when writing

ago, and some of these witnesses have been waiting all this time for something to develop from the seeds which they had bought. Kramer was held for the grand jury under \$300 bail, and, as a bondsman refused to sprout, he was taken to the cells. When the plant wizard was escorted to police headquarters to have his picture taken, it was found that there were already a couple of good-sized cabinet portraits of Kramer in the Rogues' Gallery, so that he is evidently an old offender.

There is some talk in wholesale flower circles just now about the formation of a Greek cut flower association, the objects of which are to locate in some central quarter and carry on a regular wholesale flower business for the benefit of the dealers of that nationality. So far as we can gather it would seem that most of the Greek florists throughout the city deal only in the lower grades of flowers, and a few shrewd gentlemen who have taken cognizance of that fact have become speculators to the extent that they buy up only in the cheaper grades of stock, just the kind of goods the Greeks use mostly in their business, and in selling this class of stock to the Greeks make quite a profit on it. The Greeks believing that they can get along to better advantage if the speculators were out of business, are organizing to that end; and while we have no exact information as to who is at the head of the movement, we have been informed that within the next three or four months a fund of \$30,000 will have been subscribed, and the association as a flower buying one will be fairly launched. This may be a dream or it may become an actuality—time alone will tell.

Fleischman, the retail florist, is sending out a paper weight to his friends, which is much admired by all who receive it. The weight is of glass, and enclosed therein is a reproduction in color of one of the most beautiful flowers in creation—lovely woman. The reverse side holds the advertisement of the various stores operated by Mr. Fleischman in New York, Chicago, London, Paris and Berlin.

AURORA, ILL.—J. Smely is out \$8.50 in cash and \$2 for flowers, as the result of a worthless check passed upon him by a swindler.



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....Send for Particulars....
REGARDING

Tobakine Products
"THEY KILL BUGS"

"Flowers and Profits"

is a profitable and interesting booklet.
E. H. HUNT, General Agent
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Sheep Manure
Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.

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Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

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LONG ISLAND CITY N. Y.

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IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

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FREE HOSE

trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipe. Send for Free catalogue "Ray" Boilers, Ventilating apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY COMPANY,
244 Finton Street, New York City
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Bloom Saver

For PROOF!

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For Greenhouses, Graperies, Hot Beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.

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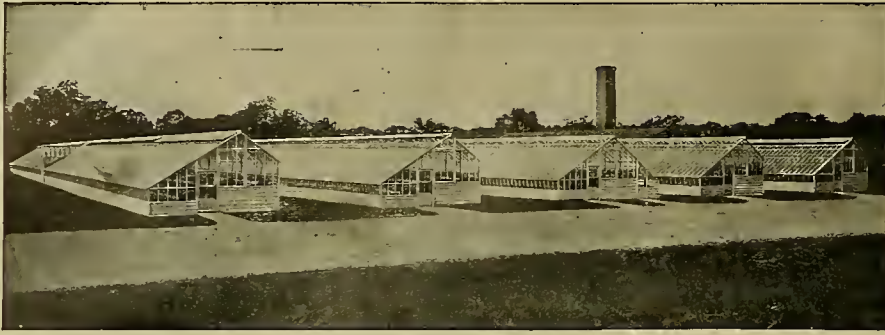
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Glazing Points are the best. No rights or lefts. Box of 1,000 points 15 cts. postpaid.
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Evans Improved Challenge
Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
Write for catalogue and prices before placing your orders elsewhere.
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Mention the Florists' Exchange when writing.

STANDARD Pumping Engines
do not require the services of a high-priced engineer. Each person runs his own. Illustrated catalogue on request.
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CLEVELAND, O.
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VIOLET CULTURE
Price, \$1 50 Postpaid
A. T. De La Mare Ptg. & Co. Ltd., New York



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of the various firms in their big type claims of "best on earth," "none as good" and all that sort of thing, which by itself actually means nothing—proves nothing! Now there may be any number of firms who turn out good materials—but good materials do not necessarily make good greenhouses—it's a matter of both materials and the form of construction—any one can mill materials—but it takes years of experience to test them out—to know the best thing for the purpose—and when it's best, keep making it better—we do say we have the most up-to-date materials—and we do believe there's no one takes quite the care in selecting them.

HITCHINGS & COMPANY

GREENHOUSE DESIGNERS AND BUILDERS
Manufacturers of Heating and Ventilating Apparatus

1170 BROADWAY, NEW YORK



Heating.

I would feel much indebted to you for your advice in connection with my heating proposition. I enclose a sketch of the houses, A, B and C and boiler room have been built two years, and I am adding D, as shown on the plan. D will be 300 feet long and 41 feet 10 inches wide; south wall arranged for building future houses in that direction, and of the same length. I employ raised benches throughout. Houses are of standard construction, even span, side walls 6 feet high. I intend using steam and 1 1/4-inch pipe for coils. I will install two new horizontal tubular boilers of ample capacity and would like to have your advice as to size and layout of mains and coils. As my cellar is only 4 feet 10 inches below the grade of the houses and cannot be changed on account of water and drainage, I do not know whether to use a steam return tray or not. The old plant (A, B and C) has a hot water system which I will take out and rearrange for steam according to your advice. Would a vacuum system be profitable and easily managed in this case? If so, where could I get details for installing one?
G. M. D.
Indiana.

Your present three houses will each require ten lines of 1 1/4 inch pipe for steam, also each need a 2 inch overhead steam supply line to the far end. If you divide the above ten lines into three coils each, feed each with 1 1/4 inch steam connection from main, making the return from each coil 1 inch. While speaking of "lines" in each coil, it is well to say that it is advisable to put valves on each line at both ends, so that the heat may be regulated by shutting off as many lines as you can do without in the milder weather. This end of the subject has been treated of in many previous numbers of The Florists' Exchange, where you can get further details. Of course, you must also place valves on the steam and re-

turn connection to each coil. The new house D will require 20 lines of 1 1/4-inch pipe; but as you have not given any bench plan of the house, I cannot very well lay out the coils. The main steam line to D should be at least 5-inch with a main return 3-inch. If these are run in direct line from the boilers, it will be well for you to divide up your coils, say with 100 foot coils running west and 200 foot coils running east. This is much better than running coils the entire 300 feet in length.

While on the question of mains, it may be well for you to consider your future building, which you say you may put on the south side of D. You could run a 7-inch steam main now, with a 4-inch return, leaving plugged tees in D in such a way that the extension of the mains may be simply and easily made when wanted. It strikes me the extra expense now would be amply returned later. This we have demonstrated many times.

As to using a return trap, if, as you say, you can go down but 4 feet 10 inches below grade for your boiler room, I fail to see how you can avoid the use of some such method of returning condensation to the boilers. The water line of the boilers will probably be above your coils, hence if you do not use a trap, or pump and receiving tank or governor, your coils will remain full of water. Even with cast iron sectional steam boilers having the lowest water line I know of, you could not run a gravity system very successfully. There are many good return traps in the market, any one of which can easily fill your bill. These, however, require careful setting, and it will be well for you to follow very closely the instructions of the maker you select. A favorite method with many for returning condensation to boilers is through receiving tank and dump. Most pump manufacturers supply these, and descriptions of them are found in their catalogue of pumps.

I regret to say that I have not installed a vacuum system in any extensive range of glass houses as yet, though we have done so in other classes of buildings, and have used appliances made by different concerns, and under different patents. These are in the main very satisfactory and economical. I know there are quite a few large plants in use under glass in Massachusetts and am told they work very well indeed. The following firms will I am sure forward you all particulars with regard to their systems: Paul System Company, Fuller Building, New York; Warren Webster & Company, 17 State street, New York, and the Norwall Manufacturing Company, of 104 West Forty-second street, New York.

I presume it is unnecessary to caution you to protect your main lines from the boiler room to house D. It might be well for you to bring your main return from D back to boiler room through houses C and B, and you could possibly run your main steam line by that route also. This would give you the least possible outdoor exposure of mains. However, as you have sent me no elevation plan, this scheme may not be practicable as to the steam main, for reasons that I do not now see.
U. G. SCOLLAY.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.

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IF so, now is the time to take up this important question. **I**T is only to your own interests to let me figure on your requirements.

YOUR work will be designed and erected by practical mechanics. **Y**OU will be satisfied in figures as well as results. **Y**OU can have testimonials of hundreds of satisfied patrons, in all parts of the country, by writing us.

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Hot Bed Sash

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Washington Red Cedar

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OUR GRADE INVARIABLY THE BEST, OUR PRICES RIGHT.

Write for Catalogue and Estimate when figuring on your new houses.

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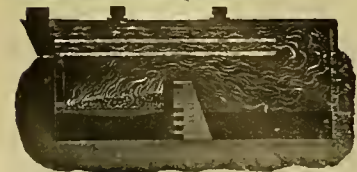
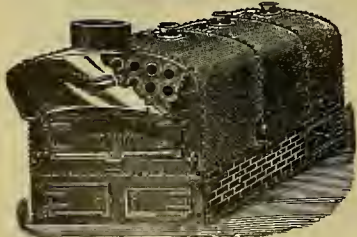
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KROESCHELL BROS. CO.

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Greenhouse Boiler

33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebrick sheets and heads of steel, water space all around front, sides and back. Write for information.

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WE not only build U-Bar Greenhouses—but we equip them. Done in a way that just pleases the owner, while meeting in every way the smallest desire of the gardener. U-Bar Greenhouses are the best greenhouses built because from foundation to ridge they are the most durable and best equipped houses made—and we stand ready to prove it. Send for U-Bar Catalog. Pierson U-Bar Co., Designers and Builders of U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23d St., New York.

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Your Money is well spent when you advertise in
THE FLORISTS' EXCHANGE

I HAVE A HOUSE

that I am proud of. "This came from 'Old Vermont' and Mr. C. F. Gibbs of St. Johnsbury was the writer." "The cypress material that you sent was first-class in every respect and all my future orders will be yours." "The Chicago Ventilator Lifter is acknowledged by all who have seen it to be the best they ever saw." It will be worth your while to get our figures though you do live in the east—or anywhere else.

JOHN C. MONINGER CO.
115 E. Blackhawk St., CHICAGO

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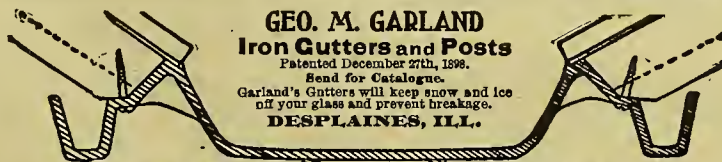
ARE YOU GOING TO BUILD

Assure yourself of **HONEST COMPETITION** figures by obtaining an estimate from me on Iron Frame or Sash bar greenhouses. My prices are the lowest for the best class of work.

FRANK VAN ASSCHE

(FORMERLY SUPT. FOR WEATHERED)
FACTORY: Fulton and Rose Ave., Jersey City, N. J.

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A sample of this gutter is on exhibition at Chicago Flower Growers' Market.
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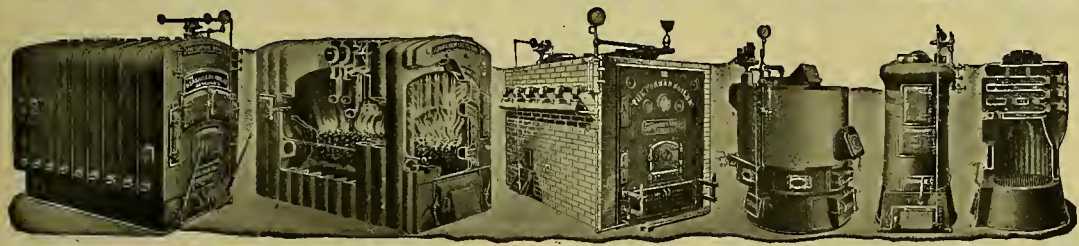
IS THE BEST
WE HAVE LOTS OF IT
SEND FOR SKETCHES
ESTIMATES AND FREE
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FURMAN BOILERS FOR GREENHOUSE HEATING



Valuable Catalogue on Modern Steam and Hot-Water Heating, mailed free upon request. Address
THE HERENDEN MANUFACTURING CO.
288 Pearl Street, NEW YORK. Dept. F. GENEVA, N. Y.

Furman Boilers have been awarded the Certificate of Merit at Five different Florists' Conventions. Have a record of 20 years. Over 25,000 in use.
SELLING AGENT: EDW. S. DEAN, Bloomington, Ill.

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The STANDARD VENTILATING MACHINERY
The original machine with self oiling caps; the most powerful, least complicated very compact, with ease of operation.
The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market.
The standard Return Steam Trap has no equal for simplicity or its working. Catalogue free.
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GOING TO Build a Greenhouse?

Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.

The A. T. STEARNS LUMBER CO.
Boston, Mass.



WHOLESALE TRADE LIST

ASPARAGUS PLUMOSUS, 2 1/4 inch pots, \$3.00 per 100. 3 in. pots, \$5.00 per 100.
 BOSTON FERNS, 5 in. pots, 20c. 6 in. pots, 25c.
 OLEMATIS PANICULATA, 4 in. pots, \$1.50 per doz.; \$10.00 per 100; 5 in. pots, 75c. per doz.; \$5.00 per 100.
 DRACENA INDIVISA, 5 in. pots, \$2.00 per doz.
 GERANIUMS, Rooted cuttings from soil, \$2.00 per 100.
 GERANIUMS, best varieties from 3 in. pots \$4.00 per 100.
 IVY, Hardy English, 3 in. pots, \$5.00 per 100; 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
 SANSEVIERA (Zebra plant), 4 in. pots, strong, \$1.50 per doz.; 3 in. pots, \$1.00 per doz.

C. EISELE, 11th & Roy Streets, PHILADELPHIA, PA.
 Mention the Florists' Exchange when writing.

WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses
 Greenhouse Heating and Ventilating Apparatus.
P. O. Address, Box 789,
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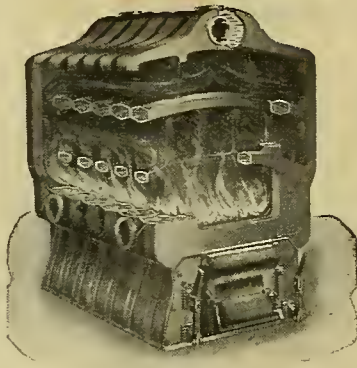
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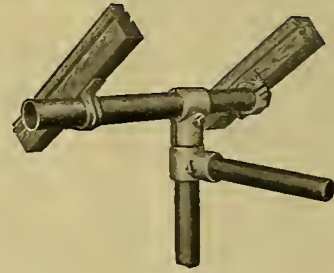


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is the verdict of one of the largest rose growers who placed two of these GREENHOUSE BOILERS instead of two others of well known make.
 Estimate furnished for heating plants erected complete, or for material only.

JOHN A. PAYNE

Horticultural Architect and Builder
 33 Clendenny Ave., Jersey City, N. J.
 Sash opening apparatus and all kinds of greenhouse structural material.
 Mention the Florists' Exchange when writing.



This shows exactly how our Interchangeable Clamp Column Fittings are used.

HERE IS EXACTLY THE WAY WE USE our interchangeable Clamp Column Fittings

in that Giant Arch we have been telling you about lately. See how the Purlin is secured to the Gable Bar by that Purlin Clamp—how every Sash Bar is firmly fastened to the Purlin by the heavy Purlin Clasp—that the Column Fittings are split and tightened together by a single strong bolt, making them easily adjustable. The whole thing is a most convincing argument of the strength and neatness of this combination of 1 1/4 inches Purlin, Column and Cross Tie, forming a light but absolutely rigid Giant Arch running the entire length of your house. It is not only a matter of strength but a mighty lot of time saved in erecting, and when used with our Cast Iron Foot Pieces, makes a certainty of perfect and easy line up of your roof.

Lord & Burnham Co.

Greenhouse Designers and Manufacturers
 1133 BROADWAY, cor. 26th St., NEW YORK.
 BOSTON BRANCH: 819 Tremont Building.

It's this way—we sell you the house complete or any fitting or part of it you want—but whatever you do, use these Column Fittings and have the Giant Arch, then you can be sure your house won't spread. Remember we sell everything for greenhouse building. Write for prices.



"The test of years is the real test."

Scollay Boilers

ARE BEST

See our advertisement in next issue. Catalogues sent on application.

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 BOROUGH OF BROOKLYN,
 NEW YORK CITY.
 Telephones 1492-1493 Main.
 U. G. SCOLLAY, Manager.

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A. HERRMANN

Manufacturer of Floral Metal Designs

IMPORTER AND DEALER IN FLORISTS' SUPPLIES

FACTORY: 709 FIRST AVENUE, BETWEEN 40th AND 41st STREETS, NEW YORK

OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.

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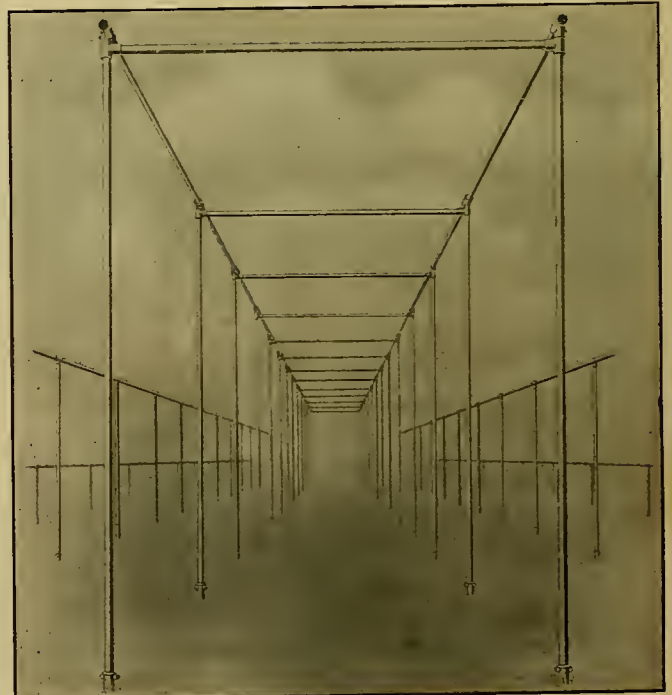
THE FLORISTS' SUPPLY HOUSE OF AMERICA

**EASTER BASKETS
 EASTER NOVELTIES**

SEND FOR CATALOGUE.

H. Bayersdorfer & Co., 1129 ARCH ST., PHILADELPHIA, PA.

Mention The Florists' Exchange when writing.



When you compare our estimate with the other fellow's, just keep in mind that our price includes all these iron parts.

Mention the Florists' Exchange when writing.

THE FLORISTS' EXCHANGE

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

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

Vol XXIII. No. 6

NEW YORK AND CHICAGO, FEBRUARY 9, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention. Won first prize for best 100 pink

We have not advertised Winsor until now because we have not had to. It is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise, for the present, February delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time do-

ing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Echoatress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Echoatress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR. We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. February delivery, \$12.00 per 100, \$100.00 per 1000.

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

Mention the Florists' Exchange when writing.

GRAFTED ROSES



WE are now booking orders for early delivery of Richmond, Killarney, Bride, Bridesmaid, Wellesley, Liberty, Kaiserin, Carnot and Bon Silene.

Now is the time to get *Kaiserin Augusta Victoria* for early summer flowering. I have a large quantity of 2 1/4 inch own root stock now ready for shipment.

SEND FOR PRICES

W. H. ELLIOTT, Brighton, Mass.

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Vaughan's

Asparagus

Plumosus Nanus

Northern greenhouse grown. Large, plump, freshly picked seed, sure to grow. 100 seeds 65c., 250 seeds \$1.25, 1000 seeds \$4.50, 5000 seeds \$21.00. 2% discount for cash with order.

Florists Flower Seeds

THE BEST IN AMERICA. NEW CROP

For a complete list, also Bulbs, Plants, Supplies, etc., send for

VAUGHAN'S BOOK FOR FLORISTS

Free to florists on application.

TUBEROUS BEGONIA, Finest Strain, Large Bulbs, Separate Colors.

Single White, Scarlet, Pink, Salmon, Yellow	Doz.	100	1000
Single mixed	\$0.40	\$2.50	\$22.50
Double mixed	.30	2.25	20.00
Double White, Scarlet, Pink, Salmon, Yellow	.50	4.00	37.50
	.65	4.75	45.00

CLOXINIA

Named kinds, separate colors	.50	4.00
Mixed	.40	3.50

Vaughan's Seed Store

14 BARCLAY ST. NEW YORK

CHICAGO, 84-86 Randolph Street, Greenhouses, Westero Springs, Ill.

Mention the Florists' Exchange when writing.

FUCHSIAS

Black Prince	Minnesota	Elm City
Mrs. Gladstone	Lieut. Mauritz	Rose Phenomenal
Marinka	White Phenomenal	Minister Boucher
Speciosa		

\$2.50 per 100, Our selection 6 var. 1000 for \$20.00

Hardy Pompon Chrysanthemums

Large Flowering or Aster Varieties	\$3.00 per 100
Small Flowering or Button Varieties	\$2.00 per 100
1000 our selection of 50 varieties all sorts for	\$20.00

Miscellaneous Greenhouse Plants

Ageratum, Inimitable	Per 100	\$3.00	Hardy English Ivy, extra strong	Per 100	\$2.00
Ageratum, Stella Gurney	2.00		Panicum Variegated, for hanging baskets	2.00	
Ageratum, Dwarf White	2.00		Senecio Scandens, Parlor Ivy	2.00	
Alternanthera, Red and Yellow, 5 var.	2.00		Tradescantia, Dark Variegated	2.00	
Begonias Vernon, White and Pink	2.00		Dahlia Roots, mixed	4.00	
Lemon Verbena, Aloysia Citriodora	2.00				Cash with order.
Lobelia, Crystal Palace Gem	1.50				

A cordial invitation is extended to all interested in Horticulture to visit us. Cowenton Station, Philadelphia division, B. & O. R. R., 12 miles north of Baltimore.

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

Mention the Florists' Exchange when writing.

Valentine Day Items



Asters Queen of the market, mixed per oz. 50c.
Asparagus Plumosus Nanus..... 1000 seeds \$4.50
 Sprenger!..... 1000 seeds 75c.
Begonia Vernon, fine strain, trade
 pkt. 25c., Oz. \$2.00
Bellis Perennis, double..... trade pkt. 25c.
Candytuft Empress..... per oz. 20c.
Cantarus Gymnosus..... per oz. 35c.
Golden Feather, dwarf selected..... per oz. 40c.
Lobelia, Crystal Palace Compacts, true, trade
 pkt. 25c.
Petunia Grandiflora, extra choice single mixed,
 trade pkt., \$1.00.
Petunia Grandiflora, superb fringed mixed, trade
 pkt., \$1.00.
Phlox, choice mixed..... per oz. 40c.
 Dwarf..... per oz. \$1.25
Salvia Bonifera..... per oz. \$2.50
Stocks, Ten Week, dwarf, large flowering, mixed
 trade pkt. 25c.
Verbena Mammoth white..... trade pkt. 15c.
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STERILIZED SHEEP MANURE

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Salvia Splendens Grandiflora..... 1-8 oz. Oz. \$0.26 \$1.60	Salvia Splendens Maroon Prince..... 1-8 oz. Oz. \$0.75 \$5.00
" " Compacta..... 40 2.00	" " Fire Ball..... 75 5.00
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SALVIA ZURICH. Per original Pkt. 20c.

This Salvia is fully two weeks earlier than "Firehall" and is very compact. Excellent for a pot plant and for forcing. Retains its flowers for a long time. One of the best novelties of this season. Our Seeds are absolutely fresh and of high germination.



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PACIFIC SEED GROWERS' CO.
 109 MARKET STREET
 SAN FRANCISCO, CAL.
 Specialties:
 Onion, Carrot, Lettuce, Sweet Peas

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New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

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Lily of the Valley Pips
 BEST POSSIBLE GRADE
 1000 in case, @ \$12.00 per 1000.

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Rocky Mountain Columbine
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SEED—1 oz. \$1.00; 1/4 lb., \$3.50; lb. \$12.00 by mail.
 ROOTS—4 and 5 year old, doz. \$1.25; 100 \$8.00, by express.

Order from headquarters.

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VERBENA MAMMOTH

COLORS or MIXED.....oz. \$.75
Petunia Double Large Fl. Fringed, t. pkt. 1.00
 Single Large Fl. Fringed, t. .50
Salvia Splendens.....oz. 1.00
Stocks Large Fl. 10 Weeks.....t. pkt. .25
 Dwarf Snowflake..... .25
Begonia Dwarf Vernon..... .25
 " Vulcan..... .25
 " Erfordia..... .25

W. C. BECKERT,
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Ageratum, Blue Star, the best of all for pots. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
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Begonia, Gracilis Luminosa, a fine bedder, new with large bright scarlet flowers and ball-shaped habit, unexcelled for pots and outdoors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
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Phlox, New Cecily, the very best large flowered, real dwarf, compact. Drum. Phlox for pots mixed colors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
Salvia, bonifera. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Salvia, Firehall, this is a new, real dwarf compact early flowering, fine variety and there is hardly a better one for pots. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
Verbena, Mammoth unexcelled strains; as *Auricula* flowered, *Scarlet Striped*, *Pink*, *Purple*, *White*, each separate. Oz. \$1.50; Trade Pkt. 25c.
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Per doz.	Per 100	Per doz.	Per 100
Double Rose.....	\$6.65 \$5.00	Single, Scarlet.....	\$0.40 \$2.50
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" Salmon.....	.65 5.00	" Rose.....	.40 2.50
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Doz. 100			
Emperor Frederick.....	\$0.75 \$5.00	Prince Mathilda.....	Doz. \$0.75 \$5.00
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SEEDS WHICH SUCCEED

THIS MEANS LANDRETHS' SEEDS GROW AND ARE GOOD

Mention this paper when you write.

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Let us help you make your planting a success. Our seed experience of over fifty years enables us to give you expert advice on the raising of various vegetables. This you will find scattered throughout our catalog. You need good seed to start with. We raise and sell only that kind, and guarantee all we sell to be fresh and reliable. Catalogue Free. I. J. H. GREGORY & SON Marblehead, Mass.



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Salvia "Bonifera", Finest variety grown, brilliant scarlet and compact. 1000 seeds, 40c.

CASH. Extra count of seeds in all packets.

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Mignonette "New York Market"
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 (Greenhouse Grown)
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25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants ready to bloom, \$1.00 per 100; \$7.50 per 1000, by express only. Second size, strong plants, 100 by mail, 60c.; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

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 Grower of the Finest Fancies

FREE STOCKS FOR EASTER FREE

Large flowering, Ten week stock, dwarf bouquet, 80-90 per cent double; the finest strain for forcing and pot plants; sells at sight. "F" Snowflake, white, Imperial, blue; Triumph, scarlet; strong plants from 2-4 in. pots. \$2.50 per 100; \$20.00 per 1000. "F." Each color separate or mixed. Trade package of seeds from the above strain 3 colors, goes free with every order for 100 plants.

SHELLROAD GREENHOUSES, Grange, Baltimore, MD.

JAPAN LILIES HIGH GRADE BULBS

AURATUM Per doz. Per 100	MELPOMENE (Spec.) Per doz. Per 100
8-9 (130 bulbs to case)..... \$0.70 \$5.00	8-9..... \$1.00 \$7.00
9-11 (100 bulbs to case)..... 1.50 8.00	
RUHRUM (Spec.) 1.00 6.00	ALBUM (Spec.) 1.00 7.00

TUBEROUS ROOTED BEGONIA BULBS.	SPLENDID BULBS.
Single, separate colors, Scarlet, Crimson, Rose, White and Orange..... \$0.35 \$2.50 \$28.00	Per doz. Per 100 Per 1000
Single, choice mixed..... .30 2.25 22.00	
Double, separate colors, same as above colors..... .60 4.25 38.00	
Double, choice mixed..... .50 1.00 35.00	

GIANT FLOWERING GLOXINIAS.	EXCEPTIONAL QUALITY.
Separate colors, Spotted, Red, White, Blue, Red with white border, and Blue with white border or mixed..... \$0.50 \$4.00 \$35.00	Per doz. Per 100 Per 1000

Send for our list of up-to-date Sweet Peas. Headquarters for Mushroom Spawn—write for prices. Send for our Florists' Wholesale List.

JOHNSON SEED COMPANY, 217 Market St., Philadelphia, Pa.
Herbert W. Johnson of the late firm of Johnson & Stokes, President
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AGERATUM Mexicanum, blue. \$0.10 \$0.25	PHLOX Drummondii, tall. Tr. pkt. Oz. .25 .75
Mauve Beauty, exquisite.15 .50	“ Dwarf.25 1.75
ALYSSUM, Little Gem...... .10 .30	PRIMULA Obconica, white...... .25 .75
ANTIRRHINUM, Snap dragon, in separate colors, white, scarlet, rose, black, yellow, striped...... .15 .40	“ Rosa...... .25 .75
ASTERS, all sorts (Send for our Catalogue)..... .25 .75	“ Bright red...... .25 .75
BEGONIA, Semperflorens Vernon CANDYTUFT, White Hyacinth, Giant...... .10 .25	“ Mixed...... .25 .75
COBEA Scandens...... .15 .70	STOCKS, Beauty of Nice, white, Queen Alexandra, rose, 10 Weeks, the finest mixed...... .25 .75
HELIOTROPES, in sorts.40	SALVIA SPLENDENS, Triumph25 2.50
LOBELIA, Crystal Palace.25 1.50	“ Bonfire.25 2.50
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DIANTHUS Heddewigii, in many sorts.15	All colors mixed..... .25 1.00
PETUNIA, frilled and fringed, single.25	ASPARAGUS Plumosus Nanus 100 1000
Fringed, double, 1000 seeds, \$1.5075	Seed, genuine greenhouse..... \$0.50 \$3.50
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BULBS Which Should Be Started Now

SINGLE TUBEROUS BEGONIAS, fine plump bulbs, 1 1/2 inch, white, bluish pink, deep rose, yellow, scarlet, crimson, new copper color. \$0.40 \$2.50 \$22.50	12 100 1000
All colors mixed, 1 1/2-2 inch..... .35 2.25 20.00	
DOUBLE TUBEROUS BEGONIAS, separate, 1 1/2-2 inch, pure white, rose, scarlet, crimson, yellow, orange...... .60 4.50 40.00	
Mixed, all colors..... .50 4.00 37.50	
GLOXINIAS, 1 1/2-2 inch, fiery red, pure white, spotted blue, violet, purple, red with white border, blue with white border...... .60 4.00 37.50	
All colors mixed, 1 1/2-2 inch..... .50 3.50 30.00	
GLADIOLI, exceptional fine strain, white and light...... .30 2.00 17.50	
GERMAN IRIS, force for Memorial Day...... .75 6.00	

Named sorts (Send for List).
SEND FOR CATALOGUE.

H. H. BERGER & CO.
47 BARCLAY STREET, NEW YORK.
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GLADIOLI
Beautifully illustrated catalog, colored plate, etc., describing GROFF'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM, BERLIN, N. Y.
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C. C. Morse & Co.
SEED GROWERS
171-173 Clay St., San Francisco, Cal.
ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
Warehouses, Santa Clara. Farms and Farm Headquarters, Camadero, near Gilroy
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IF YOU NEED
Summer-Flowering Bulbs
German or Japan Iris,
write us for prices. We have the stock and can give you satisfaction.
JOHN LEWIS CHILDS, Floral Park, N. Y.
Mention The Florists' Exchange when writing.

Augusta Gladiolus
First size, 1 1/2 and up..... \$12.00 per 1000
Second size, 1 1/4-1 1/2..... 8.00 per 1000
Cash with order. Satisfaction guaranteed.
Rowehl & Granz, Hicksville, L. I., N. Y.
Mention the Florists' Exchange when writing.

If you have not received our florist list, write us; we will mail it.
H. E. FISKE SEED CO.,
12 & 13 Faneuil Hall Sq.
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PLANT CULTURE PRICE \$1.00
THE BEST BOOK FOR THE PLANT GROWER.
A. T. DE LA MARE PTG. & PUB. CO. LTD., 2-8 DUANE STREET, NEW YORK

ASTER SEED

Our descriptive price list of High Grade Aster Seed is now ready and will be sent free on application. Try our new varieties: **CARDINAL, SUNSET and ROSY CARMINE BRANCHING**; they are winners. Price per packet, 25c.; two packets for 40c. Pointers on how to grow **ASTERS** successfully sent free with every order.

VICK & HILL CO.
P. O. Box 613 ROCHESTER, N. Y.
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ASPARAGUS SEED
1906 CROP 100 1000
Plumosus Nanus, True...... 50c. \$3.50
Sprengeri...... 15c. .75
Cycas Revoluta Seed...... \$2.50 22.60
Headquarters for all the best flower seeds. 100-page seed buyer's guide free.

MOORE & SIMON, Seed Growers,
339 Market St., Philadelphia
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A. J. Pieters
Seed Company
HOLLISTER, CAL.
GROWERS OF
Vegetable and Flower Seeds
Special attention paid to selected stocks
A. J. PIETERS, President and Manager.
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CYCLAMEN SEED

The best commercial large flowering strain in the following colors at 75 cents per 100 and \$6.00 per 1000: **Blood Red, Bright Light Red, Bright Rose, Pure White, White with Carmine Eye.** The following at \$1.75 per 100, \$15.00 per 1000: **Lilac, Rubin, Salmon.**

PERENNIAL GARDENS CO., - TOLEDO, O.
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S. M. ISBELL & CO.
JACKSON, MICH.
Seed Growers for the Trade
BEANS, CUCUMBER, TOMATO,
Radish, Peas, Muskmelon,
Squash, Watermelon, Sweet Corn.
We are now hooking orders for 1917. Fall delivery. Send for Contract Prices also surplus List.
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75,000 Gladiolus Bulbs
to 1 1/2 inches \$2.00 per 1000; Larger sizes at proportionate prices; all very fine light mixed Lemmons and Gandavensis. Cash with order.
I. & J. L. Leonard, Iona, N. J.
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Lambert's Pure Culture
Mushroom Spawn
Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized.
Has never failed to run. Sold by Leading Seedsmen.
Practical instructions on "Mushroom Culture" mailed free on application.
American Spawn Co.
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"AULD LANG SYNE"
"Should old acquaintance be forgotten?" Certainly not nor should you neglect becoming acquainted with **Manuel, the Dahilia Specialist,** of Newport, R. I. Largest and finest collection in America. Send for catalogue.
EDWIN S. MANUEL, 19 Walnut Street
Newport, R. I.
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BARGAINS

100,000 **Roses**, 2 1/2 in. pots.
100,000 **Shrubs** for transplanting.
50,000 **Viburnum Plicatum**, 18 in. to 6 ft.
50,000 **Large Privet**, 4 to 6 ft.
600,000 **Herbaceous Plants**, field grown or pot plants.
Send for wholesale list.
ELIZABETH NURSERY CO., Elizabeth, N. J.
Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
Henry W. Wood, Richmond, Va., president; C. S. Burgo, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

CHARLEVOIX, MICH.—The seed companies are putting out solicitors for acreage this year, a thing they have not usually done in this section.

SEDALIA, MO.—Mr. and Mrs. L. H. Archias of Archias Seed Store are the proud parents of another baby daughter, born Monday morning, January 23.

SPRINGFIELD, O.—Every department of the Superior division of the American Seeding Machine Company is being operated with a large force of men. The officers say that the outlook for trade is most encouraging. In fact they say that the indications are that it will greatly exceed that of last year, which was one of the banner years.

PENNSYLVANIA SEED TRAIN.
—Arrangements have been completed for running a special seed corn train over the Pennsylvania lines in Indiana by the Purdue University experiment station. This run will include the Vandalia and the Grand Rapids and Indiana roads. The train will start February 25 over the Effner and Logansport division, and will continue on the trip fifteen days, covering 1,500 miles of the Pennsylvania system in the State. More than one hundred and sixty-five stops will be made, at which lectures will be given and printed literature distributed.

IMPORTS OF SEEDS, etc.—January 23, 1917.—Davies, Turner & Co., one case seeds; H. Frank Darrow, 7 bags seeds, one cask seeds; Peter Henderson & Co., one case seeds; T. W. Pollock, one case flower seeds; Towns & James, 10 bags seeds; Vaughan's Seed Store, three cases flower seeds; American Express Company, two bags seeds.

January 31, 1917.—J. P. Róosa, one case seed; H. Frank Darrow, 11 bags, six cases and one bale seed.

February 2, 1917.—Peter Henderson & Co., one case bulbs.
February 2 and 3.—J. A. Leigan & Company, one case live plants; Brown Bros. & Company, 710 bags of seed; Buck & Jevins, one case orchids.

February 1, 1917.—Lazard Freres, 250 bags mustard seed; A. W. Fenton, Jr., one case flower seed; Peter Henderson & Company, two packages seed; J. M. Thorburn & Company, 50 cases Lily of the valley pips; Vaughan's Seed Store, 11 packages seed; American Express Company, 76 bags seed, 380 bags clover seed.

A FUTURE NEED—PERHAPS.—Congress having determined to continue the distribution of free seeds, it is believed that next year the issue will be 100 million packets and that in a short time 500 million packets will be the annual normal output.

Congress foreseeing that this absolute necessity for free seed distribution, forced by clamorous constituents upon them, will break up many regular seed firms, is considering the establishment of "Seedsmen's Poor Houses," one located at Atlantic City, one near St. Louis, the other near Chicago. At these National Homes broken-down seedsmen will be supported so far as will go an annual appropriation of \$150 to each man who can, with unquestionable testimony, say that he was once a proprietor of a seed house, either wholesale or retail.

CHICAGO.—Owing to the short crop of California onion seed, large quantities of Louisville seed have been shipped to this market, four or five tons, at least, of this stock already having reached here. It is reported, however, that this seed is not proving altogether satisfactory in testing, in some cases running as low as 40 per cent. There are still some seeds left, held by strong parties at a high price.

Contrary to earlier prophecies, most everything in the garden seed line will be in sufficient abundance to go around, although it is claimed that certain varieties are still more or less in hiding. A genuine scarcity unquestionably exists in some varieties of peas, radishes and California onion seed, but to what extent the shortage will affect the latter will depend on the demand, which in itself will be largely controlled by the result of the final round-up of the returns on the sale of sets which will not be known before next month.

The several jobbing houses in Chicago are now taxed to their full capacity, and it is stated that the business is earlier, with a good prospect of being larger than ever before.

A. G. Brown of Grand Rapids, Mich., was in Chicago this week. One of the leading houses reports a fair supply of onion sets yet on hand which are holding strong at \$1.75 to \$2 per bushel for yellow and red and \$2.25 per bushel for whites.

Although it is a little early to make predictions on the Bermuda crop of Harrisburg bulbs, it is noted in reports reaching here that the growers as usual are firm in their demands as to price. W. K. W.

GOVERNMENT SEED DISTRIBUTION.—There is ground for belief that the Senate Committee will adopt the provision of the Department of Agriculture confining the distribution to really new, rare and valuable seed. Those interested should help to secure such action by Congress, otherwise the public money will be wasted for years to come in the distribution of seed wholly worthless as far as adding anything to the general knowledge of agriculture is concerned.

A prominent member of the Seeds-men's League and of the American Seed Trade Association says in regard to continuing the fight against the free seed distribution: "My individual impulse will be to drop the matter in disgust. Thirty years ago I took over from my father his active opposition against the free seed distribution, which opposition by him had extended since 1850. I have spent considerable money and an immense amount of time and thought, and am now ready to give it up as a bad job."

RIDICULING THE FREE SEED GRAFT.—The Boston (Mass.) Advertiser of January 30 says: Congress has again listened to the wails of the seedless. Ringing in the congressional ears was the piteous plea:

Give me three grains of corn, uncle,
Or three grains of anything;
It will keep the little life I have
Till the coming of the Spring.
Make it three grains of oats, uncle,
Or even a sunflower pip.
Or anything else that will sprout and grow—
A seed, or bulb or slip.

So we have the free seeds over again, with its deluge of foolish seeds and bulbs. Bad habits are always the hardest to cure, and the free seed habit sticks like a burdock. Why not also distribute appliances for sweeping under the furniture, or directions for making a self-building kitchen fire, or something that will button the feminine waist in the back? If the government is to give away fool things, why stop at free seeds?

Referring to the remarks of Representatives Clayton and Candler in regard to Congressmen supplying the "pretty girls," and "white-haired old ladies" with flower seeds, the Philadelphia Press says:

"The pretty girls (Heaven bless 'em!) do not have to send a message to Congress every day to get what they want. The chivalry of the land is assembled there to do their bidding. When they have tired of free flower seeds they can have free ostrich plumes, bangles, garter buckles, hair combs, hatpins and possibly bundles and bundles of lingerie. There won't be any reason why this benevolent policy should stop until every pretty girl in the country gets her Spring hats, Fall hats and all the other things she needs, including a wedding trousseau, under a congressional frank. Pretty girls like these things better even than they like flower seeds. When the millinery, to turn the gossamer, the tailor-made suits arrive the pretty girls will be made even prettier, and they will look longingly with their bright and smiling faces for the arrival of the daily or perhaps tri-weekly mail from Washington. If they are going to take the blame they ought to get the goods."

European Notes.

A thoroughly relaxing spell of unseasonably mild weather has been followed by an Arctic wave which has frozen everything between York and Constantinople as hard as a brick, or buried it in chilling snow. With the thermometer at 49 degrees Fahrenheit below zero in Austria; six inches of snow in Naples and Rome; nineteen degrees of frost in Constantinople and Nice, 37 degrees colder than Ireland, the weather clerk has beaten the record for the past fifty years. In northern Europe the fall of snow has been insignificant, while a biting wind of exceptional force and severity has not only driven the growers indoors for shelter but has practically destroyed the miserable remnant of their growing crops. As the barometer remains exceptionally high there is no immediate prospect of a change.

Although celery, onions and many of the carrots have already been transplanted, the culture which causes us the most anxiety is cabbage. The acreage of this article was so small at the start that any serious injury to the plants left standing is



Summer Flowering Bulbs

My New Begonias and Gloxinias are in stock and are as fine as any I have ever seen.

Table with columns for Single (1 1/2 inch bulbs) and Double (1 1/2 inch bulbs) for various colors like Scarlet, Crimson, White, Rose, Yellow, and Mixed.

GLOXINIAS, GIANT FLOWERING

Fine, Large Bulbs, Strong and Well Matured, Blue, Red, White, Red with White Border, Spotted and Tigered. Per Doz. 50c. Per 100 \$3.50. Mixed Sorts, Fine, Per Doz., 45c; Per 100 \$3.25.

FORCING VEGETABLE SEEDS

Special Strains for Greenhouse Culture—Cucumber, Cauliflower, Lettuce, Radish, Tomato. Write me Your Wants

Mushroom Spawn. Frequent importations from England. Per 100 lbs. \$6.00. Per 1000 lbs. \$55.00

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

Mention the Florists' Exchange when writing.

much to be dreaded, and the entire destruction of all delicate plants by the blizzard now raging is absolutely certain. This will doubtless be good news to some of your readers who hold heavy stocks, especially as some of these stocks are of such poor vitality that they will soon be unsalable.

As beets and mangels are not yet planted out, we are not concerned for their safety.

Horace J. Wright, having become a trader, has resigned the chairmanship of the Floral Committee of the Sweet Pea Society and his brother, Walter P. Wright, has been appointed in his stead. N. B.—It is a rule of the N. S. P. Society that the chairman of this committee must be an amateur.

The brutal murder of William Whiteley, the multi-millionaire and universal provider, is of special interest to all connected with horticulture. At his stores you could purchase anything from a pin to a continent, with a house, wife and family thrown in as a makeweight; so it is not surprising that the florists' business formed one of his 200 departments. Under the peculiar circumstances of his position his competition with the regular traders was very keen and sometimes unfair, as the special surplus offers periodically issued by him simply killed all chance of making a profit by growers not so fortunately circumstanced. "De mortuis nil nisi bonum" is an excellent maxim for those who observe the golden rule, but the man that "wants the earth" must not be surprised if his methods are severely criticised.

The adjourned meeting of the national Potato Society was held on January 22. There was a very meager attendance of members and the promised efforts to resuscitate the society look like "riding a dead horse."

EUROPEAN SEEDS.

JAPANESE LILIUMS.—There is still a great doubt existing among growers as to which are the best types of longiflorum to handle; only a few are able to distinguish the difference between eximeum, multiflorum, and giganteum (Takesima is another name given by some importers to giganteum). Eximeum is the cheapest and the least valuable, producing fewer blooms, and these are of a thin, poor and watery nature, the petals in some cases almost transparent; the growth is poor and the foliage scant; it does not possess sufficient constitution to retard successfully. In spite of this, however, it is probably used in much larger quantities than the other two sorts, perhaps on account of its cheapness and ease of propagation and cultivation in Japan. Multiflorum is simply an improved and glorified form of eximeum, and is, perhaps, a little difficult to distinguish from it, as its general characteristics are the same, excepting that it is stronger in growth and produces more bloom and of a more robust texture. Its constitution is much superior, consequently it is one of the best for retarding. Sometimes the packers in Japan or merchants here mix multiflorum with eximeum, with the result that the batch

grows uneven, some bulbs growing strong with a good number of perfect blooms, while others are poor in growth with only a few blooms; in the majority of cases the result is put down to weak bulbs or poor cultivation, very few growers knowing they have the two sorts mixed. For really reliable work and for retarding and producing the largest number of the finest blooms, L. long. giganteum is the best, and although its price is a long way above either of the other two, the satisfactory results obtained from it make it really the cheapest and most profitable of all three, at least for late retarding. Its very hardy constitution enables it to withstand the effects of long storage much better than either of the others. The variety can be easily distinguished by having a more or less black stem, the leaves are larger and set wider apart, the growth is stronger, the blooms are larger and have more substance, and are perhaps of a purer white; the back of the bloom is a darker green. Any grower intending to take up the cultivation of liliams on a large scale will do well to give all the varieties a trial so as to make absolutely certain he is getting exactly the sort he desires before investing a large sum of money.—L. L. G., in Horticultural Trade Journal, Eng.

CATALOGUES RECEIVED.

THE TEMPLIN COMPANY, Calla, O.—Illustrated Catalogue of Vegetable and Flower Seeds, Bulbs, Plants, etc. This firm has been "at it" for 43 years. The lines offered are very complete, and the cover designs of the catalogue—collections of irises and fruits—embossed in colors, neat and attractive.

M. H. WALSH, Wood's Hole, Mass.—Catalogue of Roses, Hollyhocks, Phlox, Peonies. Beautifully illustrated. All the new hybrid Wichuraiana varieties are listed, as well as the Polyantha Rambler sorts. A colored plate of Evangelina appears as a frontispiece, with Hiawatha, in color, as a cover design.

BRIDGEMAN'S SEED WAREHOUSE (Rickards Brothers, proprietors), New York.—Illustrated Catalogue of Vegetable and Flower Seeds, Hardy Perennials, Ornamental Shrubs and Vines, Small Fruits, etc. Serviceable tables, showing color, height, duration and hardness of plants and flowers are given. This house was established in 1824, and has been "conducted with an eye single to efficiency and the preservation of a reputation early established for reliability and careful discrimination." The aim of the present firm is to maintain what has been set forth. A carefully selected list of Novelties and Specialties is furnished.

JAMES VICK'S SONS, Rochester, N. Y.—Garden and Floral Guide, 1907. An attractively gotten-up Catalogue of Seeds, Bulbs, Plants, Vines and Climbers, etc., profusely illustrated. A specialty of this firm is Asters, of which an interesting list, including many novelties, is furnished; a colored plate of Vick's "Quality" Aster collection accompanying the enumeration and descriptions of the varieties. The general offerings are, as usual, very comprehensive and complete. The concern tests every variety of seed offered in the catalogue at its farm, located at Despatch, N. Y., and "quality" is always the aim. Also a Wholesale Price List, and an interesting and well-illustrated Pamphlet on the "Vick Quality Aster" containing much useful information on the subject of Asters generally and Vick's varieties in particular.

CANNA ROOTS

Plant now to procure good saleable plants for Spring.

Table listing various Canna root varieties such as Alice Roosevelt, Albion Bouvier, Albion, etc., with prices per doz, per 100, and per 1000.

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Conducted by Joseph Meehan.

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Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

POMOLOGICAL HISTORY OF NEW YORK.—At the last meeting of the Western New York Horticultural Society, the suggestion was made that a committee on pomological history should be appointed, whose duty would be the collecting of records giving the origin and history of important happenings in the pomological world. Such records would take into account the place of origin of important fruits, of the beginnings of important fruit industries, as the planting of the first orchard in any leading fruit region, or the first vineyard in any vine-growing section. New York has an enviable record in the matter of developing varieties of fruits which have been of great value in the orcharding industry of the country. Some of the finest apples in our entire list have been produced within the borders of New York—Esopus Spitzenburg, Northern Spy, Wagner, Primate—and among vines and small fruits the list is very lengthy.

President Wm. Barry appointed a committee to take charge of the work of collecting information on this subject, and the function of the committee will be to ascertain the place of origination of these fine old varieties, and make a report upon the feasibility of erecting tablets or other suitable memorials, which shall properly commemorate the place and time of the origination of these fruits, which have been such important factors in furthering commercial and amateur fruit growing in this country. All persons who are interested in this attractive piece of historical research are requested to send any items of information in their possession to the chairman of the committee, C. S. Wilson, Department of Horticulture, College of Agriculture, Ithaca, N. Y. JOHN CRAIG.

Hardiness of Trees.

Will the following nut trees stand the Winters in open ground in the latitude of New York: English walnut, pecan? Is the persimmon hardy in the same latitude? W. A. M.
New York.

—English walnuts flourish near New York City and along the coast into Connecticut; and even near the lake at Rochester, N. Y., trees of it of good size have been reported. Much the same can be said of the pecan. The persimmon is hardier than the pecan, and no doubt would thrive, as it is native as far north as Philadelphia. But when trees approach the limit of their endurance of a cold climate they rarely bear as satisfactory crops as when in a more congenial climate. J. M.

Pruning the Peach.

I have about fifty peach trees. I cut them back when planted, and they have not been pruned since. They are two years old. Should they be pruned back, like a two-year-old apple tree? W. A.
British Columbia.

—The tendency of peach trees is to grow tall and become bare of branches lower down. As this is not desirable the trees are better pruned. Prune off about a third of the ends of the young branches. At the same time cut away completely such branches as are too close to each other, or that are crossing each other. This will give the trees a good shape. Peach trees become bushy under Summer pruning, just pinching off the ends of growing shoots. The side shoots start to grow at once, making a bushy growth before the Summer ends. J. M.

Horticultural Notes.

Caragana aborescens is a well-known Siberian shrub, bearing pea-shaped yellow flowers, much valued in the Northwestern States, because of its great hardiness. There is one of dwarf growth and handsome large, yellow flowers, *Caragana chamlagu*, from China, but it seems not quite hardy outside of the Southern States.

Juniperus glauca is a variety of *J. virginiana*, and is one of decided merit on account of its gray blue color. The virginiana is our red cedar, and in its wild state it differs much according to locality. Some of its forms in the West bear distinct names; and even the Bermuda cedar is thought to be but a descendant of it, originally from seeds dropped by birds.

The question has been asked whether when selecting wood for grafting, it is better to take from young trees than from older ones. The difference, if any, is not worth considering. To get healthy shoots is the object, such as will make good vigorous growth when they unite with the stock.

Jasminum nudiflorum does better on a northern exposure than on any other, as the flowers are not then enticed to open before frosts are gone, as they are when the plants are in a sunny situation. As a specimen on a lawn this jasmine forms an arched growth of much beauty.

When grapes are to be grafted it should be done below ground, the soil being scraped away a few inches to permit of the operation. When the cion is inserted above ground, failure usually results. After the work is completed only the cion should be visible above ground.

The Seckel pear is such a time in coming into bearing that it is a good plan to work some of it on older bearing trees of any kind. In this way cions become part of the tree, bearing as the rest of the tree does.

In the notes on the *Schinus molle*, which lately appeared, it was mentioned that it is called Australian pepper tree. This is true, but for all that it is not a native of Australia, but of Peru.

The nuts of *Pinus edulis* are still gathered by Indians in Nevada for use as Winter food. The nuts are large and the shells thin. The tree is hardly capable of enduring our Winters, unless well sheltered.

Many of the saxifrages are very early flowering. One wild one, *S. virginiana*, white-flowered, is one of the first to greet us. *S. crassifolia*, from Siberia, has its flower spike ready formed in Autumn, pushes it forward and is in bloom sometimes before frosts have gone. Its flowers are red, and very showy.

When the climate of California is considered it is not strange that so few of the plants from that State do well here. Could we give a dry Summer and rain in Winter, they would receive what they get at home.

Foresters are recommending the short-leaved pine, *Pinus mitis*, for planting for forestry purposes. Excepting the broom pine, *P. palustris*, no better timber pine exists, but persons who propose using this pine in the North should see that seed from Northern trees are obtained, for that from the Southern States would not give seedlings hardy at the North.



Calycanthus praecox
Flowers January 15 or Thereabout
Photo by J. F. Johnston

The effect of atmospheric heat on plants is well illustrated in the case of vines outside of houses, a shoot of which may find its way inside. The latter shoot will burst into leaf in Midwinter, even though the roots be in frozen soil.

Catalpa Kempferi is the small-sized tree with small flowers and slender seed pods, the leaves having a slightly purplish hue. It is a desirable small ornamental tree.

Catalpas for Shade Trees.

The use of the catalpa for avenue planting is occasionally seen, but it is not yet as common as it might be. Some examples of it are in Fairmount Park, Philadelphia; and a few streets on the outskirts of the city have been lined with it. Those in the park are *C. speciosa*, while those in the city are *C. bignonioides*. There seems no good reason for the rejection of the catalpa for such plantings, be it in the city or out of it, especially should the soil be a moist one, which is what these trees like.

There are so many trees used for avenues which are unfit for the purpose, on account of their too heavy growth, that there is good reason for think-

ing the catalpa would become a great favorite were it better known as a street tree. Some have raised the point that the seed pods hanging on the trees all Winter are objectionable, but as the seeds do not fall until toward Spring, this drawback amounts to but little; on the other hand, some regard the pods as objects of interest in the Winter season. It may be said, too, that those who dislike to see the pods might plant the *C. speciosa*, as this species produces but few pods while flowering as freely as the other. It grows taller as well, and this would be considered desirable in some cases.

Mentioning the flowers, the large panicles of catalpas are considered beautiful, and an avenue of the trees in flower would be thought as attractive, almost, as the avenue of horse chestnuts in Bushy Park, London.

One more reason for planting the catalpa is, that it is easily transplanted—something all planters will be glad to know.

Watering Trees in Winter.

Referring to the loss of trees in Winter, how few persons know that it is often largely due to the want of moisture in the soil, yet such is the fact. More than once the writer has watered evergreens in Winter, growing on a dry, sloping bank, because he knew the soil about their roots was very dry. Both evergreen and deciduous trees lose moisture all Winter long, and if moisture in the shape of rain or snow does not fall, it must be provided.

In States subject to high winds, Kansas for one, good-sized trees have been Winter-killed time and again, because of the dryness of the ground. Indeed, one does not need to go to the Western States for examples of this. It has happened here several times when Winters have been cold and dry; even large forest trees suffering. Evergreens suffer the most, because their foliage is transpiring all the time, as well as the wood itself. When rains are frequent in Fall or in Winter, with the ground open, so the water can penetrate it, there is less loss of trees than in seasons of the opposite nature. And when such saturated soil freezes up later and layers of snow cover the ground, this condition is still a further help to trees.

When once it is recognized that trees must have water in Winter as well as Summer—a fact known well enough, of course, but that they are suffering for want of it is not thought of—there will come to mind many ways by which to provide water for them. One way to partly ensure moisture is to mulch the ground about the trees with forest leaves or other material, for it assists not only in preserving moisture but in keeping the ground from freezing hard as well. JOSEPH MEEHAN.

A Very Early Flowering Shrub (*Calycanthus praecox*.)

This is a Chinese or Japanese shrub. It belongs to the natural order of Calycanthaceae. The American species of *Calycanthus* are floridus, glaucus, and occidentalis. The native forms are much better known than this Chinese one, which is very rare to most gardens of this country.

Botanically, the order to which this plant belongs is interesting. It is a small one, consisting of deciduous shrubs of aromatic fragrance with opposite entire leaves, and although closely related to the rose family, yet it has a distant resemblance to the magnolia family.

Those who are acquainted with this shrub know it best probably as *Chimonanthus fragrans*, but recent authorities have styled it *Calycanthus praecox*. Now it is one of the earliest flowering shrubs we have, opening its blossoms in the early part of January; but its flowering in the open is altogether dependent upon weather conditions, so that in the colder districts, where the weather at that time is usually severe, the flower buds fail to expand, remaining persistent in a closed state for some time, then falling to the ground.

At Dorsis, Glen Cove, L. I., where one of these plants grows, during the mild weather of January, 1906, it flowered profusely without any protection whatever. It gives joy and pleasure to see a shrub in full blossom out of doors at that season of the year, no matter how seemingly inconspicuous such flowers may be. The fact of its flowering at such a time endears it to all.

Examine the flowers carefully, botanically, and they will be found most interesting. The sepals, which are generally less conspicuous in most flowers than the petals, are here the prominent parts; in fact, there are no distinct petals. The sepals are arranged in two whorls; the outer ones are of a pale lemon color, thin and wax-like in texture; the inner ones are purplish-brown and striped and are also thin and wax-like. In the center is found a bunch of white stamens. The flowers are very fragrant, having a perfume resembling that of Roman hyacinths.

Calycanthus praecox as a plant is hardy, having nice green opposite leaves. In the colder districts if a little care and attention be given, this plant may be had in bloom in quite severe weather. The shrub should be planted facing south against a wall or similar background so that when Winter comes an improvised greenhouse, of some such material as frame sashes can be constructed readily over it. Within all will be snug, and the plant will open its fragrant blossoms secure from biting Wintry blasts.

One other interesting fact about this shrub is that if sprays with unopened flowers be cut, placed in water, and kept in a dwelling house, the blossoms will expand as do those of forsythia.

Long Island.

JOHN F. JOHNSTON.

Flowering Magnolia
 Altheas
 Spiraea Van Houtte
 Tamarix
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	Doz.	100	1000
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Anstria, 5 ft.	30	1 50	10 00
Burbank, 4 1/2 ft.	30	1 50	10 00
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Mrs. Kate Gray, 6 ft 35	2 25	20 00	
Pennsylvania, 5 ft.	35	2 25	20 00
Italia, 4 1/2 ft.	30	1 75	18 00
BEONCE CANNAS.			
Black Beauty, 5 ft.	50	4 00	35 00
Brandywine, 3 1/2 ft.	35	3 00	25 00
David Harum, 3 1/2 ft.	35	3 00	25 00
Egandale, 3 1/2 ft.	35	3 00	25 00
Grand Bouge, 8 ft.	25	1 50	12 50
Robusta, 7 ft.	25	1 50	12 50
Bronze Queen, 5 ft.	25	2 00	18 00
President Meyers (sub. for King Humbert, gold medal), 4 ft.	35	3 00	25 00
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Martha Washington, 3 1/2 ft.	30	2 00	17 00
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Alba Rosa, 4 ft.	30	2 00	17 00
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All kinds mixed, dwarf 1 00	7 50		
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The Hepburn Pure Seed Bill.

As mentioned in our issue of February 2, a bill (H. R. 25,031) was on January 28, introduced in the House by Representative Hepburn "to regulate commerce in adulterated and misbranded seed, and for other purposes." The bill has been referred to the Committee on Interstate and Foreign Commerce. It is one of great importance to all who deal in seeds, the full text being as under:

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, that the introduction into any State or Territory or the District of Columbia from any other State or Territory or from any foreign country or shipment to any foreign country of any seed which is adulterated or misbranded, within the meaning of this Act, is hereby prohibited, and any person who shall ship or deliver for shipment from any State or Territory or the District of Columbia to any other State or Territory or the District of Columbia or to a foreign country, or who shall receive in any State or Territory or the District of Columbia or any other State or Territory or the District of Columbia or foreign country, and having so received shall deliver, in original unbroken packages, for pay or otherwise, or offer to deliver to any other person, any seed adulterated or misbranded within the meaning of this Act, or any person who shall sell or offer for sale in the District of Columbia or the Territories of the United States any such adulterated or misbranded seed, or export or offer to export the same to any foreign country, shall be guilty of a misdemeanor, and for such offense be fined not exceeding two hundred dollars for the first offense, and upon conviction for each subsequent offense not exceeding three hundred dollars or be imprisoned not exceeding one year, or both, in the discretion of the court.

SEC. 2. That the Secretary of Agriculture shall make uniform rules and regulations for carrying out the provisions of this Act, including the collection and examination of specimens of seed offered for sale in the District of Columbia, or in any Territory of the United States, or which shall be offered for sale in unbroken packages in any State, having been brought into that State from any other State, Territory, or the District of Columbia, or which shall be received from any foreign country or intended for shipment to any foreign country, or which may be submitted for examination by any chief agricultural officer of any State, Territory, or the District of Columbia, or by the director of any agricultural experiment station in any State or Territory, or by any officer of any foreign country, from which such seed is offered for import into the United States, or to which it is offered for export from the United States.

SEC. 3. That the examinations of specimens of seed shall be made in the Bureau of Plant Industry of the Department of Agriculture, or under the direction and supervision of such Bureau, for the purpose of determining from such examinations whether such seed is adulterated or misbranded within the meaning of this Act, and if it shall appear from any such examination that any such seed is adulterated or misbranded within the meaning of this Act, the Secretary of Agriculture shall cause notice thereof to be given to the party from whom such sample was obtained. Any party so notified shall be given an opportunity to be heard, under such rules and regulations as may be prescribed as aforesaid, and if it appears that any of the provisions of this Act have been violated by such party, then the Secretary of Agriculture may at once certify the facts to the proper United States district attorney, with a copy of the results of the analysis or the examination of such seed duly authenticated by the analyst or officer making such examination, under the oath of such officer. After judgment of the court, notice shall be given by publication in such manner as may be prescribed by the rules and regulations aforesaid.

SEC. 4. That it shall be the duty of each district attorney to whom the Secretary of Agriculture shall report any violation of this Act to cause appropriate proceedings to be commenced and prosecuted in the proper courts of the United States, without delay, for the enforcement of the penalties as in such case herein provided.

SEC. 5. That the term "seed" as used in this Act shall include all vegetable, flower, cereal, grass, clover, forage plant, and other agricultural and horticultural seeds intended for seeding purposes.

SEC. 6. That for the purposes of this Act seeds shall be deemed to be adulterated—

First. If seed purporting to be orchard grass seed contain seed of rye, grass, or meadow fescue; if seed purporting to be Kentucky bluegrass seed contain seed of Canada bluegrass; if seed purporting to be red clover seed contain seed of yellow trefoil, burr

clover, or sweet clover; or if any seed purporting to be seed of one kind or variety contain seed of another kind or variety, such other seed being similar in appearance or of lower market value: Provided, That no seed shall be deemed adulterated within the meaning of this paragraph when it is accompanied by a statement or label in the form and manner prescribed by the rules and regulations in this Act provided for, giving the name and amount or proportion of each of the kinds or varieties of seeds contained therein.

Second. If seed of red clover, alsike clover, alfalfa, or Egyptian clover contain seed of dodder; or if any seed contain weed seed, rendering it unfit for seeding purposes: Provided, That no seed shall be deemed adulterated within the provisions of this paragraph unless it be offered for export to, or has been imported from, a foreign country.

Third. If any seed contain dead seed, or any other matter materially

SEC. 8. That no dealer shall be prosecuted under the provisions of this Act when he can establish a guaranty signed by the wholesaler, jobber, or other party residing in the United States from whom he purchases such articles to the effect that the same is not adulterated or misbranded within the meaning of this Act designating it. Said guaranty, to afford protection, shall contain the name and address of the party or parties making the sale of such articles to such dealer, and in such case said party or parties shall be amenable to the prosecutions, fines, and other penalties which would attach, in due course, to the dealer under the provisions of this Act.

SEC. 9. That any seed that is adulterated or misbranded within the meaning of this Act, and is being transported from one State, Territory, District, or insular possession to another for sale, or having been transported, remains unloaded, unsold, or in original

bond to the effect that such articles shall not be sold or otherwise disposed of contrary to the provisions of this Act, or the laws of any State, Territory, District, or insular possession, the court may by order direct that such seed be delivered to the owner thereof. The proceedings of such libel cases shall conform, as near as may be, to the proceedings in admiralty, except that either party may demand trial by jury of any issue of fact joined in any such case, and all such proceedings shall be at the suit of and in the name of the United States.

SEC. 10. That the Secretary of the Treasury shall deliver to the Secretary of Agriculture, upon his request from time to time, samples of seed which is being imported into the United States or offered for import, giving notice thereof to the owner or consignee, who may appear before the Secretary of Agriculture and have the right to introduce testimony, and if it appear from the examination of such samples that any seed offered to be imported into the United States is adulterated or misbranded within the meaning of this Act, or is otherwise falsely labeled in any respect, or is of a quality forbidden entry into or forbidden to be sold or restricted in sale in the country from which it is exported, or is intended for adulteration purposes, the said seed shall be refused admission, and the Secretary of the Treasury shall refuse delivery to the consignee and shall cause the destruction of any seed refused delivery which shall not be exported by the consignee within three months from the date of notice of such refusal under such regulations as the Secretary of the Treasury may prescribe: Provided, That the Secretary of the Treasury may deliver to the consignee such seed pending examination and decide the matter on execution of a penal bond for the amount of the full invoice value of such seed, together with the duty thereon, and on refusal to return such seed for any cause to the custody of the Secretary of the Treasury, when demanded, for the purpose of excluding it from the country, or for any other purpose, said consignee shall forfeit the full amount of the bond: And provided further, That all charges for storage, cartage, and labor on seed which is refused admission or delivery shall be paid by the owner or consignee, and in default of such payment shall constitute a lien against any future importation made by such owner or consignee.

SEC. 11. That the term "Territory" as used in this Act shall include the insular possessions of the United States. The word "person" as used in this Act shall be construed to import both the plural and the singular, as the case demands, and shall include corporations, companies, societies, and associations. When construing and enforcing the provisions of this Act, the negligence, omission, or failure of any officer, agent, or other person acting for or employed by any corporation, company, society, or association within the scope of his employment or office shall in every case be also deemed to be the act, omission, or failure of such corporation, company, society, or association as well as that of the person.

SEC. 12. That this Act shall be in force and effect from and after six months after its passage.



Decorative Dahlia, Fire Rain

(See page 187)

Courtesy Henry A. Dreer

reducing its value for seeding purposes: Provided, That this paragraph shall extend only to seed intended or offered for export to, or which has been imported from, a foreign country.

Fourth. If there shall be added to it any weed seed, or dead seed, or any other matter materially reducing its value for seeding purposes.

SEC. 7. That for the purposes of this Act seed shall be deemed to be misbranded:

First. When one kind or distinguishable named variety of seed shall be offered for sale under the name of another kind or distinguishable named variety of seed.

Second. If in package form, and the contents are stated in terms of weight or measure, they are not plainly and correctly stated on the outside of the package.

Third. If it be falsely labeled or branded as to the State, Territory, locality, or country in which it is raised or produced.

unbroken packages, or if it is to be sold or offered for sale in the District of Columbia or the Territories, or insular possessions of the United States, or if it be imported from a foreign country for sale, or if it is intended for export to a foreign country, shall be liable to be proceeded against in any district court of the United States within the district where the same is found, and seized for confiscation by a process of libel for condemnation. And if such seed is condemned as being adulterated or misbranded within the meaning of this Act, the same shall be disposed of by destruction or sale, as the said court may direct, and the proceeds thereof, if sold, less the legal costs and charges, shall be paid into the Treasury of the United States, but such goods shall not be sold in any jurisdiction contrary to the provisions of this Act or the laws of that jurisdiction: Provided, however, That upon the payment of the costs of such libel proceedings and the execution and delivery of a good and sufficient

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H. H. BERGER & COMPANY, New York.—Catalogue of Tested Flower Seeds for all Gardens, imported and domestic Bulbs and Plants. A neatly printed and attractively gotten up Catalogue, with interesting lists of Novelties in Asters, Cinerarias, Calceolarias, Pansies, Dahlias, etc. This firm makes a specialty of Japanese Plants and Bulbs, the offerings of which are, as usual, complete, particular attention being drawn to the Novelties in Japanese Hydrangeas and Azaleas. The cover designs, in white and gold, are very artistic.

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Three Grand Commercial CHRYSANTHEMUMS

HAVING raised thousands of seedlings in the last twenty years, I have three of the very best seedlings—considering fine form, color and stem for commercial purposes—in cultivation, and will offer a limited number at reasonable prices; nothing better in their season (all are certificated.)

- MRS. R. N. BIRD.** Fine glistening white, incurved, outer petals reflexed; good form and stem; mid-season.
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Now ready for immediate delivery. 2 1/2 in. pots.

Miss Clay Frick (the white sport of W. Duckham,) price 50c. each; \$5.00 per doz; \$35.00 per 100. The finest stock you ever bought of a novelty. My list was mailed you. If you did not get it, write at once.

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25,000 bushy, 3 in., \$40.00 per 1000; Double Grant, \$35.00 per 1000; ready now. Standard varieties, 20,000 transplanted Evergreens, trees, etc. Come and see stock and get a bargain for cash. 15,000 standard, 5 in. pots, \$1.00 per 100; \$8.00 per 1000.

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DOUBLE PETUNIAS

ROOTED CUTTINGS BY MAIL 100

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- Dracena Indivisa, 16 to 38 in. high..... \$10.00, \$15.00 and.....\$20.00
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- Rooted Cuttings. Our selection..... \$.75 per 100 \$ 6.00 per 1000
- Plants..... 2.50 per 100 20.00 per 1000
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CARNATIONS Choice Rooted Cuttings Free From Disease

- Robert Craig, scarlet, very productive; My Maryland, pure white, good stems. Cardinal, scarlet, good flowers; Jessica, white, pencilled with scarlet. Price \$6.00 per 100, \$50.00 per 1000.
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- Golden Beauty, Prosperity, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000.
- Mrs. E. A. Nelson, Dorothy, Wm. Scott, Flora Hill, Ethel Crocker, Eldorado, Mrs. Joost, Portia. Price \$1.50 per 100; \$12.00 per 1000.

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- ASPARAGUS SPRENGER, 2 in., \$2.50 per 100.
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- FUCHSIAS, best varieties 100 1000
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- QUEEN CHARLOTTE, FLORENCE 100
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ASTER SEEDS**

At Exceedingly Low Prices—Send for List and Prices.

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600,000 ASPARAGUS ROOTS

	Per 100	Per 1000
2 Years Palmetto, heavy	\$.50	\$3.50
" Palmetto, strong	.40	3.00
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strong	.48	3.00
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On 50,000 or over good discount given. On other Nursery Stock, send for Trade List.

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10 varieties, dry bulbs, my selection	Per 100	\$2.00
Geraniums, 10 varieties, my selection,		
and 2 1/2 in. pots	3.00	
Pansy Plants, small from frames	\$3.00 per 1000	.50
Asparagus Plumosus and Sprenger, 2 in.	\$1.75 per 100.	Cash.

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Pres. Meyers, Robusta, Pennsylvania, Lou Ray, W. Grove, Mlle. Berat, Louise, Betsy Rose, Burbank. \$1.50 per 100. \$12.00 per 1000.
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Cash with order. No personal checks accepted.

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GRAND NEW CANNAS

William Saunders

The flowers are large, of splendid form and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson. Foliage is a rich bronze. Height, 3 1/2 to 4 feet. We believe that **Wm. Saunders** is decidedly the most perfect canna of this type that has been introduced. 50c. each; \$5.00 per doz.; \$35.00 per 100.

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Note:—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert:
Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 massed in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size. 50c. each; \$5.00 per doz.; \$35.00 per 100.

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Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of cannas. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Send for our list and prices of 60 other leading varieties of cannas.

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Are our great specialty, 2 1/2 and 4 in. pot plants we have in great variety. Teas, Hybrid Teas and H. P. Roses on their own roots, Philadelphia Rambler, Crimson Rambler, Dorothy Perkins and other climbers in strong field plants.

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ORCHID-FLOWERED SWEET PEA, NORA UNWIN

NEW ORCHID-FLOWERED SWEET PEAS

These are a distinct "break" in Sweet Peas, differing from the standard sorts by the extraordinary size of their flowers, usually measuring 2 inches across, and by the standards being crinkled and wavy, while the wings are large and spreading. Another splendid feature is that a very large percentage bear four blossoms to the stem, which are long and strong. To sum up, they possess every characteristic that can be desired in Sweet Peas, and will undoubtedly supersede standard sorts of same color as soon as they become more plentiful.

Countess Spencer. A lovely clear pink, shading darker at the edges. 10 cts. per oz.; 25 cts. per 1/4 lb.; 75 cts. per lb.
E. J. Castle. Rich carmine-rose, shaded with salmon, very striking, especially under artificial light. 17 cts. per pkt.; 5 pkts 75 cts.

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Gladys Unwin. Charming shade of pale rose-pink; extra long stems and very valuable for cutting. 10 cts. per oz.; 25 cts. per 1/4 lb.; 75 cts. per lb.

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Mrs. Alfred Watkins. A superb pale pink, similar in shade to the old Princess Beatrice. 17 cts. per pkt.; 5 pkts., 75 cts.

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TRUE TO NAME

Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

RED CANNAS 100 1000
A. Bouvier, 5 ft. \$2 00 \$17 50
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All sound and with eyes. 100 1000
6-8 inches in circumference. \$1 50 \$10 00

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Cannas. 40 leading varieties, \$10.00 per 1000 and upward. Write for list and prices. Louisiana Cannas \$8.00 per 100.

Violets. Lady Hume Campbell, Princess of Wales, Swanley White, Admiral Avellan and Laxonne, nice strong plants, from 2 1/2 in. pots, \$3.50 per 100; \$30.00 per 1000.

Glamatis Paniculata, two-year-old field-grown stock strong plants, per 100 \$7.00, per 1000, \$65.00.

Cissus Discolor, nice plants, from 2 1/2 inch pots, per 100, \$4.00.

Cyperus Gracilis, from 2 1/2 in. pots, per 100 \$3.50.

Weeping Lantana, from 2 1/2 inch pots, per 100, \$3.50.

Viburnum Plicatum and a complete list of hardy shrubs, vines and miscellaneous plants of all kinds. Send us your list for prices. Ask for Catalogue—it's free. Address

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Established 1850. 70 Greenhouses, Mention the Florists' Exchange when writing.

GRAFTED ROSES

On Dicksons' Irish Manetti.

We are now booking orders for March delivery. KAISERIN, BRIDE, BRIDEMAID, KILLARNEY & RICHMOND; \$120 per 1000.

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Dreer's Summer Flowering Bulbs

The Begonias and Gloxinias offered by us are the best that skill and careful selection can produce, being grown for by one of the most expert European specialists.

TUBEROUS-ROOTED BEGONIAS

Single Flowered, Scarlet, Crimson, White, Yellow, Rose and Orange, 40c. per doz.; \$3.00 per 100; \$25.00 per 1000.

Choice Single Flowered in Mixture, 35c. per doz.; \$2.50 per 100; \$22.00 per 1000. Double Flowering, Scarlet, Rose, White and Yellow, 65c. per doz.; \$5.00 per 100; \$40.00 per 1000.

Choicest Double Flowering in Mixture, 60c. per doz.; \$4.00 per 100; \$35.00 per 1000.

New Hybrid Frilled Tuberos Begonias

A most unique form of flowers of immense size, with wavy or frilled petals, [similar to the best forms of single petunias, 25c. each; \$2.50 per doz.; \$20.00 per 100.

GLOXINIA CRASSIFOLIA GRANDIFLORA

A very fine selected strain, strong, well matured bulbs, Red, White, Blue, Red with white border, Blue with white border, in separate colors or in choicest mixture, 60c. per doz.; \$4.00 per 100; \$35.00 per 1000.

FANCY-LEAVED CALADIUMS

A choice selection of 25 distinct named varieties; fine large bulbs, \$1.50 per doz.; \$10.00 per 100; choice mixed varieties, \$1.25 per doz.; \$8.00 per 100

Our quarterly Wholesale List offers a full line of Seasonable Plants, Seeds and Bulbs.



HENRY A. DREER, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

Grafted Roses

We offer this year the following assortment: Bride, Bridemaid, Bon Siens, Etoile de France, Franz Deegan, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Liberty, Mme. Abel Chatonay, Mme. Caroline Testout, Mme. Koete, Mrs. Pierpont Morgan, Maman Cochet, Marechal Niel, Perle des Jardins, Papa Gontier, Richmond, Roosalind Gr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.

The above grafted from 2 1/4 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

AMERICAN BEAUTY

On own roots, from 2 1/4 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

MME. NORBERT LEVAVASSEUR

(The Baby Rambler.) An everblooming dwarf Crimson Rambler. We will furnish May delivery plants of this sensational rose from 2 1/2 inch, at \$2.50 per dozen; \$15.00 per 100.

OUR GUARANTEE GOES WITH EVERY PLANT.

A. N. PIERSON, Cromwell, Conn. Mention the Florists' Exchange when writing.

Beautiful New Pink Rose

"Aurora"

See announcement and full description in Florists' Exchange, Dec. 8 issue.

PAUL NIEHOFF, Lehighton, Pa. Mention the Florists' Exchange when writing.

2 year old ROSES 4 inch pots

P. & W. Cochet's and Crimson Rambler, 7c.; La France, Meteor, Hermosa and Souper, 8c.; Diesbach, Dinsmore, Charta and Laing, 9c.; Gen. Jacqueminot and Paul Neyron, 10c.; Marechal Niel, 15c.; Baby Rambler, 15c. 101 choice sorts in 2 1/2 in. pots.

THE LEEDLE FLORAL COMPANY

Mention the Florists' Exchange when writing.

CINERARIAS

CINERARIAS, best strain, 6 in., fine plants ready to bloom, most in buds, \$2.00 per doz. \$15.00 per 100.

AGERATUMS, (Inimitable); these Giant varieties are the best in cultivation. R. C., \$1.00 per 100; 2 1/2 in., \$2.60 per 100.

J. C. SCHMIDT CO., BRISTOL, PA. Mention the Florists' Exchange when writing.

ULRICH BRUNNER ULRICH BRUNNER

Field Growth—Own Root—Very Fine: Three grades: Low Prices. Cochet, —Pink and White, and Teplitz—nice plants at \$5.00 per 100; also, some for \$3.50 per 100,—prime for lining out,—all from the field.

Don't Delay if You Want to Get in on This

California Rose Co., Pomona, Cal.

Rooted Cuttings of ROSES

Richmond.....per 100, \$1.50 per 1000, \$12.50
Killarney....." 2.50 " 20.00
Perle....." 2.50 " 20.00
Bride....." 1.50 " 12.50
Chatonay....." 1.50 " 12.50

Rooted Cuttings of CARNATIONS

Enchantress.....per 100, \$2.50 per 1000, \$25.00
Lady Bountiful....." 2.50 " 25.00
Lawson....." 1.50 " 15.00
Gov. Wolcott....." 1.50 " 15.00
Prosperity....." 2.00 " 20.00
Harlowarden....." 2.00 " 20.00

OUR CUTTINGS ARE ALL STRONG, HEALTHY AND WELL ROOTED.

We sell 500 at 1000 rate. All cuttings shipped from MINDALE, ILLINOIS.

BASSETT & WASHBURN

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VEGETABLE PLANTS

CABBAGE New Early and Succession \$1.25 per 1000.

LETTUCE Grand Rapids, Big Boston, Boston Market and Tennis Ball, \$1.00 per 1000.

PARSLEY Moss Curled, \$1.25 per 1000.

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

GERANIUMS

Dbl. Grant, Buchner, Poltevine, Ricard, Perkins, Vian, Nutt and Doyle, assorted, \$18.00 per 1000. Rooted cuttings of Nutt and Grant, \$1.00 per 100. Rooted no others.

COLEUS

Yerschf, G. Bedder, and brightest Giant, many kinds, finest grown, \$30c. per 100. GLADIOLI Groff's Hybrids, blooming size, 50c. per 100. Write Geranium and Coleus wants before order is sent. DANIEL K. HERR, Lancaster Pa. Mention the Florists' Exchange when writing.

SACRIFICING PLANTS

To make room for Easter stock. All large, healthy plants in bud and bloom. Azaleas, 50c. to \$1.00 each. Primula Obconica, 4 in., 6c.; 5 in., 10c. Erimrose, 4 in., 10c. Cinerarias, 4 in., 8c.; 5 in., 10c. Cyclamen, 4 in., 10c.; 4-1 1/2 in., 12c. Rooted Carnation Cuttings, Admiral Severla, \$12.00 per 1000, Cash please.

F. B. RINE, LEWISBURG, PA

Mention the Florists' Exchange when writing.

PLANT CULTURE

PRICE \$1.00 A. T. DE LA MARE PTG. & PUB. CO., 2 Duane Street, New York

Boston. News of the Week.

The subject of the lecture at Horticultural Hall on Saturday was "The Renovation of an Old Orchard." George T. Powell of New York was the speaker, and the attendance was the best this season. The speaker gave a history of his practical experiences in the work of renovating old orchards, telling of the methods of cultivation, pruning, etc., which he had adopted and the results he had obtained. He also spoke at length on the various insect enemies and gave remedies for their destruction. There was a very lively discussion, proving that the fruit growers of New England are getting alive to the cultivation of orchards for which much of the country is adapted.

Julius Zinn, the well-known Beacon street florist, has in his store a pair of fancy cats which he exhibited at the recent show, capturing no less than five prizes with them, one prize being a bronze medal.

The Shady Hill Nursery Company, it is expected, will sell out its entire nursery, including all the stock tools, real estate, etc., at auction in early Spring.

H. N. Eaton of South Sudbury is still bringing in a limited quantity of chrysanthemums daily to the Park street market.

J. K. M. L. Farquhar spent a few days in Lenox this week.

Among recent visitors were O. C. Simmonds, Chicago, and C. B. Weathered, New York.

J. W. DUNCAN.

FOUNDED IN 1858



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One-half Inch, 75c.; $\frac{3}{4}$ -Inch, \$1.00; 1-Inch, \$1.25, special positions extra. Send for Rate Card showing discount of 10c., 15c., 25c., or 35c., per inch on continuous advertising. For rates on Wants, etc., see column for Classified Advertisements.

Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

PUBLICATIONS RECEIVED.

THE HORTICULTURAL DIRECTORY AND YEAR BOOK, Publishers, The Journal of Horticulture, 12 Mitre Court Chambers, Fleet street, London, E. C., England.—This is a very useful publication and should be of the greatest service to those of our readers who do business in Great Britain and the Continent of Europe. It contains a list of the leading nursery and seed houses, of the private gardeners in England, Scotland and Wales, besides an enumeration of the principal tradesmen in European countries and the colonies of Great Britain. There are also given lists of the Botanical Gardens and Public Parks in the British Empire; tables of weights and measures, postal information, and numerous serviceable hints on things that horticulturists should know. We can supply copies of the Directory.

Carnation Show at Chicago.

The following notice has been sent out by the Chicago Florists' Club to many carnation specialists, but the invitation to participate in the show next Thursday is general and applies to everyone, whether in receipt of a personal application or not.

"On February 14 the Chicago Florists' Club will hold its annual carnation show. It is the aim of the club to make this show one of the best ever given and in order to accomplish this we are asking the hearty support of yourselves as well as other growers of novelties. We hope you will assist us all you can to make this show a success. You can do this by placing before the public a display of carnations of some kind, be it one, two or more exhibits, which we assure you will be highly pleasing to the club. We not only expect this show to be of large proportion, but we expect the same to differ slightly from other shows in this respect, in that we are asking all growers to give a little write-up touching on the growing and the handling of varieties which they may place on exhibition, as well as to culture required. In fact, placing before the craft whatever information you feel free to give, as we think that such information will not only be of value to growers, but it will also aid greatly in obtaining and bringing carnations to a higher state of perfection. It is progression that the industry needs, and information is an important factor and of great value to the grower.

"Out-of-town florists can forward their exhibition blooms to Ed. Winterson at 45 Wabash avenue, where they will be taken in until the time of the show, which will be during the afternoon of February 14, the evening of which will also be devoted to our club meeting, to which you are cordially invited."

Obituary

John J. Colmant.

John J. Colmant, florist and nurseryman, Birmingham, Ala., died at his home there on Thursday, January 24. He was 76 years of age, and leaves a widow, two daughters and three sons—John, Oscar, and Lucius. In the death of Mr. Colmant the district loses one of its very best citizens.

The National Board of Trade and Parcels Post.

The National Board of Trade at its recent meeting in Washington, D. C., to the utter astonishment of its most progressive members and in face of the able presentation of the affirmative report of its committee (of which W. Atlee Burpee is a member), favoring the system, went on record as opposing parcels post at present. A great deal of quiet work had been done to create sentiment against parcels post on the false supposition that it was antagonistic to the interests of the country merchants throughout America, and consequently, as a result to jobbers and manufacturers.

In his report, the chairman of the committee, Finley Acker of Philadelphia, reviewed the conditions and the several contentions regarding parcels post. He pointed out that the system had its birth in the United States, but in its infancy it was strangled, "presumably by a powerful corporate agency, which by the imposition of subsequent excessive express rates, has forced the commercial interests of this country to pay them tribute to the extent of hundreds of millions of dollars."

Alluding to the advantages of the parcels post system in other countries, the report says:

"Parcels post was incorporated into the British postal system about 1880 and it permits packages to be sent from any post office to any other post office in the United Kingdom at the rate of six cents for one pound and a gradually lessened rate up to eleven pounds for twenty-four cents.

"What was the practical result of this policy? In 1885 nearly 23,000,000 parcels were exchanged in Great Britain, and in 1900 over 75,000,000 were exchanged.

"At about the same period 150,000,000 exchanges were made in Germany through its domestic parcels post; 37,000,000 in France; 31,000,000 in Austria-Hungary; while over 300,000,000 exchanges were made by the countries enjoying the benefit of a domestic parcels post, and over 25,000,000 exchanges were made through the Foreign Parcels Post.

"How many of these 325,000,000 exchanges would have been made had the exchange facilities been inefficient or had the high rates prevailed which are charged by American express companies?"

"Do not these figures of 325,000,000 exchanges, which to-day no doubt aggregates 400,000,000 annually, lift the question of parcels post entirely out of the domain of a single interest or locality and place it upon the important plane of national and international importance, and give to it a dignity and vitality which classes it among the other world-wide recognized and efficient forms of transportation?"

The report then goes thoroughly and ably into the history of parcels post in America. In the 1874 United States Official Postal Guide it is specified that among other articles enumerated, seeds, cuttings, bulbs, roots, cions, the postage shall be "one cent for each two ounces or fraction thereof." This rate remained operative for only one year, when the word "ounce" was inserted instead of the words "two ounces." The report clearly hints that the influence bringing about the change was not that of the people, but of the express companies who "regulate their rates on small packages by the post office rate."

The groundlessness of the apprehensions and fears concerning the introduction of parcels post were likened to those which have been expressed all through human history against every labor-saving service that was ever invented.

The incongruities of the "grotesque classifications of the present third and fourth class mail matters" were also touched upon and examples of same cited, and the following resolutions presented:

WHEREAS, the National Board of Trade recognizes in the Domestic and Foreign Parcels Post system, as operated by the leading nations abroad, a valuable agency for stimulating internal and foreign commerce; and regards Parcels Post as one of the important agencies for furnishing cheap and efficient transportation facilities to the advantage of the entire community; and

WHEREAS, conditions as to space for handling, and railway charges which now prevail in this country, are not adapted to the inauguration of the European system of Parcels Post at this time;

RESOLVED, That the National Board of Trade reaffirms its advocacy of the inauguration of a Parcels Post as promptly as the Post Office Department is able to adapt such a system to the special needs and conditions of this country, provided the same is operated without loss to the government;

RESOLVED, That as a preliminary step to the above, we recommend the immediate consideration of third and fourth classes of mail matter at the authorized rate of 1874, namely, one cent for each two ounces, as embodied in House Resolution 4549, and in conformity with the repeated requests of Post Office officials.

The Board, however, as stated, went back on the position it had heretofore maintained on this question, by opposing the parcels post at present—an action which is considered not only amusing, but diametrically at variance with all for which the National Board of Trade stands—"the principles of absolute equity toward all American interests."

Greenhouse Construction.

In R. O. King's paper reproduced on pages 156 and 157 of our issue of February 2, the title of figure 5 (P. 157) should read "Trussed Section of 150-foot House"; and the weight marked as 1366 should have read 1166.

Notes and Comments.

JAMES BRAIK OF BUFFALO IS DEAD!—And thus has passed away another of my oldest and warmest friends. When that grand old man, William McMillan was superintendent of the Buffalo parks, Mr. Braik was his assistant, and after Mr. McMillan left there Mr. Braik was continued in his old position, but with more power; in fact, he was the practical superintendent. He was a good gardener, and a vigorous executive head, genial throughout and straining every point to serve and oblige his fellow craftsmen and friends; and one of the most beautiful traits in his character was his emphatic and never-dying devotion to the name and fame of his unequalled preceptor, William McMillan.

AND JAMES SHARKEY TOO HAS GONE!—Between 25 and 30 years ago I knew him well. He was a fine fellow and a good gardener, but unusually modest and retiring. For years I had lost track of him, hearing nothing of him. He used to glory in telling me of the Glasnevin Botanical Gardens near Dublin, and well he might, for not only are they exceedingly beautiful in themselves, but gardening is splendidly done there. The finest disas I ever saw were grown there, and so, too, were filmy ferns, sarracenias, cephalotes and many other gems. He also was a personal friend of that greatest of all British gardeners, William Robinson, of the London Garden, and of this he was very proud.

COSMOS KLONDYKE.—Not a true cosmos, but a bidens. This matters little, however; it is a most beautiful flower. Under ordinary conditions it blossoms a little later than the common cosmos, and for this reason I would suggest that it be grown as a 1st plant only. At the chrysanthemum show at the Phipps conservatory last November it was one of the most strikingly beautiful and showy plants in the exhibition. It is very easily raised from seed. Being a rank grower, it needs rich soil, pinching during Summer, and to be pot-bound as Autumn advances to throw it into generous bloom. Its flowers are as large and wide open as those of ordinary cosmos and of a deep golden yellow color.

BEDDING PLANTS.—We grow a great many and a large variety, too, and in May most anything that is thrifty and in good bloom will sell readily; but head over all stands the geranium. Therefore our gardener reasons in this way: "If I can get more for geraniums than I can for vincas, heliotropes and the other things, and geraniums cost less to raise, why should I bother with the other plants?" But money with us isn't everything, so we stick to many things for variety's sake. In the matter of colored leaved plants we aren't using nearly as many coleuses as formerly; alternantheras are giving us better and more lasting satisfaction.

TORONTO.—I have been there a few times. It is one of the most beautiful cities in North America, and the florists there can grow roses and carnations, too, I can tell you. I was there last August, but except friend Chambers of the parks, who had to stay at home to open the exposition, most of the boys were at Dayton at the Convention or hunting some other cool place. Mercy, wasn't it hot! One day we had a trolley ride around the city. The guide on the coach was very versatile and described the shade trees along the streets with a knowledge and decision that was remarkable and paid particular attention to the "English walnut" trees that were rather numerous and laden with fruit. At my request the coach was stopped and we picked some "walnuts" and opened them. In no other way could I convince this megaphone man that his "English walnuts" were nothing more or less than common American buckeyes! You might think he'd get mad, but no; he was a real jolly, good-natured Canuck with whiskers. Superintendent English of the Wintoner parks was with us, and he being a Johnnie Bull, when he said "buckeye" there was no more "walnut." But there was a good deal of pleasant chaff among the passengers.

RAMBLER ROSES.—We are having "funny" weather; to-day like Summer, to-morrow half way to or past zero. This is killing on somewhat tender plants. A stiff before-Christmas freeze sets them to rest, then comes an after New Year's Summer warmth and the buds swell and get green; then a frigid, icy spell, and the prematurely swollen and breaking buds and exposed wood are killed. This happened to me in the case of our Philadelphia Rambler roses last Winter. Although well mulched with manure, they got killed to the snow line and we didn't have a blossom from them last Summer, but the Crimson Ramblers growing alongside of them were not materially injured and they bloomed extravagant. This Winter we laid the Philadelphia Ramblers down flat on the ground and covered them all over with boards and manure, as we do with raspberries or tender roses.

CHRISTMAS DECORATIONS IN THE CEMETERY.—The attention given to this matter is becoming greater and greater every year, and I am giving it every encouragement. This decoration consists largely of draping tombs, monuments and vaults with laurel and ground pine roping, covering graves with berried holly, and the placing of wreaths upon the graves. Tons of such decorations are used every Christmas in this cemetery and thousands of graves are decorated. The Christmas business in cemetery work is a great item with our retail florists. In the

way of set pieces wreaths alone are conspicuous; crosses, anchors and the like are in limited number. Wreaths run from a frail little 10c. holly ring to one of \$5, and all sizes of wreaths of magnolia, laurel, or boxwood, either alone or made up with red Immortelles, say from a dollar to ten or twenty dollars. But the prevailing wreaths are of red Immortelles, either alone or relieved with boxwood, statice, galax; and some of these are very massive. Purple Immortelles are also used in heavy wreaths, but not much in small ones. A vast number of baskets filled with boxwood sprays and studded with red Immortelles are also used; so are bunches of the same, set on the graves like bouquets. We have a great many endowed lots in this cemetery and we decorate most of these at Christmas time, some of them very elaborately, and this has a wonderful effect in stimulating others to do likewise, adding much to the business of our city florists.

WILLIAM FALCONER.

OUR READERS' VIEWS

The Florist and the Church.

Editor Florists' Exchange:

I notice quite a lengthy article in the issue of The Florists' Exchange of January 26, on "The Trials and Tribulations of Detroit Florists," read by E. A. Scribner before the Detroit Florists' Club. There is one paragraph that I think needs the attention of every public-spirited florist, or anyone else interested in the welfare of the community in which he lives. It is that in which Mr. Scribner speaks of the church. To use his own words: "Every student of social science knows very well that the church up to date has done almost nothing for the betterment of humanity."

I would like to ask Mr. Scribner through your paper, if they have such things as public schools, colleges or hospitals in Detroit? If they have, and I think they do, where did they come from?

And when it comes to the florists' business, it seems to me that the three greatest holidays of the year are due directly or indirectly to the church.

E. TIRRELL DENHAM.
Mass.

Mixing Carnation Pollen.

Editor Florists' Exchange:

I have never experimented with using more than one variety of pollen in making a cross, and so cannot speak from experience. I believe, however, that it is quite possible to fertilize successfully with mixed pollen, and see no reason why Mr. Murray's word should be questioned. I have often had this same idea in my mind when making crosses, but have always neglected trying the experiment; owing chiefly to the fact that we prefer to have an absolutely correct record of the parentage of any variety we originate. Since this subject has been opened up, we will do a little experimenting along this line, and may report our results at the Washington meeting of the American Carnation Society.

WILLIAM WEBER.
Oakland Md.

Editor Florists' Exchange:

Regarding the application of mixed pollen, I have never considered this good practice. My idea has been that one of two things would result:

First. All the fertile seeds in the pod would be impregnated by one variety of pollen.

Second. Some seeds would be impregnated by one variety of pollen and some by the other.

In either case nothing is gained over separate crosses and uncertainty is the result.

It has been stated that Mr. Burbank pursued this course, and that his wonderful skill enabled him to say which pollen had been effective by examining the resulting seedlings. This would indicate that the method was adopted, not in order to secure combined action on individual ovules, but to make fertilization more sure. However, I have seen nothing over his own signature on this point.

To summarize—I would not dare say that it is impossible for two differing pollen grains to act simultaneously in fertilizing the same ovule, but it seems to me very unlikely to happen.

W. N. RUDD.

Editor Florists' Exchange:

In my short practice I have never used mixed pollen, neither have I ever heard of it being used until the present discussion now before your readers, so I would not like to approve or condemn such practice.

MALACHI TIERNEY.
New Jersey.

Birnie Discusses Rudd's Remarks.

Editor Florists' Exchange:

I gather from a contemporary that in the discussion which followed the reading of one of the papers read before the American Carnation Society at Toronto, a gentleman hailing from the Windy City asserted that it contains "some rank heresies," and as a logical sequence he must consider the writer of the paper a heretic. The gentleman proceeds to inform his hearers that he has no "patience," a fact which would appear to have been so palpable that it was needless to call their attention to it. He might, however, have gone farther and informed

them that he was not overburdened with either tact or diplomacy, and was neither properly primed nor loaded. I guess he went off at halfcock.

The paper referred to was written altogether from a buyer's standpoint, and it is hard to see where the heresy comes in, unless it can be considered heresy to advocate measures that will be of benefit to the buyer. The certificate in its present shape amounts to nothing but a prize for a few selected flowers, and the buyer will only have what he has had heretofore—the questionable privilege of traveling a thousand or more miles in the Winter-time, just to look at them. If he buys, he buys altogether on chance; the certificate is no guide to him whatever.

It seems to me that a report such as a visiting committee would necessarily make, describing the carnation as seen growing, mentioning its faults and virtues as seen by them, is something that the buyer has a right to expect, and I think he would not object to pay the expenses; obviously it would be to his advantage to do so. That the visiting committee would not prove a "cure all" is admitted, but the report of a visiting committee should be a part of the certificate, or the certificate should be abolished altogether.

JOHN BIRNIE.

The Term "New Creations."

Editor Florists' Exchange:

In your review of Burpee's Farm Annual on page 4 of The Florists' Exchange you record the fact that he has used the expression "New Creations" in connection with several of his novelties. It is remarkable that a house of the pretensions of the one referred to should find it necessary to borrow a phrase of doubtful worth for advertising purposes; something original might have been expected from such a source. Mr. Burpee, however, does not seem to be altogether sure of his ground, and in "justification" of his action quotes a letter from Mr. Burbank, whom he evidently considers an authority.

The roundabout and indirect method adopted by Mr. Burbank in replying to his critics is characteristic. The letter to Mr. Burpee, however breaks that "sphinx-like silence," and will give those who read it a very good idea of Mr. Burbank's opinion of himself.

It will be observed that Mr. Burbank puts himself definitely on record as being a creator. "I am doing that," says Mr. Burbank. "That" is creating hens and plants. No doubt he impressed the fact on those long suffering Stanford University students that a plant breeder creates plants, a poultry breeder creates hens, a horse breeder creates horses, and so on; also that those who don't believe in this are "old-fashioned, bigoted and ignorant." Ignorance in this case might be bliss!

Mr. Burbank, perhaps reluctantly, states that there are "others;" but one can very readily read between the lines that in his estimation those "others" are very "small potatoes," and that he considers himself to be the great "I Am." It is extremely doubtful if any of those "others" would give Mr. Burbank much thanks for putting them in the same class as himself. If for "self-confident" we read "self-conceited" it gives a more complete picture of the man. The letter brings very vividly to mind that famous Hoch der Kaiser recitation of Admiral Coghlan, "Me und Got."

"Nature cares no more for a man than she does for a hen or a plant, so she never creates them for his special use. She leaves that for man to do for himself. I am doing that. "I wonder if Mr. Burbank actually believes that last quotation himself? It seems hardly possible. It is, however, altogether contrary to Bible teaching. In the twenty-first verse of that comprehensive chapter of Genesis we find it written: "And God created * * * every winged fowl after his kind." And after creating them they are by no means forgotten, for we find in the thirtieth verse of the same chapter that "to every beast of the earth, and to every fowl of the air, I have given every green herb for meat." And in the next verse: "God saw everything that he had made, and beheld it was very good." Burbank claims that his "creations are fully as successful as those of Nature herself!"

"Nature is and always has been trying experiments." This axiom has been recognized and acknowledged by florists and others so long before Burbank's time that it seems superfluous for him to propound it with so much emphasis, and that Nature makes good in plants once in a hundred times may be news to many. Personally, I think if such be the case, she would be doing better than Burbank.

But Mr. Burbank on the whole seems to have a very poor opinion of Nature. If he could cipher out what relation Nature bears to the Infinite it is possible he would regard her with more respect, and probably with some awe and reverence.

To the assertion that Nature neglects Burbank's hen or any other hen, Nature herself gives a flat contradiction. Of course, the hen in her domesticated condition is taken out of Nature's hands to a certain degree; she is provided with food, shelter, etc. But what causes her to throw off her surplus feathers as warm weather approaches; and what provides her with a nice, new coat before Winter comes round again? But there are other hens; prairie hens for instance, which are not domesticated. What cares for them? That thirtieth verse above referred to will answer this question.

Burbank's letter is certainly a very remarkable effusion. His direct claim to be considered a creator leaves Dowie altogether in the shade, and it is evident that, like that fakir, he has reached the parting of the ways. Certainly public opinion can not be expected to stand for much more. I have heard that opinion expressed by a great many intelligent men.

JOHN BIRNIE.

H. E. Fiske Seed Co.'s Store.

The illustration shows the new store of the H. E. Fiske Seed Company, the latest addition to the list of Boston, (Mass.) seed houses. The building is entirely new, occupying the site of the building burned last Spring at 13 Faneuil Hall square.

The store is one of the best, and is in one of the best locations in the city. Mr. Fiske, who always will be found at the helm, has a line of strictly new and reliable seeds for the many wants of his numerous customers.

J. W. D.

Several interesting communications from readers are unavoidably laid over till a future issue.



Store of H. E. Fiske Seed Co., Boston, Mass.

Salvia Zurich.

Editor Florists' Exchange:

One of the most important all-around novelties suitable for bedding is undoubtedly the new scarlet sage Zurich (Salvia splendens compacta Zurich). My attention was called to this plant several times during the last year through the European floricultural press reporting the various flower shows held through Germany, and it is remarkable how unanimous all the reports were in praise of this magnificent plant. It originated with the park department of Zurich in Switzerland about four years ago and has since been tried by a limited number of prominent parks and florists in Germany.

Salvias are much more used throughout Europe than in America as bedding plants, and all the varieties, such as Clara Bedman and Ball of Fire, are far better known there than here, but this new salvia, Zurich, is said to beat them all. It is of the dwarfest habit, dwarfier than Ball of Fire, which is the dwarfest we have had so far, never exceeding 18 inches in height, and its flowers are produced in wonderful freedom while still small plants, making it practically an everblooming variety. I have no doubt that it will soon find its way to our side.

A great drawback with Salvia splendens and its other so-called early flowering varieties has always been its late time in blooming, and a new variety which will unfold its wealth of flowers with a geranium, must be welcomed to all florists who have groups to plant for effect. Zurich is also said to last much longer when in flower, blooming long after the ordinary salvias are through. One of my correspondents calls it the "Gloire de Lorraine of salvias," which, he says, is a fitting description though far-fetched.

J. L. SCHILLER.
Toledo, O.

AMONG THE GROWERS

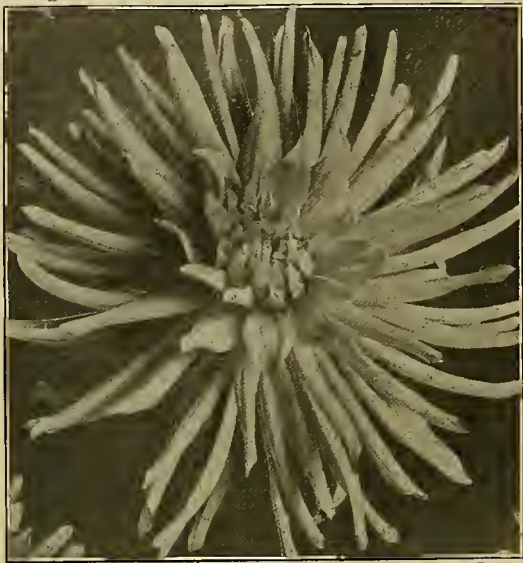
Novelties Recently Seen at Dreer's Nursery.

TRITOMA (KNIPHOPHIA) TRICOLOR.—Since the introduction of Tritoma Pfizeri the tritomas have become almost indispensable in the border. Many new varieties have been since introduced, all of which possess some peculiar points of merit, but the majority of these have inclined to tall or giant

perennials. It is a true perennial, requiring no special care after being planted, but reappears season after season with its masses of beautiful centaurea-like lavender-blue flower. Admirers of this plant will welcome this new white-flowered form which is being introduced by Henry A. Dreer this season. It is described as being a counterpart of its parent in habit of growth, freedom of bloom, etc.; but its color is a pure glistening white.

GYPSOPHILLA PANICULATA FL. PL.—The old single-flowered form of Gypsophilla paniculata has always been a popular Summer cut flower, its delicate misty sprays of flowers adding a grace and beauty when combined with other subjects that cannot be secured with any other flower. In this double flowering form the airiness of the misty sprays is not at all disarranged, while the fullness of the flow-

"It will no doubt surprise many lovers of the dahlia when we tell them that this beautiful fancy variety is not new or even of recent introduction, it having been offered in our own catalogue in 1868; and while we are uncertain as to the exact year of its introduction, it is safe to assume that it was over a half century ago. It was raised in Philadelphia, by Mr. Gerhardt Schmitz, who seems to have been the Burbank of his time. An article which appeared in the Philadelphia Florist in 1852—fifty-five years ago—says of him: 'Old Gerhardt is a great one to raise seedlings of pears, peaches, strawberries, dahlias, etc. He now occupies the old Passyunk nursery. This is the mark for dahlias in all varieties. His seedlings are justly celebrated, and can



Dahlia Walthari

Courtesy



Nigella, Miss Jekyll

H. A. Dreer



New Hybrid Impatiens

Philadelphia

forms, such as Obelisque, a saffron colored variety, growing from 4 to 5 feet high, Star of Baden Baden, a buttercup yellow with green shadings and long protruding orange red stamens, a perfect giant, reminding one of Eremurus robustus, with its stems from 5 to 7 feet high and spikes of bloom from 15 to 18 inches long. Still another very distinct strong growing variety is Triumph, growing from 5 to 6 feet high, of salmon orange color. But prettiest of all is Tritoma tricolor, a dainty pigmy among the above, never growing over 2½ feet high, its flower heads from 4 to 5 inches long, in which three distinct colors are combined in the same spike of flowers, the buds at first appearing cochineal red, changing to canary yellow as they develop and finally opening a sulphur white. It is remarkably free flowering, being in bloom from early in August until October, and will prove a popular addition to this class of plants.

STOKESIA CYANEA ALBA.—It is only since the popularization of hardy perennial plants during the past 10 or 12 years that our beautiful native blue Stokes aster, Stokesia cyanea, has been well known, and it now is one of the most popular of our hardy

er gives it a purer and clearer white color. This variety was introduced some three years ago, but until the present season was sold at too high a price to permit of its extensive planting. It is now offered at a price which brings it within the range of commercial work, and is certain to become a standard Summer cut flower.

DAHLIAS.—In looking over the many color plate subjects in the retail catalogues for 1907 it is interesting to note, in connection with the growing popularity of the dahlia, a colored illustration in Dreer's Garden Book for 1907 of that old favorite fancy variety Frank Smith, a sort which is no doubt known to every lover of the dahlia, though to

most of us it is probably new, that this variety originated half a century since, as gleaned from the description given in the Dreer Catalogue and which as a bit of horticultural history herewith follows:



Tritoma Tricolor

H. A. Dreer

compete with those of any cultivator, and struck us during the past season as worthy of note among the immense variety of this much cultivated flower, which seems now to command reawakened interest."

It is convincing proof that a dahlia which has stood the test of over half a century, during which time hundreds, yes thousands of varieties have been introduced only to disappear again, must have exceptional merit. Frank Smith remains to-day the most beautiful fancy dahlia. It is of an intense purplish maroon shading to black, each petal tipped with white with carmine red shading; and while a percentage of the flowers, as in all fancy varieties, come self-colored, it is then one of the finest dark varieties in cultivation.

Another dahlia of importance especially to the cut flower trade that was noticed on the Dreer trial grounds during the past Summer is the new decorative variety Fire Rain (Feuer-regen), a German introduction, that in color and form is identical with that favorite old variety Lyndhurst, which on account of its brilliant cardinal red color is always in great demand as a cut flower, but which owing to its



Aster Early Wonder

Courtesy



Stokesia Cyanea Alba

Philadelphia

non-free-flowering habit (except in specially favorable seasons) is grown only in limited quantity. Fire Rain combines all of the good points of form, color, etc., of Lyndhurst, but it is at the same time one of the freest flowering sorts. Its flowers are borne on long, strong, wiry stems, making it an ideal cut bloom.

Another promising decorative variety which was noticed is a large creamy white of a type similar to Mrs. Roosevelt and Mme. Van den Dale, but of better form and finish. On account of its large size it has very appropriately been named Gigantica.

Among the newer cactus dahlias my attention was especially attracted to Walthari. This is undoubtedly the most artistic in form and soft coloring. It is a deep flower of fair size, with long incurved petals which at the center of the flower are of a soft canary yellow gradually passing to white at the edge of the bloom.

Of other cactus varieties which are not yet generally known the following were specially noted:

Amos Perry, an early fiery red, fine for massing.

Else, an indescribable combination of buttercup-yellow and rose—a grand flower.

Charm, a fancy cactus, the center of the petals being white, edged yellow and salmon pink.

Dainty, lemon yellow shading to a glowing rose with a tip of yellow at the point of each petal.

Eva, a small but free-flowering white.

Flora, a large ideal white, which, we think, for purity of color has no equal.

H. W. Sillem, very large, frequently seven inches in diameter, perfect in form and of a brilliant, rich cardinal red.

Florence M. Stredwick, a very dainty white, fine for cutting.

Frute, soft rose-pink passing to a cream center—very beautiful.

Gottelinde, an early-flowering, beautifully formed primrose yellow.

Lenau, coral red suffused with apricot shading to salmon rose.

Mrs. Clinton, deep amber shading to a rosy-scarlet, very rich and of perfect form.

Reliable, a large, bold, striking flower, of a salmon carmine and yellow.

Princess von Reuss, deep carmine red of medium size and exquisite form.

Shooting Star, large flowers of very regular form, of a bright golden yellow.

Thuringia, intense fiery red, a brilliant and fine formed flower.

Victor von Scheffel, much in the style of Kriemhilde, but softer in color.

Zephyr, crimson carmine intensified by bronzy shadings.

TEUTONIC.

CARNATIONS

John E. Haines's Experience with Carnations.

(Paper read before the Philadelphia Florists' Club at the January, 1907, meeting.)

A few weeks ago John W. Young wrote to me urging me to make a speech or write up something on carnations, to deliver before you this evening. I appreciated his kindness, but I really hesitated in complying with his wishes, as speaking in public is a new feature for me to enter upon, and a career of speech-making, at my age, may not be as successful as my work in raising carnations has been. I have concluded to give you my experience in growing the divine flower, and tell you how I drifted into this line of business in my advanced age.

Early Trials.

After serving a period in the Civil War I learned the trade of molding, which I followed until, owing to poor health, I was compelled to change my occupation. I became a retail coal oil merchant, and, later, in connection with this, I also had a few acres of land which I devoted to trucking. Finally, at the age of 48, I sold out the oil business to the Standard Oil Company. Then I built one greenhouse, 80x22 feet, to raise lettuce and radishes. Meanwhile I kept on trucking, raising all kinds of vegetables, and am doing the same to-day. My lettuce crop was very successful the first year, and the following one I put up another house of the same size. The lettuce crop was again very successful, and in two years more I erected three more houses. Florists began to pay me visits and to praise my good work in lettuce growing, but they told me that my good success with lettuce had about reached its limit and I would find out that succeeding crops would not always reach this same standard. The following year I grew 50,000 lettuce, but it was not quite as good as it had been in previous years, although it was not bad.

Gets Government Seeds.

At this period I became deeply interested in the florist trade papers and devoted most of my spare time to reading them. I sent on to the Government for seeds, and among the collection received was a packet of carnation seed. I again raised some lettuce, and began growing a few flowering plants, a few roses, carnations, etc. Lettuce was not a success that year, but the flowers did very well.

This increased my interest in the latter. My favorite was the carnation. With the florist's help which I had hired I commenced experimenting on the stock I received from the Government and a few standard sorts that I had purchased. The Government stock came mostly in bullheads and single blooms. There were also among them a few very fine plants, possessing fine stems and vigorous growth. We hybridized these with the following varieties: Jubilee, G. H. Crane, William Scott, Lizzie McCowan, New York, Albertini, etc. I was very successful, getting numerous good ones. I would raise them for a while, discover some bad trait, then discard them. I kept on trying and discarding until I secured enough stock of seedlings of my own, which, compared with the standard varieties I had on the place, were superior to those, in my opinion.

Trials Exhibiting.

Seeing glowing accounts in the papers of the flower shows held at various places, I decided to visit an exhibition and discover how my carnations compared with those of others. The first show I attended was held at Brooklyn, N. Y. I enjoyed my first visit at the shows, and found, to my delight, that my carnations were at least good enough to exhibit. Then I discarded most of the other stock and devoted my space, which I kept increasing a little year by year, to seedling carnations of my own raising. Lettuce was a dead member. I found the growing of the carnation the more interesting, and to-day, you see, I am still making a specialty of raising seedlings—a work which gives me extreme pleasure. I have visited some shows each year, and at times have come home feeling overjoyed with success, at other times disappointed. You florists, no doubt, have had similar experience. We all leave home feeling confident that our flowers cannot be

growing carnations in a sandy soil, but I believe it can also be prepared in compost to grow carnations equal to those raised in clay soil. It may even do better, I cannot tell.

Feeding.

In feeding the plants I begin as soon as I have fire in the house. I feed them lightly, now and then, and keep them on the move. I do not use liquid manure, but afford sheep manure, bone flour, air-slacked lime and wood ashes.

Temperature.

I have not kept a night fireman, except on extremely cold nights. I run my houses between 45 and 52 degrees. In one of my houses I have taken out the partition on one side, for growing violets. The temperature of this place is usually about 45 degrees, when the others are at 50 degrees. Here I always have been growing my namesake. I find that in this house my best carnation flowers are produced, and yet the plants are very prolific.

Troubles Encountered.

The troubles connected with the raising of this flower I have also met with, and have been kept busy fighting them. One of these troubles at one time was stem rot, as they call it. I will not undertake to say what the cause of it is, nor the remedy. There are many different opinions on this great question. I will relate to you an experience I had one year in this line. In the Fall I buried vegetables, such as turnips, radishes, beets, etc. In the Spring, when the ground was prepared for planting, there were still in a certain patch vegetables that had either rotted or frozen, also some salt hay which had been used for covering bulbs, and tomato vines grown the previous year. Here



Center-piece of Winsor Carnations

By F. R. Pierson Co.

Artist, James Ivera Donlan.

beaten, but when we got to the exhibitions we see such fine displays that certainly open our eyes. Every time I come home, however, with renewed courage and aroused ambition to do better.

Treatment of Plants.

As to the treatment of the carnation, first I began by watering my plants at night. My reason for doing this was as follows: Early in the morning, after a good rainfall at night, I had a habit of taking a walk into my truck patch. Everything looked so fresh and crisp that it seemed to me I could almost see exactly how much things had grown overnight. I concluded that night watering would be the best method, and for a while followed it. The plants were doing finely. All florists, however, who came to visit me, and all the papers gave instructions for watering in the morning, and I finally changed to the generally accepted plan of watering, though I must say I did not see a decided difference.

By attending the different conventions and club meetings, and reading the different essays of various writers, I discovered that my way of growing the carnation was not so different from other florists' methods. I gradually learn more, get new ideas talking to different florists and visiting other greenhouse establishments.

The Secret of Long Stems.

The question "How do you get such long, strong stems on your carnations?" is often put to me. As I have said before, my methods are not different from those of others; I claim the secret of long stems lies in the varieties I have. In the other standard sorts I had been growing, I could see no difference in that respect.

Preparation of Soil.

The soil on my place is heavy. I prepare it by making a compost. I have never had experience in

planted my young stock of carnations. The plants raised on this patch suffered from stem rot. It was so peculiar; only these plants were infected. Those which did not get it in the field got it after planting in. This taught me that I must be very careful not to have any decaying or fermented matter around the place. I have been very strict as regards cleanliness. All refuse must be taken away immediately, and the surroundings of the plants kept sweet and clean. I have used air-slacked lime occasionally for this purpose.

Another trouble is that dreadful disease rust. From all my past experience I find that by taking the best of care of the plants, beginning at the time of planting in and taking all the precautions that would be taken if the plants were infected right along, the rust will seldom appear at all. "An ounce of prevention is worth a pound of cure." My plants are watched closely; if any show the least symptoms of rust, the infected leaves are at once removed.

To avoid the much-hated thrips and greenfly, the plants are sprayed with Nicotinic acid, say, once a week, but precaution is taken to choose a bright day for the work. I also begin this treatment as soon as the plants are put into the house. I find it more successful than the method of smoking, practiced by me in previous years. Since the present treatment has been given, my plants are molested very little with the pests.

These are some of my experiences. It is impossible for me to relate all of the little details. I feel that there is still a great deal for me to learn. My interest is at its highest point. My aim is to do better each year. I hope to meet you often in the future, to hear your experiences and views on the various questions. This way of meeting to tell each others' views, and visiting each others' places, I believe will lead to a grand advancement in the culture of the universal favorite, the carnation.

FOR THE RETAILER

Stock Still Scarce.

Thanks to colder weather and the accompanying sunshine, roses are becoming a little more plentiful and a great deal better in quality. But prices are still abnormally high at this season of the year, and the supply of stock is none too generous. A grower of American Beauty roses, with a large range of glass, shipped three special flowers one day last week and the rest of his cut being in proportion gives one an idea of the prevailing scarcity. It is impossible to obtain in sufficient quantities Mme. Abel Chatenay, Uncle John, Richmond and the newer varieties of roses, the demand being much greater than the supply.

A Wedding Decoration.

A wedding decoration at a Fifth avenue church was perhaps the most notable event of the week; and although not an elaborate affair it was pretty and simple. The chancel was well filled with palms on either side well back to the altar, the high effects being obtained by using tall stumps fifteen to twenty feet in height, surmounted by large, spreading heads of Florida palm leaves. This style of decoration has come into general use; in fact, it has be-

should not be put on the table until the last moment, as it is usually very perishable and only lasts an hour or two at the most, being unreliable even when put in water.

Flowering Plants for Table Decoration.

The use of flowering plants for table decoration is becoming quite a fad with the four hundred in New York, anything with a flower on it being called into service. A splendid old-fashioned subject for this purpose is the camellia with its rich green foliage and beautiful waxy flowers. It was used this week at a Seventeenth Century dinner, and it certainly carried out the idea, the effect being most imposing. Stuffed boars' heads were among the ornaments, and antique silver of the seventeenth century period, high candlesticks without the usual shades, added to the completeness of the plan.

Azalea Van der Cruyssen was used on another occasion; this variety lights up splendidly at night and makes a brilliant decoration.

A wreath made entirely of Lillium speciosum album, with a large cluster of cattleyas and Adiantum Farleyense recently attracted my attention in a Broadway store; the effect was beautiful. It was a standing wreath, four feet across, about two-thirds being made of the lilies and the remainder of cattleyas and A. Farleyense. The base, or stand, was filled in with some large cypas leaves and a cluster of callas. No ribbon was employed.

D. RAYBUN.

McKinley Day at Washington.

Government officials, members of Congress and private citizens wore the late President's favorite flower in silent memory of a martyred public servant and in the interest of patriotism and good citizenship. President Roosevelt had on his desk a great vase of fine carnations, and a similar bunch of carnations adorned the desk of Secretary Loeb. Members of the cabinet each wore one of the handsome flowers as they appeared at the cabinet meeting. Postmaster-General Cortelyou, one of the founders of the Carnation League of America, presented to each of the bureau and division chiefs and to each member of his own executive staff a beautiful carnation to be worn during the day.

CANTON, O.—"Carnation Day" was observed in Canton public schools by the recital of incidents in the life of McKinley by teachers and pupils. The public schools were dismissed early in the afternoon to allow pupils to attend a McKinley human-flag concert in the Auditorium, where 400 girls were dressed to represent a human flag. The concert was repeated in the evening, when Mrs. McKinley occupied a box. A local florist placed on the McKinley casket, by order of Postmaster-General Cortelyou, a large wreath made of carnations, tulips and hyacinths. Many other floral remembrances were sent to the McKinley tomb by Canton and out-of-town friends of Mrs. McKinley.

A LAUREL DECORATION was executed by Myer, on Tuesday, February 5, for the wedding of Miss Beatrice Morgan to Mr. Pruyn, of Albany, N. Y. The parlor of this old-fashioned house, situated in Stuyvesant sq., N. Y., was garlanded with heavy laurel roping, studded with clusters of carnations. Large pyramid bay trees lined the sides, reaching from floor to ceiling. Between the bay trees were placed five-foot pedestals covered with laurel, on which were placed candelabra with candles furnishing the light; as the house is so old fashioned, iting the light; as the house is so old fashioned, it has never known gas or electric light. The bridal party received in front of a background of laurel; the mantels were banked with Prince of India azaleas; the mirrors draped with fresh smilax. The soft light of the candles on this immense quantity of green gave an effect which can only be imagined. St. George's Church, which is opposite the bride's home, was decorated with arches of laurel along the center aisle. On each side along the pews were bunches of lilies. On the altar were vases of lilies, and on each side were huge groups of palms. The balcony was garlanded with laurel roping, as was also the organ loft. The white and green effect was beautiful and pleasing to the eye. This decoration was ably completed by Myer's lieutenant, Maurice Kleinman, assisted by a corps of decorators, to the satisfaction of all concerned. Five hundred yards of laurel roping were used.

Auction Sale Prices.

S. S. Peckham, florist, New Bedford, Mass., last week offered his entire stock and fixtures for sale at his Sixth street greenhouses. A local paper reporting the result of the sale says:

"About everything sold went at ridiculously low prices, the entire plant, itself costing about \$3,500, and a large stock of florist's fixtures and plants, the whole representing an investment of several thousand dollars, going for less than \$1,000. Here's a sample of the prices paid for some of the plant stock: 126 primroses in pots, 6 cents each; 240 asparagus plants in pots, 2 cents each; 19 pots of cyclamen, 22 cents each; 4 tulips in pots, 21 cents each; 16 azaleas in pots, 40 cents each; 8 geraniums in pots, 10 cents each; 14 azaleas in pots, 25 cents each; lot of ferns, 1 cent a pot; lot of palms, 14 cents each; 21 Jerusalem cherries in pots, 13 cents each; 18 rubber plants in pots, 10 cents each; 26 palms, 25 cents each; lot of palms, 6 cents each; 11 ferns in pots, 25 cents each; 5 crotons in pots, 6 cents each; 3 large fir trees in pots, 40 cents each; 86 small fir trees in pots, 25 cents each; 5 bay trees, 10 feet in height, \$1.25 each; immense jardiniere of ferns with standard, \$3.

"The above are all good examples of the prices for

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the normal commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unequalled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

LAMBROS MULINOS, 503 Fifth Avenue and 301 Columbus Avenue. I have at all times a superb stock of seasonable cut flowers and can fill telegraphic orders at a moment's notice.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas:

LANG, THE FLORIST, the largest flower store in the South, Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

which all of the stock of plants were sold. Three hundred flower frames went for \$14, a box of 9x7 glass for 30 cents, and about a thousand pots and saucers for 25 cents.

"The prices for which the greenhouses were sold were more ridiculous still. The first bid on the office building was \$1, and it finally sold for \$15. The three greenhouses sold for the prodigious sum of \$17, the boiler house for \$5, the boiler, piping and radiators for \$19, 300 feet of lead pipe for \$6. Totalling up the entire separate sales for the plant, exclusive of the plants, the auctioneer found he had received the sum of \$62. The property was then put up as a whole, and by bids which were in most cases a raise of 50 cents or a dollar, but never over five, the property was sold for an even \$100.

"About all the local florists attended the sale, and the fact that the plants were knocked down for such a low figure gave the auctioneer his chance to twit the florists about how much they must make on the people who buy flowers. The florists didn't buy so many of the flowers as did some of the others present. The low prices had the effect of interesting every one and some said they simply bought the plants to give away. The man who bought 126 primroses was in a quandary as to what his wife would say when the plants arrived, and another who had 16 azaleas on his hands questioned the propriety of his purchase. It will be up to the heads of several families to make an explanation when they apprise their wives of what they have been doing with their money. But the atmosphere was so catching that there was really no help for it but to pick up some of the bargains.

"The terms of the sale are that the buildings are to be removed from the premises before February 15, unless the purchaser can make arrangements with the land owners to renew the lease. Mr. Peckham sells out his retail business to devote his entire time to his wholesale business in Fairhaven."



Bridal Bouquet of Winesap Carnations.

By F. R. Pierson Co.

Artist, James Ivers Donlan.

come an almost indispensable addition where large decorative effects are to be obtained. And if well carried out it looks quite natural to the inexperienced eye. Natural palms were used to finish off the groups. Large clusters of growing lilacs in pots and bunches of white roses, met the eye in appropriate situations, the white and green effects being most pleasing. At each pew was placed a large cluster of white roses, and sprays of epacris tied with ribbon, the epacris making the bunches most attractive and pretty. The pillars were covered with wild smilax, starting within about eight feet from the ground and continuing over from one to the other, forming an arch. Large spray clusters of Alma Ward carnations were arranged about ten feet from the floor of the church, and continued up to the apex of each arch, and, mingling with the Southern smilax, gave one the impression of growing vines in full flower. The bridal bouquet was a wonderful creation of white lilac and Phalaenopsis amabilis, surrounded with A. Farleyense and tied with white ribbon. The bridesmaids carried bouquets of Oncidium splendendum, made up in sheaf form and tied with yellow silk chiffon.

Some Other Decorations.

Sweet peas were charmingly arranged for a large supper given this week. Tables for ten covers were used, the tables being eight in number. Tall glass vases about three feet in height occupied the center of the table; they were filled with large loose bouquets of the sweet pea, Blanche Ferry. The vines had been sacrificed and were hung in graceful festoons from the bouquets, falling to the tablecloth, no other green being used.

At another affair white lilac and Narcissus Golden Spur were employed with good effect, the two flowers being combined in large centerpieces. Lilac

CLUB AND SOCIETY DOINGS.

THE RETAIL FLORISTS' ASSOCIATION OF CHICAGO.—This organization, which has been for several months past in a state of dormancy, now shows signs of rejuvenation and at a recent meeting elected the following officers for the current



C. W. Eichling,
Vice-pres. Society of Southern Florists.

year: President, George Walther; vice-president, George Asmus; secretary, A. Lange; treasurer, C. H. Fiske. It is the intention of the most active members to endeavor to create enthusiasm among the others in the belief that there is much work which could be done by this organization which would ultimately benefit the whole trade.

THE HORTICULTURAL SOCIETY OF CHICAGO filled all its offices but one, for the present year, at a meeting held at the Auditorium Annex on Wednesday of last week. W. N. Rudd, who served last year as secretary under protest, positively declined to further perform the duties of the office which was accordingly left open for the present. The officers elected were: President, E. G. Uiblein; first, second and third vice-presidents, W. C. Egan, Ernst Wienhoeber, and R. H. Warder respectively; treasurer, Ernst Wienhoeber; assistant secretary, E. A. Kanst; executive committee, P. J. Hauswirth, E. A. Kanst, George Asmus, Leonard Kill, J. C. Vaughan, W. N. Rudd, August Poehlmann, and J. B. Deamud; directors, Clarence Buckingham, John J. Glessner, Harlow N. Higinbotham, E. G. Uiblein, Charles H. Wracker, Charles L. Hutchinson, Martin A. Ryerson, F. O. Lowden, John J. Mitchell, and W. E. Kelley.

W. K. W.

ELBERON (N. J.) HORTICULTURAL SOCIETY.—An interesting meeting of this society was held on Monday, January 21, President Robertson in the chair. One new member was elected and two proposed. In the competition for points, A. Bauer scored 90 for a vase of freesia Purity, and P. Murray the same number with a vase of mignonette Golden Machet. I. Kennedy showed a vase of Roman hyacinths; F. Dettlinger staged some good vegetables, and A. Greib exhibited single violets.

W. F. Ross, representing F. R. Pierson Company, Tarrytown, N. Y., was present, and made a few remarks.

TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY.—The regular meeting was held Tuesday evening, January 29, President Howard Nichols in the chair. A fine lot of cyclamen plants were on exhibition. Joseph Bradley, gardener for Mr. Lidenburgh, Hastings, won the first prize with three excellent yearling plants, which any expert cyclamen grower would have felt proud to produce. President Nichols offers a prize for the best twelve roses other than American Beauty for the February meeting. H. C. Griffin of Tarrytown was unanimously elected to honorary membership. Two of the essays on vegetables that were in competition for the Peter Henderson & Company Prize at the Fall show were read, and a lively discussion followed. The authors of the essays were George Standen and Charles Newton.

Resolutions of sympathy were read and adopted on the death of John Egan, one of the society's charter members. Mr. Egan was one of the pioneers as well as one of the most able gardeners in this section. For many years he was in charge of the Guerny estate at Irvington, but latterly had

conducted a florist business in Tarrytown. He was one of the best grape growers in his day and his name was well associated with the production of many things first-class in floriculture. Resolutions of condolence were also sent to Claude Wilson, florist, Debbs Ferry, on the death of his son.

D. M.

NEW JERSEY FLORICULTURAL SOCIETY.—The regular monthly meeting and annual smoker of this society was held on February 1 in the rooms in Orange, N. J. It was a social affair for the members and their friends, and the evening was given up to music, short addresses and refreshments. Among the invited guests were Robert E. Berry, Nell Campbell and William F. Ross, all of whom took part in the proceedings. Carnation Winsor was shown by F. R. Pierson Company, Tarrytown, N. Y., and was received with marks of special favor by the gardeners present. Its color under the electric light is particularly pleasing and harmonious from a decorative standpoint, and its form and substance improve as the season advances, this being its third appearance before the society. Seedling carnations were displayed by Henry Hornacker, a grower of East Orange; and three vases of choice orchids by Julius Roehrs Company, Rutherford, N. J. From the neighboring estates came the almost perfectly grown *Euphorbia jacquiniæiflora* from Peter Duff; a specimen *Cattleya Schroederæ* from Sydney and Austin Colgate, flowered by William Reid; and hyacinths in good form and color from Charles Hathaway, grown by Max Schneider. The extraordinary size of the latter flower was laid by the grower to his planting as soon as the bulbs were received in August, burying, and bringing them out gradually from frame to cellar to forcing heat, the total result accomplished in about six weeks in a moderately cool house.

J. B. D.

Society of Southern Florists.

The first annual convention of this society will be held in New Orleans, on February 14, 15, and 16. For the last three months, various committees have been at work perfecting arrangements for the convention. The meeting place, 210 Camp street, is admirably adapted for the purpose, room for both the trade exhibit and meetings being in the one building, and is centrally located.

This convention is fraught with endless opportunities for mutual benefit and the local committee earnestly trust that a very large number of Southern and Northern florists by their attendance will seize "the tide in the affairs of men, which, taken at

the flood, leads on to fortune." Space in the exhibition hall has been liberally taken, but even now late comers can be accommodated. Prices of space are as follows, viz., 100 square feet, \$15; 50 square ft., \$10; 25 square ft., \$5. All exhibits should be addressed to T. D. Baker, chairman, 2241 Carondelet street, and, of course, all express charges must be prepaid.

A special exhibit of all kinds of cut flowers will be held on the second day of the convention, and it



Joseph Steckler
Treas. Society of Southern Florists

is hoped the commission houses and large wholesale growers who have, or would like to have, an extensive share of the trade in the South, will fall in line and make this a noticeable feature. There is always more or less complaint about the condition of cut flowers on arrival in this market and a really good display would have a tendency to settle many vexing problems in the minds of both retailers and wholesalers.

Several interesting papers will be read, and Professor Barnett will deliver a lecture on some live horticultural subject, with lantern slides, which is sure to be a rare treat.

The question box will be open at each session, and this together with much routine and executive business will fully occupy the attention of the members.

Those who intend taking in the famous Mardi Gras, preceding the convention, will do well to communicate with Mr. Lapouyade, 4412 Bienville street, chairman of a large and energetic reception committee, who will endeavor to find them suitable quarters. The hotels are crowded at that season, and it is well to have a roosting place ensured beforehand. The treasurer, Jos. Steckler, 512 Gravier street, wishes all intending members to send in their subscription of one dollar immediately so as to avoid all delay on the morning of the convention.

One of the first fruits of this convention is sure to be a long list of building operations, and those greenhouse builders who are on the ground can reasonably look for good business. Florists supply houses ought also to get fat orders for Easter novelties. The trade in these two lines will increase by leaps and bounds, and manufacturers must not forget that it is the "early bird," etc.

The entertainment feature has been liberally provided for and true Southern hospitality will be freely dispensed. A grand banquet will wind up the convention on the evening of the 16th. Mayor Behrman of New Orleans will welcome the delegates and Professor Stubbs is slated to reply.

CRESCENT CITY.

FREESIA PURITY is again in bloom in the Rural Grounds' glasshouse, says Dr. Van Fleet, in Rural New Yorker, and is even better than last year, all the plants grown from the larger corms carrying from 60 to 95 buds and blooms each. Planted three in six-inch pots, they grow over 20 inches high under ordinary cool greenhouse treatment, and from veritable banks of bloom at this season. There is a touch of yellow in the throats of some of the blooms, but the general effect is that of translucent, alabaster whiteness. Very good specimens of commercial *Freesia refracta alba*, growing near, look cheap and tawdry beside Purity, but have more fragrance than the latter. The commercial *refracta* generally have but five to seven blooms in a raceme, while those of Purity often open 9 to 11 large flowers. The production of such a strain by prolonged breeding within the species is a meritorious horticultural achievement. The originator, Rudolph Fischer, Great Neck, L. I., is still endeavoring to perfect his strain, and spares no effort to keep it up to its present high standard.



Robert C. Berckmans
President Society of Southern Florists

SCHULTHEIS' SUPERIOR STOCK

Araucaria Excelsa, 5 1/2 in. to 6 in. pots, \$1.00, \$1.25, 4 to 5 tiers; 7-in. pots, \$1.60, \$2.00 and \$2.50; 8 in. pots, 3 1/2 ft. tall, \$3.00.

Azaleas, beautifully flowered, just right, 50c., 75c., \$1.25, \$1.50, \$2.00, \$2.50 and \$3.00 each. Miniature azaleas, \$4.00 and \$5.00 per doz. Also pyramids in quantity from 4 in. 5 in. and 6 in., \$7.00 each.

Begonia Gloire de Lorrains, \$9.00, \$12.00 per doz. Wire hanging baskets, \$1.25, \$1.50 each, can be planted to order.

Pyramid Box, 3 ft. high, \$2.50 to \$3.00 a pair; 3 1/2 ft. high, \$4.00 a pair; 4 ft. high, \$4.50 and \$5.00 a pair; 4 1/2 ft. high, \$6.00 to \$7.00 a pair; 5 ft. high, \$8.00 a pair; 5 1/2 ft. and over, perfect specimens, \$9.00 a pair.

Boston Ferns, 5 in. pots, \$3.00 per doz.; 8 in., \$2.00 each; 9 in., \$2.60 each. Specimens in 12 in. pots, \$5.00, \$6.00 and \$7.00 each; 14 in. pots, \$15.00 a pair.

N. Elegantisissima, 5 1/2 in. pots, \$4.00 per doz.; 6 in. pots, \$6.00 per doz.

Scottii Ferns, 5 in. pots, \$4.00 per doz.

N. Whitmanii, 4 1/2 in. pots, \$9.00 per doz.

N. Piersoni, 8 in. pots, \$16.00 per doz.

Lilacs, white and purple, in pots, \$2.00; also larger plants.

Tulips, in pans, 35c., 50c., 75c. and \$1.00 each.

Tulips, in flats, \$2.00, \$2.50 each, 50 in a flat.

Hyacinths, doz., \$2.00.
Crocus, blue, white and yellow, 35c. per pan.
Snowdrops, 25c. a pot.

COMING ON FOR EASTER!
 3 homes **Crimson Ramblers**, **Dorothy Perkins**, in all shapes; **Baby Ramblers**, **Lilac**; **Heather**, yellow, pink, white, shell-pink; **Boronia**, **Acacia**, **Oranges**, **Azaleas**, and two houses of **Lilies**.

Aspidistra green, 5 1/2 in., \$9.00 per doz.; 6 in. pots, \$12.00 per doz.; 6 1/2 in. pots, \$18.00 per doz.

Daisies, English, \$12.00, \$18.00 and \$24.00 per doz.

English Ivy, 4 1/2 in. pots, \$2.00 per doz.; \$15.00 per 100; 3 to 4 ft. high.

Kentia Forsteriana, combinations, 3 and 4 plants in an 8 in. pot, \$2.50 to \$3.00; 9 in. pots, \$5.00 each; 10 in. pots, \$6.00 and \$7.00 each.

Kentia Belmoreana and **Forsteriana**, all sizes, single and combinations, from 5 1/2 in. pots, 75c., \$1.00 to \$10.00 each. Give us a trial.

Livistonia Stanensis, superior to **Lantania Borbonica**, 6 1/2 in. pots, \$9.00 per doz.; 7 in. pots, \$12.00 per doz.; 8 in. pots, \$18.00 per doz.

Pandanus Veltchii, 4 in. pots, \$3.00 per doz.; 5 in. pots, \$4.50 per doz.; 8 in. pots, \$2.50 each.

Cash or satisfactory New York reference. When sending orders, please state whether plants are to be shipped with or without pots.

ANTON SCHULTHEIS
 19th Street and 4th Ave., COLLEGE POINT, N. Y.

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AN ACTUAL HOLD-UP

Is this offer; any florist will give in when seeing this advertisement. We will deliver f. o. b. New York this Spring a collection as follows (each collection packed individually on the nurseries in Belgium to whoever orders at once; strangers to send satisfactory references or cash, deducting 3 per cent with order).

- 10 **ARAUCARIA EXCELSA**, 8 in., 2-3 tiers.....\$3.50
 - 10 **ARAUCARIA EXCELSA**, 10 in., 3 tiers..... 4.50
 - 5 **ARAUCARIA EXCELSA**, 12 in., 3-4 tiers..... 3.00
 - 10 **KENTIA FORSTERIANA**
 - BELMORIANA**, 5-6 leaves, 3 ft.....17.50
 - 4 **LATANIA BORBONICA**, 5 leaves, 2 1/2 ft..... 6.00
 - 4 **PHOENIX CANARIENSIS**, 6-8 leaves 2 1/2 ft..... 7.00
 - 2 **COCOS WEDDELIANA**, 4-5 leaves, 1 1/2 ft..... 2.00
- TOTAL, \$42.50

You can return plants at our expense if not entirely satisfactory.

JOHN SCHEEPERS & CO., 4-6 Old Slip, New York

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Decorative Plants

Lantania Borbonica, 2 in., \$3.00; 3 in., \$3.00; 4 in., \$15.00 per 100.

Kentia Belmoreana and **Forsteriana**, 2 1/2 in., \$3.00; 3 in., \$16.00; 4 in., \$26.00 5 in., \$50.00 per 100; 6 in., \$16.00 per doz.; 7 in. and upwards, \$1.75 to \$35.00 each.

Arecas, 4 in. 3 in a pot, \$20.00 per 100.

Phoenix Reclinata, 5 in., \$36.00 per 100.

Phoenix Canariensis, fine specimens, \$3.00 to \$35.00 each.

Araucaria Excelsa, 5 in., \$85.00; 6 in., \$100.00 per 100.

FERNS, Boston, Piersoni and Scotti, 4 in., \$15.00, 5 in., \$25.00, 6 in., \$50.00, 7 in., \$75.00, 8 in., \$100.00 per 100. Whitmanii, 2 1/2 in., \$12.00; 3 in., \$25.00; 4 in., \$30.00; 5 in., \$75.00 per 100.

10,000 **Azaleas**, for Easter. Write for prices. Fine lot of **Geantetae**, **Tollips**, **Narcissene**, **Lilies**, etc., for Easter. Write for prices.

JOHN BADER, Troy Hill, Allegheny, Pa.
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ASPARAGUS PLUMOSUS NANUS

Strong plants in 3 in. pots, 8c.
ASPIDIUM TUSSEMENSE, extra fine, bushy plants. 3 in. pots, 8c. These plants are just finishing up the new growth and are in prime condition.

HOLLY FERNS, 3000 nice, but by plants, 2 in. ready to shift into 3 in., 3c.

MIXED FERNS, first class varieties, 3c.

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 NORWALK, CONN.

ASPARAGUS Plumosus Nanus

Seed is in perfect condition. Well ripened and full size. 50c. per 100; \$2.50 for 500; \$4 per 1000. Special prices on large quantity.

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THE WEEK'S WORK.

Timme's Timely Teachings.

Easter Lilies.

Much of the plant grower's attention now centers in the stock to be had in readiness for the coming Easter. Of this, without question, lilies hold the foremost place. To time longiflorum lilies, either of the Bermuda or Japan types, with anything like precision for any set date always calls for the exercise of a fair amount of good judgment, backed by previous experience. But even where this is not lacking, it very often becomes quite difficult to avoid disappointing results.

In the forcing of lilies for Easter very much depends on whether this holiday comes early or late, as also on the degree of ripeness in the bulbs, when planted, which is not the same every season. Then again, progress in forcing, though under the grower's immediate control, is greatly influenced by weather conditions—the most uncertain of interfering agencies to be taken into account.

Easter this year is early (March 31) and this is an advantage in many ways. The holiday rush is more widely separated from the main onset of the general Spring trade, clearing space and affording two more weeks of valuable time for the preparator of the plant-grower. And in the forcing of lilies for Easter it removes to a considerable extent, the difficulties experienced by lily specialists last year, when the stock put forth at Easter proved the most unsatisfactory for years, all owing to the lateness of that important holiday. This is explained by the fact that it is much easier and more productive of high grade lily stock to push growth, even under extreme measures, if necessary, than to hold it back when once started.

Lilies to be right for this year's Easter should now be well forward in crown growth. By the first week in March they should plainly show their buds clustering in the heart of the crown. In this is the case they will be in good time when held at a steady pace in a temperature of 60 to 65 degrees. Those in a lot like these that show an inclination to become stunted or evince slowness in growth after that date should be sorted out and subjected to a heat of 10 or 15 degrees higher, which usually will bring most of them in line with the rest of the lot, provided, of course, that they were sufficiently furnished with roots.

Lilies of the Japan longiflorum class, only recently started into active growth, if well rooted can still be forced into bloom by Easter, by need dropping and gradual heat, rise in temperature until by the second week in March the 75 degree mark is reached and then steadily adhered to, will promote a splendid development and bring about a timely finish of the greater number. Those in need of responding to high pressure forcing right at the start must be separated from the remainder before the highest point of heat is reached and carried along in slower stages, which will avert the onset of disease and probable loss thereby and make them good selling stock after Easter and away into Spring.

Bermuda lilies now showing buds above the foliage should not be held back by reducing the temperature in which they were making their growth, in order to hold them for Easter. This would only result in stunted, second-grade stock. But if these lilies were not too far advanced in development of buds and had been grown cool they might then be carried along nicely until Easter in the same low temperature with a slight rise later on in March.

As with everything else making a rapid growth under excessive thermal conditions, so do lilies require great quantities of water at the roots when well under way in a course of severe forcing. The maintenance of a moderately humid atmosphere in the lily house, and a steadily held temperature of whatever may be deemed proper as to degree, count for much in successful lily culture under glass, more than can be readily given credit for. Frequent sprinkling is necessary, and fumigation at regular intervals, going hand in hand with the utmost care in ventilation, is the most reliable expedient in holding down greenfly. Just at this time a sharp lookout must be kept for colonies of this insect pest, established away down in the crown of well-advanced lilies where smoke cannot reach them. It would mean the speedy ruin of the pushing clusters of buds. Tobacco or nicotine, applied in liquid form, not too strongly made, is here the best remedy.

Dutch Bulbs.

The prevalence of dark and cloudy weather throughout this season up to the present time, while shortening the cut of flowers considerably in all the leading lines, has not had this effect as far as the output of bulbous flowers is concerned. Dutch bulbs willingly respond to forcing in any kind of weather, coming even better in the days of semi-darkness than in those of bright sunshine. And thus it happened that the scarcity in cut material of the better

kinds greatly sharpened the demand for what could be had in tulips, hyacinths and narcissi up to this time, which, however, marked only the beginning of this season's extensive efforts in the forcing of bulbs.

From now on all Holland bulbs, planted in time and now well supplied with roots, may successfully be forced.

Tulips, more than most other Dutch bulbs, are largely grown in boxes for cutting. Where many varieties are to be handled for this purpose alone, it is a good plan to keep up a well-regulated succession, bearing in mind that some may be forced quite early with fair success, while others do much better when bloomed quite late toward Spring. Of varieties most useful for cutting I name **Proserpine**, **Yellow Prince**, **Crimson King**, **Keiserkroon** and **La Reine** as such that could now be most easily forced into a good grade of bloom. All the double-flowered sorts, such as **Yellow Tournesol** and **Salvator Rosa**, force better in two or three weeks from now, as do also **Murillo**, **Scarlet Tournesol**, **Cottage Wlad**, **Victorian**, **Erillien** and the **Forbald** varieties. Parrot tulips and all the dwarf double-flowering sorts, all fine for pots, show up best when forced rather late. Many of the above named come in nicely for Easter, if so desired. Tulips come finest when forced in a high heat, about 70 degrees, and then gradually hardened off in cooler quarters after the bloom is fully out, but bottom heat at all times is detrimental to perfect development. A steady forcing from three to four weeks will bring tulips into bloom. When grown under general Spring trade hardly any real forcing is required.

Dutch hyacinths, narcissi, and some other bulbs belonging to this class, are made to look their gayest, when fully out, by being grown slowly in a light, cool house on a bench affording moderate bottom heat. If there is any choice, then the single-flowering **Dafoedisi** and **hyacinths** should first be brought into the house, and the double-flowering sorts be reserved for later forcing. All these show a marked improvement in the depth and lustre of color in their flowers when regularly fed with liquid stimulants.

Violets.

This is the very best time for the rooting of violet cuttings or for the boxing of rooted runners. The first essential, the one so often overlooked in spite of all the advice so freely extended, is perfect health and unmistakable vigor of any part taken from the old plants for propagation. No days are lengthening and becoming brighter as Spring draws nearer, an abundance of side growth is put forth by violets of any variety not entirely exhausted by either disease or mismanagement. And it is now when it is easiest to discriminate between good and bad material, for these new runners, as well as by the appearance of the old stools.

Stock that has done and is still doing fairly well, having been grown in a house and under conditions suitable for violets, usually furnishes enough of the very choicest material for propagation at this time to render the taking of any other entirely unnecessary. And yet, as I have reason to know, the average greenhouse assistant, set to gathering in the runners for propagation and acting under explicit instructions, soon falls back into his old way of taking material of almost any type, entirely forgetting the need of close examination. None but the healthiest, sturdiest runners should be selected for the making of future stock, and when such are not held forth by what is on the place it is best to purchase new stock for the coming season's propagation at violet growing. It is strange, indeed, that this admonition, so oft repeated and of such vast importance in the bringing of success with violets, is but rarely heeded by most of the smaller growers seeking advice.

Violet cuttings may be rooted in the sand of the regular propagating bench, choosing for them the coolest end of the bed and boxing them up when rooted. Or they may be dibbled in or pricked out into flats, about three inches deep and of convenient size to lift. In this case a sandy soil, fairly rich and thrown through a finely-meshed sieve, is employed instead of pure sand. These flats allow of being placed wherever it would seem most favorable for the wellbeing of the young stock after it has become well established or is, at least, beyond the first stage of germination, during which period a good shading on bright days is needful. Ample provision for drainage must be made in filling the trays with soil, and care in watering the cuttings also is necessary, as well as in the spraying from overhead. The runners or cuttings must in no time be given the slightest chance to wilt, neither before nor after insertion, and it is well to take off but a limited number at a time, so that during all the time of preparing them for the sand or the soil they remain fresh and crisp. Many of the runners will have made a beginning in the formation of tiny roots while yet in the bench and attached to the old stools. This alone should furnish no reason for taking them in preference to unrooted runners, unless they also possess all the other attributes looked for in a violet cutting. Watered carefully and guarded against sunshine, the cutting will soon be in a condition to bear the full light and a more generous

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allowance of fresh air, which latter can be given in unstinted measure after roots have formed. A high shelf, close up to the glass, in a cool and airy house is a good place for the stock growing in trays.

Chrysanthemums.

Although there is yet plenty of time for the propagation of chrysanthemums to be grown as purely commercial stock, it is now the proper time to begin operations when it is intended to give some of the slow-growing varieties a more thorough trial by making an early start than heretofore. It will be found that early struck cuttings of such kinds and many varieties usually making a very soft growth right after being rooted will grow into a better grade of stock than those struck in the warmer days of Spring.

Again, the grower of chrysanthemums for exhibition purposes must rely on early propagation as productive of the best possible results. The month of February is considered none too soon for the taking of the first cuttings if these can be had in proper shape and condition. It is easy to call for a plentiful supply of good cuttings from plants placed on a warm and well-lighted bench. Cuttings from old clumps not properly taken care of or being kept under the bench and deprived of room and light will root, but are not the kind that promise best. It always pays to give stock plants of all kinds the most favorable position that can be found, and chrysanthemums furnish no exception to this well-established rule.

Only well-shaped, sturdy, short-jointed cuttings should be taken for propagation. The best and in fact, the only ones to take are those coming from the ground about the crown of the clump of roots all around the base of the old stem. Thin and spindly shoots and those coming directly from the stem should be rejected, since they will never amount to anything worth having.

It is always necessary in preparing the cuttings for the sand in the lowermost leaves. They will root in any ordinary propagating bench, but must be kept crisp and fresh by frequent sprinkling and by a shading on sunny days. Leaving them in the sand until the roots have grown to much over half an inch in length weakens them to a considerable extent, and potting them as soon as the first beginnings to root-formation are made sure of is one of the important points that should be observed, if first-class plants are to be the issue. They are then placed in cooler quarters and afforded plenty of light and air.

English Ivy.

All the varieties of hederæ—and there are a great many—deserve to be brought back to their old-time popularity, not so much as subjects for conservatory and living rooms as for screening and ornamentation during the Summer. In late years English ivies, clean and nicely grown and offered in the usual market sizes, have sold well at nearly all seasons. But it is in the Spring, when the busy plantsman always seeks an screening and trailing plants with a deep green dense foliage, appreciates ivies most. And the people, too, have begun to prefer them to the everlasting and omnipresent vincas. But ivies are most serviceable in many other ways besides being good filling material for window boxes or vases. It is only necessary to have them in order to find good use for them. English ivy propagates easy enough at any time, but if plants too old and bulky or bare and unshapely were now cut into pieces and these rooted, good thrifty stock could be worked up for future use.

FRED. W. TIMME.

WHITMANI FERN

Large stock of strong plants, 2 1/2 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN

3 inch pots.....\$ 8.00

SCOTTII

2 1/2 inch pots.....\$ 5.00
4 inch pots..... 12.00

KENTIA FORSTERIANA

4 inch pots, made up, strong and bushy.....\$25.00
5 inch pots, made up, strong and bushy..... 50.00

No order for less than 10 plants accepted.

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SPECIAL OFFER

Cyclamen Splendens Giganteum. This strula has no equal or better; in five colors, including fringed varieties twice transplanted from flats \$3.00 per 100, \$25.00 per 1000.

Primula Obconica Grandiflora. The celebrated Roasdorfer and Lattmans Hybrids in bud and bloom, from 5 in. pots, \$1.80 per doz., \$15.00 per 100.

Primula Chinensis. Fringed varieties, extra fine plants in bud and bloom, from 4 in. pots, \$1.00 per doz., \$8.00 per 100.

Cinerarias Hybrida Grandiflora. Well grown plants, 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 5 in. pots \$15.00 per 100.

Asparagus Plumosus Nannus. Fine plants, 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 3 1/2 in. pots \$8.00 per 100.

Cannas. Pres. McKinley, Alph. Bonviller, Chicago, Queen Charlotte, Florence Vaughan, Egandale, J. D. Cahos, fine tubers, no better, true to name; \$2.00 per 100, \$17.50 per 1000.

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ELEGANTISSIMA FERN RUNNERS

Very fine stock, \$1.50 per 100; \$12.00 per 1000. TARRYTOWN, Bench, 2 1/2 in., 4c.; 3 in., 10c.; 4 in., 15c.; Runners \$1.60 per 100.

ROOTED CUTTINGS, prepaid per 100,

Paris Daisy, white, \$1.00; Alexandria, \$1.25. Fuchsias, 5 kinds, \$1.25. Ageratum, white, Gurney, Pauline, 60c. Vines Variegata, 90c. Salvia, Bonfire, Splendens, 90c. Alternanthera, 3 kinds 50c. Heliotrope, 3 kinds \$1.00. Rex Begonias, 20 kinds mixed \$1.25. Flowering Begonias, 8 kinds \$1.25. 'Mums: Tranter, Alliance, Weeks, Enguehard, \$1.25. Cash or C. O. D.

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FERNS MY SPECIALTY

Please notice the big reductions. Cibotium Schiedel, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:

3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100; 5 " " 50.00 " 1.70 each. Large specimen, \$5.00 each. Adiantum Regina, a beautiful fern, also called the hardy Farleyense, 4 in. strong plants, \$25.00 per 100; Adiantum Rhodophyllum, 4 in., \$20.00. Assorted ferns for jardinières, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 50 at 100 rate.

J. F. ANDERSON,

Successor to Anderson & Christensen, SHORT HILLS, N. J.

Mention The Florists' Exchange when writing.

NEPHROLEPIS

Whitmani, 2 1/2 in., \$10.00 per 100. Boston, 2 1/2 in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass.
Mention The Florists' Exchange when writing.

BOSTON FERNS

Very fine bushy stock from 6 in. pots 60c.; 7 in. pots \$1.00; 8 in. pots \$1.50; 9 in. pots \$2.00.

FRANK N. ESKESEN, MADISON, N. J.
Mention The Florists' Exchange when writing.

Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round

JOHN SCOTT

Rutland Road & E. 45th St., BROOKLYN, N. Y.
Telephone 2990 Bedford.
Mention the Florists' Exchange when writing.

SEASONABLE STOCK

CANNAS—Alsace, Austria, Charles Henderson, David Harum, Duke of Marlborough, Italia, Mlle. Berat, Shenandoah, \$2.00 per 100, \$17.00 per 1000.

Beaute Poltevine, Crimson Bedder, Egandale, Florence Vaughan, Queen Charlotte, Souv. de Antoine Crozy, \$3.00 per 100, \$25.00 per 1000.

(See catalog No. 5 for complete list)

AZALEA MOLLIS, Grand for forcing, bushy and full of buds. 12 to 15 in. high, \$25.00 per 100.; 15 to 18 in. high, \$35.00 per 100. RHODODENDRONS, Bushy, bright foliage, full of buds. Forcing Varieties. 18 to 20 in. high, \$9.00 per doz.; 20 to 24 in. high, \$12.00 per doz.

TUBEROUS ROOTED BEGONIAS—White, Pink, Searlet, Crimson and Yellow. Single Flowered, \$2.50 per 100; Double Flowered, \$4.50 per 100.

GLOXINIA BULBS—Separate Colors, White, Red, Violet, Violet Bordered White, and Red Bordered White, \$4.00 per 100.

The STORRS & HARRISON CO., PAINESVILLE, OHIO.

Mention the Florists' Exchange when writing.

ROBERT CRAIG & CO ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts. PHILADELPHIA, PA.

Mention The Florists' Exchange when writing.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.

Sander, St. Albans, England and 235 Broadway, Room 1, New York City

Mention the Florists' Exchange when writing.

ORCHIDS

Arrived in fine condition, Cattleya Harrisoniae, C. Intermedia, C. Gigas, C. Trianae, Speciosissima, C. Leopoldi, Laelia Purpurata, Oncidium Varicosum Rogersii, O. Marshallianum, Phalaenopsis Amabilis and P. Schilleriana. Write for prices.

LAGER & HURRELL, Summit, N. J. Growers and Importers

Mention The Florists' Exchange when writing.

KENTIA BELMOREANA

5 in., clean and bushy, 50c. and 75c. each. 2 1/2 in., for center of fern dishes, 10c. each; \$9.00 per 100.

SCOTTII FERNS, 6 in., 40c. DRACAENA INDIVISA, 6 in., 35c. FERNS FOR JARDINIÈRES, etc., \$3.00 per 100

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

Asparagus Sprengeri

1600 very full, 2 1/2 in. pots, \$2.50 per 100

GEORGE LISBURG, Florist East Hampton, L. I.

PALMS AND FERNS

Write for Price List.

The Geo. Wittbold Co. 1657 BUCKINGHAM PLACE CHICAGO

Mention the Florists' Exchange when writing.

VIOLET CULTURE

Price, \$1 50 Postpaid

A. T. De La Mare Ptg. & Co. Ltd., New York

ARAUCARIA AND AZALEA INDICA

Our Specialty

The time for parties and balls is now on the programme. What will you use to decorate? Take my advice and use for a change an ARAUCARIA COMPACTA, ROBUSTA or GLAUCOA—the kind and size I grow. You will be surprised what a lovely effect they will have when placed upon tables of dinner or supper parties, or any other place in the house. These plants I have got on hand now are a Wonder of Nations.

Price: 6-7 in. pots, 4-5 years old, as broad as high, 4-5-6 tiers, from 22-25 in. in height, \$1.50, \$1.75, \$2.00 to \$2.50 each. Glauca specimens 7 in. pots, 36 in. high, 36 in. wide, 5 tiers, \$2.50 to \$3.00; 6 in. pots, 3 years old, 4-5 tiers, \$1.00, \$1.25 to \$1.50 each.

KENTIA FORSTERIANA PALMS not scarce with us; have plenty and can meet all wants, cheaper than ever; 5 1/2 to 6 in. pots, 30 in. high, 5 good leaves, 60c., 75c., and 85c. each. 7 in. pots, made up, 1 large size, about 40 to 45 in. high in the center, and three smaller size plants 25 to 30 in. high around, which gives them a fine appearance, price \$2.00 to \$2.50 each. 6 in. pots, single plants 36 to 45 in. high, 5 to 6 good leaves, 4 years old, \$1.25, \$1.50, \$1.75 each. 6 in. pots, 32 to 36 in. high, 5 to 6 good leaves, \$1.00 each. 5 1/2 to 6 in. pots, 30 in. high, 5 good leaves, 4 years old, 75c. to 85c. each.

ARECA SAPIDA, just imported from Belgium, something new, looks like Kentia palms, about 25 in. high. Lock only 50c. each, worth \$1.00. This is a bargain seldom offered.

ASPARAGUS SPRENGERI, 4 in. pots, 10c.

FERNS

All raised in pots and not on benches as follows:

NEPHROLEPIS BARROWSII, 7 in. pots, as high as a bushel basket, 75c. to \$1.00 each. 6 in. pots, large ready for 7 in., 50c.; 5 1/2 in. 40c.; 5 in. 30 to 35c.; 4 in. 25c.

BOSTON FERNS, 7 in., very bushy, only 75c.; 6 in., 50c. or \$5.00 per doz.; 5 in., 30c. to 35c.; 4 in. 20c.

NEPHROLEPIS SCOTTII, 8 in.; as high as a wash tub, worth \$2.00, now \$1.25; 7 in.; as high as a bushel basket, worth \$1.25, now 75c.; 6 in., 50c.; 5 1/2 in. 40c.; 4 in. 20c.

DRACAENA BRUANTI, 6 in. pots, 30 in. high, 50c. each.

CINERARIA HYBRIDA, H. F. Mitchell's best strain, 2 1/2 in. pots, \$4.00 per 100, 3 in. strong plants, ready for 7 in., 50c.; 5 1/2 or 6 in. pots, \$7.00 per 100; 4 in. \$10.00 per 100.

AZALEA INDICA for Easter blooming, all best American varieties, 50c., 75c., \$1.00, \$1.25, to \$1.50 each. AZALEAS in bud and bloom now, Deutsche Palm, Strone, Mariner and variegated 60c.; 75c., to \$1.00 each.

All goods must travel at purchaser's risk. When ordering, say whether the plants should be shipped in the pots or not. Cash with order.

GODFREY ASCHMANN

Importer and Wholesale Grower of Ferns, 1012 Ontario St., PHILADELPHIA, PA.

St. Louis, Mo.

News Notes.

Visitors the past week were: B. Eschner of M. Rice & Company, Philadelphia; Arnold Ringler and J. F. Lembke, both representing W. W. Barnard & Company, of Chicago; R. W. Eastlick, a representative of the Bombay Reed Manufacturing Company, of Columbia, S. C.; and C. B. Knickman selling nursery stock for McHutchinson & Company of New York. J. J. Klerns, representing H. A. Dreer, Philadelphia, got in with the cold wave Sunday morning.

C. C. Sanders recently purchased 17 acres of land on the North and South road to be used for the planting out of young nursery stock. This makes three places operated by Mr. Sanders.

D. I. Bushnell, one of our leading seedsmen, has returned home after an extended trip through South America.

W. H. Smith, father of William C. Smith, died on Sunday last after a lingering illness. Mr. Smith was a brother-in-law of W. Edlefsen and father-in-law of A. V. Hunkel of Holton & Hunkel, Milwaukee. The funeral took place Tuesday afternoon from his late residence, 1716 North Grand avenue. The trade extend their sympathy to William C. Smith and his mother.

Dr. William Trelease, director of the Missouri Botanical Garden, has gone on an extended trip through the West India Islands, looking up rare plants for the Garden. He will be absent two months.

The Trustees of Tower Grove Park, who receive an appropriation each year of \$25,000 from the city for maintenance, have in their report to the Municipal Assembly asked for an increase, claiming the old amount not enough.

C. A. Kuehn and J. J. Beneke will spend a few days in Kansas City, Mo., next week on business and pleasure. While there they will both take part in the State bowling tournament.

The St. Louis Horticultural Society has applied for \$200 of the Shaw prizes for their Spring flower show to the directors of the Missouri Botanical Garden.

C. Young & Sons Company have issued their Spring catalogue which is very handsomely gotten up with colored plates.

James W. Dunford, Clayton, who has more glass than any other florist here, has a fine lot of bulbous stock coming on for the Easter trade; lilies especially are looking fine.

The florist bowlers had a fine time on last Monday night at the new De-soto alleys. Some very good scores were made during the evening. George Schriever was high man with 549; Henry Lohrenz was second with 499; Kuehn next, 476; Smith, 471; Fred Alves, 423 and Ed. Gerlach, 404. ST. PATRICK.

Indianapolis.

News Notes.

St. Valentine's Day, just two weeks hence, has proven itself most worthy of the florists' attention. The popularity of flowers as valentines is increasing each year, as the general public seems to appreciate the natural messengers of affection much more than those made of manufactured material. The local florists are making preparations for an unusual call on that day.

The State Florists' Association of Indiana held its monthly meeting February 5. The subject considered was the annual Spring show.

E. N. Weygandt has a fine crop of Blanche Ferry sweet peas.

D. M. Parry, the buggy manufacturer, is to arrange his conservatory on a commercial basis by adding more glass.

Mr. Craig of the Sefton Manufacturing Company is accompanied by his bride on the present trip. His many friends wish them good luck.

Fred Dorner visited the carnation growers in this city last week; other visitors were: M. Reukauf, en route to California; Mr. Struck, Summit, N. J.; and Mr. Whitehill, Fishkill, N. Y. I. B.

St. Paul.

News Notes.

E. F. Lemke is cutting some of the finest violets ever seen in this market; they are single, the flower being almost as large as a pansy and the stems fully 12 inches long. His Enchantress and Lawson carnations are also very fine. Undoubtedly the improvements made in his Snelling avenue greenhouses have repaid him well.

Wm. Swanson of Hangen & Swanson, violet growers, was bitten by a mad dog a few weeks ago, and has gone to Ann Arbor, Mich., for treatment. It is hoped by the trade in general that nothing serious will result.

L. L. May & Company's roses are just beginning to come in nicely; the bright weather of the past weeks has helped out wonderfully and we can expect much better conditions in the rose market.

The Warrendale Floral Company has sent in some very nice Bride and Bridesmaid the past week; their Richmond have not done so well, but on account of the short supply were sold readily.

Helm & Olson have ordered a number of walnut fixtures for their new store. PAUL.

Buffalo.

News Notes.

We have had the first week of steady cold weather, beginning Sunday, January 23, with the worst storm in the history of Buffalo. The wind blew at the rate of 84 miles per hour, and did a great deal of damage.

J. H. Rebstock has opened a wholesale store at No. 11 Chippewa street. This will enable him to cater to the market trade.

John Pickelman has opened a branch store in Genesee street near Elm.

Wm. F. Kasting and W. J. Palmer have returned from the Toronto convention. They report having had a good time, considering that the temperature was sixteen degrees below zero. Several of the delegates stopped off here on their way home, among them George Asmus and Phil. J. Hauswirth of Chicago; Paul Berkowitz, S. S. Pennock and W. P. Craig from Philadelphia, and J. E. Valentine from Denver, Col.

W. J. Palmer & Son had the Letchworth ball decoration at the Twentieth Century Club, using palms, American Beauty roses and Harrisii lilies.

There was a large attendance at the funeral of the late James Braik last week. The services were held in the home on Elmwood avenue in Delaware Park, Saturday afternoon. Rev. James R. Logue of the First United Presbyterian Church conducted the funeral. Delegations were present from the Florists' Club, St. Andrew's Scottish Society and the Buffalo Gordon Highlanders, of which Mr. Braik was first captain. Members of the park department served as honorary bearers, the active bearers being members of Lake Erie Commandery 20, Knights Templar. Burial was in Forest Lawn cemetery. W. H. G.

Grand Rapids, Mich.

The Week's News.

The weather has been very unseasonable for January. On the 18th and 19th it was warm and fairly poured night and day, causing the Grand River and all its tributaries to flood; then the thermometer dropped, the rain turned to snow, and the water froze up solid under a zero temperature. An ice jam formed, and the ice and water flooded a portion of the West side. Gangs of men have been making sand bag embankments to stay the course of the flood, and with a fair degree of success. All the factories in the flooded districts had to shut down; now that the worst of the danger is over, some expect to re-open Monday. The downtown district suffered from basements and cellars filling up with water and ice, backed up from the sewers.

The Florists' Club, which has been dormant for several years, was re-organized at a meeting held Thursday night at the Board of Trade rooms, on Pearl street. Henry Smith presided, with Mr. Freyling as secretary.

22 FIRST PRIZES THIS SEASON

Is a record we are proud of and one that should WARRANT you to send US your order for rooted cuttings, as you are assured of clean, healthy stock; first class in every respect.

	Per 100	Per 1000
ARISTOCRAT, beautiful cerise...	\$12.00	\$100.00
RED RIDING HOOD, scarlet...	12.00	100.00
DAYBREAK, LAWSON or MELODY	6.00	50.00
HELEN GODDARD.....	5.00	40.00
FIANCEE.....	4.00	30.00
WHITE LAWSON.....	3.00	25.00
LADY BOUNTIFUL.....	3.00	25.00

	Per 100	Per 1000
WHITE PERFECTION.....	\$6.00	\$50.00
We have the largest stock of this grand variety in the country.		
LIEUTENANT PEAR.....	4.00	30.00
CARDINAL, scarlet.....	4.00	30.00
RED LAWSON.....	4.00	30.00
VICTORY.....	6.00	50.00
VARIEGATED LAWSON.....	3.00	25.00
HARLOWARDEN.....	2.00	15.00

CHICAGO CARNATION CO. A. T. PYFER, Mgr. **JOLIET, ILL.**

JOHN E. HAINES

The leading scarlet, brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place.

ROOTED CUTTINGS, \$6.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

ROOTED CUTTINGS

February and March Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices.

ALBERT M. HERR, LANCASTER, PA.

The idea is to expand the club so that it will include not only florists but lettuce growers, nurserymen, seedsmen, or any one interested in horticulture in any of its branches. A committee of three was appointed to draw up a set of new by-laws, consisting of N. B. Stover, Frank M. Strong and George F. Crabb. Another committee consisting of Mr. Freyling, George F. Crabb and Alfred Hanna was appointed to prepare a list of prices on bedding stock. There was an attendance of 14, and judging from the interest taken and the enthusiasm shown, the revived club will be a success. GEORGE F. CRABB.

Toledo, O.

News Items.

Our last club meeting was a very lively affair, with carnations the main issue. It is to be greatly regretted that the present members were so few in number, but they had to attend to their firing to a very large extent, as the night was very cold. A nice bunch of Aristocrat, as we guessed the name, was sent to the club from Joliet; and should this not be the right guess the Chicago Carnation Company will please inform us hereof. Kuhuke's scarlet seedling, which was also shown, promises to be a good thing; it has good substance, is of fine color and kept well with me, who took a few flowers home.

The blood of our club has been started to quicker circulation through the decision that the next meeting shall be devoted entirely to carnations, and all members and the nearby florists will be asked to exhibit some of their choicest flowers and attend "in corpore." We have some pretty good growers in town and in the neighborhood, and ought to be able to put up a good show.

The Perennial Gardens Company will make the new Pink Baby Rambler Anny Müller and the new Salvia Zurich their leading specialties. Their new plant, consisting of six houses, each 18x125 feet, is now in perfect order, and the electric circulator, furnished by the Holly-Castle Company, works to their entire satisfaction.

David Johnson, a market gardener, is making preparations for the erection of two new houses for lettuce, each 40x200 feet; the material will be bought all locally. S.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock

VINSOR and HELEN M. GOULD, \$12.00 per 100 \$100.00 per 1000.
ROBERT CRAIG VICTORY, HELEN GODDARD, \$6.00 per 100, \$50.00 per 1000.
RED LAWSON and VARIEGATED LAWSON, \$4.00 per 100 \$30.00 per 1000.
ENCHANTRESS, LADY BOUNTIFUL, NELSON FISHER, and WHITE LAWSON, \$3.00 per 100, \$25.00 per 1000.
BOSTON MARKET, GENERAL MACEO, MRS. T. W. LAWSON, PINK ARMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

	Per 100	Per 1000
VERBENAS—Best Mammoth, rooted cuttings	\$1.00	\$8.00
Ageratum, Cope's Pet, White Cap, P. Pauline and Stella Gurney	1.00	8.00
Achyranthes, 4 sorts.....	1.00	8.00
Colona, best bedding and fancy sorts	1.00	8.00
Cucubita, Platycentra.....	1.25	10.00
Fuchsia, double and single varieties	2.00	15.00
Ferofewer, The Gem.....	1.50	12.00
Geraniums, double and single.....	2.00	15.00
Heliopsis, light and dark.....	1.25	10.00
Ivy, German.....	1.25	10.00
Moon Vine, true white.....	2.00	15.00
Salvia, splendens, Bedman, etc.....	1.25	10.00
Salvia, new early flowering sorts.....	1.50	12.00
Vinca, variegated and Elegans, 2 1/2 in. pots.....	3.00	

	Per 100	Per 1000
PLUMOSUS NANUS, 2 1/2 in. pots.....	4.00	
" " 3 in. pots.....	8.00	
" " 4 in. pots.....	10.00	
SPRENGERI, 2 1/2 in. pots.....	3.00	
" 3 in. pots.....	6.00	
" 4 in. pots.....	8.00	

CANNAS
Strong dormant roots in 30 fine varieties \$2.00 and \$3.00 per 100; \$18.00 and \$25.00 per 1000.

Grafted ROSES Own Roots
Orders booked for early delivery. KILLARNEY, RICHMOND, JOE HILL, KAISERIN, GARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, FERLE, SUNRISE, SUNSET, etc.

MANETTI STOCKS
\$1.25 per 100; \$10.00 per 1000.
Send for List.

WOOD BROS., FISHKILL, N. Y.

A. B. DAVIS & SON, Inc.
PURCELLVILLE, VA.

Place your orders now for Red Sport cuttings, the best red carnation grown, \$3.00 per 100; \$25.00 per 1000.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa.
Mention the Florists' Exchange when writing.

S. J. GODDARD
Framingham, Mass.

Rooted Carnation Cuttings a Specialty.
Correspondence Solicited.
Mention the Florists' Exchange when writing.

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Price \$6.00 per 100. \$50.00 per 1000. 43 W. 28th St. NEW YORK. Grower, LYNNBROOK, L. I.

CARNATIONS

WELL ROOTED CUTTINGS, HEALTHY STOCK

PINK		WHITE	
Per 100	Per 1000	Per 100	Per 1000
Lawson.....	\$1.50 \$10.00	Boston Market.....	\$1.25 \$10.00
Nelson.....	1.50 10.00	Lady Bountiful.....	2.00 17.50
Nelson Fisher (cerise).....	2.00 17.50	White Lawson.....	3.00 25.00
LIGHT PINK		RED	
Enchantress.....	2.50 22.50	Robert Craig.....	6.00 60.00
VARIEGATED		Cardinal.....	2.50 20.00
Mrs. Patten.....	2.00 17.50	Estelle.....	2.00 17.50

ROSES Strong and Well Rooted Cuttings

		Per 100 Per 1000	
Richmond.....	\$1.50 \$12.50	Uncle John.....	\$1.50 \$12.50
Liberty.....	2.00 17.50	Chatenay.....	1.50 12.50
Bridesmaid.....	1.50 12.50	Ivory.....	1.50 12.50
Bride.....	1.50 12.50	Perle.....	2.00 17.50
Sunrise.....	3.00 25.00		

Peter Reinberg

51 Wabash Ave., CHICAGO

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

Ready for Delivery

		100	1000		
Enchantress.....	\$2.50	\$20.00	Victory.....	\$6.00	\$50.00
Lawson, pink.....	2.00	15.00	Cardinal.....	3.50	30.00
Genevieve Lord.....	2.00	15.00	Lady Bountiful.....	3.00	25.00
Helen Goddard.....	5.00	45.00	Boston Market.....	2.00	15.00
Robert Craig.....	6.00	50.00	Queen.....	2.00	15.00

We can furnish cuttings of all the Standard Varieties

Send for Price List

THE LEO NIESSEN CO.

1217 Arch Street, Philadelphia

ROOTED CARNATION CUTTINGS READY NOW

Strong, Healthy and Thoroughly Rooted Cuttings of the following varieties:

		100	1000			100	1000
Victory (scarlet).....	\$6.00	\$50.00	Lient Peary (white).....	\$3.50	\$30.00		
Robt. Craig.....	6.00	50.00	Lady Bountiful.....	3.00	25.00		
Red Sport.....	3.50	30.00	White Lawson.....	3.00	25.00		
Enchantress (pink).....	2.50	20.00	Boston Market.....	2.00	15.00		
Lawson.....	2.00	15.00	Queen.....	2.00	15.00		
Mrs. M. A. Patten var. 2.50	2.50	20.00	Queen Louise.....	2.00	12.50		

Remember we guarantee satisfaction.

250 of any one variety at 1000 rate. Write for discount on large orders.

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

ROOTED CUTTINGS

		Per 100	Per 1000			Per 100	Per 1000
WHITE—Queen.....	\$1.50	\$12.50	Helen Goddard.....	\$4.00			
Lady Bountiful.....	2.50	16.00	Edhel Ward.....	2.00	2.00	315.00	
White Lawson.....	2.00	15.00	RED—Red Lawson.....	2.00	2.00	16.00	
PINK—				Robert Craig.....	5.00		
Lawson.....	1.50	12.50	Harry Fenn.....	2.00	2.00	15.00	
Pink Patten.....	4.00		VARIEGATED—Mrs. Patten.....	2.50	2.50	20.00	
Victory.....	6.00						

QUIDNICK GREENHOUSES J. B. CUSHING Prop., QUIDNICK, ANTHONY P. O., R. I.

30,000 ROOTED CARNATION CUTTINGS READY NOW

Strong, Healthy and well rooted, in following varieties:

		Per 100	Per 1000			Per 100	Per 1000
VICTORY.....	\$6.00	\$50.00	PINK LAWSON.....	2.50	20.00		
ROBERT CRAIG.....	6.00	50.00	WHITE LAWSON.....	2.50	20.00		
JOHN HAINES.....	6.00	50.00	GOETHE.....	1.80	15.00		
ABUNDANCE.....	5.00	40.00	OENEVIEVE LORD.....	1.80	15.00		
THE QUEEN.....	1.80	15.00	PROSPERITY.....	1.80	15.00		
ELDORADO.....	1.80	15.00	MANLEY.....	2.50	20.00		
WM. SCOTT.....	1.80	15.00	HARRY FENN.....	2.00	15.00		
			ROOSEVELT.....	2.00	15.00		

GLADIOLUS, BRENCHELEVISNIS, Per 100, \$1.50; per 1000, \$12.00. SHAKESPEARE, 6.00; " 40.00. MIXED, best white and pinks, extra bulbs, per 100, \$2.00; per 1000, \$16.00.

COLEUS, VERSCHAFFELTII, rooted cuttings, ready Feb. 20, per 100, \$1.00. CANNAS, KING HUMBERT, per doz., \$2.00; per 100, \$15.00. AUSTRIA, per 100, \$3.00. BLACK BEAUTY, per 100, \$3.00.

C. F. BERTANZEL, ROSLYN, L. I., N. Y.

UNROOTED CARNATION CUTTINGS

ENCHANTRESS, QUEEN, FAIR MAID, RED SPORT, HARLOWARDEN, pink, white and variegated LAWSON, \$10.00 per 1000. WHITE PERFECTION and VICTORY, \$30.00 per 1000. LADY BOUNTIFUL, \$12.00 per 1000. LIEUTENANT PEARY, \$15.00 per 1000. SCOTTIE FERNS, 6 in., \$25.00 per 100. COLEUS, Verschaaffeltii and Golden Bedder, 2 in., \$13.00 per 1000.

ROOTED

VICTORY, \$50.00 per 1000. QUEEN, \$15.00 per 1000. LADY BOUNTIFUL, \$30.00 per 1000.

Larchmont Nurseries

Larchmont, N. Y. Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

		Per 100	Per 1000
WHITE PERFECTION.....	\$6.00	\$50.00	
LIGHT PINK LAWSON.....	6.00	60.00	
GLENDALE.....	6.00	60.00	
VICTORY.....	6.00	50.00	
ROBERT CRAIG.....	6.00	60.00	
CARDINAL.....	4.00	35.00	
FRANCE.....	3.60	30.00	
LADY BOUNTIFUL.....	2.50	20.00	
THE BELLE.....	2.50	20.00	
WHITE LAWSON.....	2.50	20.00	
ENCHANTRESS.....	2.50	20.00	
NELSON FISHER.....	2.50	20.00	
HARRY FENN.....	2.00	15.00	
MRS. T. W. LAWSON.....	2.00	15.00	
ESTELLE.....	2.00	15.00	
BOSTON MARKET.....	1.60	12.00	
WHITE CLOUD.....	1.00	8.00	

ASPARAGUS Strong, ready for shift ASPARAGUS SPRENGELI, 3 in. at \$4.00; 4 in. at \$6.00 per 100; 5 in. at \$20.00. ASPARAGUS PLUMOSUS, 2 1/4 in. at \$2.50; 3 in. \$5.00; 4 in. \$9.00; 6 in. \$25.00 per 100.

W. J. & M. S. VESEY, Fort Wayne, Ind. Mention the Florists' Exchange when writing.

White Enchantress

white sport of Enchantress, rooted cuttings \$12.00 per 100; \$100.00 per 1000.

E. SCHRADER, NEW SPRINGVILLE Richmond Borough, N. Y. Mention the Florists' Exchange when writing.

Robert Craig Carnations

Fine, strong plants, 1 1/2 in. pots, ready to top and pot on, \$6.00 per 100; \$50.00 per 1000. Victory, 1 1/2 in. pots, \$6.00 per 100; \$50.00 per 1000.

ROBT. C. PYE, NYACK-ON-HUDSON, N.Y. Mention the Florists' Exchange when writing.

ABUNDANCE

2 in. pots, ready to top, \$4.50 per 100; \$40.00 per 1000.

S. PETERSON, Maple Grove Cemetery, RICHMOND HILL, L. I., N. Y. Mention the Florists' Exchange when writing.

ABUNDANCE

Rooted cuttings of the most prolific white carnation will be ready for delivery in January. Price, \$5.00 per 100; \$40.00 per 1000; 250 at 1000 rate; 5 per cent. discount for cash with order.

RUDOLPH FISCHER, Great Neck, L. I., N. Y. Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

Well rooted cuttings of Enchantress (best light pink), Robert Craig (dina red), Nelson Fisher (best dark pink), M. A. Patten (excellent variegated), W. Lawson and P. Lawson. Our stock Green, H. Fenn, and Fair Maid, \$2.00 per 100. Orders taken now will be ready for February and March delivery. Send for our price list.

VALLEY VIEW GREENHOUSES VILLIE Bros., Props. MARLBROOUGH, N. Y. Mention the Florists' Exchange when writing.

CARNATIONS

Rooted cuttings Victory, \$6.00 per 100; \$50.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patten, \$2.50 per 100; \$20.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Fenn, and Fair Maid, \$2.00 per 100; \$15.00 per 1000. 5 per cent. discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass. Mention the Florists' Exchange when writing.

CARNATIONS

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

CARNATION CUTTINGS

READY FOR IMMEDIATE OR LATER DELIVERY Victory, \$8.00 per 100; \$50.00 per 1000 Lady Bountiful, \$3.00 per 100; \$25.00 per 1000 Variegated Lawson, \$4.00 per 100; \$30.00 per 1000 Pink Patten, \$5.00 per 100; \$40.00 per 1000 Enchantress, \$2.50 per 100; \$20.00 per 1000 Boston Market, \$1.50 per 100; \$12.50 per 1000 Carnation Specialists, JENSEN & DEKEMA 674 West Foster Ave., Chicago, Ill. Mention the Florists' Exchange when writing.

Save Your Pinks Before Splitting
Don't try to patch them up with wires that would do for the 19th. Wait for the 20th Century.
A Perfect Flower guaranteed \$1.75 per hundred, \$15.00 per thousand, 250 at thousand rates.
Send for MAXFIELD & DIMOND, Manf. Pat. Sep. 18, Sample, P. O. Box 3044 Warren, R. I. 1906.

COMING

Get ready for ST. PATRICK! Emerald Green coloring. The best for Carnations. Ready for use, \$1.00 per quart.

MANCHESTER CHEMICAL CO. 2304 Manchester Ave. Phonaas { Kinlock Central 5313 } or, C. A. Knehn { Bell Bldg. 31 } 1122 Pine St. ST. LOUIS, MO. Mention the Florists' Exchange when writing.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

A. J. GUTTMAN,

The Wholesale Florist of New York,
43 WEST 28TH STREET.

JOHN E. HAINES,

BETHLEHEM, PA.

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(ORANGE-SCARLET)

ORIGINATED AT

ELLIS, MASS.

Has Again Demonstrated Its Commercial Value

Grow
Beacon

You'll discard
some other
scarlets when
you do.

The demand
for Beacon
the second
year will be
phenomenal

THIS SEASON 1906-7

It has been grown and tested by the following :

- The Cottage Gardens Co., Queens, N. Y. 5000 Plants
- Mr. E. A. Stroud, Stratford, Pa. 1000 "
- The Park Floral Co., Denver, Col. 50 "

WE ARE PREPARED TO MAKE PROMPT DELIVERY

THE COTTAGE GARDENS CO.
QUEENS, N. Y.

Send for descriptive circular

PRICES

Per 100.....	\$ 12.00, 50 at 100 rate
" 1000.....	100.00, 250 at 1000 rate
" 2500.....	95.00 per 1000
" 5000.....	90.00 "
" 10,000.....	80.00 "

PETER FISHER
ELLIS, MASS.

Mention this paper

Mention the Florists' Exchange when writing.

WELCOME

THE ROSE PINK SPORT OF LAWSON,
a favorite among storekeepers

\$12.00 per 100; \$100.00 per 1000. Well rooted cuttings, now ready.
Cash or satisfactory references with order.

DAILLEDOUZE BROTHERS,

FLATBUSH - - - - - BROOKLYN, N. Y.

Mention The Florists' Exchange when writing

ROOTED CARNATION CUTTINGS

MRS. LAWSON . . .	\$1 50	\$12 50	WHITE CLOUD . . .	\$1 25	\$10 00
GUARDIAN ANGEL . . .	1 25	10 00	FRED BURKI . . .	2 00	17 50
ENCHANTRESS . . .	2 00	17 50	HARLOWARDEN . . .	2 00	15 00
LADY BOUNTIFUL . . .	2 00	17 50	CHICAGO . . .	1 50	12 50
LIEUT. PEARY . . .	3 00	25 00	ESTELLE . . .	2 00	15 00
BOSTON MARKET . . .	1 25	10 00	RED SPORT (MACEO) . . .	2 00	15 00

WIETOR BROS.

Wholesale Growers of Cut Flowers

51 Wabash Avenue, CHICAGO

Mention the Florists' Exchange when writing.

SAVE YOUR SPLIT CARNATIONS

The **Baur Clip** and **Plyer** will do it in a *businesslike* manner at a minimum of time and expense. **Saves lots of money.** Instantaneously applied Invisible. The of galvanized ored green just calyx and can Thoroughly up-particular



Plyer \$3.00 1000; Clips \$1.00, postage prepaid. All the leading dealers in Florists' Supplies, or direct from

BAUR FLORAL CO., Erie, Pa.

MABELLE--New Pink Carnation for 1907

Color--A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size--Three to four inches in diameter when established. Odor--Pleasing, but not strong. Stems--Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.--A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness--Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. No discounts. First class certificates Madison and Indianapolis. Delivery Jan. 8th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD.

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CARNATIONS

Strong, healthy, well rooted stock

	per 100	per 1000	from pots
White Perfection.....	\$6.00	\$50.00	\$6.50
White Lawson.....	3.00	25.00	3.50
Bountiful.....	3.00	25.00	3.50
Cardinal.....	2.50	22.50	3.00
Enchantress.....	2.50	22.50	3.00
Lawson.....	2.00	15.00	2.50
Harlowarden.....	2.00	15.00	2.50
Boston Market.....	1.50	12.50	2.00

Cash with Order. Satisfaction guaranteed.

SMITH & GANNETT

Geneva, New York
Mention the Florists' Exchange when writing.

A. L. YOUNG & CO. WHOLESALE FLORISTS
 54 WEST 28th STREET, NEW YORK
 Telephone: 3559 Madison Square
 CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL
 Mention The Florists' Exchange when writing.

REVIEW OF THE MARKET

NEW YORK.—We have been treated to a genuine blizzard this week, and, of course, the flower business has suffered accordingly. Roses continue anything but plentiful, still, with the exception of American Beauty, there seems to be enough to meet the demand at the prices asked, and there are occasions when sales have to be made at values below our quoted figures, in order to effect a clearance. American Beauty roses are an extremely scarce article yet, and the supply of the best grades is quickly moved each day.

Carnations are becoming more plentiful, and while they are clearing out fairly well prices are hardly so firm as they have been for several weeks back. Cattleyas are in rather heavier supply than they were, and prices are somewhat easier when ordered in quantity. The demand for these flowers, considering that we are at the height of the social season, is not so heavy as one would expect.

Lily of the valley is increasing in quantity, and on some days it is a rather difficult proposition, as the demand is erratic. Lilac is coming in from many sources now, and values are not nearly so firm as they have been for several weeks. Many bunches of excellent quality are being offered at 75c. each. The lasting qualities of lilac are perhaps less understood by retailers than those of any other commercial flower. If it were generally known that much of the lilac that is being forced at the present time will keep for seven or eight days in perfect condition, we think there would be a livelier demand for this favorite Spring flower than there is.

Lilies and callas continue in steady supply, with no change in values. Tulips have become much more plentiful and many of them are freely offered at \$2 per 100. Narcissus, in their several varieties are coming in heavier, and are not averaging so well as last week.

Violets are selling at about the same prices as a week ago, and the ordinary blooms, quite a number of single varieties are reaching this market, but for some reason or other they do not seem to take when they are to be had in quantity. During the last few days 20c. a bunch has been the selling price for a good many of them, including the new variety Governor Herrick.

Lent will soon be here now, and with its coming no doubt some of the social entertainments among certain classes will be curtailed; at the same time, judging from previous years, the natural gain in quantity of greenhouse-grown flowers coming from the ever-increasing sunshine, and a corresponding easing up on prices, will give an added impetus to business that will more than offset any loss of trade through religious scruples.

On Tuesday, owing to the heavy snow fall, (we had a fall of 11 inches) deliveries of flowers to the wholesale district were very irregular, and there were many instances where stock was frozen badly, owing to the delay, together with insufficient wrapping material being used. Few buyers were out on that day, however, and there was little doing. Wednesday opened up bright and clear, and as the streets had been partially freed from the snow, traffic became easier and business began to assume its normal condition.

CHICAGO.—Scarcity of stock is still the paramount issue, and some days recently have witnessed considerable difficulty in filling orders, especially in roses. The possessors of good rose stock could command any reasonable, and not infrequently what would appear to be an unreasonable figure for their goods. Other lines have held strong and sold at high prices in sympathy with the condition of the rose market.

Business this week seemed to open on Monday a trifle off compared to last week, but the weather conditions were most unfavorable, a snow storm succeeding several of the coldest days of the Winter having produced a most depressing effect in the retail business, which was doubtless reflected, to some extent, among the wholesalers, though shipping was pretty good.

Carnations appeared to be in full supply the first of the week, though prices held as they did in all lines. In this connection it may be well to mention that though we do not quote Bride and Bridesmaid at over 15c. there have doubtless been many sales made at somewhat higher figures, 20c. and even 25c. having been quoted, it being a difficult, if not an impossible proposition to fill all orders at quoted prices. Even when fair weather returns it will doubtless require several weeks of sunshine to result in a crop of bushes which are now languishing in the gloom. W. K. W.

PHILADELPHIA.—This week flowers are scarcer than ever, with weather conditions worse. The scarcity is most pronounced in roses. It is almost impossible to get white roses; one large wholesale house only received six on Tuesday. At present writing the best American Beauty are selling at \$10 per dozen; \$12 could be obtained easily if the flowers were to be had in a better quality. Tea roses are very scarce, and it is easy to get \$25 per 100 for good flowers; the majority coming in are very poor.

Carnations are in fair supply; the best flowers of Enchantress are selling at \$8 per 100, while general stock is bringing from \$2.50 per 100 upward.

Tulips are in good supply and selling fast; Couronne d'Or is bringing \$5 per 100, other varieties \$3 and \$4. Daffodils, while in good supply are not equal to the demand; \$4 per 100 is paid readily for good stock. Lilies realize \$2 per dozen; mignonette, \$3 to \$6 per 100. Of violets the supply is not quite so large; \$1.25 per 100 is top price for doubles. Sweet peas, choice stock, sell at \$2 per 100; gardenias, \$4 to \$6 per dozen; cattleyas, 50c. per flower. Lily of the valley at \$3 to \$5 per 100 is selling well.

DAVID RUST. BOSTON.—The past month has been a very satisfactory one in the cut flower trade, and the present prospects are good. Business as a rule is brisk, and the prices realized compare very favorably and even exceed those of any previous year. The past week has seen no exception to the good business; during the rest of the month, roses continue scarce, the best grades of American Beauty still bringing \$9 per dozen, and in some cases of exceptional, selected blooms \$10 is the price. Richmond and Liberty bring \$4 and even \$6 per dozen for the longest stemmed fancy blooms; other good grades bring \$2 to \$3 per dozen. Killarney sells well at \$3 per dozen for the best grades. Bride and Bridesmaid bring \$2 per dozen for fancy grades. There are very few short-stemmed flowers on the market.

Carnations seem to be plentiful enough for the demand, but the best grade of blooms is on the market, and the prices brought are quite satisfactory, ranging from \$2.50 to \$5.

Lilies are not overabundant at \$2 per dozen. Bulbous stock is getting a little more plentiful; Paper White narcissus and a hybrid bring \$3, while yellow narcissus readily bring \$4. Tulips realize \$4, an excellent grade of La Reine being brought in by some of the growers. Violets are very plentiful, bringing from 35c. to 75c. Sweet peas bring \$1.50; mignonette, \$3 and \$4. Some good snapdragons are being brought in. Sixmax calls at \$12.50 and \$15. Asparagus remains unchanged, and no change has recently been made in the prices of hardy ferns and other greens. J. W. D.

ST. PAUL.—Business the past week has been very quiet, no doubt due to the extremely cold weather. The thermometer has registered below zero every day with but one exception. We have, however, been favored with considerable sunshine, which is opening up stock nicely, and from now on the market will be much better. It has almost been impossible to get good roses; none of the growers were cutting any on account of the dark weather, and even though the demand has been light, there was not a sufficient number on the market to supply a weak demand. Bulbous stock has helped out wonderfully, and orders for funeral work were made up almost entirely of it. Carnations have been coming in fairly well; there seems however, to be quite a shortage of white varieties. A great many "spliffs" are on the market, but on account of the shortage of roses they move quite readily. Violets were hard to obtain in this market until a week ago; since then two of our violet growers have brought in some stock which is the best ever offered here. One grower has some Princess of Wales which covered a silver dollar when spread out, and with 12 inch stems; they were pronounced as being the best seen on this market for a number of years. As owing to the small cut of them (about 800 daily) he has only a sufficient number with which to supply his own retail trade. Easter lilies are beginning to look well and from a glance through the different greenhouses one is firmly convinced that a great many more are being grown than in any previous year. If they turn out only fairly well, we shall have a sufficiency for the trade unless the demand is unusually heavy. Baby Rambler roses are also being grown in large numbers. The stock of azaleas and hydrangeas, appearing to be about the same as in past seasons. The experience which some of the grower had last year with spiraea is well shown by the

small number they are growing this year; after Easter last year the majority of the trade, had a great many spiraea on hand which they could not sell at any price, furthermore could make no good use of them. PAUL.

INDIANAPOLIS.—The various branches of the flower business were kept busy last week. Counter trade, except on disagreeable days, was heavy. A liberal amount of funeral work has caused cheaper grades of stock to sell readily. Palms and other decorative plants are often moved under adverse weather, so occasional lots of frozen plants are almost unavoidable.

The call for Spring flowers becomes earlier each year, and it takes constant attention on the salesman's part to have orders other than those for Jonquills, sweet peas and tulips. Roses are more plentiful, but prices have not broken. Sweet peas are difficult to obtain at \$14 per dozen. Bride, sell at \$10 per 100; seconds are often called for at \$5 to \$6 per 100. Excellent Richmond and Liberty are received at \$8 and \$12. The demand for American Beauty has been light at \$5 to \$35 a hundred. Really select carnations are difficult to obtain at \$12 per 100; a majority sold are of medium grades at \$2.50 to \$3 a hundred.

Single violets are more plentiful at \$1 a hundred; the best doubles bring \$1.50. Bulbous stock, such as lily of the valley, Roman hyacinths, Paper White narcissus and the Bride, are in demand in any quantity; price \$3 to \$4 a hundred. Some fine Dutch hyacinths are now in the market at \$2.50. Cut lilacs find many buyers at 25c. per spray.

The variety of blooming plants is much greater and sales show an increase in this line. Tomlinson Hall Market reports a busy week. The volume of business was greater than in the preceding week, as there was much stock on hand. I. B.

ST. LOUIS.—We are pleased to note from reports of some of the leading florists that the past week was a good one from a business standpoint. The volume of work and everybody had his share of it. Although stock was scarce, very little trouble was experienced filling orders. We are to-day, Monday, having our first touch of Winter weather with snow and very cold. Mr. J. C. Grant says he saw his shadow last Saturday, so we can look for six weeks more of Winter. In this locality fancy stock in roses has a big call, but the flowers are very scarce in all grades, with prices high. Anything good brings \$8 to \$15 per 100; some extra fancy 20c. Long American Beauty run from \$6 to \$8 per dozen.

Carnations are generally all bought up long before noon hour. The extra fancy are at \$5 per 100 with \$3 and \$4 for next choice. Enchantress are at present of extra fine quality. Violets are selling well and the supply has shortened up considerably; the best California are at 75c. but 40c. and 50c. buys very good stock. Everything in the bulb line is in plenty and is selling well at usual prices. The green market is also in a healthy condition. Fancy ferns are at \$2.50 per 1000. S. A. B. C.

NEWPORT, R. I.—For a week or two the market has been rather dull, but during the past few days several florists were kept on the move with funeral orders. A great part of the stock seen here lately was not in anyway first-class, and that such work has been very agreeable to those engaged in it because it cleared out a lot of material that could not otherwise have been easily disposed of. Roses are scarce, very scarce in fact, so much so that florists carry very few in stock. Carnations are not over plentiful either, but surprisingly good considering the weather. Violets are very good, but selling somewhat slowly, although a pretty good price is maintained. Strings of asparagus are scarce and more expensive than they have been for many years; cause unknown. Plants have just at present no disposition to move them not even an earthquake, although in some stores they have the appearance of being in close touch with an eruption of Mount Vesuvius, but there are better times coming when even these old lodgers will find new habitations, especially the palms and ferns. D. M.

ROCHESTER, N. Y.—Nothing of importance is going on, business having been normal for some time. There is a decided shortage in the market of roses, carnations and lily of the valley. Prices for same keep up; roses \$5 to \$10 per 100; carnations \$2.50 to \$5 per 100. Bulbous stock is coming in in fairly good shape, although short of stem.

Last week H. E. Wilson had a sale of Primula obconica and other flowering plants, and in this way cleared out a lot of stock. Primulas of different varieties may be seen offered for sale at a 3/4 inch per at 10c. each. In the five and ten cent store here. Not many were sold, as that price was even too much for the kind of stock offered. COCKNEY.

Adiantum Farleyense

The Very Best Only
 5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00
 per dozen.
JULIUS ROEHRS COMPANY
 Exotic Nurseries Rutherford, N. J.
 Mention the Florists' Exchange when writing.

Kalamazoo, Mich.

Trade Notes. Business remains in a most satisfactory state, according to the story told by the retailers, quite a large amount of funeral work still doing, and owing to much sickness prevailing the call for small lots of flowers for the sick room amounts to quite a good total and fully offsets the lack of social events owing to the above cause.

The lengthening days are now helping the quality of all kinds of stock, but the severely cold weather does not improve the quantity cut much. The past two weeks have been the stormiest thus far this season, but beyond blowing out a few dozen lights of glass and, in one instance, a smokestack down, no material damage is reported.

Spring flowers, such as tulips, daffodils, etc., are now on the market in quantity and as usual find ready sale. Some very fine mignonette and violets were on display at Fisher & Rocklin's last week, making an effective show as these two articles have been scarce here thus far this season.

H. Fisher of the above firm was married to Miss Goldstein of Indiana Harbor on January 29 last, and after a tour South returned to Kalamazoo where the happy couple will go to housekeeping in the immediate future. The trade extend congratulations.

McKinley Day called for an extra number of carnations, and while no large amount was noticeable on the streets they were chiefly used for decorative purposes indoors. I don't think, however, this day will ever create the great popular demand for carnations as we hoped for. S. E.

FIRES.

DECHERD, TENN.—On January 26 the residence of John M. Miller, a well-known nurseryman, was burned. Only a small part of the furniture was saved. The loss was estimated at \$1,000. As far as could be learned, there was no insurance.

GRAND RAPIDS, MICH.—The boiler room and entire heating plant of the greenhouse belonging to John Baker, Alger avenue and South East Street, was destroyed by fire early Sunday morning of last week, entailing an actual property loss of about \$1,500. The fire naturally shut off heat in the greenhouses and though temporary arrangements were made it is feared the loss will be far heavier than just the actual loss of property.

GRAND FORKS, N. D.—The Devils Lake nursery and greenhouse, owned by P. J. Kerstein, is practically a ruin, as the result of a fire Saturday evening, January 26. The blaze, which was apparently caused by a defective heater flue, had gained considerable headway when discovered by Mr. Kerstein. The loss will fall heavily upon Mr. Kerstein, as he had no insurance on the plants and nursery stock, which constituted his entire stock in trade. The total loss is approximated at \$4,000, with insurance of \$1,200 on the house and barn. The damage to the house will amount to \$600.

If you are dissatisfied with the results from a large amount of advertising space, for which you pay little money, try a little less space at a higher rate and get your money's worth, with interest added. In short, advertise in the The Florists' Exchange.

J. K. ALLEN
Wholesale Commission Dealer in **Cut Flowers**
106 West 28th St., NEW YORK
Open at 6 a. m. every day.
Telephone, 187 Madison Square.
Consignments Solicited.
Mention the Florists' Exchange when writing.

Wm. Stuart Allen Co.
Commission Merchants in **CUT FLOWERS**
ORCHIDS AT ALL SEASONS
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C. BONNET O. H. BLAKE
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Wholesale Florists
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Telephone: 4638 Main.
Consignments solicited. Out-of-town orders carefully attended to. Give us a trial.
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CUT FLOWER EXCHANGE
Sixth Ave. and 26th St.
Coogan Building, NEW YORK
Open every Morning at Six o'clock for the Sale of Cut Flowers.
Wall Space for advertising purposes to Rent.
V. S. DUKYAL, Jr., Secretary.
Mention the Florists' Exchange when writing.

C. W. EBERMAN
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-THE RELIABLE HOUSE-
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GROWERS, ATTENTION!
Always Ready to Receive Fine Stock
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30 West 29th Street
Phone, 551 Madison Square. NEW YORK
Violets, Roses, Carnations, Orchids
Established 1888.
Mention the Florists' Exchange when writing.

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Consignments of first class stock solicited.
Prompt returns.
THE SQUARE DEAL
Guaranteed to all who trade here.
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TEL. 5883 Madison Square.
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THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
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Mention the Florists' Exchange when writing.

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THE WHOLESALE FLORIST OF NEW YORK
43 WEST 28th STREET
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SPECIAL VALLEY AND TOP GRADE ASPARAGUS
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Wholesale Prices of Cut Flowers, New York, Feb. 6, 1907
Prices quoted are by the hundred unless otherwise noted

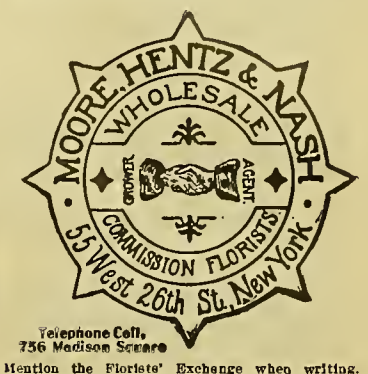
Roses	A. BEAUTY fancy-special.....	60.00 to 100.00	Carnations	1st grades, all colors.....	2.00 to 3.00
	" extra	35.00 to 40.00		STANDARD White	3.00 to 4.00
	" No. 1	15.00 to 20.00		VARIETIES Pink	3.00 to 4.00
	" No. 2	8.00 to 12.00		" Red	3.00 to 4.00
	" No. 3	6.00 to 8.00		" Yel. & Var.	3.00 to 4.00
	Bride, Maid fancy-special.....	15.00 to 20.00		" White	5.00 to 6.00
	" extra	10.00 to 12.00		*FANCY- grades of " No. 1	5.00 to 8.00
	" No. 2	6.00 to 8.00		" (*The highest standard var) Pink	5.00 to 8.00
	Golden Gate	4.00 to 5.00		" Red	5.00 to 6.00
	RICHMOND	4.00 to 5.00		" Yel. & Var.	5.00 to 6.00
	Mme. Ahel Chateauy	4.00 to 5.00		NOVELTIES	6.00 to 10.00
	ADIANTUM .....	.50 to 1.00		GARDENIAS, per doz.....	2.00 to 4.00
	CHOWANUM	1.00 to 1.50		LILAC, per bunch.....	.75 to 1.50
	ASPARAGUS	25.00 to 50.00		LILIES	15.00 to 20.00
	Plumosus bunches.....	8.00 to 15.00		LILY OF THE VALLEY	1.00 to 3.00
	" Sprenger's bunches.....	3.00 to 15.00		MIGNONETTE	2.00 to 6.00
	CALLAS	16.00 to 15.00		NARCISSEUS, Paper White.....	2.00 to 2.50
	CATTLEYS	40.00 to 50.00		" Yellow	3.00 to 4.00
	CYPRIPEDIUMS	12.00 to 15.00		ROMAN HYACINTHS	1.00 to 2.00
	DAISIES	1.00 to 3.00		SMILAX	8.00 to 15.00
				TULIPS	2.00 to 3.00
				VIOLETS .....	.50 to 1.00

WALTER F. SHERIDAN
Wholesale Florist
Tel. 3532-3533 Mad. Sq. 39 WEST 28TH ST., NEW YORK
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING
American Beauty, Bridesmaid, Bride, Liberty,
Lilies, Lily of the Valley, Carnations
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Edw. C. Horan
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CUT FLOWERS AT WHOLESALE
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CONSIGNMENTS SOLICITED
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JOHN SELIGMAN & COMPANY
Wholesale Florists
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Tel. 4878 Madison Square, N. Y.
Opposite New York Cut Flower Company
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B. S. SLINN, JR.
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55 and 57 West 26th Street, NEW YORK
SPECIALTIES—Violets, Carnations and Rosas
Shipping orders receive prompt attention. Con-
signments Solicited.
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Wholesale Florist and Plantsman
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Between Broadway and 6th Ave., New York
Shipments of Plants made to any part of the
country. A trial order solicited.
SATISFACTION GUARANTEED.
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TRAENDLY & SCHENCK
Wholesale Florists
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Acacia Pubescens

Cut sprays, 18 in. to 3 1/2 ft. long, \$2.50 to \$5.00 per bunch.

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Cattleyas

\$6.00 per doz Can make a very attractive price in lots of 100 or more.

STORE CLOSSES AT 8 P.M.

1608 to 1618 LUDLOW STREET

Mention the Florists' Exchange when writing.

Open from 7 a. m. to 8 p. m.

BEAUTIES IN QUANTITY WHITE LILAC THE LEO NIESSEN COMPANY, CATTLEYAS DAFFODILS 1217 Arch Street, PHILADELPHIA, PA.

PITTSBURG CUT FLOWER CO., Ltd.

Headquarters for

RHINEBECK VIOLETS FANCY ROSES FANCY CARNATIONS

NEW LOCATION

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Wholesale Cut Flowers

Valley, American Beauties, Brides and Maids; Sprenger, Asparagus Plumoseus, Carnations and Violets, all seasonable flowers. Large stock of Stevia on hand, can supply you at lowest market prices at short notice. Telephone and telegraph when you need cut flowers to

HENRY M. ROBINSON & CO., 15 Province St., - 9 Chapman Pl., BOSTON, MASS

All orders will have our prompt attention. A trial order will convince you. Tel. Main 2617-2618,

Mention the Florists' Exchange when writing.

DUMONT & CO.

Wholesale Florists Carnations a Specialty No.1 305 Filbert St., Philadelphia Bell and Keystone Phones.

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W. E. McKISSICK, Wholesale and Commission Florist Business hours: 7 A. M. to 8 P. M. 1221 FILBERT ST., PHILA., PA

Wholesale Prices of Cut Flowers—Per 100

Table with columns for locations (Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburg, St. Louis) and rows for various flower varieties (A. BEAUTY, BRIDE, GOLDEN GATE, etc.) with prices per 100.

PHILADELPHIA CUT FLOWER CO.

Wholesale Florists 1516-18 SANSON STREET High Grade Cut Flowers Open Evenings until 8. Mention the Florists' Exchange when writing.

Pittsburg.

News Notes. Genuine Winter weather has been served to us the past week or more, with the thermometer hugging the zero point for several days, which had an effect on business, shortening up stock. Not very much is doing in the cut flower line. In spite of the bad, cloudy weather roses and carnations are of fair quality. Bulbous stock is coming in freely; tulips are more abundant, but extra choice ones are yet scarce. A good many Harrisii lilies and callas are offered at from 15c up. Plant trade was checked considerably by the cold wave.

The Florists' Club's smoker last week was well attended. No doubt a few of the growers stayed away on account of the low temperature. The evening was passed in a pleasant way—a short entertainment by several of the boys, card playing, etc. A brief business session was held to nominate officers for the year, which resulted in the old officers being renominated. One new member was elected.

Your correspondent has been selected as vice-president for Western Pennsylvania for the S. A. F. O. H. for the year.

Not very many carnations were worn here on McKinley Day; the people of our good old Republican State are neglectful in this matter, but in our city, as a rule, flowers are not much seen in the lapels of men's coats.

A nice bunch of Winsor carnations was shown the night of the smoker; everybody thought well of the variety. E. C. REINEMAN.

PAULDING, O.—Another rose-pink sport of Enchantress has appeared in the establishment of J. M. Hawkins. He has named it Helen Phipps; so says the Toledo Blade.

BOSTON, MASS.

Asparagus Plumoseus Mignonette L.H. Harrisil Brides, 'Maids American Beauties Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268

EDWARD REID Wholesale Florist 1526 Ranstead Street, PHILADELPHIA

Best Market and Chestnut Streets Cheolcet Stock Always on Hand Telephone: 142-26-A. Mention the Florists' Exchange when writing.

Headquarters in Western New York

For ROSES, CARNATIONS And all kinds of Seasonable Flowers.



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Wholesale Growers of Roses and Carnations 18,000 assorted GERANIUMS in 2 1/2 in pots, \$2.50 per 100; \$20.00 per 1000. Also rooted cuttings of all the leading carnations.

WORCESTER, MASS. Mention the Florists' Exchange when writing.

CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00
Bountiful. Per 100 \$2.75, per 1000 \$25.00
Enchantress. Per 100 \$2.00, per 1000 \$18.00.
 Book orders now. Quality guaranteed. If you don't like them we pay express both ways.
 Catalogue Free.
E. F. WINTERSON & CO. Wholesale Cut-flowers and Florists' Supplies
 45-47-49 Wabash Ave., Chicago, Ill.

CHAS. W. MCKELLAR

Orchids
 FANCY VALLEY, ROSES, CARNATIONS,
 and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago
 Mention the Florists' Exchange when writing.

Chicago.

News of the Week.
 Anton Then left last week for a business and pleasure trip to Birmingham, Ala.

Wietor Brothers booked a single order last week for 10,000 rooted cuttings of American Beauty roses. With the other specialists in rooted cuttings in this section, this concern reports a very favorable opening in this line this season.

Among last week's visitors was noted B. Juergens of Peoria, Ill.

The first of February witnessed the dissolution of the retail concern of Dunn & Huebner, 72 Randolph street. Henry C. Dunn will continue in business at the old stand, and a new concern under the firm name of Huebner & Brown, will shortly open a retail store at 90 Washington street.

Stollery Brothers opened up their stand in the Flower Growers' Market last week and will carry their usual lines of potted plants and cut flowers. This concern grows bulbs extensively and this season is experimenting with 25,000 Virginia grown bulbs with evident promise of satisfactory success.

N. A. Benson of Denver, Colorado, returning from Toronto last week, stopped over in Chicago and placed an order for greenhouse material for an appreciable increase in his establishment.

George Economopolis will open a retail establishment shortly at the northwest corner of Adams street and Wabash avenue.

The social side of the fraternity was given an excellent exemplification at Svithoid Club House on Wednesday evening of last week when the employees of The Wienhoeber Company gave their first informal reception. More than fifty couples tripped the light fantastic toe to the strains of Goldsmith's orchestra, the grand march being led by Mr. and Mrs. Dunnean Robertson. Refreshments were served and vocal selections were rendered by Miss Johnson and Mr. Meyer. The trade in its various branches was well represented among the terpsichoreans, and when the participants sought their homes in the small hours of the morning they were profuse in their congratulations tendered to the committee who had the arrangements in charge, consisting of Messrs. V. Bergman, W. W. Adams, D. A. Robertson, and F. Pisternick.

N. J. Rupp of the John C. Moninger Company returned last week from Milwaukee with a nice bunch of orders for greenhouse material to be delivered this Spring, including some for new plants and several for additions.

G. L. Huseroft of Steubenville, Ohio was in town the first of the week on a business trip.

It speaks well for the physical condition of the members of the craft in Chicago to note that when grip in combination with half a dozen other infectious and contagious ailments is rampant, the hospitals are filled and the doctors are worked overtime, the florists are all to be found steadily plodding away at their wonted vocations, with no complaint further than here and there an isolated cold of more or less severity.

It is expected that a good delegation from here will represent Chicago at the Bloomington convention and exhibition of the Illinois State Florists' Association on Tuesday and Wednesday, the 19th and 20th inst.

H. J. Stockman, the landscape engineer of the Vaughan's Seed Store staff, Western Springs, was in the city the first of the week in connection with some improvements to be made by a wellknown commission man in the surroundings of his suburban residence.

The Bentney-Coatsworth Company completed their arrangements for doing business in their new quarters on the second floor of the Atlas Building in short order after the signal was given to move. There are now on this one floor the salesrooms of four wholesale growers and three commission houses all told, disposing daily of the product of upward of four million square feet of glass.

VAUGHAN & SPERRY

Wholesale Florists
 WESTERN HEADQUARTERS FOR
DOUBLE AND SINGLE
VIOLETS
 Valley, Carnations and Roses
58-60 WABASH AV., CHICAGO
 Mention the Florists' Exchange when writing.

ST. PAUL, MINN.
 Send us your Orders for delivery in the Northwest, which will have our best attestation.
L. L. MAY & CO.,
 Florists, St. Paul, Minn.
 Mention the Florists' Exchange when writing.

GEO. REINBERG
 Wholesale Grower of **Cut Flowers**
 CHOICE AMERICAN BEAUTY ROSES
 We will take care of your orders at reasonable prices.
 Prompt Attention.
35 Randolph Street, CHICAGO, ILL.
 Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers, Chicago, Feb. 5th, 1907

Prices quoted are by the hundred unless otherwise noted

ROSES		American Beauty	
36-inch stems.....per doz.	6.00 to 8.00		
30-inch stems....."	4.00 to 5.00		
24-inch stems....."	3.00 to 4.00		
20-inch stems....."	2.00 to 3.00		
18-inch stems....."	1.50 to 2.00		
12-inch stems....."	1.00 to 1.50		
8-inch stems and shorties....."	.75 to 1.00		
Bride Maid, fancy special....."	10.00 to 15.00		
" extra....."	8.00 to 10.00		
" No. 1....."	6.00 to 8.00		
" No. 2....."	4.00 to 6.00		
Golden Gate....."	6.00 to 10.00		
Uncle John....."	6.00 to 10.00		
Liberty....."	6.00 to 25.00		
Richmond....."	6.00 to 25.00		
Killarney....."	8.00 to 12.00		
" extra....."	15.00 to 25.00		
Perle....."	5.00 to 10.00		
Obstony....."	5.00 to 12.00		
Callas....."	16.00 to 20.00		
HYACINTHS, Roman....."	2.00 to 4.00		
Narc. Single Yellow....."	3.00 to 4.00		
Tulips, White....."	2.00 to 4.00		
" Yellow....."	3.00 to 5.00		
Mignonette....."	2.00 to 4.00		

CARNATIONS			
STANDARD	White.....	2.00 to	4.00
VARIETIES	Pink.....	2.00 to	4.00
	Red.....	2.00 to	4.00
	Yellow & var.....	2.00 to	4.00
*FANCY	White.....	4.00 to	6.00
(The high	Pink.....	4.00 to	6.00
est grades	Red.....	4.00 to	6.00
of Ste'd var.	Yellow & var.....	4.00 to	6.00
NOVELTIES.....		6.00 to	8.00
ADIANTUM.....		.75 to	1.00
ASPARAGUS, Plum. & Ten.....		.85 to	.50
" Sprengert, bunches.....		.85 to	.50
LILIES, Longiflorum.....		2.00 to	20.00
HARRIS.....		2.00 to	20.00
Orchids—Ostleyas.....		4.00 to	50.00
SMILAX.....		12.00 to	16.00
LILY OF THE VALLEY.....		2.00 to	5.00
VIOLETS.....	" single.....	.50 to	.75
" ".....		.50 to	.75
HARDY FERNS per 1000.....		2.00 to	3.00
GALAX.....		1.00 to	1.25
NARCISSUS, Paper White.....		2.00 to	4.00
JONQUILS.....		3.00 to	5.00
FREE-IA.....		2.00 to	4.00
SWEET PEAS.....		1.00 to	1.50

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations WHOLESALE
 A Specialty.... GROWER of **CUT FLOWERS**
 Mention the Florists' Exchange when writing.

A. L. RANDALL CO.
 Western Headquarters for
 Up-to-Date Florists' Supplies
 Write for Catalogue
 No. 19 RANDOLPH ST., - CHICAGO.

HOLTON & HUNKEL CO.
 WHOLESALE FLORISTS
 and FLORISTS' SUPPLIES
 Manufacturers of WIRE DESIGNS
 457 Milwaukee St., MILWAUKEE, WIS.
 Phone, Main 874. P. O. Box 108

WHOLESALE CUT FLOWERS
 and FLORISTS' SUPPLIES
C. C. Pottworth Co.
 MILWAUKEE, WIS.

E. H. HUNT
 The Old Reliable
 FOR
 CUT FLOWERS AND SUPPLIES
 76-78 Wabash Avenue, CHICAGO.
 Mention the Florists' Exchange when writing.

NAZARETH, PA.—O. C. Ports, formerly of West Collingswood, N. J., is now manager for Mrs. Geiger here. The plant consists of 20,000 feet of glass, heated by steam. Four houses, each 20 x 150 feet, are devoted to carnations, the varieties principally grown being Mrs. Thomas W. Lawson, Queen Louise, Boston Market, The Queen, Enchantress, John E. Haines, and Lady Bountiful. A general collection of plants is also grown. Mr. Ports is getting the establishment into good condition, and is well pleased with his position.

MIDDLEBORO, MASS.—One of the large greenhouses belonging to Mrs. Calvin D. Kingman on the corner of Center and Oak streets collapsed last week. The collapse was caused by the weight of snow.

Be your own Commission Man
 THE
FLOWER GROWERS' MARKET
 furnishes the facilities
 See PERCY JONES, Mgr.
60 Wabash Ave., CHICAGO.

THE "BUSIEST HOUSE IN" CHICAGO
J. B. DEAMUD CO.
 Wholesale Cut Flowers
51 Wabash Av., CHICAGO
 Consignments Solicited

WIETOR BROS.
 Wholesale Growers of
CUT FLOWERS
 All telegraph and telephone orders
 given prompt attention.
51 Wabash Ave., CHICAGO

E. G. HILL CO.
 Wholesale Florists
RICHMOND, INDIANA
 Mention the Florists' Exchange when writing.

Chicago Rose Co.
 Rose Growers
 and Commission Handlers
 of Cut Flowers
FLORISTS' SUPPLIES
 Wire Work our Specialty.
56-58 Wabash Avenue, CHICAGO.
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Zech & Mann
 Wholesale Growers and Shippers of
CUT FLOWERS
51 Wabash Ave., CHICAGO.
 Room 218. L D Phone 3284 Central.
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All Leading Varieties of **Roses and Carnations**
PETER REINBERG
 Wholesale Cut Flowers
51 Wabash Ave., CHICAGO, ILL.
 Headquarters for American Beauty Rose
 Mention the Florists' Exchange when writing.

SINNER BROS.
 WHOLESALE CUT FLOWERS
60 Wabash Ave., Chicago.
 Careful attention to all
SHIPPING ORDERS.
 Mention the Florists' Exchange when writing.

ADVERTISING IN THE FLORISTS' EXCHANGE
 IS SURE TO BRING RESULTS

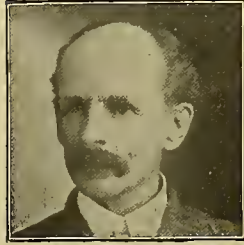
SOUTHERN WILD SMILAX

Now ready in any quantity

Book orders now for future delivery. Beaven's Fadeless Sheet Moss, \$3.50 per bag, delivered. Send for samples. Also Fancy Holly for Xmas trade. Satisfaction guaranteed. Write for prices.

E. A. BEAVEN
EVERGREEN, ALA.

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CALDWELL THE WOODSMAN
Introducer of the Wild Smilax

Wild Smilax \$2.50 Per Case

The only place where you can **always** get it. Long Needle Pines, \$1.00 per doz.; Palm Crowns, \$2.50 per doz.; extra nice long stemmed Palmetto leaves, \$2.50 per 100; Magnolia, \$2.50 16 cubic ft. cases. Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000

SPEED A SPECIALTY Write for Catalogue
CALDWELL THE WOODSMAN DECORATING CO., Evergreen, Ala.

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HEADQUARTERS FOR HARDY CUT GREENS AND FLORIST'S SUPPLIES



Fancy & Dagger Ferns. Fine Quality \$1.50 per 1000.
New Crop Brilliant Bronze and Green Galax, \$1.00 per 1000, \$7.50 per case of 10,000.
Southern Wild Smilax \$3.50 and \$7.00 per case.
Laurel Festooning, good

and full, 5c. and 6c. per yard.
Branch Laurel, 50c. per bundle.
Leucothoe Sprays, \$1.00 per 100.
Sphagnum Moss, 50c. per bag; five bags \$2.00.
Green Moss, \$1.00 per bbl.



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes, ut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.

15 Province St.—9 Chapman Pl.
BOSTON, MASS.

TEL. MAIN 2617-2618

Mention the Florists' Exchange when writing.

Fancy or Dagger Ferns



Telegraph Office: New Salem, Mass.

\$1.25 per 1000

Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
Boxwood, No. 1 Stock, 50 lb. cases, \$8.50
Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
Southern Smilax, fancy stock, 50 lb. cases \$5.50
Laurel Branches, 35c. per bundle

Long distance telephone connections

GROWL FERN CO., MILLINGTON, MASS.

EXTRA FINE FANCY AND DAGGER FERNS

\$1.75 per 1000. Discount on large orders. Leucothoe Sprays: \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25.
Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$2.50.

MICHIGAN CUT FLOWER EXCHANGE

WILLIAM DILGER, Manager.

Let us have your standing order for Ferns; we will make Price right all through the season.

38 & 40 Broadway. Formerly Miami Ave. DETROIT, MICH.
Send for our weekly price list on Cut Flowers.
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REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of **FLORIST'S SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

THE BEST WAY

to collect an account is to place it with the
National Florists' Board of Trade
56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.
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N. LEGAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214
Madison Square



Stands at Cut Flower Exchange
Cogan Bldg., W. 28th Street & 34th Street Cut Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Leucothoe Sprays, Holly, Princess Pins and all kinds of Evergreens.

Green and Bronze Galax Leaves
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BRILLIANT Galax and Leucothoe SPRAYS

Wholesale Trade Solicited

J. L. BANNER & CO., Montezuma, N. C.
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Southern Smilax

If you want SMILAX, and you want to get it when you want it, send your orders to
JAS. TOMLINSON - Newton, Ala

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WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, BERLIN, N. Y.

Samples free. For sale by dealers.

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ALL NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

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This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 100 of the best Continental houses. Annual subscription to cover cost of postage, 75 cents. Money orders payable at Lowtham, Notts. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, Lowtham, Notts

European Agents for THE AMERICAN CARNATION.
Mention The Florists' Exchange when writing.

The club meeting next Thursday evening will be an important one and a large attendance is anticipated, owing to the accompanying carnation show, which will open in the afternoon, a more extended announcement of which will be found elsewhere in this issue.

Poehlmann Brothers' Company, having procured the lease of the quarters formerly occupied by The Benthley-Coatsworth Company, the first of the month, commenced immediately to remove the partition and make other alterations and improvements, all of which are now practically completed, more than doubling their floor space and giving them one of the most convenient and perfectly equipped stores in the market.

It is said that in the greenhouse material line as in several others of the trade departments business this year is coming in earlier than in previous seasons. A representative of one of the largest houses remarked last week, that his concern had already booked a goodly number of orders, while in January of last year, a record-breaking year with construction houses, little had been done with greenhouse patrons, beyond making estimates. It was also stated that good grade of cypress is not over-abundant, and an order placed recently for 650,000 feet would not be promised delivered before next September.

The Boulevard Floral Company, H. Elizabeth Carlson, proprietor, had a unique order for decorating the reception and ball rooms of the club house at Hinsdale on Thursday evening of last week, when Mesdames Davis and Butter gave a reception to Mr. and Mrs. O. P. Bassett on the eve of their departure for a foreign tour. The natural flowers were furnished by local growers, but the Boulevard Company produced some remarkable effects, ceiling and others, by the use of artificial flowers and foliage.

Some of the retailers express disappointment that February 14, St. Valentine's Day, should have been selected by the Florists' Club for its annual carnation show, as this is generally a gala day for the operators of the flower stores. However, it seems probable that during the latter part of the day, by the time the show is in good running order, the retail business will be so nearly all executed that time may be afforded to visit the exhibition.

The E. F. Winterson Company has entered the ranks of rooted carnation cutting purveyors for which Chicago is noted, and among a general line of favorites mention particularly a good stock of White Perfection.

Vaughan & Sperry seem pleased with the results of their endeavors which, notwithstanding the scarcity of stock, show a constantly increasing total in the amount of their business.

Vaughan's Seed Store last week mailed 20,000 of their Spring flower seed catalogues. This house received another carload of tuberose bulbs in excellent condition last week. They are also making extensive alterations in the floor and balcony arrangements at the Randolph street store.

Kennicott Brothers Company are receiving outdoor grown single narcissus from Mississippi much earlier than ever before. Last year the first shipment arrived on St. Valentine's Day, February 14, and a note was made on the books that it was a month earlier than ever before and 1907 found them coming in several weeks earlier still. Does this signify an early Spring?

At Bassett & Washburn's a booming business is reported it being next to impossible to fill orders for Bride, Bridesmaid and American Beauty roses and lilies, with which this house is having decided success with cold storage giganteum that find a ready market at \$3 per dozen.

At E. H. Hunt's they are receiving something a little out of the ordinary in the line of carnations.

William Hagemann, New York, was a recent visitor.

Mr. and Mrs. O. P. Bassett left on Monday for New York intending to sail on Thursday on the White Star liner, Arabic, for a foreign tour extending over several months.

At P. Reinberg's salesrooms the management are congratulating themselves on having, during this unprecedented dearth of roses, a fine crop of Uncle John and Richmond which "help out" to a marked degree.

The A. L. Randall Company is handling a choice line of white lilac for which a demand rather better than ordinarily met with is reported.

Visiting Chicago.—E. L. Kiley, Budd Park Floral Company, Kansas City, Mo.; Mr. and Mrs. Brinckman, Michigan City, Ind.; B. Eschner, M. Rice & Co., Philadelphia; Martin Reukauf and Paul Borkowitz representing H. Bayersdorfer & Co., Philadelphia. Wm. K. WOOD.

New York.

The Week's News.
The meeting of the New York Florists' Club will be held on Monday evening next, February 11, in the club's rooms, corner of Twenty-third street and Eight avenue. In addition to the regular business, A. J. Guttman will give a talk on the recent convention of the American Carnation Society, held in Toronto, Ont. Mr. Guttman's remarks will likely be supplemented by the views and impressions of the other club members who were present at the meeting and exhibition of that society. Chairman W. F. Sheridan, of the dinner committee of the club, has issued a circular letter to the members, conveying the information that the twentieth annual dinner will take place at the St. Denis hotel, corner of Broadway and Eleventh street, on Saturday, February 23. The price of the tickets is \$5 each, and the work of the committee will be very much simplified if members who intend attending this annual enjoyable event will send in their acceptances as early as possible. Make checks payable to W. F. Sheridan, 39 West Twenty-eighth street.

Last week we made mention of a certain George Kramer who was up before Magistrate Barlow for selling artificial seeds. It transpires that the man's real name is Rudolph Reiber, and that he has been operating for several years, selling what he called the seed of a new and rare plant, and charging one dollar for a small packet. His dupes were many, but, unluckily for him, one of his customers bought a second packet of seed, seeing that the first one never grew anything, and, submitting the seed to an expert, found that it was nothing more or less than a palm leaf fan, crushed and ground until it resembled fine seed. At the court of special sessions, Reiber was sentenced to one year in jail and to pay a fine of \$500.

Over in New Jersey, men and women who would become teachers under the State Board of Education must have some knowledge about planting corn and potatoes, as that Board has conceived the idea that it would be more in the right direction if children in public schools were taught elemental agriculture.

Christian Bonnet, of the firm of Bonnet & Blake, wholesale florists, Brooklyn, is able to be at business again after a long siege of rheumatism which kept him confined to his home.

Chas. F. Drawiel, retail florist, is now permanently located at 425 Fifth avenue, Brooklyn, within a few doors of the old location which he occupied for many years.

Professor J. C. Arthur and F. D. Kern of Purdue University, Lafayette, Ind., are making researches in the Garden herbarium, New York Botanical Garden, Bronx Park, in plant rusts, for publication in "North American Flora."

The most severe storm of the winter blew in on Monday evening with high wind and snow, and continued throughout the day following, making traffic of all kinds almost impracticable. Extremes of weather always have a bad effect on the flower trade, and we presume every other business as well. Fortunately for New York, these driving snow storms are not attended with such a low temperature as is



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the case in the middle western towns, for which we should be most thankful.

The second annual dinner of the Nassau County Horticultural Society was held on Wednesday afternoon at the Oriental Hotel, Glen Cove, L. I. Forty-four sat down to a most tempting dinner. The tables were beautifully decorated with potted plants and cut flowers. President Mackenzie presided and made the welcome address. Then came Mr. Scott of Tarrytown; Mr. Connie of Stamford, Conn.; Mr. Duthie of Oyster Bay, and James Holloway of Glen Cove. Mr. Woodill of New York presided at the piano. Songs were sung by Rickards Bros., Mr. Speedling, Mr. Cook of New York; Mr. Russell of Westbury, and John F. Johnston. The medals won in the competition points were awarded to S. J. Trepass, gold medal; H. F. Meyer, silver medal; Alex. Mackenzie, a bronze medal. After the medals were presented a song by the company ended the evening's enjoyment.

Commenting on the wearing of violets, the New York Press says: "With one month of 1907 passed, it appears many society maidens must have made New Year resolutions not to wear violets. Far less frequently than of old are those fragrant blossoms seen smuggled against fur neck pieces or peeping from Russian sable coats as the wearers of those furs take unnecessary constitutional down the avenue. At matinees, too, one notes that the theater no longer is filled with the subtle perfume of violets. Instead, the girl of fashion wears an orchid—sometimes a dozen of them, if her pocketbook permits."

Philadelphia.

News Items.
The northeastern snow storm struck this city in great force Monday and by Tuesday morning ten inches of snow had fallen which drifted very badly in many localities. The thermometer went to 12 degrees Monday night. Shipments of flowers by express are much delayed; some of the branch railroads did not get anything in until late in the afternoon on Tuesday.

Social affairs keep up, and the decorators are busy. The William Graham Company had the German Charity Ball at the Academy of Music on Monday, and a large dinner dance at Mrs. Brinton Cox's residence on Wednesday. The Habermehls have the Second Assembly Ball on Friday at the Bellevue-Stratford.

The only damage so far heard of, as a result of the snow storm, is that part of the roofs of the houses on the Hugh Graham Company's Nursery at Logan, fell in with the weight of a snow drift.

The wholesale establishment of H. T. Dumont & Company was visited by fire Monday night. It is supposed to have caught fire from an oil stove that was always left burning on cold nights. The damage was slight and business goes right along.

J. A. Valentine, Denver, Col., and George Stewart, Tuxedo Park, N. Y., were in town on Tuesday.

R. Faust treasurer of the S. S. Pennock-Meehan Company is, we are sorry to report, very sick with typhoid fever.

John Westcott sends word from Port Orange, Fla., that he is feeling much better from the change in climate and that the temperature on the day he wrote was 73 degrees in the shade.

Florists' Club Meeting.

In spite of the snow storm and poor transportation facilities, there was the best attendance at the meet-



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ing on Tuesday, that we have had for several months. Expectation of seeing the new carnations was the drawing card. The following were staged: Wenonah Carnation Gardens, Wenonah, N. J., Charles Lelsy, grower; pink seedling (Enchantress Lawson) a good one; vase of 100 Enchantress and three vases of seedlings, one from Enchantress, very like the parent, but with decided fragrance.

H. Weber & Sons Company, Oakland, Md., vase of Mabelle.

H. P. Potter, Wilmington, Del., variegated seedling (Lawson Queen), apparently a good commercial flower.

W. A. Manda, South Orange, N. J., light pink seedling (Mrs. Frances Joost Prosperity).

John Kuhn, three vases of pink seedlings.

John E. Haines, South Bethlehem, Pa., vase of John E. Haines, and one each of Pink Imperial and Imperial, all of which were greatly admired.

Stratford Flower Farms (Edw. A. Stroud), vases of Lieutenant Peary, Beacon, and Enchantress, all very choice flowers.

Samuel Batchelor, gardener to Mr. C. B. Newbold, vase of Enchantress and vase of cut sprays of Bougainvillea catretia.

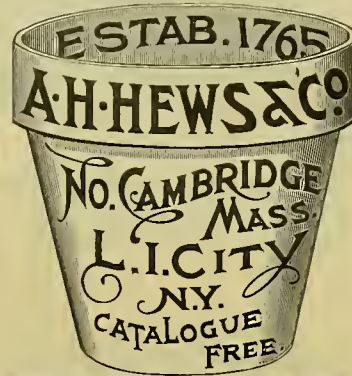
At the March meeting P. J. Lynch of Dinee & Conard Company, West Grove, Pa., will read a paper on the "Mailing Plant Trade."

In addition to the paper of John E. Haines, Edw. A. Stroud read some notes on the Carnation Society's Toronto convention, which will give later. DAVID RUST.

ELMIRA, N. Y. There was a meeting of the Directors of the United States Cut Flower Company held on Wednesday, January 30, at which time it was decided to increase the capacity of the plant one-half. The company has at the present time 18 greenhouses 200 feet in length, and 18 more 100 feet in length will be added at once. It is expected that work will be commenced as soon as possible and that the houses will be ready for use by the first of July. When the new houses are completed the company will have a total of 150,000 feet of glass and further enlargements are planned which will bring the planting area up to a million feet.

The new greenhouses will cost \$25,000. The company was originally incorporated with \$600,000 stock and more stock will be issued as fast as the plant is enlarged.

The officers of the company are: William R. Compton, president and general manager; directors, William R. Compton, Francis Insater, H. N. Hoffman, H. C. Mandeville, and Seymour Lowman. Among the stockholders are J. Sloat Fassett, John Brand and G. L. St. Johns, president of the New York Steam Company.



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1000 2 " " " 6.00	48 9 in. pots in crate, \$3.60		
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600 4 " " " 4.50	24 11 " " " 3.60		
420 6 " " " 4.50	24 12 " " " 4.50		
210 8 " " " 4.51	12 14 " " " 4.80		
145 8 " " " 3.16	8 16 " " " 4.50		

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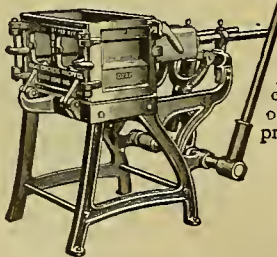
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New Orleans, La.

Trade Notes.

Wichers & Son, the Gretna florists, wholesale growers of ferns, etc., have their houses well stocked with Boston and its varieties. A fine batch of N. Whitmanii growing alongside of Tarrytown shows its marked improvement over that variety. Mr. Wichers intends discarding Tarrytown; he thinks Whitmanii and Scottii are the two varieties that will be grown most in the future. The firm has installed a Hitchings boiler, and will build two more houses the coming Summer.

The committee appointed for the chrysanthemum show to be given by the New Orleans Horticultural Society in November consists of the following members: Ed. Baker, chairman; C. W. Eichling, J. A. Newsham, Paul Abele, P. A. Chopin, Charles Eble, R. Lockerbie, Claude Ory, H. Sheurmann, with C. R. Panter, secretary, whose address is 2320 Calhoun street.

Among the latest additions to the ranks of the New Orleans florists are C. R. Panter, a daughter, and Claude Ory, a son that tips the scales at twelve pounds.

A well-attended meeting of the Society of Southern Florists was held Thursday of last week to perfect arrangements for the convention and trade exhibit to be held February 14, 15 and 16. Chairman R. Lockerbie presided, with Paul Abele Acting Secretary. It was decided to invite the public to the exhibition hall and to the meetings free of charge. The New Orleans Horticultural Society voted the sum of \$100, while the members present subscribed an additional amount personally toward the purpose. Joseph Steckler was thanked for a liberal donation. Considerable floor space has already been engaged and a good exhibit from out of town florists and supply houses is expected.

Among the features of the programme are: Address of welcome by Mayor Behrman; reply by Professor Stubbs; paper on "Chrysanthemum Growing in the South," F. P. Davis, Mobile, Ala.; "Profitable Orchids for the Southern Florist," J. A. Newsham; "Packing, Shipping and Express Rates," C. W. Eichling; "Rose Growing Under Glass in the South," R. Lockerbie; "What the South Can Grow for Northern Markets," W. R. Wichers, Gretna, La.; "Injurious Insects and Remedies," Professor Newell; "Experience With Carnations in Alabama," W. T. Patterson, Jr., of Montgomery; "Elementary Horticulture in the Public Schools," E. Baker; "The Needs of the Retail Trade in the South," C. Eble. A banquet to the visiting florists will be the closing feature.

CRESCENT CITY.

TOPPENISH, WASH.—What is said to be the largest single sale of nursery stock ever effected was made here recently when the Washington Nursery Company made a contract with the Arcadia Irrigation Association for 1,000,000 apple trees. The Arcadia Company is developing an immense tract of land near Spokane.

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POUGHKEEPSIE, N. Y.—In the parlors of the Poughkeepsie Club, Wednesday, January 30, the Dutchess County Horticultural Society held its regular meeting. The following officers were named for one year: President, Clarence J. Reynolds; vice-president, James Blair; secretary, N. Harold Cottam; treasurer, George Sweet, William G. Saltford gave an elegant description of a recent visit to the Carnation Society's convention at Toronto, Can. It was decided to hold a carnation meeting on February 27.

DETROIT, MICH.—Gust. H. Taepke is making alterations at his store, 95 Gratiot avenue. H.



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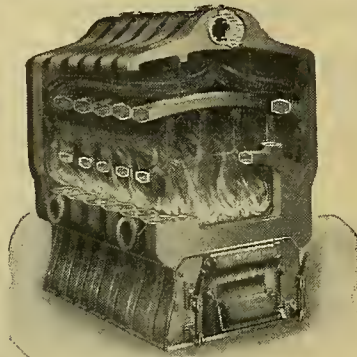
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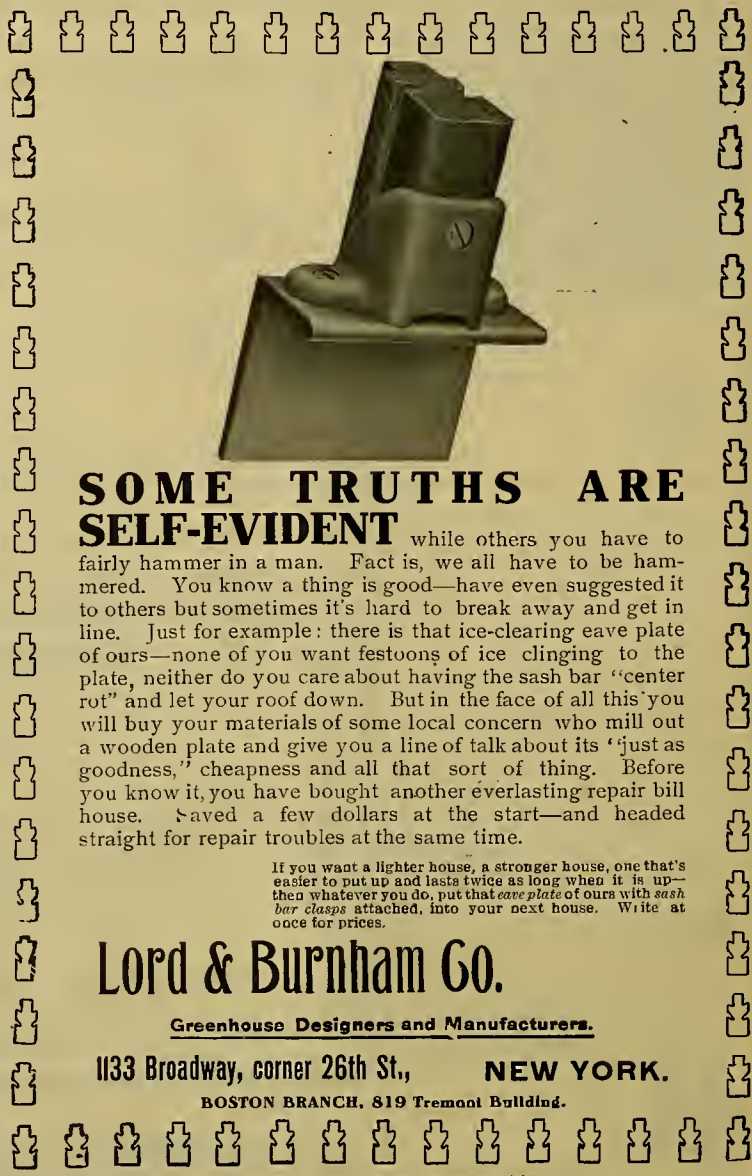
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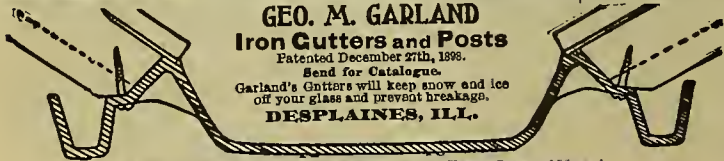
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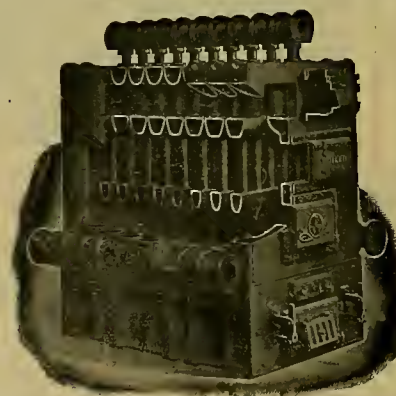
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Vol XXIII. No. 7

NEW YORK AND CHICAGO, FEBRUARY 16, 1907

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If you have not already purchased a stock of this, you should lose no time do-

ing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. February delivery, \$12.00 per 100, \$100.00 per 1000.

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

Mention the Florists' Exchange when writing.

GRAFTED ROSES



WE are now booking orders for early delivery of Richmond, Killarney, Bride, Bridesmaid, Wellesley, Liberty, Kaiserin, Carnot and Bon Silene.

Now is the time to get *Kaiserin Augusta Victoria* for early summer flowering. I have a large quantity of 2 1/4 inch own root stock now ready for shipment.

SEND FOR PRICES

W. H. ELLIOTT, Brighton, Mass.

Mention the Florists' Exchange when writing.

New Crop Vaughan's New Crop Florists Flower Seeds

10% Discount for Cash with order if over \$2.00 10%

	Trsd	pkt.	Oz.		Tr.	pkt.	oz.
ALYSSUM, sweet	.....	\$0.05	\$0.16	COBAEA Scandens	.....	.....	.....
ALYSSUM, Little Gem	.....	.10	.35	COSMOS Giant White, Pink, Crimson	.....	.10	.45
ASTER, CARLSON An improved paeony-flower d. The favorite in the Chicago market. Earlier than Semple's Branching. White, Rose, Pink, Lavender, Daybreak	.....	.25	.50 1.50	COSMOS, Giant mixed	.....	.10	.30
ASTER, Queen of the Market Separate colors. White, Pink, Blue Mixed	.....	.10	.20 .50	" Early flowering mixed	.....	.10	.30
ASTER, Vaughan's Improved Victoria, finest large flowering strain. White, Scarlet, Pink, light and dark Blue, etc.	.....	.25	.50 2.00	" Woodside Early flower- ing superb strain 2 months earlier than giant	.....	.15	1.00
ASTER, HOENZOLLERN, an improved type of Giant Comet. Separate Colors	.....	.20	.35 1.30	LOBELIA, Crystal palace	.....	.10	.40 1.20
Mixed	.....	.15	.30 1.00	LOBELIA, Emperor William	.....	.10	.30 1.00
HOENZOLLERN, early fl'g. White and rose, each	.....	.20	.35 1.35	MIGNONETTE New York Market	.....	.50	1.75
ASTER, SEMPLE'S GIANT BRANCHING, separate colors	.....	.10	.20 .50	MIGNONETTE, Giant Mchast	.....	.10	.50
Mixed	.....	.10	.20 .50	PETUNIA Large fringed, mixed	.....	.25	.25
	Tr.	1.16		PETUNIA, Giant Ruffled, mixed	.....	.50	.50
BELLIS MAMMOTH, Pink	.....	.25	.50	PETUNIA, Vaughan's Best mixed	.....	.50	.50
" White	.....	.25	.50	PETUNIA, Double fringed, mixed	.....	1.00	1.00
" Mixed	.....	.25	.35	1000 seeds \$1.00			
	pkt.	1.16		PETUNIA, Double Vaughan's Special, mixed	.....	.70	.70
	oz.	1.16		PHLOX, Dwarf mixed for Pots	.....	.15	1.00
				SALVIA, Splendens	.....	.15	1.00
				SALVIA, Splendens Drooping	.....	.25	.50 1.50
				Spikes, very fine and showy	.....	.25	.50 1.50
				SALVIA, St. Louis one of the best	.....	.25	.50 2.00
				SALVIA, Fireball, dwarf, new, best of all	.....	.25	1.50 5.00
				SALVIA, Bonfire	.....	.25	.50 2.00
				STOCKS, 10-week separate colors	.....	.25	.50 2.00
				STOCKS, Cut and Come Again	.....	.25	.75 2.50
				VERBENA, Mammoth white	.....	.15	.30 1.00
				VERBENA, Mammoth Mayflower	.....	.15	.30 1.00
				VERBENA, Mammoth Scarlet	.....	.10	.30
				VERBENA, Vaughan's Best mixed	.....	.25	.50 2.00

Vaughan's Seed Store

14 BRAYLEY ST. NEW YORK

CHICAGO, 84-85 Randolph Street, Greenhouses, Western Springs, Ill.

GERANIUM NOVELTIES

SYCAMORE. Originated four years ago by the St. Clair Floral Co., Belleville, Ill., who claim that it is one of the best bright clear Salmon Pink bedders in the country. A cross between Mrs. E. G. Hill and Paul Bruant, has a vigorous habit and is always in bloom. 20 cts. each; \$2.00 per doz.; \$15.00 per 100.

BRUANT'S 1906 NOVELTIES. We offer a collection of thirty different varieties all of which are perfect specimens of the well-known Bruant race, including the Cyclops. 50 cts. each; one of each \$10.50.

LEMOINE'S 1906. Fifteen varieties among which are some of the most beautiful combination of colors that we have ever seen, every one worthy a place in every collection. 35 cts. each; one of each \$5.00.

ROZAIN BOUCHARLATS 1906 VARIETIES. Messrs. Boucharat, Lyons, France, have quite a reputation as producers of excellent new Geraniums; among the sixteen varieties there are some fine ones. 25 cts. each; one of each \$3.50.

ALLIANCE. 1905 introduction. A cross between an Ivy and a zonal. A beautiful shade of lilac white, blotched with crimson rose. Excellent habit for vase or pot plants. 25 cts. each; \$2.50 per doz.; \$20.00 per 100.

CAESAR FRANCK. 1905 introduction. Double Ivy, magnificent shade of soft crimson; splendid habit. 25 cts. each; \$2.50 per doz.; \$20.00 per 100.

FLEUVE BLANC. A pure white semi-double and perfect type of Bruant race. \$1.50 per doz. \$10.00 Per 100.

CALADIUM ESCULENTUM, 1st size, \$2.00 per 100. 2nd size, \$1.00 per 100.

MADEIRA VINE ROOTS, \$1.00 per pk. \$3.50 per bus.

HARDY ENGLISH IVY. Extra strong. \$2.00 per 100, \$18 00 per 1000.

A cordial invitation is extended to all interested in Horticulture to visit us. Cowenton Station, Philadelphia division, B. & O. R. R. 12 miles north of Baltimore.

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

Mention the Florists' Exchange when writing.

EXTRA FRESH SEED



BEGONIA VERNON Mxd., tr. pkt. 25c., oz. \$2.00

-----OF-----

Asters Queen of the Market... tr. pkt. 15c., oz. 50c.
 Asparagus Plumosus Nanus... 1000 seeds \$4.50
 Sprenger!..... 1000 seeds 75c.
 Bellis Perennis, double..... trade pkt. 25c.
 Candytuft Empress..... per oz. 20c.
 Cantaura Gymnocarpa..... per oz. 35c.
 Golden Feather, dwarf selected..... per oz. 40c.
 Lobelia Crystal Palace Compacta..... trade pkt. 25c.
 Petunia, grand superb fringed, mixed, tr. pkt., \$1.00.
 Phlox, choice mixed..... per oz. 40c.
 Dwarf..... per oz. \$1.25
 Salvia Bonfire..... per oz. \$2.50
 Stocks, Ten Week, dwarf, large flowering, mixed trade pkt. 25c.
 Verbena Mammoth white..... trade pkt. 15c.
 scarlet..... trade pkt. 10c.

STERILIZED SHEEP MANURE

Grand natural stimulant for vegetation. 100 lbs. \$1.25 Half tons \$11.00. Tons \$20.00.

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

Mention the Florists' Exchange when writing.

RAWSON'S ASTERS

are just a little superior to anybody else's

The product of our seeds can always demand a better price than those grown from seeds obtained elsewhere. The following is an extract from a letter received last fall from a most critical grower:

"Your Midsummer Aster has been a great money-maker for me. For every flower that I have brought into the Boston Market I have received from \$1.00 to \$1.50 per hundred more than for any other variety raised from seeds purchased elsewhere". J. W. Simpson.

RAWSON'S TWO GREAT QUALITY ASTERS

RAWSON'S NEW MIDSUMMER:

in White, Delicate Lavender.

W. W. RAWSON & CO.

5 UNION STREET, BOSTON, MASS.

P. S. We are now Sole Distributors for Boston for Carman's Antipest, if you wish to know what it is, send for a circular. Mention The Florists' Exchange when writing.



PACIFIC SEED GROWERS' CO.

109 MARKET STREET
SAN FRANCISCO, CAL.

Specialties:

Onion, Carrot, Lettuce, Sweet Peas

Mention the Florists' Exchange when writing.

LEONARD SEED CO.

Growers and Wholesalers of Superior Garden Seeds

Seedsmen and Florists Supplied at the shortest notice and at right prices.

Our Catalogues are now ready and are mailed upon request.

Flower Seeds—Onion Sets 79 East Klazie St., CHICAGO

145 W. Randolph St. Mention the Florists' Exchange when writing.

SHAMROCK

IRISH - THE REAL THING: OREEN

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

XXX SEEDS

Verbena. Improved mammoth, the very finest grown, mixed, 1000 seeds, 25c.

Cineraria. Finest large flowering dwarf. Mixed colors, 1000 seeds, 60c.

Phlox Pamula Compacta. Very dwarf and compact; grand for pots; in finest colors, mixed. Good per cent of New Cicely. 1000 seeds, 60c.

Chinese Primrose. Finest large-flowering fringed varieties, mixed; single and double. 500 seeds, \$1.00; half pkt. 60c.

Pansy, Finest Giants. The best large-flowering varieties, critically selected; mixed. 5000 seeds, \$1.00; half pkt. 60c. Mad. Ferris grade.

Petunia. New Star; from the finest marked flowers, extra choice. Trade pkt. 25c.

Petunia. Giant single fringed very large and fine. Trade pkt. 25c.

Cyclamen Giganteum. Finest giants, mixed 200 seeds, \$1.00; 1/2 pkt. 60c.

Salvia "Bonfire." Finest variety grown, brilliant scarlet and compact. 1000 seeds, 40c.

OASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa. The Home of Primroses

Sow Now The True Thing!

Agaratum, Blue Star, the best of all for pots. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.

Alyssum, Carpet Queen, fine extra dwarf strata. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.

Begonia, Erford, for pots the best rosy pink. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.

Begonia, Gracilis Luminosa, a fine Bedder, new with large bright scarlet flowers and bell-shaped habit, unexcelled for pots and outdoors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.

Cyclamen, Giant flow, separate colors, 1000 seeds \$6.00. Trade Pkt. \$1.00.

Petunia, Rosy Morn, a fine bedder. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.

Petunia, Californian single Giants, extra strain. 6 Trade Pkts. \$4.00; Trade Pkt. 75c.

Petunia, double fringed Giants. 6 Trade Pkts. \$5.00. Trade Pkt. \$1.00.

Phlox, New Cicely, the very best large flowered, real dwarf, compact. Drum. Phlox for pots, mixed colors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.

Salvia, Bonfire. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.

Salvia, Fireball, this is a new, real dwarf compact early flowering, fine variety and there is hardly a better one for pots. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.

Verbena, Mammoth, unexcelled strains; as Auricula flowered, Scarlet Striped, Pink, Purple, White, each separate. Oz. \$1.50; Trade Pkt. 25c.

For larger quantities special quotations.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

GOLD MEDAL STRAINS BEGONIAS & GLOXINIAS

BEGONIAS		Per doz. Per 100		Per doz. Per 100	
Double Rose.....	\$5.00	\$5.00	Single, Scarlet.....	\$0.40	\$2.50
" Orange.....	.65	5.00	Dark Red.....	.40	2.50
" Red.....	.65	5.00	" Pink.....	.40	2.60
" Salmon.....	.65	5.00	" Rose.....	.40	2.50
" Dark Red.....	.65	5.00	" White.....	.40	2.50
" Yellow.....	.65	5.00	" Yellow.....	.40	2.50
" Mixed.....	.50	4.00	" Nankin.....	.40	2.50
NEW VARIETIES.			" Orange.....	.40	2.50
Duke of Zeppelin.....	1.50	11.00	" Salmon.....	.40	2.50
La Fayette.....	2.40	18.00	" Mixed.....	.30	2.25
Single Giant, Fringed mixed	1.00	8.00	Double White.....	.65	5.00
GLOXINIAS		Doz.		100	
Emperor Frederick.....	\$0.75	\$5.00	Princess Mathilda.....	\$0.75	\$5.00
Emperor William.....	.75	5.00	Queen Victoria.....	.75	5.00
Princess Elizabeth.....	.75	5.00	Defiance.....	.85	6.00
Mont Blanc.....	.75	5.00	King of the Reds.....	.85	6.00
Violaceae.....	.75	5.00	Prince Albert.....	.85	6.00
Mad. Helene.....	.75	5.00	Finest Mixed.....	.60	4.00

STUMPP & WALTER CO., 50 Barclay St., N. Y.

SEEDS WHICH SUCCEED

THIS MEANS THAT LANDRETHS' SEEDS GROW AND ARE GOOD

Mention this paper when you write. ADDRESS, BRISTOL, PA.



Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.

New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

COLD STORAGE Lily of the Valley Pips

BEST POSSIBLE GRADE
1000 in case, @ \$12.00 per 1000.

J. M. THORBURN & CO.
33 Barclay St., through to
38 Park Place, New York.

SEED PANSY PLANTS

THE JENNINGS STRAIN

25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, ready to bloom, \$1.00 per 100; \$7.50 per 1000; by express only. Second size, strogg plants, 100 by mail, 60c.; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 2000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

E. B. JENNINGS,
Lock Box 254
Southport, Conn.
Grower of the Finest Pansies

TOMATO SEED

The very best strains, true to name and of high germinating quality.

	oz.	1/2 lb.	1 lb.
Acme.....	\$0.20	\$0.60	\$2.00
Beauty.....	.25	.70	2.25
Chalk's Early Jewell.....	.40	1.25	4.00
Early Michigan	.25	.70	2.25
Favorite.....	.25	.70	2.25
Matchless.....	.25	.70	2.25
Ponderosa.....	.40	1.25	4.00
Paragon Selected.....	.25	.70	2.25
Perfection.....	.20	.60	2.00
Royal Red.....	.25	.70	2.25
Stons Selected Spark's Earli- ana.....	.25	.70	2.25
S. & W. Co.'s Earliest of All	.40	1.25	4.00
Trophy Selected	.25	.70	2.25

These prices include delivery anywhere in the U. S. and our stock of Tomato Seed is the very best there is to be had. We would appreciate a trial order.

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

GREGORY'S SEEDS

FREE Our catalog is rich with information for the guidance of farmers and gardeners. It has been a great help to thousands—has been the means of turning many a failure into success. The great variety of vegetable and flower seeds include the best of the old standard and such new kinds as have proved of value by actual test.

J. J. H. GREGORY & SON,
Marblehead, Mass.

BURPEE'S SEEDS

PHILADELPHIA
Blue List of Wholesale Prices
mailed only to those who
plant for profit.

Your Money is well spent when you advertise in
THE FLORISTS' EXCHANGE

THE WORLD'S GREATEST ASTER MISS KATE LOCK

Colors, White, Enchantress-Pink, \$1.00 per trade pkt. No checks. Instructions, "How to Grow Asters," with every order. Not guaranteed unless bearing my signature.
J. H. LOCK, Aster Specialist, 41 Manchester Ave., TORONTO, ONT.

FRESH IMPORTATION Mushroom Spawn

Absolutely Reliable—Used by the Most Critical Growers

English Milltrack, 10 lbs. 75c.; 25lbs. \$1.50; 100lbs. \$6.00; 1000 lbs. \$55.00
Puro Cultura, Per 10 bricks \$1.50; 25 bricks \$3.50; 60 bricks \$6.60; 100bricks \$12.00
Write for quotations on large lots. Cultural directions sent with every order.

HIGH GRADE Lily Of The Valley Pips
None Better Offered to the Trade

Selected Hamburg for Forcing, per 100 \$1.25; per 1000 \$11.00; per case 2500 Pips \$25.00
Selected Berlin, Unsurpassed Quality, per 100 \$1.50; per 1000 \$14.00; per case 2000 Pips \$27.00

New Crop Asparagus Plumoseo Nenus (Northern Greenhouse Grown) Selected Seed, per 100 seeds 50c.; per 1000 seeds \$3.50; per 5000 seeds \$16.00
Asparagus Sprenger, per 250 seeds 25c.; per 1000 seeds 75c.; per 5000 seeds \$3.00
See our Begonia and Gloxinia offer in last issue.



JOHNSON SEED COMPANY, 217 Market St., Philadelphia, Pa.

Herbert Johnson of the late firm of Johnson & Stokes, President.
Mention the Florists' Exchange when writing.

Your attention is called to our ad of February 9th. Look it up! Send for our catalogue.

H. H. BERGER & CO.,
47 Barclay St., New York
Mention The Florists' Exchange when writing.

ASTER SEED

Vick's Branching, Late White Aster, \$1.00 per oz., \$12.00 per lb.
The above seed is from carefully selected stock and should give good satisfaction.

WHITE BROS., Gasport, N. Y.
Mention the Florists' Exchange when writing.

NEW STOCKS

FLOWER SEEDS FOR FLORISTS
Wholesale Catalog Ready

Send for it today. But first read our advertisement on page 126 in the Florists' Exchange for January 26th, 1907. It is worth reading.

JAMES VICK'S SONS
Seedsmen
ROCHESTER, N. Y.

If you have not received our florist list, write us; we will mail it.

H. E. FISKE SEED CO.,
12 & 13 Faneuil Hall Sq.
BOSTON, MASS.

Mention the Florists' Exchange when writing.

PRIVET

50,000 Large Privet, 3 to 4, 4 to 5, 5 to 6 ft.
Creeping Roses, own roots.
See wholesale list.

ELIZABETH NURSERY CO., Elizabeth, N. J.
Mention the Florists' Exchange when writing.

ASPARAGUS PLUMOSUS NANUS
(Greenhouse Grown) -
FINE PLUMP SEED
\$5.00 per 1000
ESTABLISHED 1824

Bridgeman's Seed Warehouse

Rickards Bros., Props.
37 EAST 19TH ST. Near Broadway
NEW YORK CITY
Telephone: 4225 Gramercy

Mention the Florists' Exchange when writing.

EXTRA CHOICE FLOWER SEEDS

List free on application.
FRED. ROEMER, Seed Grower,
QUEDLINBURG, GERMANY.

Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

BEAUMONT, TEX.—E. L. Cleveland of Portland, Me., one of the oldest seed potato dealers in the United States, was a recent visitor here, and expressed himself as being most favorably impressed with the possibilities of the surrounding country for profitable culture of potatoes.

WACO, TEX.—The Texas Seed Growers' Association is the name of a new organization formed here, following the meeting of the corn growers. The object is to improve field, garden and orchard seed in Texas, and to protect the interests of the buyers and sellers of seed in Texas. Following are the officers: President, T. V. Munson, Denison; vice-president, A. V. Mebane, Lockhart; secretary-treasurer, D. A. Saunders, Waco.

SMITH'S GROVE, KY.—Says a local paper: "Jim Kirby has bought not less than 10,000 bushels of orchard grass seed this season. He has shipped three car-loads of seed and has two more to go. He has recently purchased the best machine made to clean the seed, and now Smith's Grove has as good a seed house as is located anywhere. A four-horse-power engine drives the machine and its work is perfect. It seems that Smith's Grove is fast coming to the front in orchard grass business."

IMPORTS OF SEEDS, ETC.—February 4, 1907.—Brown Brothers & Company, 13 bags anise seed, five bushels quince seed; Ackert, Merrill and Condit, 400 bags clover seed; James E. Ward and Company, 10 sacks plants; Ed. Meurer, one barrel plants; Walker & Lea Company, 50 plants.
February 5, 1907.—H. Frank Darrow, one cask seeds.

EXPORTS OF SEEDS, ETC.—Shipped from New York, February 5, to Hamilton, Bermuda, 13 packages of seed, valued at \$135; to Hamburg, 795 bags of grass seed, valued at \$6,390, and 11 packages seed, valued at \$238.

February 7, 1907.—From New York to Copenhagen, eight cases of seed, valued at \$209; to Leith 50 bags of clover seed, valued at \$574; 220 bags of grass seed, valued at \$2,679; to Stettin, 1187 bags of grass seed, valued at \$4,710.

DREER'S Reliable FLOWER SEEDS.

Asters are one of our specialties and we do not believe it possible to get finer stock at any price.

We offer below a few of the most important sorts for the Florist. For complete list see our current wholesale Price list, mailed free on application to any Florist.

Early Wonder. A new variety and the earliest of all, blooming by the end of June, flowers high grade on long stems and pure White. 40 cts. per trade pkt: \$2.00 per oz.

Daybreak. A fine mid-season sort, color Daybreak pink, 40 cts. per trade pkt: \$2.50 per oz.

Purity. Similar to Daybreak but pure White. 40 cts. per trade pkt: \$2.50 per oz.

Lavender Gem. Exquisite soft color, early flowering 50 cts. per trade pkt.

Snow Drift. Early pure White of Comet type, 50 cts. per trade pkt: \$3.00 per oz.

White Fleece. The finest White of the Comet type, long stemmed large flowers of purest White, 50 cts. per trade pkt: \$4.00 per oz.

Violet King. A new color in the late branching type, 40 cts. per trade pkt: \$2.50 per oz.

Dreer's Superb Late Branching.

The finest strain procurable, and the best of all for late blooming, Pure White, Shell Pink, Rose Pink, Deep Purple, Lavender, and Crimson, each 25 cts. per trade pkt: \$1.00 per oz.; Finest Mixed, 25 cts. per trade pkt; 75 cts. per oz.

Sow Now. Ageratum, Centaurea, Lobelia, Petunia, Salvia, etc., etc. See list for prices etc.

HENRY A. DREER, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

A. J. Pieters Seed Company
HOLLISTER, CAL.

GROWERS OF Vegetable and Flower Seeds
Special attention paid to selected Stocks
A. J. PIETERS, President and Manager.

Mention the Florists' Exchange when writing.

TREE SEEDS

Send to-day for our Trade Price List and our Illustrated, Descriptive Catalog
Otto Katzenstein & Co., Atlanta, Ga

Mention the Florists' Exchange when writing.

TRUE STOCK Aquilegia Coerulea

Rocky Mountain Columbine

From the Rockies

SEED—1 oz. \$1.00; 1/2 lb., \$3.50; lb. \$12.00 by mail.
ROOTS—4 and 5 year old, doz. \$1.25; 100 \$3.00, by express.

Order from headquarters.

THE BARTELDES SEED CO., DENVER, COLO.

W. & D.'s Specialties for Forcing

Mignonette "New York Market"
Sweet Peas "True" Christmas Flowering (Pink and White)
Tomato "The Don" Tomato "Sitting Castle"
Mushroom Spawn "English" and "Puro Cultura"
Send for 1907 Catalogue.

WEEBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

ASPARAGUS SEED

	100	1000
Plumoseo Nanus, True.....	50c.	\$3.50
Sprenger.....	15c.	.75
Cycas Revoluta Seed.....	\$2.50	22.50

Headquarters for all the best flower seeds. 100-page seed buyer's guide free.

MOORE & SIMON, Seed Growers,

339 Market St., Philadelphia

Mention the Florists' Exchange when writing.

C. C. Morse & Co. SEED GROWERS

171-173 Clay St., San Francisco, Cal.

ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES

Warehouses, Santa Clara. Farms and Farm Headquarters, Carnadero, near Gilroy

Mention The Florists' Exchange when writing.

OMAHA, N.E.—Monsieur A. Rousset of Paris, France, was made defendant in a suit for \$3,500 filed in the district court by the Nebraska Seed Company. The plaintiff represents that on November 16, 1906, it entered into a contract with M. Rousset for 2,000 bales of Lucerne seed of a certain specified quality, the contract price being \$11.40 per 100 pounds. The plaintiff paid to the defendant \$48,840 for 1,950 bales of the seed, but when the goods arrived it proved to be of a quality inferior to that specified in the contract. The difference between the market price of the seed specified in the contract and the seed delivered, says the plaintiff, is \$3,500, and for this sum judgment is asked against the Frenchman. A writ of attachment is asked upon certain assets of M. Rousset, alleged to be in the hands of the Adams Express Company.—Bee

DUBUQUE, IA.—F. B. Mills & Company, Rose Hill, N. Y., are making investigations with a view to establishing their main office here. In a letter to the local postmaster the concern says:

"We are a mail order seed house, supplying our goods direct to the planter in every part of the world. During the past twenty years we have built up a very large trade in all parts of the country and have now outgrown our facilities. We have been obliged to secure temporary quarters to handle this year's business. Our Western trade is growing so fast that we are considering moving our main office to some central location, so we can better serve our customers in the South and West. We can see that the West is becoming our best field and we must take better care of our customers. Express and freight is too large an item for our Western customers from our present location. We are well equipped in every way; have our own printing office and mail annually a million catalogues, our postage accounts being over \$40,000, and we employ over 200 people. We understand your city has good shipping facilities, and we wish to ask you if you think any inducement could be offered if we locate our headquarters there?"

OPPOSED TO THE PURE SEED LAW.—In the House of Representatives, on Wednesday, January, 30 1907, Hon. M. E. Driscoll, of New York, made a speech against the pure seed law. He said there was no general demand for such a law; that it was not necessary and would serve no good purpose. The damage, if any, resulting from the sale of adulterated or misbranded seed was a monetary damage. It may be measured in dollars and cents. There is no permanent injury or damage, and there is no loss which can not be made good under the law as it is in the several States. "Do we need a national seed inspection law or other seed law to protect our farmers against such threatened damage? Certainly not. That trade has regulated and will

regulate itself, and the farmer has ample protection under the common law." Mr. Driscoll urged that the seedsman is apt to be a better judge of seeds than the man who would be employed by the government at a moderate salary. The seedsman has a reputation to maintain. He will not willingly buy or sell fraudulent seeds. If he did his business would not last long. The speaker did not think there was much of the fraud complained of practiced. A pure seed law, or a seed inspection law is unnecessary, and an unnecessary law is a bad law. It would also be, Mr. Driscoll said, an undue interference with the commercial and business affairs of our seedsmen and farmers, and would be paternalism in a matter which can be easily regulated by the laws of the several States. It would just be as wise to pass laws to protect every line of trade, and create bureaus, and appoint inspectors, agents, and clerks, to the end that all men may be kept honest. He repeated that a law of this kind is not demanded by the people interested. It is not necessary. It would be an undue extension of Federal power. It would be expensive, and should not be enacted.

THE BOARD OF GENERAL APPRAISERS has overruled the protest of J. L. Hopkins & Company against the assessment of duty by the collector of customs at the port of New York on the authority of abstract 12933 relating to pumpkin seed.

Cycas stems, classified as nursery stock under paragraph 252, tariff act of 1897, were claimed by Alex. Murphy & Company, Philadelphia, to be free of duty under paragraph 552, as palm leaves in their natural state. The protest was overruled by the Board of General Appraisers.

NOTES FROM HOLLAND.—Europe is having a very strange winter. In the Southern part the ground is covered with thick snow after a severe frost, causing a very limited quantity of French flowers. Florists who depend on French flowers principally for winter work are very disappointed, but this shortage is creating a very good market for our bulbs, and the result is an increasing demand for 1907.

About the prospects of the crop here nothing can be said. Up till Christmas the weather was extremely soft, but just now we are having severe frosts followed by blizzards now and then, making the bulb growers afraid that many fields on which the bulbs stood uncovered may have suffered from the heavy frosts. For these reasons they expect that prices will advance, which soon will be proved by the green sales next spring. J. B.



Summer Flowering Bulbs

My New Begonias and Gloxinias are in stock and are as fine as any I have ever seen.

LARGE FLOWERING BEGONIAS—Tuberous Rooted			
Single: (11-13 inch bulbs)		Double: (11-13 inch bulbs)	
Per doz.	Per 100	Per doz.	Per 100
Scarlet	\$0.35 \$2.50 \$23.00	Scarlet	\$0.60 \$4.25 \$38.00
Crimson	.35 2.50 23.00	Crimson	.60 4.25 38.00
White	.35 2.50 23.00	White	.60 4.25 38.00
Rose	.35 2.50 23.00	Rose	.60 4.25 38.00
Yellow	.35 2.50 23.00	Yellow	.60 4.25 38.00
Mixed	.30 2.25 22.00	Mixed	.50 4.00 35.00

GLOXINIAS, GIANT FLOWERING

Fine, Large Bulbs, Strong and Well Matured, Blue, Red, White, Red with White Border, Spotted and Tigered. Per Doz. 50c. Per 100 \$3.50. Mixed Sorts, Fine, Per Doz., 45c; Per 100 \$3.25.

FORCING VEGETABLE SEEDS

Special Strains for Greenhouse Culture—Cucumber, Cauliflower, Lettuce, Radish, Tomato. Write me Your Wants

Mushroom Spawn. Frequent importations from England. Per 100 lbs. \$6.00; Per 1000 lbs. \$55.00

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

Mention the Florists' Exchange when writing.

European Notes.

February finds us still in the embraces of winter, and although accompanied with heavy falls of snow around Berlin and in the northern half of the British Isles, farther south this protection is lacking, and the growing plants are exposed to the destructive force of the bitterly cold winds. All of which should lead holders of reliable stocks to obtain for them their full value.

It is somewhat remarkable that while in southern France and Italy the cold has been very severe, in the western districts of France the winter has been unusually mild and moist, only one very severe frost being recorded. This will not affect to any appreciable extent the shabby remnant of former greatness which is now the distinguishing feature of this very important district.

Owing to the almost entire absence of large contract orders from your side and the heavy surpluses, especially in Holland, which were being offered at such ruinously low prices, very slender provision was made for 1907 crops by growers of cabbages and turnips. The scorching drought destroyed the greater half of what was sown, so that from this district the output of these articles this year will be practically nil.

As regards annual crops, the severe frosts are preparing for us a splendid seed bed, and if growers were only as yielding as their fields all would be well. The peasant farmers of France are not built that way, and as sowing time for the earliest varieties is now close at hand, dealers will be forced to submit. As a consequence, the quantities placed will be only enough to barely cover engagements already made, so that any small surplus that may be produced will easily command a high price.

Once again the German houses are to the fore with absurdly low offers, and rumors reach us that very large quantities of these cheap radishes intended for the English trade have been sold away from their legitimate owners to some of the French houses and that considerable present trouble and an entire absence of such orders in the future is likely to be the result. One very ambitious firm in the "Vaderland" is having a hot old time just now as regards the past season's transactions and a phenomenally cold wave as regards the future. Honesty is the best policy after all.

In regard to present business the very acceptable stream of orders that continue to reach us from your side is welcome evidence of a good season, which is, we trust, as profitable as it is voluminous. If buyers of peas will kindly remember that the 1907 crop in Europe was a record one and help us to reduce the heavy stocks which fill our warehouses to overflowing, their kindness will be very gratefully remembered by EUROPEAN SEEDS.

ASTER SEED

Our descriptive price list of High Grade Aster Seed is now ready and will be sent free on application. Try our new varieties: **CARDINAL, SUNSET and ROSEY CARMINE BRANCHING**; they are winners. Price per packet, 25c.; two packets for 40c. Pointers on how to grow ASTERS successfully sent free with every order

VICK & HILL CO.

P. O. Box 613 ROCHESTER, N. Y.
Mention the Florists' Exchange when writing.

S. M. ISBELL & CO.

JACKSON, MICH.
Seed Growers for the Trade
BEANS, CUCUMBER, TOMATO,

Radish, Peas, Muskmelon,
Squash, Watermelon, Sweet Corn.

We are now booking orders for 1907. Fall delivery. Send for Contract Prices also surplus List.

Mention the Florists' Exchange when writing.

CYCLAMEN SEED

The best commercial large flowering strain in the following colors at 75 cents per 100 and \$6.00 per 1000: **Blood Red, Bright Light Red, Bright Rose, Pure White, White with Carmina Eye.** The following at \$1.75 per 100, \$15.00 per 1000: **Lilac, Rubin, Salmon.**

PERENNIAL GARDENS CO., - TOLEDO, O.
Mention the Florists' Exchange when writing.

VERBENA MAMMOTH

COLORS or MIXED	.....oz.	\$.75
Petunia Double Large Fl. Fringed	t. pkt.	1.00
Single Large Fl. Fringed	.....	.50
Salvia Splendens	.....oz.	1.00
Stocks Large Fl. 10 Weeks	t. pkt.	.25
Dwarf Snowflake	.....	.25
Begonia Dwarf Vernon	.....	.25
Vulcan	.....	.25
Erfordii	.....	.25

W. C. BECKERT,
Allegheny, Pa.

STOCKS FOR EASTER

DWARF BOUQUET VICTORIA, the best strain for pots, etc., 30-90% double; scarlet, blue, white, pink, separate colors or mixed, fine plants, 2 1/2 inch, \$2.00 per 100; \$15.00 per 1000. Tr. pkt. of SEEDS free with every order.

SHELLROAD GREENHOUSES, Grange, Baltimore, Md.
Mention the Florists' Exchange when writing.



Aratucarias and Other Plants
Grown in Belgium for John Scheepers & Co., New York

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
 Orlando Harrison, Berlin, Md., president; J. W. Hill,
 Des Moines, Ia., vice-president; George C. Seager,
 Rochester, N. Y., secretary; C. L. Yates, Rochester,
 N. Y., treasurer.

Unfair Competition.

Editor Florists' Exchange:

The article and letter in a recent edition of The Florists' Exchange, under the heading of "Unfair Competition," brings to mind an occurrence in the trade not long since, that may be of interest to all your readers in general and to nurserymen in particular.

Last Autumn a news item appeared in one of the New York daily papers as a telegraphic dispatch from one of the large cities of the country near the Mason & Dixon line, that an order for planting material to the extent of several thousands of dollars had been placed by the park board with a certain well-known nursery. It stated that the department had made up its list of requirements, and having received from various firms applications for specifications, it had expected a number of bids, but only one was received—from a nursery, the owner of which is a very wealthy man; and he of course secured the award of order without competition. This wealthy owner has been for many years a client of a Boston firm of landscape architects preparing the plans and planting lists for the department in question.

An investigation showed the facts to be such that, although formal bids were invited, there could have been no competition, in so much as the department's list had been made up from the said nursery's trade list. In every instance the varieties and sizes were exactly the same and between the two there was not the slightest variation. The trade list of the nursery which secured the order—or rather, that was thus presented with it—was presumably in the hands of other firms intending to bid; but on receiving the list they naturally declined, seeing the useless waste of time and money. The department might just as well have asked for bids on an article patented and manufactured and for sale by only one firm; in neither case could there be the slightest competition.

Is it not surprising that the department's requirements for the year should happen to be only such, both as to varieties and sizes, as were listed by one particular nursery? One wonders why the city should not have been saved the expense of advertising for bids, or have invited proposals. And in this connection one asks where is the fairness, either to public departments or to nurserymen, in advertising for bids in local papers only? Every wide-awake business man in these days endeavors to keep in touch with prospective or possible customers, hence would not the ends of the department in question be served were the secretary or purchasing agent, or whoever might have the matter in charge, to send a list of requirements for quotation to such firms as had been in touch with the department, or if the laws of the city prohibit purchase without advertising, to at least advise responsible firms known to the department of the appearance of the advertisement?

In this way the tax payers of the city would be assured that fair competition was being procured and their money not being spent without proper effort to make it go as far as possible for the best results, and the nurserymen of the country assured of the chance of fair competition.

Does not this whole transaction indicate peculiar favoritism; and a farce, too, as regards competition; which every fair-minded man will admit is good for trade, if not the life of it? G. H. P.

Silver Maple.

Where can seed of the silver or soft maple tree be purchased? How long is it before trees of 1-2 inch caliper can be grown from seed, if the ground is rich and kept well cultivated?

New York. A. S.

—Any dealer in tree seeds should be able to supply silver maple seeds. Try Otto Katzenstein, Atlanta, Ga., whose advertisement will be found in our columns. These seeds ripen in May, and have to be sown as soon as they ripen when they grow at once. It would take six years to grow such trees from seeds to make 1-2-inch caliper, perhaps longer. J. M.

An Alleged Scale Killer.

Please give me your opinion on the following: A company is operating in Jamaica, L. I., in destroying the San Jose scale with a mixture they call Iodine of Mercury. One of the company came to my employer and told him that this mixture was the greatest thing out for San Jose scale and gave him the following explanation. "The mixture is very strong. By painting a ring around the tree the poison in the mixture will soak into the bark and in Spring will be carried into every part of the tree and the scale will be poisoned and fall off." What is your opinion? G. S.

—Within the last year or two several parties have made claims similar to this, but not one has proved his claim so far as known. Trees will ab-

sorb moisture through their bark, we know, to some extent, as certain oils so applied will kill them, but what effect the mixture spoken of, or any other, would have when so applied remains to be proved. Better apply a scale-killing spraying and then be sure the San Jose scale has met what it does not want. J. M.

Horticultural Notes.

Mollis azuleus are among the hardiest sorts we have. Their large flowers make them conspicuous wherever planted. A fairly moist fine, loose soil suits them best. They thrive in a sunny place when the above named conditions prevail, but their flowers last longer when they are in a situation where there is partial shade from the sun.

Purple birch, *Betula alba purpurea*, is one that was raised in the old Transon Brothers—now Barhier's—nurseries, Orleans, France. It is increased by budding it on the common white birch stock, the same as the cut leaved weeping birch is.

Lantanas make excellent plants for growing in tubs for lawn use in Summer. They thrive in heat, delighting in hot sun. There are many varieties of them, giving a choice of colors. Grown in standard shape they are particularly useful.

Lonicera fragrantissima is among the earliest of flowering shrubs, often expanding before the last of the late frosts have passed. It displays an abundance of cream-white flowers, which are quite fragrant. It is not a climber as so many *loniceras* are.

We again say that *C. speciosa* is to be preferred; at the same time, as we have seen *bignonioides* grow here in its wild state we should hesitate to say it was entirely worthless. There are, no doubt, different types of *bignonioides*, and some may be more branching than others. We recently had occasion to send a sample of our *bignonioides* seed to Mr. Brown, the expert, of Indiana. He says it does not appear true to name, but as a hybrid of *Kampferi*. *Catalpa bignonioides* is native here along our creeks, no others near it to mix with it. It has been *C. bignonioides* from the time of our earliest botanists, and from such a tree the seed was gathered.

Pyrus Americana.

Botanics that we have access to do not say why it is that the *Pyrus americana* is called mountain ash, the common name under which it goes. There is, it is true, quite a resemblance in the foliage of this *pyrus* to that of an ash, and this is why it is called mountain ash, probably; there is no other resemblance anywhere.

The mountain ash is an uncommonly attractive tree at all seasons. Take it in early Summer when full of its clusters of white flowers and there is no other tree of its size and habit to be compared with it. View the picture presented herewith, and see if our praise is not justified! Notice the numerous clusters of flowers which the tree bears; and such a show it makes every season, or but rarely fails to do so. After the flowers fade berries form, which toward the close of Summer become of a bright red color, and then the tree presents another



Pyrus Americana, American Mountain Ash.

Fruiting of the Akebia.

As a strong, rapid-growing vine, the *Akebia quinata* is well known wherever collections of vines exist. It is recognized as one considered necessary where many vines are to be used, because of its merits. These are its rapid growth, its bright green five-divided leaves, its plum-colored, sweet-scented flowers and their early opening. The fruit could well be named also in the list of merits, only it is so seldom produced. But occasionally it is seen; and then only on old vines will a fruit or two be found; rarely is one seen on a young vine. The fruit is not unlike that of the pawpaw, and is of such singular appearance that, were it to be a common occurrence for it to fruit, the vine would be often planted for this feature alone.

The *akebia* is a Japanese plant, and as with many other fruits of Japan the inhabitants are credited with eating it. Unless the vine fruits better there than here, there would be but little to be set before one at any time.

Catalpa Speciosa.

In the issue of February 2, Charles Murray has some notes on the *Catalpa speciosa* in which he agrees with me that *C. speciosa* is more tree-like, straight, and to be preferred wherever it is a choice between it and *C. bignonioides*. He goes further, however, in saying that owing to its slower growth and low spreading habit, *C. bignonioides* is not profitable to grow for any purpose.

picture, on this latter occasion the red contrasting with the green foliage instead of white and green as when it was in blossom. The clusters of berries are very handsome, and persist a long time, in fact, until Winter comes, when birds do not molest them, which they are apt to do in late Autumn.

Our illustration represents an uncommonly fine specimen of the American mountain ash, but then, as will be seen, it stands out on a lawn where nothing has interfered with its growth, on an estate in Montgomery County, Pa. Usually the tree is not seen of such good proportions, although in Maine, where it is abundant, we are told exceedingly fine single specimens may be noticed on many of the mountains.

The mountain ash is a native of the Eastern and Middle States, an entirely Northern tree, excepting the mountain regions of some Southern States.

As in the case of many other of the Rosaceae family the borer sometimes visits its trunk, but if watched well when young there is seldom any great damage done to it; and what a pleasing sight a fine, healthy tree is our illustration shows.

It differs in a desirable way too, in this, that its berries commence to color earlier in the season than those of many other berry-bearing trees. By Midsummer the color is there.

The tree that we illustrate stands on a lawn almost equidistant between the public highway and the dwelling house of the estate, and from where our artist stood to take the photograph the mansion is hidden by the tree. JOSEPH MECHAN.

Flowering Magnolia
Altheas
Spiraea Van Houtte
Tamarix
Crimson Rambler
Tartarian Honeysuckle
Barberry Thunbergii

Nursery Stock for Florists' Trade

General List

Fruit and Ornamental Trees, Roses, Shrubs, Clematis, Hedge Plants

Write for our Spring Wholesale Trade List

W. & T. Smith Co. 61 Years' Experience 600 Acres Geneva, N. Y.

Pyramidal-Tree Box
Baby Rambler
General Jack
Soleil d'Or
Lilac, Purple and White
Lilac, Rubra de Marley
Deutzia Gracilis

Mention the Florists' Exchange when writing.

ROSES

STRONG DORMANT PLANTS

American Beauty, Clothilde Soupert, Gloire de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschel, Crimeon Rambler, Baby Rambler, Dorothy Perkins, etc., etc., Suitable for Forcing Immediate Delivery. Prices Right General Catalog and Price List ready BAY STATE NURSERIES, North Abington, Mass. Mention The Florists' Exchange when writing.

F. & F. NURSERIES

Wholesale Growers TREES AND PLANTS in full assortment. Mention the Florists' Exchange when writing.

SPRINGFIELD NEW JERSEY Trade Catalogue Free

AMERICAN BEAUTY ROSES!!! A Fine Lot!

Two years, field-grown, budded on Manetti; all of our own growing; strong, sturdy, well-ripened, hard-wooded, American-grown stock. Price.....\$15.00 per 100: (Write for prices on large lots.) Send for our Spring Price List, now ready; largest stock and completest assortment of Roses in the country, leading kinds, either budded or on own roots; list showing varieties, quantities available, and prices, sent, on request, to those in the Trade.

Send for our Wholesale Price List of Roses, Clematis, Flowering Shrubs, Conifers, Etc.

JACKSON & PERKINS CO., NEWARK, NEW YORK. (Wayne County.)

Mention The Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

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

JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiraea Japonica, Lillium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Mention the Florists' Exchange when writing.

KOSTER & CO.

Holland Nurseries BOSKOOP, HOLLAND

Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.

Pot-Grown Plants for Forcing.

RHODODENDRONS, H. P. ROSES, Etc.

Catalogue free on demand.

Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP, HOLLAND

Mention the Florists' Exchange when writing.

47,960 Low-Budded Roses in 26 varieties

being the entire surplus of the Helkes-Bilox stock. Delivery February—from my cellars here.

No. 1 @ \$95.00 per 1000. No. 1 1/2 @ \$85.00 per 1000. Privet cuttings \$1.25 per 1000—10,000 for \$10.00. Correspondence promptly answered.

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

Rhododendron Maximums and Kalmia Latifolia

Finest stock in America, any size from one foot to ten feet high, well furnished from top to bottom, special prices will be quoted on large orders. Also a full line of fruit trees, vines and plants, large quantity of Rock or Sugar maple 8 to 20 feet high, 1 to 3 inches in caliper. Illustrated catalogue and price list of Rhododendrons free for the asking. Can furnish any quantity of Rhododendrons of any size. Write Us.

The Riverside Nursery Co. CONFLUENCE, PENNA.

Mention the Florists' Exchange when writing.

Specimen Nursery Stock

DECIDUOUS TREES and SHRUBS, EVER-GREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties. Send for price list.

COTTAGE GARDENS COMPANY QUEENS LONG ISLAND, N. Y.

Mention the Florists' Exchange when writing.

THE MOON COMPANY For TREES, SHRUBS, VINES and SMALL FRUITS Descriptive Illustrated Catalogue Free THE WM. H. MOON CO. Morrieville, Pa.

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON, Successors to L. K. PEACOCK, Inc. ATCO N. J.

Trees and Shrubs

We make specially low prices on nursery stock to Parks, Cemeteries, etc. Wholesale price list on application.

We carry immense quantities of the finest named varieties of peonies. PETERSON NURSERY 505 W. PETERSON AVE. CHICAGO, ILL. Mention the Florists' Exchange when writing.

CANNAS

Plump sound roots, 2-3 eyes and more, no culls, true to name. 250 at 1000 rate.

Table with columns for variety, quantity, and price. Includes ORCHID CANNAS and BRONZE CANNAS.

Table with columns for variety, quantity, and price. Includes PINK CANNAS.

Table with columns for variety, quantity, and price. Includes GOLD-EDGED CANNAS.

Table with columns for variety, quantity, and price. Includes YELLOW CANNAS.

Table with columns for variety, quantity, and price. Includes RED CANNAS.

Table with columns for variety, quantity, and price. Includes WHITE CANNAS.

DANLIAS

Dahlia, fieldgrown, leading kinds for cut flowers, all named. Per doz., 40c.; per 100, \$3.50; per 1000, \$30.00. For full description of above and many more varieties of Cannas, Dahlias, Caladiums, Gladiolus, Tuberoses, etc., see our Catalogue.

SHELLROAD GREENHOUSES, GRANGE, BALTIMORE, MD. Mention the Florists' Exchange when writing.

Large Stock of PEONIES, M. L. RHUBARB LUCRETIA DEWBERRY

Write for Prices GILBERT H. WILD, Sarcozie, Mo. Mention the Florists' Exchange when writing.

LARGE TREES

OAKS AND MAPLES PINES AND HEMLOCKS ANDORRA NURSERIES WM. WARNER HARPER, PROPRIETOR Chestnut Hill, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

READ THIS PRICE LIST

Table with columns for variety, quantity, and price. Includes Ampelopsis Veltheil, Clematis Paniculata, English Ivy, etc.

BENJ. CONNELL, West Grove, Pa.

Brockton Dahlia Farm

Has the largest and finest collection of Dahlias in the United States, with prices that will suit the trade.

SEND FOR PRICE LIST W. P. LOTHROP, Prop., East Bridgewater, Mass.

LOST

If you have lost any of your old favorites from your collection of DAHLIAS and want to replace them, or add newer varieties, send for Manual's Pocket Catalogue and Dahlia Guide for 1907. Novelties in Dahlias from all parts of the world. Edwin S. Manuel, 19 Walnut St., Newport, R. I.

LILIUM LONGIFLORUM.—Happily there is now presented to the bulb growers a new source of supply, and such as promises to far exceed the old source in quantity and quality, and at a much less cost both of initial price and cost of freight to England. I am referring to the new cultivations in Azores Islands, which are rapidly gaining considerable importance and reputation for improved quality, more especially in America. In the course of the last twelve months I have frequently come across sample growths of these new importations in England, and in all cases the quality is far in advance of anything I have seen in my experience of Japan or Bermuda bulbs. The type is quite distinct and the bulbs absolutely free from disease—a deformed bloom is absolutely unknown. The flowers are perhaps smaller than those from Japan, but they are of very solid and thick texture, with a total absence of the thin watery flowers seen on the extreme type, giving one more the impression of the giganteum type in the thickness of the petals. The stem, too, is very clean and sturdy, no canes or supports whatever are needed; and what is perhaps of the greatest value, they are more floriferous.

When the stock in the islands is worked up sufficiently large, the price will come at about half now paid to Japan. The islands are on the West Coast of Africa, in about the same latitude as the islands of Bermuda. They are possessions of the Portuguese, and as the Bermudas are to America, so the Azores are a health resort for Europeans. The labor is, of course, Portuguese, but some English and German labor is being imported. English speculators do not appear to be ahead of other countries, or even alongside them, in taking up the growing or handling of longiflorums from these islands. I am informed that already some German firms are prospecting the possibilities of the trade for the English and American markets, and if practical, sending out capital in the hands of responsible agents, with the intention of ear marking the principal cultivations; and also I know some of the leading American seed houses have made contracts with agents at the Azores for an increasing and continuous supply.—L. L. G. in Horticultural Trade Journal.

CATALOGUES RECEIVED.

- E. T. BARNES, Spencer, Ind.—Catalogue of Dahlias. Illustrated.
- THE FRASER NURSERY, Huntsville, Ala.—Surplus List of Fruit and Nut Trees, Roses, etc.
- J. M. PHILLIPS' SONS, Pittsburg, Pa.—Illustrated Catalogue of Field and Garden Seeds, Supplies.
- FRANK E. RUE, Peoria, Ill.—Market Gardeners' Special Price List of Vegetable Seeds. Illustrated.
- POMONA NURSERIES, Palmyra, N. J.—Illustrated Catalogue of Nursery Stock, Hardy Perennials, Roses, etc.
- F. C. POMRENCHE, Altona-Hamburg, Germany.—Catalogue of Vegetable and Flower Seeds. Printed in German.
- W. C. KENNEDY, St. Joseph, Mo.—General Catalogue of Seeds, Bulbs, Roots, Plants, Supplies, etc. Illustrated.
- WILLIAM BULL & SONS, Chelsea, London.—Illustrated Catalogue of Seeds, etc., with lists of Novelties and Specialties.
- J. M. THORBURN & COMPANY, New York.—Circular in Spanish concerning Slug Shot and other Insecticides and Fungicides.
- W. ATLEE BURPEE & COMPANY, Philadelphia.—Wholesale Catalogue for Seedsmen and Dealers who buy to sell again. Illustrated.
- CEDAR HILL NURSERY and ORCHARD COMPANY, Winchester, Tenn.—Surplus Price List of Fruit Trees, Hedge Plants, Evergreens, etc.
- W. ATLEE BURPEE & COMPANY, Philadelphia.—Wholesale Price List, for Market Gardeners and Florists, of the "Best Seeds that can be Grown." Blue List.
- THE MOSBAEK GREENHOUSE COMPANY, Onarga, Ill. (Axel Aggerholm, manager).—Descriptive List of Cannas, Ferns, and Bedding Plants. Illustrated.
- ALBERT SCHENKEL, Hamburg, Germany.—Catalogue of Seeds and Plants; printed in German. Illustrated. This firm is in its 45th year.

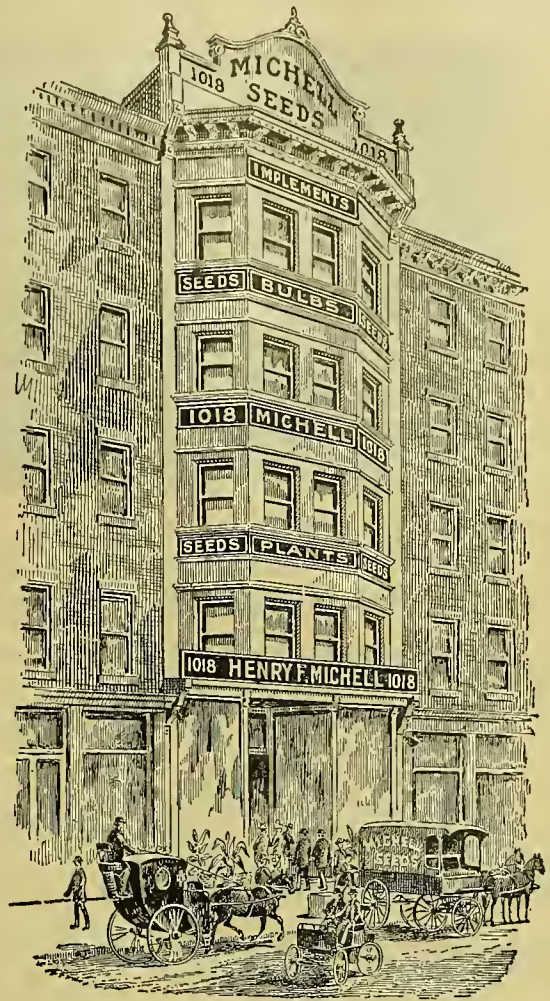


THIS illustration will give you an exterior view of our business house. (180 feet deep, occupying the whole building.) If you want to know how we have gained the confidence and good will of a large portion of the Florists in the United States, send us a trial order, and note the manner in which we treat our customers.

SEEDS

Plants, Bulbs,
Garden Tools,
Insect Destroyers,
Fertilizers,
Poultry Supplies

HENRY F. MICHELL CO. THE FLORISTS' SEEDSMEN
1018 MARKET ST., PHILADELPHIA



DO YOU KNOW
It will pay every florist to send for a copy of our wholesale and general catalogue.
MAILED FREE.

Mention the Florists' Exchange when writing.

- R. VINCENT, JR. & SON, White Marsh, Md.—Wholesale Trade List of Vegetable, Greenhouse, and Bedding Plants. A comprehensive and interesting collection.
- HENRY SAXTON ADAMS, Wellesley, Jamaica Plain, Mass.—Illustrated Catalogue of Flower Seeds, Bulbs and Roots with handy Planting Tables. Of convenient size for the vest pocket.
- A. T. COOK, Hyde Park, N. Y.—Illustrated Catalogue of Vegetables and Flower Seeds, etc. Mr. Cook offers a number of premiums, and says what he values most in his seed business is "the long list of good friends I have made."
- CALIFORNIA ROSE COMPANY, Pomona, Cal.—Illustrative and Descriptive Catalogue of Field-grown Own Root Roses, with helpful cultural directions. The illustrations are from photographs of natural subjects. An attractive and useful catalogue.
- THE GEO. H. MELLETT CO., Springfield, O.—Illustrated Catalogue of Plants, Seeds, Small Fruits, Ornamental Trees, etc., with lists of Novelties and Specialties in which latter Roses form a leading feature. Colored Plates of Aquilegia, Phlox, etc., are contained in the catalogue.
- H. BURNETT, St. Margarets Vine-ries, Forest Road, Guernsey, Channel Islands.—Catalogue of Perpetual Tree or Winter-flowering and Malmaison Carnations, including novelties in English

and American varieties. A colored plate of the new Carnation, Mrs. H. Burnett, forms an attractive frontispiece and Mr. Burnett recommends the growing of American varieties, which, "in many ways, are far superior to the English Winter-flowering Carnations."

ELBRIDGE G. WHEELER, Bridgeport, Conn.—Catalogue of Seeds, Bulbs, Plants, Supplies, etc. Contains a well-selected list of Novelties and Specialties, the general offerings being very complete. The cover designs, Roses and Nasturtiums, in color, are taking. Mr. Wheeler says: "Our seed crops have in most cases yielded abundantly, and aside from Onion and a few minor varieties which are very short, the prices have not risen, while the quality is superior. The seed crops have been harvested in splendid condition, and we are now better prepared than ever to fill every order with 'satisfaction seeds.'" The catalogue is well printed and profusely illustrated.

WM. C. KRICK, 1164-66 Green avenue, Brooklyn, N. Y.—Price list of Immortelle Letters, Inscriptions, Emblems, Monograms, etc.; also Flower Pot Handle and Hanger. Mr. Krick furnishes the following bit of history connected with this most valuable adjunct of the retail florist trade: "The first immortal letter ever manufactured for the trade was made by me in May, 1835. In June of the same year, I placed them on the market to supply the florists, and while orders did not pour in as heavily as at present, suc-

cess was assured. Encouraging communications reached me from scores of our old and most respected florists, praising these letters as a Godsend, which still holds good until the present day. Am looking forward to supply my esteemed patrons for many years to come, with the most inexpensive and labor saving device that has yet come before the florists."

PEACOCK DAHLIA FARMS, Atco, N. J.—Catalogue of Dahlia Roots, 1907; a very large and interesting collection in all the classes of this popular plant. Particular attention is called to the new Peacock hybrids, which are stated to be finer than the Century, besides being in all colors, the new Giant Fringed Century, and novelties in the show, decorative, and "Peony-flowered" sections. The firm has had 22 years' experience in growing the dahlia.

It is almost impossible to understand the passionate longing of statesmen, unknown to fame, but still on Uncle Sam's payroll, for seed. As the hart panteth for the water brook, so do they yearn for those neat little packages wherewith they have placated constituents for whom they could do nothing. We are a nation of 80,000,000 people, and yet we have not outgrown the seed statesmanship of our buccolic days. Isn't it possible to send to the House men with a little broader mental horizon, whose intellectual vision can take in something bigger and more inspiring than free-seed packages?—Baltimore Sun.



Three Grand Commercial CHRYSANTHEMUMS

HAVING raised thousands of seedlings in the last twenty years, I have three of the very best seedlings—considering fine form, color and stem for commercial purposes—in cultivation, and will offer a limited number at reasonable prices; nothing better in their season (all are certificated.)

- MRS. R. N. BIRD.** Fine glistening white, incurved, outer petals reflexed; good form and stem; mid-season.
- MRS. JOHN FREIS.** Large, early, incurved yellow, Bonnaffon type; the best early yellow to date; October 15.
- CHAS. RAZER.** Large, pure white, incurved, ivory form, fine stem and foliage; one of the best whites in cultivation; October 25.

PRICE: Each, 25c.; dozen, \$2.50; 100, \$15.00. Equal proportion of each at dozen and 100 rates.

ADDRESS

JOHN FREIS, 54 Highland Ave., FORT THOMAS, KY.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUM NOVELTIES

Now ready for immediate delivery. 2 1/2 in. pots.
Miss Clay Frick (the white sport of W. Duckham,) price 50c. each; \$5.00 per doz; \$35.00 per 100. The finest stock you ever bought of a novelty. My list was mailed you. If you did not get it, write at once.

CHAS. H. TOTTY, Madison, N. J.
CHRYSANTHEMUMS
White Shaw, the very best second early 'Mum' takes place of Robinson. No grower should be without it. \$4.00 per 100, rooted cuttings; unrooted, \$2.00.

CARNATIONS
Mrs. W. T. Omwake (Enchantress Sport), Pink Fatten and Mikado, \$4.00 per 100, rooted cuttings; \$2.00 per 100, unrooted. GASH.
HENRY EICHHOLZ, Waynesboro, Pa.
Mention the Florists' Exchange when writing

GERANIUMS

All rooted cuttings booked for February.

PETER BROWN, Lancaster, Pa.
Mention the Florists' Exchange when writing.

GERANIUMS

25,000 bushy, 3 in., \$40.00 per 1000; Double Grant, \$35.00 per 1000; ready now. Standard varieties, 20,000 transplanted Evergreens, trees, etc. Come and see stock and get a bargain for cash. 15,000 standard, 5 in. pots, \$1.00 per 100; \$3.00 per 1000.
Extra fine leaf mould 75c. per bag; \$14 per ton.

WM. S. HERZOG, MORRIS PLAINS, N. J.

GERANIUMS

in good varieties 2 1/2 in. pots, ready March 1 1907.
WM. J. CHINNICK, Trenton, N. J.
Mention the Florists' Exchange when writing

Here is some good stock, all ready to ship, with prices that are right:

Geraniums as fine a lot as was ever offered for sale at \$18.00 per 1000. S. A. Nutt, Poitevine, La Favorite, Perkins, Bruntli, Brett, Vland, Doyle, and several other varieties, out of 2 1/4 in. pots with or without soil.
Fuchsias, 2 1/2 in. pots, \$3.00 per 100.
Heliotrope, 2 1/2 in. pots, not splendidly stock, but short growing and well bushed, \$2.50 per 100.
Sweet Alyssum, 2 1/4 in. pots, \$2.00 per 100.
Lobelia, 2 1/4 in. pots, \$2.00 per 100.
Ageratum, 2 1/4 in. pots, \$1.50 per 100.
Asparagus Plumosus, 3 in. pots, \$6.00 per 100.
Sprenger, 3 in. pots, \$6.00 per 100.
Cash with order.

J. E. FELTHOUSEN,
154 VAN VRANKEN AVE., SCHENECTADY, N. Y.
Mention the Florists' Exchange when writing

GERANIUMS

Rooted in sand, then grown in pots a month. Sent free of Soil.

COLEUS Verschf., G. Bedder, and brightest Fancy mixed, strong, 60c. per 100.
Giant, many kinds, finest of all Coleus, 80c. per 100.
GLADIOLI Groff's Hybrids, blooming size, 50c. per 100.
Write Geranium and Coleus wants before order is sent.
DANIEL K. HERR, Lancaster Pa.
Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus Seed

Greenhouse grown, 1000 seeds, \$4.00; 5000 or more, write for prices.

CHRYSANTHEMUMS, 2 1/2 in.; 1000 Major Bonnaffon now ready; 20,000 in five varieties ready soon, \$2.00 per 100; \$17.50 per 1000. Cash with order please.

W. H. PARSIL, Chatham, N. J.
Mention the Florists' Exchange when writing.

POINSETTIAS,

Field grown, one year old, excellent stock, delivery March first. \$10 per hundred, \$85 per thousand. Address,

Frank S. Sessions, San Diego, Cal.
Mention the Florists' Exchange when writing.

VERBENAS 60 Finest Varieties Perfectly Healthy

Rooted Cuttings. Our selection..... \$.75 per 100 \$ 6.00 per 1000
Plants..... 2.50 per 100 20.00 per 1000
Rooted Cuttings. Purchaser's selection..... .50 per 100 5.00 per 1000
Plants..... 3.00 per 100 25.00 per 1000

CARNATIONS Choice Rooted Cuttings Free From Disease

Robert Craig, scarlet, very productive; My Maryland, pure white, good stems. Cardinal, scarlet, good flowers; Jessica, white, penciled with scarlet. Price \$6.00 per 100, \$50.00 per 1000.
Crisis, Lady Bountiful, Enchantress. Price \$3.00 per 100; \$25.00 per 1000.
Mrs. M. A. Patten, Judge Hinsdale, Flamingo, Buttercup. Price \$2.50 per 100; \$20.00 per 1000.
Mrs. Thomas Lawson, The Queen. Price \$2.00 per 100; \$17.50 per 1000.
Golden Beauty, Prosperity, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000.
Mrs. E. A. Nelson, Dorothy, Wm. Scott, Flora Hill, Ethel Crocker, Eldorado, Mrs. Joost, Portia. Price \$1.50 per 100; \$12.00 per 1000.

J. L. DILLON,

BLOOMSBURG, PA.

Mention The Florists' Exchange when writing.

600,000 ASPARAGUS ROOTS

	Per 100	Per 1000
2 Years Palmetto, heavy.....	.50	\$3.50
2 " Palmetto, strong.....	.40	3.00
2 " Conyers Colossal.....	.35	2.75
2 " Barr's Mammoth, strong.....	.48	3.00
2 " Donald's Elmira.....	.40	3.00
2 " Giant Argentea.....	.40	3.00
2 " Columbian White.....	.50	3.50

On 50,000 or over good discount given. On other Nursery Stock, send for Trade List.

RIVER VIEW NURSERIES
J. H. O'HAGAN, Prop'r. Little Silver, N. J.
Mention the Florists' Exchange when writing.

SACRIFICING PLANTS

To make room for Easter stock. All large, healthy plants in bud and bloom.
Azaleas, 50c. to \$1.00 each. Primula Obconica, 4 in., 5c.; 5 in., 10c. Erimroea, 4 in., 10c. Cinerarias, 4 in., 5c.; 5 in., 10c. Cyclamen, 4 in., 10c.; 4 1/2 in., 12c. Rooted Carnation Cuttings, Admiral Cervera, \$12.00 per 1000. Cash please.

F. B. RINE, LEWISBURG, PA.
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

	100	1000
FUCHSIAS, best varieties.....	1.50	\$14.00
DOUBLE PETUNIAS.....	1.50	
HELIOTOPES.....	1.00	
AGERATUM, Gurney & Pauline.....	.60	5.00
LOBELIA COMPACTA, blue.....	.60	5.00
COLEUS, Golden Bedder.....	.60	5.00

CANNAS—Dormant
QUEEN CHARLOTTE, FLORENCE..... 100
VAUGHAN..... \$1.50
DUKE OF MARLBOROUGH, MCKINLEY..... 2.00
EGANDALE, bronze leaved..... 2.50
Cash with order.

ERNEST HARRIS Delanson N.Y.

CINERARIAS

CINERARIAS, best strain, 4 in., fine plants ready to bloom, most in buds, \$2.00 per doz. \$15.00 per 100.
AGERATUMS, (Inimitable); these Giant varieties are the best in cultivation. R. C., \$1.00 per 10; 2 1/2 in., \$2.50 per 100.

J. C. SCHMIDT CO., BRISTOL, PA.
Mention the Florists' Exchange when writing.

LIST OF ADVERTISERS

Table listing various florists and businesses such as Akers H R, Allen W K, Amer Spawen Co, etc.

Table listing florists and businesses such as Wilhoit Co The Geo, Wood Bros, Worcester Cons, etc.

INDEX TO STOCK ADVERTISED

Table listing various types of flowers and plants such as Abutilon, Ageratum, Alyssum, etc.

Contents

Table of contents listing sections like American Rose Society, Araucarias, Books Received, etc.



Lambert's Pure Culture Mushroom Spaw... HOW TO GROW MUSHROOMS... Price, - - 10 cents.

CANADIAN NEWS

TORONTO.—Business is diminishing during the last few days, and though stock is coming in freely, it has been used up clean.

now of Philadelphia, to manage his store. The weather continues cold, but we are getting more sunshine and stock is beginning to improve.

FOR SALE

BOILERS No. 8 Weathered, round, \$90.00. One 8 section Bunray hot water sectional boiler, grate 3 by 3. Price \$160.00.

'Green Carnations' advertisement featuring Fred Gear, The Originator not the Imitator, 1113 VINE ST., CINCINNATI, OHIO.

ROSES AND CARNATIONS advertisement from Poehlmann Bros. Company, Morton Grove, Ill., listing various rose and carnation varieties and prices.

GRAND NEW CANNAS

William Saunders

The flowers are large, of splendid form and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson. Foliage is a rich brooze. Height, 3 1/2 to 4 feet. We believe that **Wm. Saunders** is decidedly the most perfect canna of this type that has been introduced. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Ottawa

is a strong grower, very robust and 5 to 6 feet high. The flowers are large and beautifully formed, color is carmine with tints of old rose and deep coral, add to this the silken sheen and you can imagine the effect a few plants will produce.

Note.—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert: Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 massed in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size. 50c. each; \$5.00 per doz.; \$35.00 per 100.

New York

Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of cannas. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Send for our list and prices of 60 other leading varieties of cannas.

ROSES Shrubbery

Are our great specialty, 2 1/2 and 4 in. pot plants we have in great variety. Teas, Hybrid Teas and H. P. Roses on their own roots. Philadelphia Rambler, Crimson Rambler, Dorothy Perkins and other climbers in strong field plants.

in variety. Viburnum Plucatum, Spireas, Altheas, Dentzias, Weigelias, Barberry Thunbergii, Hydrangea Paa. Grandiflora, Honeysuckles, etc.

Send for our Price Lists.

THE CONARD & JONES CO., WEST GROVE, PA.

Mention the Florists' Exchange when writing.

20,000 PEONIES

FOR EARLY SPRING PLANTING.

This list comprises a great many choice and rare varieties, some of which have never before been offered to the trade in quantities. The stock is now in our storage sheds and can be shipped as soon as the weather will permit. Nothing but selected three to six eye divisions will be sent out.

- | | |
|---|---|
| 1000 Achillea, bluish white, \$8.00 per 100. | 500 Lady Bramwell, silvery pink, \$12.00 per 100. |
| 500 Alice de Julvecourt, salmon pink, \$12.00 per 100. | 50 La Rosiere, straw yellow, \$30.00 per 100. |
| *200 Beante Francaise, flesh pink spotted carmine, \$15.00 per 100. | 100 Louis Van Houtte, violaceous red, \$20.00 per 100. |
| *200 Bell Douaisienne, flesh, fading to white, \$20.00 per 100. | 500 Mme. Ereon, flesh, centre creamy white, \$10.00 per 100. |
| 200 Beranger, mauve pink with bright centre, \$30.00 per 100. | 250 Mme. Coste, rose, \$20.00 per 100. |
| 200 Charlemagne, creamy white, centre lilac flesh, \$25.00 per 100. | 50 Mme. Rosa Bendatler, glossy pink, lilac reflex, \$30.00 per 100. |
| 500 Charles Verdier, carmine, \$8.00 per 100. | 250 Mme. Fallet, violaceous pink, shaded lilac, \$10.00 per 100. |
| 200 Czarina, deep rose pink, \$30.00 per 100. | 1000 Mont Blanc, lemon yellow, \$20.00 per 100. |
| 500 Duke of Wellington, sulphur white, \$20.00 per 100. | 250 Ne Plus Ultra, bright rose, \$12.00 per 100. |
| 500 Festiva, white, \$20.00 per 100. | 250 Paganini, rose, centre white and yellow, \$15.00 per 100. |
| 1000 Festiva Maxima, white, \$30.00 per 100. | 5000 Off. Rubra, deep crimson, \$3.00 per 100. |
| 200 Golden Harvest, tri-color, \$25.00 per 100. | 500 Queen Victoria, white, \$8.00 per 100. |
| 1000 Humei Caroea, cherry pink, \$8.00 per 100. | 250 Triomphe du Nord, violaceous pink, \$12.00 per 100. |
| 100 Jeanne d'Arc, sulphur white, pink centre, \$30.00 per 100. | 1000 Double Pinks, \$7.00 per 100. |
| 500 Jenny Lind, bright pink, silvery reflex, \$25.00 per 100. | 500 Double Whites, \$10.00 per 100. |
| | 250 Double Crimsons, \$3.00 per 100. |
| | 500 Double Mixed, \$6.00 per 100. |

COTTAGE GARDENS COMPANY QUEENS, N. Y.

Mention the Florists' Exchange when writing.

SEASONABLE STOCK

- CANNAS**—Alsace, Austria, Charles Henderson, David Harum, Duke of Marlborough, Italia, Mlle. Berat, Shenandoah, \$2.00 per 100, \$17.00 per 1000.
Beante Poitevine, Crimson Bedder, Egandale, Florence Vaughan, Queen Charlotte, Souv. de Antoine Crozy, \$3.00 per 100, \$25.00 per 1000.
(See catalog No. 5 for complete list)
- AZALEA MOLLIS**, Grand for forcing, bushy and full of buds. 12 to 15 in. high, \$25.00 per 100; 15 to 18 in. high, \$35.00 per 100.
- RHODODENDRONS**, Bushy, bright foliage, full of buds. Forcing Varieties. 18 to 20 in. high, \$9.00 per doz.; 20 to 24 in. high, \$12.00 per doz.
- TUBEROUS ROOTED BEGONIAS**—White, Pink, Scarlet, Crimson and Yellow. Single Flowered, \$2.50 per 100; Double Flowered, \$4.50 per 100.
- GLOXINIA BULBS**—Separate Colors, White, Red, Violet, Violet Bordered White, and Red Bordered White, \$4.00 per 100.

The STORRS & HARRISON CO., PAINESVILLE, OHIO.

Mention the Florists' Exchange when writing.

350,000 CANNAS

TRUE TO NAME

Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

RED CANNAS		100	1000
A. Bouvier, 5 ft.	.....	\$2 00	\$17 50
Beaute Poitevine, 3 1/2 ft.	.....	2 25	20 00
Chas. Henderson, 4 ft.	.....	2 00	17 50
Crimson Bedder, 3 ft.	.....	3 00	27 50
J. D. Elsele, 5 ft.	.....	2 25	20 00
Explorateur Crampbell, 5 1/2 ft.	.....	2 00	17 50
Flamingo, 4 1/2 ft.	.....	2 00	17 50

PINK CANNAS		100	1000
L. Patry, 4 1/2 ft.	.....	2 00	17 50
Martha Washington, 3 1/2 ft.	.....	2 00	17 50
Mlle. Berat, 4 1/2 ft.	.....	2 25	20 00
Paul Marquant, 4 1/2 ft.	.....	1 75	15 00

ORANGE CANNAS		100	1000
Admiral Avallan, 4 1/2 ft.	.....	1 75	15 00
J. D. Caboa, 4 1/2 ft.	.....	2 00	17 50
President Cleveland, 4 ft.	.....	3 00	27 50
Queen of Holland, 4 ft.	.....	2 75	25 00
Secretary Chabanna, 4 ft.	.....	2 00	17 50

GOLD EDGED CANNAS		100	1000
Mad. Crozy, 3 1/2 ft.	.....	2 75	25 00
Queen Charlotte, 4 ft.	.....	2 75	25 00
Souv. de A. Crozy, 4 ft.	.....	2 75	25 00

YELLOW CANNAS		100	1000
Buttercup, 3 1/2 ft.	.....	5 50	50 00
Comte de Bonchard, 4 1/2 ft.	.....	2 75	25 00
Florence Vaughan, 5 ft.	.....	2 00	17 50
L. E. Bailey, 4 1/2 ft.	.....	2 00	17 50

WHITE CANNAS		100	1000
Alsace, 3 1/2 ft.	.....	2 00	17 50
Peachblow, 3 ft.	.....	1 75	15 00

BRONZE CANNAS		100	1000
Black Beauty, 5 ft.	.....	6 00	50 00
David Harum, 3 1/2 ft.	.....	3 25	30 00
Egandale, 4 ft.	.....	3 25	30 00
Grand Rouge, 8 ft.	.....	1 75	15 00
Muaafolia, 8 ft.	.....	2 75	25 00
Robusta, 5 to 8 ft.	.....	1 75	15 00
Shenandoah, 6 ft.	.....	2 25	18 00

ORCHID CANNAS		100	1000
Allemania, 4 to 5 ft.	.....	2 25	18 00
Austria, 5 ft.	.....	1 75	15 00
Italia, 4 1/2 ft.	.....	2 25	18 00
Kronus, 5 ft.	.....	2 75	25 00
Mrs. Kate Gray, 6 ft.	.....	2 75	25 00
Pensylvania, 5 ft.	.....	2 25	20 00
King Humbert, 4 ft.	.....	12 \$2,	15 00

Full descriptions of above and fifty other varieties of Cannas mailed free.

ELEPHANT EARS (Caladium Esculentum)		100	1000
All sound and with eyes.	.....	100	1000
6-8 inches in circumference.	.....	51 50	510 00
8-10 "	.....	3 50	30 00
10-12 "	.....	5 50	50 00
12 inches and up in circumference	.....	10 00	90 00

ARTHUR T. BODDINGTON
342 W. 14th. St., New York

IMPORTANT ANNOUNCEMENT

To FLORISTS and GARDENERS
Our Wholesale Catalogue for 1907

has been revised and many important tables included.

This valuable book has now been mailed only to our customers of 1903, '04, '05 and '06

If interested send for copy

NATHAN SMITH & SON
ADRIAN, MICH.

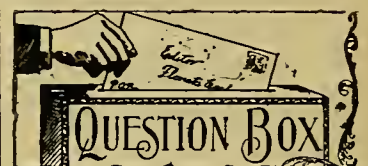
DAHLIAS AND THE DAHLIA MANUAL

An illustrated up-to-date work covering the whole field of Dahlia Culture. Price 35c.
Send for catalogue of Dahlias, Hollyhocks and Hardy Plants. I handle only the cream of varieties. Mrs. Winters, Mrs. Daal, Navajo, Dainty Kriemhilde, etc. My Dahlias have long been celebrated as prize winners.

W. W. WILMORE
Dahlia Specialist, Box 382, DENVER, COLO.

Sphagnum Moss and Cedar Poles
Moss, 5 barrel bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Poles, 2 in. butt, 8 ft. long, \$15.00 per 1000; 2 1/2 in. butt, 10 to 12 feet long, \$22.50 per 1000; 1 1/2 in. butt, 6 to 7 ft. long, \$10.00.

R. H. AKERS, Chatsworth, N. J.



Origin of American Beauty Rose.

(23) I understand that the rose American Beauty is really a French rose and has a French name. I shall esteem it a favor if you will tell me all about it. Who raised it, when and where; was it a seedling or sport?

Richmond, Va. T. F.
—The rose grown in the United States as American Beauty is a seedling, was raised by Ledechaux, France, in 1875, and named Mme. Ferd. Jamin. It is classified as a hybrid remontant; color, crimson.

Prepared Cycas and Magnolia Leaves.

(24) Where can I get dry cycas leaves in large quantities; also magnolia leaves—first hand? R. S. New York.

—We have not the addresses of the foreign houses who make a specialty of preparing cycas and magnolia leaves, and would recommend that the writer communicate with some of the wholesale houses who handle these materials, whose advertisements are found in our columns.

Grafting Tree Roses.

(25) What will I use for trunks or stock to graft tree roses on? Will I use wax or will raffia alone do, and where will I find the stock? Will Mme. Planter be suitable? D. H. South Carolina.

—Suitable stocks for the grafting of roses are the dog rose and the manetti; or the Mme. Planter can be used if desired. It is not necessary to use wax; just tie on the grafts with raffia, as that answers the purpose very well. As to the varieties suitable for grafting and which are to be used for flowering purposes, it would be best to refer to some reliable catalogue. To enumerate varieties here used for flowering purposes would occupy too much space.

Eulalias.

(26) How and when shall I plant seeds of the eulalias to have them germinate? I have tried them both under glass and in the open ground without success. How long after planting should the seedlings appear, and how much growth should they make the first season? UNO.

New York.
—We have had no experience in raising eulalias from seed, and believe that any such attempt would only prove unsatisfactory. The best way to get a stock of these is to procure young plants from some of the wholesale dealers; or if clumps are available, divide them into small portions and transplant, the same as is done with herbaceous stock in general.

Red Spider on Carnations.

(27) Please tell me the best and quickest way of eradicating red spider from a bench of Mrs. Lawson carnations, 3 by 100 feet. I have not syringed with water because I understood that water was not good for the plants on their foliage, at this time of the year. Have used Nicotine extract, diluted 500 times, twice a week, applied with a compressed air sprayer, but it does not seem to do the work satisfactorily. This is the first time I have had any trouble to speak of with this pest.

Wisconsin. A BEGINNER.
—When red spider gets a foothold on a bench of carnations—and it only becomes prevalent when some parts of the bench have been left too dry either at the roots or on the foliage, or both—there is no better remedy than spraying with a good force of water at every available opportunity; we can only recommend that a regular syringing be given the parts of the bench affected.

Sweet Peas Damping off.

(28) When sweet peas are planted and come up regular to the height of six inches and look healthy and then commence to damp off, or die, can you explain the reason? I have tried to grow them dry, have tried not water-

ing the foliage, just the roots, but still to no purpose.
J. D. F.
New Jersey.

—The trouble with the sweet peas is, no doubt, due to some local cause, but what that may be it is impossible for us to form an opinion, not knowing the kind of soil used for planting or the temperature at which the house is kept. The probabilities are that it is a question of a too high temperature and a too humid atmosphere. Sweet peas kept at a night temperature of 48 or 50 degrees, given a good circulation of air, not being too crowded and kept fairly well supplied with water, yet are not too wet at any time, usually grow without any trouble through the winter season.

Improving Rose Houses.

(29) Will some one offer suggestions to improve our rose houses? Can I put three-inch tile on the solid beds and use a six-inch board for edges? Would it be best to open a walk in the middle bed and run part of the returns back through it? Is it necessary to excavate and have any heat under the beds?
J. A. & S.
Iowa.

—In order to improve the lay-out of the houses in question, we would suggest that a path be opened through the middle of the center bed. Each of the solid beds should be cut down to about twelve inches above the level of the house; then place the three-inch tiles across the top of the beds already cut down; put them close enough so that the roots of the roses will not get down into the old soil, and place either a tile or a five or six-inch board around the edges to form the sides. Five inches of new soil could then be placed on the tiles, in which the roses could be planted. If the heating as arranged at present is perfectly satisfactory, we do not see that it would be necessary to run the returns through the center path.

Trouble with Hydrangeas.

(30) My hydrangeas are not doing as well this year as they did last year under the same conditions, with the exception of benching. Last year I benched them on sand, this year on sawdust. I find some of the leaves have black spots. The night temperature is 40 degrees. I would like to force the plants for Easter. I also find a little mildew on the pots. Please inform me if I am handling these plants all right for Easter blooming, and what is the cause of the black spots.
R. M.
New York.

—Without any doubt the trouble with the hydrangeas is that they have been standing on newly made sawdust. Hardly anything more injurious to plant life could have been used for plunging or for standing the pots upon. We could only recommend that the sawdust be taken away at once, and if no other material is at hand, stand the plants on the bare benches rather than on sawdust. The black spot and the mildew will all have come from the sawdust. If it is desired to have the hydrangeas for Easter, the night temperature should be increased about twenty degrees; in fact, the clusters of buds ought to be in sight before the middle of February.

A Carnation Trouble.

(31) Can you kindly tell me what the trouble is with my Mrs. Lawson carnations? I planted them in the house in the middle of September. The plants are looking well; but I did not have a flower worth speaking of. They are very small, and burst. I give the plants good treatment. I run my houses not much above 50 degrees, night temperature. We had some cold weather here that my houses ran as low as forty at night. Will this do any harm to Mrs. Lawson? I give air during bright days, and feed the plants once a week with liquid manure, if weather permits. I do not think the soil is to blame, as my Enchantress are doing well in the same soil. What is your opinion?
Connecticut.
R. O. P.

—The trouble with the carnations in the present case arises from the fact that the temperature was allowed to drop below the normal at different times, and the plants received a check from which they have not yet recovered. Seeing that they are not growing rapidly just now, we would omit the liquid feeding for a few weeks

Dreer's Summer Flowering Bulbs

The Begonias and Gloxinias offered by us are the best that skill and careful selection can produce, being grown for us by one of the most expert European specialists.

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Our quarterly Wholesale List offers a full line of Seasonable Plants, Seeds and Bulbs.

HENRY A. DREER, Philadelphia, Pa.

Mention the Florists' Exchange when writing.



until better growth commences, which, as the days are beginning to get longer, will soon be apparent.

Utilizing Empty Houses.

(32) I have two greenhouses now empty. They are 14 feet wide; an 8-foot solid bed runs through the center of them. One house I wish to plant with dahlias for cut blooms, also would like some cultural advice, also a list of the best varieties for cut flowers. The other house is cooler; I can keep it at about 50 degrees night temperature. What kind of seeds can I plant for pot culture for Spring sales, or cut blooms in the open bed? Which is the best way to force German iris? I have some heavy plants that I wish to force for cut blooms.
Pennsylvania.
D. B. C.

—In the house where it is intended to grow dahlias, we would first dig up the bed and incorporate a good dressing of well-rotted manure. Then procure dahlia roots, divide them into single tubers and plant them in rows eighteen inches apart, twenty-four inches between the rows. For the best varieties, we would make a selection from some wholesaler's catalogue, choosing the colors we thought would sell best in our market. In the house where a temperature of 50 degrees can be maintained, the German iris could be had in flower by bringing in the clumps, disturbing the roots as little as possible, and planting them direct into the solid bed.

Suitable seeds that could be sown now and used for pot plants or for cut flowers during the Spring and early Summer, would be asters, stocks, dwarf marigold, Phlox Drummondii, candytuft and mignonette. Of course, you would have to be guided in your selection by what are believed would make the most salable plants and flowers in your locality.

Peonies for Memorial Day in Oregon.

(33) What varieties of herbaceous peonies would be a sure thing for Memorial Day in this locality, where flowers of officinalis rubra are usually at their best just two weeks before? Has any authority on peonies a relative scale of blooming dates?
Portland, Ore. SUBSCRIBER.

—Will some reader kindly supply the information desired?

Propagating Perennials.

(34) Timme's Timely Teachings are a valuable feature of your paper. In the issue of January 19, under the heading "When to Sow Seeds," Mr. Timme advises on the sowing of the seeds of perennials. Among other seeds, mention is made of pyrethrum, campanula, delphinium, gaillardia, digitalis, Shasta daisy, etc., the seeds of which may be sown in May. Will Mr. Timme, through your columns, kindly inform the learners—and all gardeners are learners—what perennials, if any,

will give, from seed, plants true to variety—either to the "type," or to a named variety?

Ontario. BEGINNER.
—Many kinds of hardy perennials can easily be raised from seeds, and the seedlings, as a rule, display the true characteristics of the respective species with very few exceptions. But the difference between the individual seedlings of most of the species is very great as regards habit, color and size and form of flowers. By selection and subsequent propagation by cuttings, runners or division, fixed types, new forms and distinct varieties are obtained.

To this class belong pentstemon, digitalis, tunica, boltonia, aconitum, coreopsis, platycodon, lychnis, veronica, gaillardia, tritoma, pyrethrum, campanula, Chrysanthemum maximum, Shasta daisies, hardy pinks and many others of less value to commercial florists. In trying to raise from seeds the double-flowering variety of some of the above named, such as platycodon, campanula, pyrethrum, etc., no more than fifteen or twenty per cent. of the seedlings need be expected to bear double flowers; all the rest will be singles or semi-doubles, but few of these will prove really worthless, some of them, in many instances excelling the doubles in point of beauty.

The following kinds come fairly true from seed as to type, variety or color: Primula veris, poppies, Monarda splendens, Adonis vernalis, stokesia, bellis, iberis sempervirens, achillea, Scabiosa caucasica, anthemis, heuchera, aegilegia, delphinium, Alyssum saxatile and Gypsophila paniculata.

Those that will flower the first year if the seeds are sown early are Coreopsis lanceolata, Delphinium formosum, lobelia, statice, achillea, Shasta daisies, agrostemma, gaillardia, bellis, tunica, lychnis, Corydalis leuca, etc.

Most perennials raised from seeds will not flower until the second year. Of these the most noteworthy are monarda, astilbe, pyrethrum, cassia, pinks, phlox, platycodon, tritoma, baptisia, digitalis, pentstemon, veronica, heuchera, gypsophila, iberis, Iceland and oriental poppies, Primula veris, campanula and all the Japanese species of iris.

The seeds of some perennials germinate exceedingly slow, often lying a year in the ground before they sprout unless sown as soon as ripe. Such kinds are Lathyrus latifolius, dictamnus, peonies and wild cucumber.

The following are easily and quickly multiplied by rooting cuttings: phlox, pyrethrum, Shasta daisies and the hardy sorts of dianthus, while others grow rapidly into numbers from side-runners, as mentha, bellis,

For Decoration Day SPIRÆAS

Are a most useful plant

We have an excellent lot in cold storage, extra large clumps, and offer them as follows:

- Spiræa Japonica, Per 12 60c., per 100 \$4.50, per case, about 300, \$12.00.
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- Spiræa H. Witte (new), Undoubtedly one of the finest and most profitable Spiræas for florists. Per 12 \$1.00, per 100 \$7.50, per case, about 300, \$21.00.

POT GROWN LILACS

Extra strong and well set with buds.

- 50 Marie Le Graye, 50 Chas. X, 50 Wd. Caseler Perier, 50 Md. Lemoine, \$6.00 per dozen while they last.
- 50 Dauria Lemoine (pot grown), at 18c. each

Arthur T. Boddington

342 W. 14th St., New York
Mention the Florists' Exchange when writing.

CANNAS

- 10 varieties, dry bulbs, my selection.....\$2.00
- Garanlius, 10 varieties, my selection, 2 and 2 1/2 in. pots.....\$3.00
- Pansy Plants, small from frames \$3.00 per 1000.....50
- Asparagus Plumosus and Sprengeri, 2 in., \$1.75 per 100. Cash.

JOS. H. CUNNINGHAM, Delaware, O.

achillea, selidago, asters, monarda, anthemis, lysimachia, etc.

But the most widely practiced method of propagating hardy perennials is by division. The old stools of late flowering species are divided and replanted in the Spring; the early flowering ones in August. Those kinds that will stand dividing every year and at almost any season, even when in full bloom, are primulas, gentiana, agrostemma, veronica, pyrethrum, lychnis, pentstemon, solidago, cenothea, armeria, viola, bellis, phlox and the dwarf varieties of aster, coreopsis and aconitum.

Somewhat slow to propagate by division are poppies, statice, peonies, lupines, polygonum, acanthus, iris, helleborus, lathyrus, Gypsophila paniculata, Corydalis nobilis, Adonis vernalis, Lily of the valley, Anemone hepatica and Dicentra spectabilis. All of these dislike dividing and transplanting, some of them requiring several years for complete recovery, as for instance helleborus, gypsophila, Lily of the valley, peonies and dicentra.

FRED W. TIMME.

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Seedsmen and the Trade in General

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American Rose Society.

A meeting of the executive committee was held February 11, in Messrs. Traendly & Schenck's office, New York City. President Simpson reported that Robert Craig of Philadelphia, Wm. F. Kasting of Buffalo, and P. J. Hanswirth of Chicago had consented to act as judges at the Washington exhibition.

There also have been added to the list of special prizes a \$25 premium from W. A. Manda of South Orange, N. J., for the largest and most varied collection of cut roses of all classes, one or more blooms in a vase; Wm. H. Ernest of Washington, D. C., \$25 for a group of decorative plants covering at least 100 square feet of space; Vaughan's Seed Store, Chicago and New York, \$10 in gold, for six plants of White Baby Rambler rose grown in pots 5 inches or larger. For the best vase of yellow roses of any variety, \$10 in gold, by Siebrecht & Son, New Rochelle, N. Y. For the best 50 blooms of Golden Gate, a silver cup valued at \$25, by W. Atlee Burpee & Co. For the best 25 blooms La Detroit, \$25, by John Breitmeyer's Sons, Detroit, Mich.

The schedules covering the joint affairs of the American Rose Society and the Florists' Club of Washington were submitted, but there will be a supplementary list issued, as the list of prizes is increasing, many people having shown an interest to take part who had not been heard from until within a few days.

E. Gurney Hill, Richmond, Ind., will read a paper on "New Varieties." There will be two questions offered for discussion at the society's meeting, as follows: First, What definite work can the American Rose Society take up at this time for its members in particular, for the rose-loving public in general, that it does not now do?

Second, Granted that a large increased membership is desirable and essential to the permanency and usefulness of the American Rose Society, how may it best be accomplished; where shall we find ready response—among the professional florists and gardeners, or among what are commonly called "amateurs"?

The secretary reported that a pamphlet was now in press, covering the matters of the past, the constitution of the society, and a chapter on roses from the "Woman's Hardy Garden" by Helen Rutherford Frye. This work follows in the line of that done by W. J. Stewart a year or more ago, and the pamphlet is intended for distribution to members and others interested in becoming members of the society.

The Florists' Club of Washington is making strenuous efforts to have this show a decided success. The Arlington Hotel has been chosen as the headquarters of the American Rose Society. The official meetings of the society will be held in the exhibition hall, corner 15th and E. streets, N. W., Washington, D. C., the first meeting beginning at 8 p. m., on March 13.

Fishkill-on-Hudson, N. Y. BENJ. HAMMOND.
Secretary.

Greek Flower Association.

Editor Florists' Exchange:

Your notice on February 2, concerning the formation of a Greek flower association no doubt emanates from mere talk in wholesale flower circles, and as such you appear to offer it to your readers without a due study of the facts of the case.

Permit me to make a few corrections on your statement. In the first place, there is no immediate danger of the formation of such a cut flower association; and there is no \$30,000 fund forthcoming within three or four months, though double that amount can be subscribed in less than that time if certain other conditions are brought into play.

Second, your statement that most of the Greek florists throughout the city deal only in the lower grades of flowers might be true, not only specifically as regards the Greeks, but the entire profession in general. A great many others besides the Greeks deal in the lower grades of flowers, and this brand of enterprise is not only peculiar to the Greeks. If you had paid closer attention to the facts you would have discovered that among the Greeks are florists whose grade of flowers cannot be surpassed by any other "Un-Greek" in the flower line. A little walk around the best Greek flower stores will convince you of the correctness of this assertion.

The real reason of the dissatisfaction of the Greek florist is not solely the appearance of speculators—a name that is odious and their practice harsh—but the general condition of the whole market. The spirit everywhere there is one and the same—unreliable, discriminating and unscrupulous in price and deed—which exasperates even the meekest nature. These reasons in general are the real ones causing such a Greek movement, which, if not acted upon at the present time, yet they compel the formation of such an organization, which might bring a new light into the minds and some regeneration into the hearts of our present captors.

New York.

[The paragraph in our February 2 issue, to which the correspondent refers, was not meant in any way to disparage the Greek florist. It simply stated that there was talk among these gentlemen about forming an association among themselves with a view of doing away with some of the existing conditions in the wholesale flower markets.

With regard to the criticism of our remarks about the kind of stock used by the Greeks, we would observe that we are quite familiar with the quality of the flowers that some of the Greek florists use in their establishments, and are free to admit that the best is none too good for these places; at the same time, we repeat that most of the Greeks deal chiefly in the cheaper grades of flowers, and that is, we presume, because their trade demands only that grade of stock. It is also true that the same remarks would apply to other florists, but as this was an organization supposed to be composed of Greeks only, we did not deem it necessary to mention any others.

We gather from the information given in the latter part of our correspondent's letter, that our report of the organization was well founded. Our correspondent says that there is real ground for dissatisfaction, and that reasons (which he mentions) are the real ones for such a Greek movement. Why a speculator in flowers should be termed odious, however, we cannot understand. He, the speculator, has to buy in the open market, and if the fact of the speculator being in the field as a buyer tends to raise the price of flowers, so much the better must the result be to the grower. Any condition that arises which helps to give flowers a higher market value should be lauded.

Our correspondent refers also to the various branches of the wholesale trade as being "unreliable, discriminating and unscrupulous." These are harsh terms, and are entirely uncalled for, from what we know of the wholesale market. The buyer who is willing and able to pay the highest price can always get the goods, and any organization that is formed for the purpose of fixing or regulating values of flowers is sure to prove abortive. It is supply and demand only that regulate cut flower values. In connection with the so-called unscrupulous dealings of the wholesalers in general, our correspondent omits to state whether it is the special and fancy grades of flowers, such as the best Greek florists use in their establishments, or the cheaper and more plentiful grades, that in their handling he accuses the dealers of being discriminating and unscrupulous.

In conclusion, we would say emphatically that we have as much respect for the Greek florist as we have for any other florist, and we would have drawn attention to an organization promoted by any other body of men just as readily as we did to this one.]

A Correction.

Editor Florists' Exchange:

Happening to glance over the heating column of your issue of January 21, 1907, I notice that in reply to W. R. C. C. of Maryland, the first sentence says: "The size of grate for your furnace should be 13x18 feet, etc." This should have read 13x18 inches. Will you kindly make the necessary correction.

U. G. SCOLLAY.

OUR READERS' VIEWS

Mixing Carnation Pollen.

Editor Florists' Exchange:

I have never used mixed pollen, because I couldn't see where any better results could be obtained by its use. It may be possible to obtain these results, but I am unable to see how it will be possible for the pollen of two different flowers to take at the same time; and if it should take, how it will be known whether the pollen of both flowers took or not. I fail to see where the Winsor carnation shows any results of mixed pollen.

Woodhaven, N. Y.

JOHN REIMELS.

Editor Florists' Exchange:

With regard to the mixing of pollen, I suppose it is all right to do so, and would be as far as seed getting and its fertility is concerned. But it would be guessing as to which was the father of the offspring. If mixing two varieties is good, why would four not be better, and so on ad infinitum? (Humburg, a la Burbank). Ask Mr. Ward to write a pedigree for such stock for a few generations.

Sharon, Pa.

JOHN MURCHIE.

Editor Florists' Exchange:

I note with interest the various opinions in regard to the parentage of carnation Winsor, and although I have never tried to use mixed pollen in hybridizing carnations I see no reason why it could not be done successfully; and I would be the last one to dispute Mr. Murray's statement. If pollen were taken from both Daybreak and Albertini, and with such grand results, it would be well for our carnation hybridizers to follow on those lines, as Winsor must be regarded as one of the best, if not the best commercial variety of carnation ever disseminated, all points considered.

Chicago.

J. E. JENSEN.

Editor Florists' Exchange:

Anent compound or polygamous pollenization, I have done a very great amount of hybridizing of gladioli, cannas, carnations, etc., more with the view of learning the underlying principles of reproduction, etc., from a scientific viewpoint, although adhering to the most direct result-getting accomplishments. In my work I have done quite a bit with the "mixed" or, we may say, polygamous rather than monistic work. In gladioli especially have I been successful in this class of work. I have done a vast amount without getting the results that I deemed I should get. Certain laws perforce intuitively passed my vision, but somehow I could not apparently prove them; however after making a series of crosses in different directions I made a very few that gave me results far ahead of all my other work. Owing to the building up of other matter I practically dropped this work for several seasons; in the meantime these particular crosses came into bloom, so that I expect to begin anew the coming season to do what looks to me like original work along this line.

The field of hybridization is practically a new one, technically or scientifically it is untilled—just in the inception period. I spent several days at the recent meeting of the American Breeders' Association expecting to learn much, but apparently very few of those fellows ever heard of Darwin, Mendel, DeVries, etc. Mr. Burbank has given us nothing scientific; Mr. Kellogg's and Mr. Harwood's recent articles regarding his work are ridiculous in the extreme.

I would advise all growers of carnations to try mixed pollen, but in doing so they should select such sorts for seed parents as Enchantress, Robert Craig, and Mrs. Thomas W. Lawson. I rarely get good results from the wry types in plants.

There is one thing in seedling growing by which one will have the highest development in the first blooming season, and that is why so many "specialists" in gladioli fall down. They pamper and culture to the limit, but when these same bits are bloomed three consecutive times or under good ordinary conditions they will prove of the most ordinary value. Too many take things for granted without going deeply into these subjects.

A lot of these verbose, perennial egoists, who are perpetually spilling their self-adulation, do not go deeply into these matters, and that accounts for much of the laxity in some of the "scientific" ideas anent the subject. Prove all things; hold fast only to the provable. Be careful of the proof. The essayist and the magazine writer are not the best informed on a subject, as a rule, and the interested Eldorado seeker is too busy to tell the little experience has taught him.

Canal Dover, O.

C. BETSCHER.

Editor Florists' Exchange:

Regarding parentage of carnation Winsor, I did notice the statements made in your last number as well as in a previous one, but I did not consider the matter of sufficient moment to warrant any controversy. I think it is generally understood among those who have made plant breeding a study that, while a carnation bloom may be pollinated with pollen from two or more varieties and each may influence the offspring, yet no one of the offspring will inherit from more than one of the pollen parents. The very process of im-

pregnation makes that a physical impossibility, as it takes only one grain of pollen for each ovule and each ovule makes one seed.

I have seen many instances where pollen from more than one variety was used on one bloom, but I never make a practice of it myself. I consider that if a cross is worth making at all it is worthy of a whole seed pod to itself, and it is then possible to keep a clear record of your crosses. If you mix the pollen indiscriminately, you will never know to a certainty the parentage of your seedlings. It would be impossible to prove that a seedling had partaken of the characteristics of more than one male parent, even if such a thing were possible. The crossing has been so general and the results from a certain cross will be so varied that it would prove nothing.

In the case of Winsor I understand pollen was used from both Daybreak and Albertini. One of these two is the pollen parent, but not both of them.

The distributor is not claiming any triple parentage for the variety; which is proven by his letter to us in response to our query as to its origin. Here are his exact words: "I understand from the man from whom we bought it, and who raised it, that the seed parent was Lawson, but he used pollen from two different varieties—Daybreak and Mme. Diaz Albertini—and of course it is impossible to state what the exact cross is."

I considered it as a trifling misstatement by one who did not know any better, and not likely to create any serious disturbance among those who had made a study of plant breeding.

A. F. J. BAUR.

Editor Florists' Exchange:

We have been much interested in the articles regarding the parentage of the Winsor carnation; and while we have never used mixed pollen in our experiments there may have been unsuccessful experiments where the pollen was mixed, for instance, when we used the same tools for making three or four experiments on the same day. All of our best seedlings have been produced from pollen taken from but one variety, and it is a question in our mind as to whether mixed pollen would hybridize or not. The chances are, from what I have noticed, that only pollen from one flower would be taken by the other. Although the pollen may be mixed, I do not think it would have any effect on the flowers one would use as the seed parent.

A. T. PYFER.

"New Creations" Once More.

Editor Florists' Exchange:

Surely your readers must be pretty well tired of this discussion of the term "New Creations." Luther Burbank needs no "defense" at my hands. He is amply justified in his use of the term "new creations." It is only fair, however, to your readers to explain that the letter from Luther Burbank, from which an extract is published on page 28 of the Farm Annual and which is quoted in your review, was not written by Mr. Burbank as in any way an answer to his critics, as your correspondent, John Birnie, would imply. The fact is, that this quotation was from a strictly private letter to me written by Mr. Burbank on October 29 in reply to a note of October 23, bearing entirely upon a separate subject, and to which I happened to add the following postscript: "Earl has just returned from a hurried trip to California where I sent him especially to see two new Lima beans that I could not possibly judge of as early as July. In presenting these I used the words new creations to which our mutual friend, Patrick O'Mara, objects so greatly, but admit that nature with her million of crosses can surpass in originating even the most skillful hybridizer! I think that even you will approve of this and that you will agree with me when I am able to send you proof sheets of photographs, etc., that it is the most remarkable find in the history of the seed trade. These two new varieties originated in 1903 as new sports, one plant of each in a field of Pole Challenger limas; they are the first Bush limas ever to have originated in California."

It was not until late in November that I telegraphed Mr. Burbank for permission to use an extract from his letter in connection with the introduction of these Bush limas. I find a copy of my note of November 20, 1906, reads as follows: "I am very much obliged for your telegram which was phoned to me to the farm as I certainly want to use your letter relative to new creations in connection with the introduction of these Bush limas, particularly at this time when there is so much discussion about the term new creations. I enclose clipping from last week's Florists' Exchange. Think you will enjoy reading 'An Open Letter to Job.'"

The above should suffice to show the consistency of Mr. Burbank in refusing absolutely to take any notice of the ridiculous criticisms that appear from time to time.

I do not want to say one word to unsettle the good old Scotch faith of your correspondent in the literal inspiration of the books of the Old Testament. Probably the majority of your readers, however, would agree with the writer that no horticulturist could believe that the first chapter of Genesis was "Divinely dictated," as John Birnie would have us believe. It is sufficient to quote these verses:

12. And the Earth brought forth grass, and herb yielding seed after his kind, and the tree yielding fruit, whose seed was in itself, after his kind: and God saw that it was good.

13. And the evening and the morning were the third day.

11. And God said, Let there be lights in the firmament of the heaven, to divide the day from the night; and let them be for signs, and for seasons, and for days, and years:

15. And let them be for lights in the firmament of the heaven, to give light upon the earth: and it was so.

16. And God made two great lights; the greater light to rule the day, and the lesser light to rule the night: he made the stars also.

17. And God set them in the firmament of the heaven, to give light upon the earth.

18. And to rule over the day and over the night, and to divide the light from the darkness: and God saw that it was good.

19. And the evening and the morning were the fourth day.

Can even John Birnie maintain that nature herself (whom we freely admit "created" our new Bush limas) ever created any plant life a day before there was heat and light? Mr. Burbank does not pretend to "create,"—if by creation is meant the making of something out of nothing. He only claims to be a close student of nature and by combination of different forces make what are in the right sense called "new creations," that is types of plants that were not in existence before.

Since dictating the above it occurs to me that it is only fair to "a house of the pretensions of the one referred to" to give your readers the exact words of the opening paragraphs of page 10 of the Farm Annual.

TWO UNIQUE BUSH LIMAS FOR 1907.—FORDHOOK AND THE BURPEE-IMPROVED.

Both of which are entirely "New Creations!" Nature, with her millions of crosses, occasionally surpasses any efforts of the most successful hybridizers. These wonderful Novelties, now exclusively introduced by us, have been bred from two plants (one of each type) discovered in a crop of Challenger Pole limas, in 1903, by our friend Henry Fish, of Santa Barbara County, California.

Burpee's Bush Lima, originating in Chester County, Pa., blazed the way for the wonderful popularity of the Bush Lima to-day. Since then improved selections have been developed—notably Burpee's Quarter-Century Strain—but little did we think that Nature would so completely eclipse all the efforts of man, and directly from the parent Pole Lima produce in distant California two new types that would surpass not only all other Bush Limas but—in size of beans—all existing Pole Limas!

If your business department thinks this gives too much free advertising to Nature's two unique "New Creations" you are authorized to charge this part of the letter at full advertising rates.

Philadelphia W. ATLEE BURPEE.

Tuberous-Rooted Begonias for Outdoor Bedding.

In one of Mr. Timme's recent articles I find a good word for begonias (tuberous-rooted) for bedding, and also the advice in effect that to have satisfactory results these plants should have a temporary shade placed over them for a time after being planted out. This advice is not only sound, if it is desired (as it always is, no doubt) that the plants receive no check when first planted out. Last Summer I happened to be in Newport, at a time when William Galvin was just completing the planting of a large bed of these plants on a Bellevue avenue estate. The plants were then (about the middle of June) in full flower, and a gorgeous sight they were. When the planting was completed a light shade made of gauze was placed over the bed, and, as I was told, to remain there for a week at least. I happened to be again in Newport in August, when I made it my business to look at that bed of begonias, and on doing so I thought I seldom, if ever, had seen a handsomer or a more dazzling bed of plants.

In bedding these plants outdoors it is important to have them grown and somewhat well established in pots.

F. N.

Effect of Magnesium Salts Upon Plant Growth.

The New York Botanical Garden has been conducting some experiments to determine the effect of magnesium salts upon plant growth. Magnesium salts in the absence of calcium salts are generally considered to be toxic to plants. Dr. Loew makes the statement that "Plants succumb soon when placed in diluted solutions of magnesium salts and no other. In fact, magnesium salts can exercise their nutritive functions only in the presence of a sufficient amount of calcium salts." With the view that the inhibitory effects noted by Loew might have been due to the use of excessive amounts of magnesium, experiments were undertaken to determine the effects of magnesium sulphate in dilute solutions using the water culture method. Seedlings of abutilon, pea and corn about 3 cm. long were used. They were suspended over the mouth of beakers either through holes in paraffined cork, or from glass rods. Growth was measured for the first 168 hours. The magnesium sulphate solutions were made up with distilled water and chemically tested Kahlbaum salts. In each series seedlings were grown in distilled water as a control. From the results obtained these conclusions are drawn: that as with calcium, so with magnesium, there is a dilution in which the toxic action is lost and stimulation begins, this dilution varying with the type of seedling; that from this point there is a gradual increase in stimulation with each successive dilution until a maximum is reached beyond which the growth decreases to the control; and that the vitality of seedlings grown in proper dilutions of magnesium sulphate is greater than in seedlings grown in distilled water.

Hybridizing Roses.

(Paper prepared by John Cook, Baltimore, Md., and read by Secretary McCauley before the Florists' Club of Washington, D. C., February 5, 1907.)

Having been requested by President Bisset and Secretary Chas. McCauley to give some of my experience in hybridizing. I do so with reluctance, as I find the longer I study and work in this line, the more I find there is no ending to the mysterious workings of nature.

Early Hybridizing Work.

Hybridization has been carried on by botanists for nearly 200 years, but more for scientific knowledge than for the improvement of florist flowers, in particular, the rose. The first hybrid tea rose was raised by Wm. Bennett of England, and the work was rapidly followed up by German and French rose growers. The first hybrid tea rose in this country, namely Souvenir de Weotton, was raised by the writer about 20 years ago. It was the outcome of crossing Bon Silene, with Louis Van Houtte. In attempting to recross this rose for several years, I found it had a tendency to reproduce itself, and I abandoned it. Then came Marion Dingee, out of Caserta, a good dark red rose for outdoor purposes. Mrs. Robert Garrett came from Sombreuil and Mme. Caroline Testout.

Thousands of seedlings have since been raised. Some of them have produced extra fine flowers, but the habit, in the way of growth and the production of bloom for commercial purposes, was such that it would not pay to grow them. I found by recrossing some of these seedlings which have the least faults, we are more apt to get good roses for commercial purposes. I have one now which has some good points for commercial Winter work. It is the second generation of my white seedling, Madonna, and the Enchanter. It has a stronger growth than either of these, a stiff stem and large pink flower of a shade lighter than that of the Enchanter. Another is one which is the outcome of one of my unnamed seedlings crossed with another unnamed one which had American Beauty blood on the male side. The plant is now 10 months old from seed, and has produced during this Winter five beautiful, shell-pink flowers, as large as those of the American Beauty, with 3 and 4-foot stiff stems, foliage larger and handsomer than that of Beauty. The future will tell how satisfactory this rose is going to prove. There are many other recrossed seedlings in sight, of which I will not speak now.

Imperfect Organs a Drawback.

The trouble with most of our Winter-flowering standard varieties is that the organs in ninety-nine cases out of a hundred are imperfect. This is so in the case of Bride, Bridesmaid, and Golden Gate. In red we have good material to work on, such as Richmond, Cardinal and Liberty. The very best in pink are Caroline Testout and Marie Van Houtte, with its strong, healthy growth; it makes a good seed bearer; also Etoile de France. As this latter rose proved to be too double, I thought of using the pollen from a less double rose I used Richmond; the result was that two seedlings came up, and bloomed for the first time a month ago. One of them was perfectly single, with a more rapid growth than the Richmond; the other was double as Etoile de France. I have several seedlings where the pollen was taken from three and four different varieties mixed together, and they are the richest color in red of any I have ever raised.

Choosing Parents.

In most cases, if you cross a white variety with a pink one, the product will be lighter than the parent pink; and if you cross a pink rose with a red one, it will be darker.

For the seed bearer I would use the strongest grower; and for the pollen bearer one having the best color. It takes four or five months for the seed to ripen. When perfectly ripe, bruise the heps or seed balls and put them in sand, where the flesh will soon rot, when you can wash out the seed, and sow it at once. It will take from three to ten months for some of the seedlings to come up. You will find that not nearly as many seeds will germinate as you expect. The reason of this is, by investigating a great many of the pistils will be found crooked and twisted, consequently the pollen cannot be carried down to the ovules. I always take a little pollen from the seed bearer in order to get as much of its habit as possible, as the pollen sometimes used for pollenizing dominates over the seed-bearer and you lose exactly what you have been trying to preserve—a strong growing habit.

Time to Fertilize.

Under glass I fertilize any time—Summer or Winter. Outdoors in Summer you have to do the work early, as the pollen on a hot day, toward noon, gets hard. It is then worthless. If the pistils on the surface have a watery appearance then is the time to apply the pollen. If the flower which you wish to fertilize is not quite ready to receive the pollen, you can cut the flower with which you wish to pollenize, put it in a tumbler of water, in a cool shady place, and it will keep for two or three days.

BOOKS RECEIVED.

THE DAHLIA MANUAL; a Treatise on Dahlia Culture. Illustrated. By W. W. Wilmore, Denver, Col. Price, 35 cents. Paper.

The author of this Manual is one of the most successful growers of the dahlia in the United States, making a specialty of this class of plants. It follows, therefore, that what he has to say on the subject of the dahlia is fit once most serviceable and instructive. In his little book Mr. Wilmore tells us that it is twenty-five years ago since he began the study of the dahlia, being first attracted to the flower by some blooms seen growing in a neighboring yard. The past twenty years of his work has been that of a commercial grower and originator of new varieties.

The author gives the following classification of the dahlia:

Cactus—These have long, narrow petals; some varieties quite regular in form, others with curved and twisted petals. They may be solid in color, or shaded and variegated.

Decorative—These have broad, flat petals. The flower is also flattened in form. This class also has a wide range of colors and variegation.

Fancy—This name is generally applied to the large rounded full flowers, with two or more colors, which may appear in the form of a lighter tip on the petal or in streaked or dotted petals. It is proper, however, to refer to any variegated flower as Fancy, regardless of the class to which it belongs.

Pompon—Small flowers, rounded and full. This class takes in all miniature varieties of the Show and Fancy classes.

Show—Large rounded flowers, showing only solid or self colors, but may frequently have shadings of color. To distinguish between Show and Fancy varieties, apply this rule: If the tip of the petal is lighter than the ground color it is variegated. If the tip is darker than the ground color it is a Show variety.

Single—This class is too well known to require description. A seventh class may yet call for a place on the list.

The French Collarete—This is a single form with a fringe around the disc.

The history of the dahlia is very fully gone into, from the time of the discovery of the plant, about 1657, to its introduction from Mexico to France, thence to Spain, England and other countries. The first double form was raised by M. Donkelaar in 1814. The first cactus dahlia originated in 1872, but



W. W. Wilmore

Regarding florists' varieties, he recommends that the list should be short and suitable to the purpose. A few varieties are preferable to many, and these should be clear, bright, self-colored flowers, though not necessarily deep colors; but should be selected to conform to the popular color tastes of the day. He is of the opinion that six to eight good varieties would meet the requirements of the cut flower trade, say red, scarlet, yellow, two shades of pink, and two white, one large and one small for design work.

As we have said, Mr. Wilmore's Manual will be found of the greatest practical service to all interested in the popular dahlia.

LAWNS AND HOW TO MAKE THEM. By Leonard Barron. Publishers, Doubleday, Page & Company, New York. Price, \$1.10.

Bailey, in his Cyclopaedia of American Horti-

greensward in any sort of soil where grass can be made to grow."

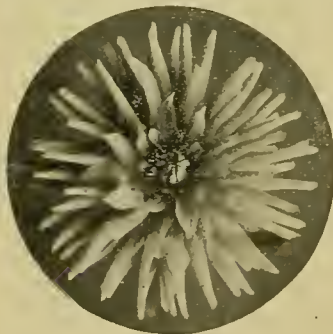
Copies of the volume, which is attractively gotten up, can be supplied by The Florists' Exchange at the price named—\$1.10.

The Jamestown Exposition.

The peculiar charm of the exposition at Jamestown, Va., and in this respect it is exceptionally fortunate, is due to the natural beauty and adaptiveness of its surroundings. The great sweep of water the century old cypress forests, its creeks, heavily shaded, and on all sides its wealth of verdure, lend it a character entirely new to such expositions. The grounds are in reality a great park artfully contrived to appear entirely natural. It will doubtless be this atmosphere of restfulness which will first appeal to the visitor, and afterwards it will doubtless be this memory which will linger longest in one's recollections of the great fair.

This same distinctive note greets one before even entering the grounds. Surrounding the exposition, in place of the customary wall or fence, there has been grown a beautiful hedge. A fence of barbed wire was stretched about the grounds some two years ago and along this has been trailed a wealth of Virginia creepers, honeysuckle and wild roses. Already the wire has been completely overgrown, so that it is in reality a thick hedge, quite impenetrable, and fragrant with roses and columbine. The long stretches of this flowering hedge serve admirably as a fence, while at the same time it gives the boundaries of the exposition grounds the appearance of some well cultivated park rather than a walled enclosure.

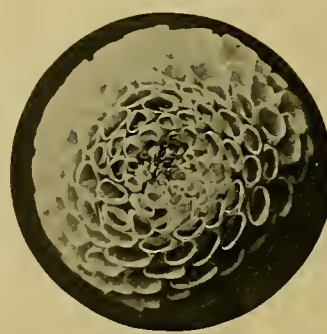
Then again the light tone of the many groups of buildings is everywhere relieved by the heavy foliage. As one approaches the grounds the sky line is dominated by groups of great cypress trees which have all the charm of a landscape in Lombardy. For several years a considerable portion of the grounds has been utilized as an immense nursery for growing shrubs, trees and flowers for the exposition, and more than one million plants have been raised for the general decoration. Since it has only been necessary to carry the plants a short distance, it has been possible to grow them to un-



Cactus



Fancy



Show.



Decorative

CLASSIFICATION OF DAHLIAS

From Wilmore's Dahlia Manual

was not placed on the market until 1880. Mr. Wilmore says that although the dahlia is very much inclined to sport, yet all attempts to fix these sports into a new variety have been fruitless, for sooner or later they return to the parent color. The dahlia is a native of Central America and Southern Mexico, where it grows wild upon the meadows and table lands to an altitude of 10,000 feet.

The Manual then goes on to give very practical cultural directions, and tells how to store the tubers in winter. Mr. Wilmore, very sensibly, we think, leaves the varieties to plant open to public taste. He advises to deal only with reliable dealers and not to plant too many kinds. The cactus types are leading in popular favor, although it is plainly evident that the older types—especially the decorative forms—will find favor with the public. The single varieties are also growing in popularity, which would be intensified were it not for a weakness they have of dropping their petals quickly.

In regard to the cutting of the blooms, Mr. Wilmore says that they should never be cut in the heat of the day; the work should be done in the early evening or early morning—preferably the evening, as they will then have the cool night in which to harden. He does not recommend dahlia foliage for a green, as it wilts quickly, and where the foliage is attached to the stem with the bloom, it causes the bloom to wilt also.

Among suggested reforms, the author is of the opinion that the list of varieties grown and catalogued should be curtailed. Of the one thousand and more named sorts now before the public, he says, six hundred should be discarded at once, and the remaining four hundred should then be made to pass in review before a critical public, and after one hundred to one hundred and fifty have been selected, the balance may be permanently excused.

culture, says: "In recent years, the making of horticultural literature is passing more and more from the working horticulturist to the specially trained student and writer." The volume before us is an exemplification of the truth of Professor Bailey's statement. It demonstrates, too, that the "working horticulturist" is not the only one who can produce a good serviceable book; for in this accomplishment Mr. Barron has, with the assistance rendered him, succeeded admirably. The making of lawns is a subject dealt with in most of the catalogues of our leading seed houses, more or less comprehensively. In this work, however, the author goes into the matter most exhaustively, treating upon the digging and plowing of the lawn, the selection of site, seeding and turfing; in fact, all the minutiae that in the aggregate mean a sward of refreshing green. The volume is profusely illustrated; several of the pictures depicting work of the most elemental character, of questionable value to any one, while others are quite informative. Mr. Barron has not omitted to provide instructions for the making of putting greens, and quotes the remarks of Travis, the golf champion, on the important part played by a well-constructed green in the enjoyment of that now popular game.

A very useful part of the book is that chapter termed "A guide to the best lawn grasses," being a tabular presentation of the essential differences of the seventeen standard lawn grasses, their soil preferences, and uses; prices, weights, and quantities to sow.

As a whole the book well carries out the aim of the author, who states "its purpose is to enable any one to establish a respectable and adequate

usual size before transplanting, to the obvious advantage of the decorative scheme. To cite a single instance: the Lee parade ground, one of the largest fields for its purpose in the country, has been surrounded with apple trees full grown. The gnarled trunks and the rich green of their foliage will, of course, supply a beautiful background for the brilliant troops of many nations who will maneuver here.

One of the most striking of the government exhibits will be that of drugs and medicinal plants. The poisonous plant exhibit consists of actual plants growing under glass, and water color illustrations of a great number which could not be so displayed. A number of valuable plants which bear a close resemblance to poisonous varieties will be shown in juxtaposition, so that one may not be mistaken for the other. There will also be an exhibit showing foreign plants which have been successfully introduced into America, and others which are deemed worthy of serious attention by American agriculturists. A very complete exhibit of grasses and forage plants will be shown and farm demonstration work, including cattle ranges and stock farms, will be illustrated by transparencies. Cereal investigations, studies of fibre plants and the experiment station will be conducted in epitome at the exposition.

Throughout the exposition the Department of Agriculture will present exhibits and make experiments which will have great value to the scientific agriculturist. The Bureau of Plant Industry will conduct investigations devoted to the cause and cure of diseases to which cultivated crops are liable, and to the best methods of producing certain crops under given conditions. Various seeds, plants, fertilizers, etc., will be tested and experiments made to show the practical results which follow certain scientific methods.—N. Y. Herald.

CARNATIONS

Bedding Carnations.

The demand for outdoor carnations is growing from year to year. Florists who deal in plants for the garden cannot afford to ignore the constantly increasing call for bedding carnations, hardy sorts and such that furnish flowers for cutting during the summer. The retail grower who is not trying to do his best to meet this demand in some creditable way is missing an opportunity for developing a good line of trade.

It is strange, too, that American growers, justly noted for their alertness in matters of business possibilities, should approach the question of how to utilize carnations in ways other than indoor forcing, so haltingly and with such undecided interest. The assertion often made that carnations in outdoor plantings will not do as well here as in Europe is not true. In all my trials with nearly all of the species that come under the head of true carnations, I never saw them behave otherwise than splendidly as regards health, vigor, durability and willingness to bloom, though, of course, but few possessed the essential qualities, all combined in any one species, that would make it a bedding carnation par excellence. It is this that we are fervently looking for, hoping to see it come forth some time in the near future.

Meanwhile it is not at all impossible—not even difficult—to find among the many species embraced in the genus *Dianthus*, some that might safely be taken in hand by the commercial grower for the purpose of supplying his customers with good garden sorts in presentable shape and promising condition. Raised in a gardener-like manner and offered in as good a form as all other florists' stock, they never fail to give entire satisfaction.

At this season of the year with Spring close at hand, it seems timely to review the various types found in *Dianthus*, to see in how far they may be made to serve the purpose under consideration. In doing this we must bear in mind that none of our greenhouse varieties are of any value whatever for effective outdoor bedding, as has been proved in the repeated trials made with some of the best promising sorts in our public parks. If potted up in the Fall, kept partially dormant during the winter and planted out in the Spring, they will furnish a good many flowers throughout the summer for picking. Large numbers can be sold for this particular use every Spring. But only some of the varieties are good for the purpose and these only when rested during the winter, so that this is not the kind of stock which will prove especially profitable to handle. For this reason we must have recourse to sorts more satisfactory in every respect, harder of constitution, easier and less expensive to raise, and more fully answering the various purposes for which they are wanted. All of them are desirable and fast-selling florists' stock, each species and variety possessing its own peculiar merit.

Beginning with the least important of the entire genus we have for the low border *Dianthus chinensis*, a species excellent for massing and quite showy. The flowers are not fragrant, but are produced in large numbers throughout the summer. There are many varieties, all of them good for bedding. Chinese pinks, as also the Japanese varieties belonging to this class, are best when treated as an



Dianthus barbatus

Photo by John F. Johnston

annual species. The seeds may be sown at any time in the Spring, since the plants come into bloom in a shorter time after the seeds are sown than any other known species of the entire order.

Next we come to the tribe of hardy garden pinks, useful for the mixed border, the flowers fragrant and good for picking. Most of the varieties flower in May or June, a few of them the greater part of summer, such as *Cyclops* and others of the *semperflorens* type. They all are fairly hardy with little in the way of protection. Propagation is by cuttings, division or from seeds. Some few of the varieties, if the seeds are sown very early, will bloom the first season. To this class belong also the well known Sweet William, *Dianthus barbatus*, and the Scotch pink or Pheasant's eye, *Dianthus plumarius*, this latter having the distinction of be-

ing the most fragrant of all the pinks. They are easily multiplied by division or raised from seeds, sown in April or May.

A splendid sort of massing in beds, partially shaded, is *Dianthus latifolius atrococcineus*, a kind greatly resembling in its bearing Sweet William but remaining in bloom much longer. Its dazzling red flowers, borne in the form of compact trusses, produce a splendid effect. The plants are quite hardy. It is best to raise them from seeds, which if sown early will grow into flowering plants the first year.

A comparatively new variety, one which promises to be the very finest of hardy pinks but as yet some what scarce and high priced, is *Dianthus Napoleon III*. It flowers from early until late in the season and, as it appears to me, would be a good thing for the regular flower bed if planted about fourteen inches each way. It grows into immense bushes and seems, as far as I can see now, to winter well under slight protection. The flowers are double, blood red, very bright, and emit a pleasant, spicy odor. Nothing better for picking.

The next step brings us into carnations proper. Of least value to the commercial grower are the ordinary strains of Marguerite carnations. Although these flower in a few months after the seed is sown it is not the kind of stock to offer to our customers, though there is quite a call for Marguerite carnations every Spring. This call, however, should be met with well-grown plants of the best and most important newer varieties of Marguerites, of which there are several that combine all the good traits distinguishing the perfect bedding carnation from the unsightly row of stragglers along the back fence.

Foremost among improved Marguerite carnations stands the variety *Chabaud*. The seeds should be sown early in March to obtain good-sized 2-inch plants for marketing five or six weeks later. They will begin to bloom soon after being set out and continue throughout Summer. The habit of the plants is upright and compact; the flowers are held erect, are large, very sweet, good for cutting, as also quite effective in bedding arrangements. All the colors found in carnations are represented, not excepting pure and striped yellows. The plants if wanted for another season must be taken up in the Fall and wintered over in any cool but frost-proof place. This variety surpasses in point of utility for outdoor planting many of our best bedders.

Another excellent sort for bedding, to be treated like the foregoing, is the sub-variety *Glowing Coal*. Most of the plants will produce scarlet flowers, very double and exceedingly fragrant. A variety of recent introduction.

A very good bedding carnation of the Marguerite type is the *Guillaud* strain, inasmuch as the habit of the plants is all that can be desired for the purpose. The flowers are of good size and form, coming in an endless diversity of colors, and are produced in great abundance all through the Summer and late Fall, even continuing during the entire Winter, if the plants are potted up and taken in before hard frosts occur. Best raised from seeds which must be sown rather early to obtain good results the first year. This variety does best in light sandy soil.

Well-tried bedding carnations—not belonging to the Marguerite class—are the Grenadin and dwarf Vienna species, both of them quite hardy, but not enough so to stand our Winters without carefully placed protection. I consider these the most suitable and most satisfactory sorts for the general plant trade, though they are a trifle more expensive to raise, since they do not flower the first year, when raised from seeds, which, after all, gives the finest and most floriferous plants. The seeds are sown in April or May in outdoor frames, are transplanted into the field when the plants are large enough to stand the shifting, and they invariably grow into large clumps by November, when they are potted up or simply lifted with all the soil adhering to the roots and stored away under some cool bench or corner of the shed. In early March they are cleaned of dead and dry leaves and slowly started into growth, which now is a multitude of strong, fast pushing shoots from the crown of the old plants. By the time sales begin these plants are a mass of buds and, later on, a perfect sheet of bright color, the bloom lasting until away into Fall. There is only a pure white variety of Grenadin, but the original type only produced flowers of the brightest scarlet. In the dwarf Vienna strain flowers vary greatly in color, and for this reason the Grenadins are to be preferred for highly effective border planting. FRED. W. TIMME.

Sweet William (*Dianthus Barbatus*).

The sweet williams of our garden is *Dianthus barbatus*, a member of the pink family. It is one of the oldest of garden flowers; something is wanting if it is not found in the old-fashioned gardens. It possesses many charms endearing itself to all who love the old-time flowers. The blooms are of various colors, exceedingly attractive, and the plants are free flowering. The sweet william is really a perennial, but better results are obtained if it is treated as a biennial. Seed sown in July in the open border will furnish good plants for the following season's flowering. In addition to the many beautiful single varieties there are numerous double ones which continue in flower for a longer period. Never let the hardy border be without the dear old sweet william. L. I. JOHN F. JOHNSTON.



Dianthus plumarius

Photo by John F. Johnston

FOR THE RETAILER

A Window Decoration.

This is not the first time I have gone into the subject of artistic window decorations, but this week I was particularly impressed with the display of a Fifth avenue florist noted for his novel window decorations. A great deal of thought and mechanical skill must have been expended to obtain such splendid results.

Much has been said of the remarkable skill of the Japanese displayed in their wonderful miniature landscapes depicting their unique style of gardening; but the particular decoration to which I refer was the work of a New York florist, who has certainly something more in his head than the making of bouquets and "buttonholes."

The whole window was devoted to this display. In the background, to the left of the picture, was a country farm house and water-mill; cattle, pigs, and poultry were in the yard, outhouses, dog kennels, farming implements, and, in fact, everything that goes to make up a well equipped farm. To the right, crowning the top of a hill, was a windmill, the sails being kept revolving by a mechanical contrivance. In the foreground, to the left, was depicted a well-kept garden, with terraces and lawns; and a little to the right was a sunken Italian garden, its principal ornament being a fountain in the center. A miniature group of the "Three Graces," who were continually showered by the tiny fountain, made the scene complete. Still further to the



Montreal Gardeners and Florists' Club Cup, for Largest and Best Exhibit of Carnations
Won by F. R. Pierson Co., at Toronto Exhibition A. C. S.

right, and occupying the main part of the window, were rolling meadows formed by artfully placed lumps of green moss, through which roamed cattle and sheep. Tiny streams having their source at the pond behind the water-mill wound their way around miniature hills and huge boulders, finally emptying into a pond at the extreme right which in itself was a work of art. Clumps of bushes and reeds were on the banks; water lilies and gold fish were in the water, cattle quenching their thirst at the water's edge, in most natural poses. The whole landscape apparently took in several acres and was complete in every detail, making a window decoration both attractive and novel.

Florists' Greens.

It has been my experience that no matter in what quantities cut flowers are sent into this market there seldom, if ever, seems to be a surplus of green material, unless on rare occasions we have too much smilax. But something usually comes along to use it up, and very little is thrown away. The popularity of Asparagus Sprengeri is evidently on the wane, and the favorite A. plumosus is back in its old place, although the former still has its uses and is indispensable in some cases, its light green coloring being its chief recommendation. A quantity of first-class A. plumosus is now being shipped from the South to this market. The bunches contain 25 good sprays, while those of the local shippers always contain about 50 per cent. short ends and rubbish, which are very disappointing when one comes to use them.

The introduction of Adiantum Croweanum has been a great help to the retailer, and the regular supply of that fern has done much to lighten the troubles of the buyer, as there was no regular supply before its introduction.

A tenerum is being received by one wholesaler, and I have often wondered why it is not more grown. He has been getting good prices for the fronds. I know from experience that it is not more difficult to grow than A. cuneatum, and it is one of the handsomest of the adiantums splendid for large effects and to use with large flowers, such as lilies, and chrysanthemums. Adiantum tenerum Farleyense, which is a relation of A. tenerum, has been in good supply this Winter, but the demand has not been extensive. This fern has also sold slowly as a pot plant.

Anything new in the way of green would be a welcome addition. Stevia covers the need for a short time, but there is little to take its place. Customers demand so much with their flowers nowadays, and are indignant if you ask them to pay for it. Lencothoe sprays and fancy ferns are a great help for filling up but do not satisfy our best buyers who demand asparagus or maidenhair fern. There is a great need of a supply of some soft, feathery stock to take the place of asparagus, which is a slow grower and therefore expensive, becoming very scarce as the season advances. Tamarix and the edible asparagus help out in the Summer months, and if they could be forced, would be welcome now.

I have often used Southern smilax for large table effects, and if care is taken in selecting good shapely sprays some very good effects may be obtained with it. But the leaves are too large for small table work; for general decorative work, however, it, of course, has no rival.

A visit to Covent Garden market, London, would give the home growers some useful hints as to what is used by the London florists in the way of green; in fact, everything that can be spared is sent in there. Croton leaves appear regularly at this center and are used for funeral work, and even for bouquets. This finer leaved sort make up admirably with orchids and other choice flowers. Several varieties of pteris are used. Pteris serrulata being grown for that purpose. Bunches of mixed ferns cut from ragged or overgrown plants, dracenas, pandanus and every conceivable variety of foliage are regularly sent in from one source or another.

Rose foliage is seldom to be had in this market; and what is finer for use with roses! The same may be said of carnation grass; it is only on rare occasions or at the flower show that you see carnations with their own buds and foliage. The exhibitor knows how to stage his carnations for effect by using the natural foliage, but the retailer seldom has the opportunity to do this for lack of the material.

While we have an immense variety of flowers to offer to our customers the different kinds of green, or foliage, could almost be counted on the five fingers; and I think the subject is well worth the attention of enterprising growers. Any addition to the regular supply would be eagerly welcomed by the retail florist.
D. RAYBUN.

British Credit System.

Consul Rufus Fleming of Edinburgh, in the annexed report on the British credit system, furnishes information regarding methods in Scotland which will be serviceable to those exporting merchandise to that country:

Each year extends and confirms the thirty-day credit rule in the domestic trade of British industries and wholesale houses. Manufacturers and exporters on the continent of Europe doing business here are also conforming to the generally accepted system. It is not so much a restriction of credit as an acquiescence in the common wish of dealers themselves. On the part of most dealers longer credit is neither required nor favored. In fact there are few established firms that do not pay cash for wares and merchandise on thirty-day bills or accounts if they thereby get the benefit of even a fraction of 1 per cent discount. Some leading firms buying large quantities of goods abroad deal through their own agents, the discount for cash paying the agents' commissions.

Speaking of this part of Scotland only—although conditions are probably much the same in all sections—I find that prominent business men take the view that the object of trade credits is fully served (except in special cases) when the period covers delivery of the goods. A longer term offers a temptation to the purchaser to pay interest on the money value of the goods, thereby reducing his profits. The advantages of short credits—the lowest prices and also the best opportunities for the future—are lost in proportion as length of credit may create a sense of obligation for a favor. The average Scottish business man esteems above everything else his independence in business matters, and therefore dislikes above everything else the fetters of favors received. He wishes to discharge any obligation with the least possible delay, to feel free to deal with whom he chooses, and to secure the best bargains obtainable. What specially commends the short-credit system to the trading community as a whole is that it simplifies business and reduces to the minimum the friction in the machinery of trade.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unequalled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLOREST, the largest flower store in the South, Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.



George A. Sutherland.

George A. Sutherland, president and manager of the G. A. Sutherland Company, Boston, Mass., was found dead in the basement of his store, 34 Hawley Street, on Monday morning, where he had deliberately turned on the gas and awaited death. The news came as quite a shock, and his death was the chief topic of conversation in the flower district with which he had been identified for nearly twenty years.

Mr. Sutherland first started in business in partnership with the late L. M. Peck under the firm name of Peck & Sutherland, which firm bought out the wholesale house of Wm. J. Stewart on Bromfield street, Boston. The business was continued at the same location until forced to move on account of rebuilding, when quarters were secured on Hawley street. Of recent years Mr. Sutherland had met with many business reverses, and these combined with ill health are said to have worked on his mind and been the cause of his sad act. He is survived by a widow, but no children.
J. W. D.

An esteemed Chicago contemporary says it "has more subscribers in the State of New York than in any other State in the Union." That may be, and still the statement may signify but little. We congratulate the other States and extend our sympathy to New York.

CLUB AND SOCIETY DOINGS.

NEW YORK FLORISTS' CLUB.—The meeting on Monday evening, Feb. 11, was well attended, despite the fact that the night was extremely cold. There was an interesting display of carnations and sweet peas. President Totty occupied the chair. The outing committee reported the progress it had made in arranging for that annual event. Witzel's Point Grove is spoken of as the place, and Tuesday, July 2, as the date. The committee, in its report, suggested that the club might appropriate \$100 from the treasury toward defraying the expenses of the outing in the matter of prizes for the sports, and otherwise. This brought out considerable discussion, some of the members favoring the proposition, others being against drawing on the club's funds for such a purpose. It was believed that the appropriation would obviate, to a degree, the necessity of the club soliciting from members and outsiders advertisements for the program of sports, which was regarded as undignified and more or less of an imposition on the generosity of the craft simply for the detection of the picknickers. A motion to make the price of the double ticket \$5, and \$3 for ladies, presented by Mr. O'Mara, was tabled. Finally Mr. Butterfield gave notice that at next meeting he would submit a motion, calling for the appropriation asked by the committee. All the best features of preceding outings will be repeated this year, and everything will be done to make the affair the most enjoyable.

Mr. Sheridan, on behalf of the dinner committee, stated that all arrangements had been made for the annual feast, which would take place at the St. Denis Hotel, on Saturday, February 23, at 7.30 p. m. Tickets are \$5 each, and an early response is respectfully requested to facilitate the committee's work in providing for all who intend being present. Some novel features in the way of entertainment will be furnished; and it is expected that several noted post-prandial speakers will add to the pleasure of this always pleasurable affair. The number in attendance should be a large one. Let all go who can.

The following were elected members: Henry Hornecker, R. E. Berry, Albert Weisenberger, A. Begerow, A. F. Faulkner, and Geo. E. Dickinson.

H. Tause, A. R. Kennedy, E. Eckles and J. M. Gerachty were proposed for membership. The resignation of E. W. Hitchings was received with regrets.

A suggestion was made by Treasurer Wheeler that a membership committee be appointed to pass upon the eligibility of candidates, and Mr. Sheridan gave notice that he would embody that in a motion to be presented at next meeting.

The trustees recommended the adoption of Mr. Wheeler's motion to change the by-laws, placing the treasurer under bonds. The mover of the motion, however, had subsequently discovered that the club's funds were well safeguarded under the existing by-laws, and the matter was laid on the table.

A shew of hands favoring the formation of a bowling club demonstrated but little enthusiasm by the members in this healthful sport.

Alex. J. Guttman gave a short talk on the recent meeting and exhibition of the American Carnation Society at Toronto. He praised the cordiality and hospitality of the Canadian brethren. The banquet was, he said, more like a state function, and every speaker "was a man." He spoke a good word for the trade press reports of the affair; and added that carnation growers generally should feel jubilant over present conditions. He warned rose growers that unless they take heed their flower would surely lose much prestige. The carnation was preferred by flower buyers on account of its durability; but as a larger profit was made by the retailers through handling roses, they, of course, continued to push the latter. He thought if the buds were not cut so tight that roses would last much longer in the living room. Color in a carnation was not of so much importance, provided it was a good clear one, and the bloom had a good stem. Seedling raisers should be encouraged; and, in his opinion, every new variety advertised at the present time was worthy of trial by growers.

Mr. O'Mara took up the certificate question, particularly in regard to inspection by visiting committees before final award. He commended the club's method of judging varieties on the exhibition table as well as at the growing establishment, by different scales; and it had happened where some sorts scored higher in the greenhouse than on the table. Of course, the grower himself had a great deal to do with the success of a variety; this was shown by the fact that flowers of the same carnation were graded before being sent to market. The best knowledge of a variety was obtained by viewing it in the greenhouse; and the speaker thought it would have been better had the Carnation Society's committee submitted some plan of inspection, even if it were not possible to carry out that plan under all circumstances. Most of the leading hybridizers and introducers of new varieties are comparatively near the large centers of population, rendering inspection easy of accomplishment; and he thought it would have been better for all concerned had the committee been bolder and presented a plan of inspection, instead of being afraid of falling down in the carrying out of its details. Mr. O'Mara referred to one grower's price list

wherein, with respect to a novelty, it was stated that it had developed unforeseen tendencies necessitating, in justice to the disseminators and to the public, the withdrawal of the variety at the present time. That was good business policy, but, unfortunately, there were some who had not that courage.

President Totty agreed with Mr. O'Mara and with the views presented in John Birnie's paper. If the Carnation Society as a society could not make these inspection visits the work could be delegated to sub-committees, preferably those of the leading florists' clubs. Mr. Totty, too, was of opinion that the Carnation Society lacked the boldness shown by the New York Florists' Club in this particular respect.

Mr. Birnie repeated his views on the subject; and emphasized the necessity of an inspection of the propagating house where cuttings of new varieties were growing. He instanced a case where he had found the thermometer in a carnation propagating house, in the month of February, standing at 72 degrees. Such treatment of young stock was responsible for many of the failures with new carnations. If the Carnation Society is to do its duty to the buyer, he argued that its method of awarding certificates should be changed or it should cease to give certificates.



Canadian Horticultural Association Trophy. For best Six Vases of Carnations, 50 each. Won by F. R. Pierson Co., at Toronto Exhibition A. C. S.

Mr. Butterfield thought a good deal could be said on both sides, but it seemed to him unreasonable to expect the Carnation Society to do work of the nature suggested for the small amount asked as annual dues.

Mr. Guttman also endorsed the inspection plan; he considered the subject was decided as it was at Toronto because no one was present at the meeting to support the recommendations contained in Mr. Birnie's paper.

After Secretary Young and others had told of the pleasant time they had at Toronto, on motion of Mr. Young the club voted its thanks to the Canadian Gardeners and Florists' Association for their generous and kind treatment of the members who journeyed across the border.

The award committee reported the result of their visit to the establishment of Dailedouze Brothers at Flatbush, N. Y., to inspect that firm's pink sport of Lawson, which has been named Welcome. The committee found the stock in excellent condition, free from disease, and stated that Welcome should prove an excellent commercial variety. They scored it 9½ points, and recommended that it be awarded a certificate of merit. Anton Zvelanek made a nice display of sweet peas, among which were Mrs. Dolansky, a light pink; Mrs. E. Wild, scarlet; Mrs. Wm. Sim, salmon pink; Mrs. Alex. Wallace, lavender; and Mrs. H. M. Gould, a pink and white, for which a cultural certificate was awarded. J. D. Ceckroft, Northport, L. I., showed two nice carnations—Georgia, a white, and Harvard, crimson; the latter scored 86 points and being awarded a preliminary certificate. From H. Weber & Sons, Oakland, Md., came

Torador, a flaked variety, something on the order of Prosperity and Mabelle, their new cerise variety. The award committee scored Torador 87 points and awarded a preliminary certificate. F. R. Pierson, Tarrytown, N. Y., showed fine flowers of carnation Winsor. This variety has already been certificated. Daillehouze Brothers, Flatbush, staged a nice vase of Welcome. John E. Haines of Bethlehem, Pa., exhibited a few flowers each of the varieties Imperial and Pink Imperial. L. C. Enggren of Woodhaven, L. I., showed a vase of his seedling, a very light pink of pleasing color. John Reimels, also of Woodhaven, had his red seedling Number 25, and the pink variety Winsome. F. Boulon & Son, of the Sea Cliff Nurseries, exhibited a vase of Princess of Wales violets.

LENOX (MASS.) HORTICULTURAL SOCIETY. The regular meeting of the society was held Saturday, February 2, 1907. President F. Heeremans in the chair. Three new members were elected. George H. Instone was elected secretary to succeed George Foulsham, who has gone to Savannah, Ga., to become superintendent of Mr. Shutter's estate. New carnations were exhibited by the F. R. Pierson Company, of Tarrytown, N. Y.; among them were White Enchantress, Winsor, Melody and Helen Gould, all of which were very fine. A diploma was awarded for each of them. This being the night of the annual dinner, no further business was done.

The seventh annual dinner was held in the Curtis Hotel directly after the meeting on Saturday evening. There were one hundred present, and the dinner was the best the society has ever had. Every guest got a souvenir in the shape of a menu card done in red. On the front cover was the seal of the society which bears the date of organization, January, 1893.

President Frederick Heeremans read the opening address, and introduced A. H. Wingett, a former president, as toastmaster. Among the many speakers were Messrs. A. MacConachie, E. Jenkins, of Lenox; John H. Sarbuck, of Pittsfield; Selectman Eustice Jacques, Editor White, of Lee, ex-selectman Richard Stanley, John K. M. L. Farquhar, of Boston; James T. Scott, of New York; W. D. Curtis, proprietor of the hotel, and A. J. Lovless, president of the Chrysanthemum Society of America. Vocal selections were rendered during the evening.

A special meeting of the society was held on January 30, to reconsider the holding of a ball; it was unanimously voted to hold one, the time set being February 11. J. T.

THE COLUMBUS FLORISTS' CLUB has held both its January meetings since my last report. In a way both of these continued the same business. Perhaps the feature of the most real value and interest to the members has been the recently introduced plan of having displays of plants and flowers at each meeting of the club. As I have previously explained, we have introduced a point system of awards, that is, we give to every exhibitor a certain number of points, (maximum twenty-five), for each and every exhibit made. At the end of the season to the members having the largest total number of points a prize of \$5 will be awarded by the club, also a second prize of \$3 and a third prize of \$2 to the next two exhibitors having the next greatest point totals. This plan to encourage floral displays at every meeting is succeeding beyond the most sanguine expectations of its sponsors; greater interest is already manifest in the club, many new members are joining us, and the most pleasing feature of all is, that the old members are coming more regularly; in fact, lately the number present at each meeting is averaging more than double what the attendance was a year ago.

The past two meetings have in cut flowers been devoted to carnations, and fine indeed have been the displays. The most elaborate exhibit of these was made by President Sherman Stephens, who has shown the following varieties in very fine form: Victory, Enchantress, Pink Enchantress, Flamingo, Lady Bountiful, Mrs. M. A. Patten, and Prosperity. The Fifth Avenue Floral Company also made a display of some elegantly grown Enchantress. The Franklin Park Floral Company displayed a very fine lot of Pink Enchantress. In plants some excellent displays have also been made. For a *Primula obconica*, M. B. Faxon was awarded 15 points; I. D. Seibert received 12 points for a fine *Pandanus Veitchii*; Vice-President Currie brought in an *Araucaria excelsa* for which the committee gave 6 points; for a well-grown *goldfussia* President Stephens received 15; and Treasurer Reichert the same number of points for a fine vase of Pink Enchantress carnations. The Fifth Avenue Floral Company made an exhibit of Princess of Wales violets; they were by all odds the best seen in Columbus this year; a special award was made. At this meeting Andrew Blumh, who is with the Clover Hill Greenhouses, was elected an active member.

The plans for various forthcoming shows were given attention. Messrs. Faxon, Knopf, Woodrow, Stephens, Mills, Williams, Batelle and others discussed fully the show matter; but nothing definite was decided. The committee on prizes consisted of Messrs. Williams, Baeler, Metzmaier, Torrey and Hilbs. During the evening some very enjoyable music was furnished by Miss Williams, and Earl Knopf, Jr. It is needless to say that our members fully appreciated this feature. We are now fairly settled in our new rooms in the Brent Building, and everything could not be in better shape for a successful Winter. F. W.

Feb 16, 1907

are potted up every Spring, and by some buyers are even considered extra fine— an opinion I do not share in.

In buying young stock of kinds largely handled by retail growers in the Spring, it is always better, according to my experience, to order rooted cuttings if they can be had than plants coming out of small pots. It is not a difference in price, it is the chief role in making well rooted cuttings the more profitable goods to purchase, but because they invariably grow late better stock if potted up and started in their first pots at the buyer's own place than pot-grown plants, which usually arrive in a state either not far enough advanced or not sufficiently established for a shift into larger pots, or so mutilated and broken up in packing and transit as to render them of less value than they were before they were potted with. Rooted cuttings, having traveled some distance, should on arrival be unpacked at once, not undoling the packages, holding a dozen, twenty-five or fifty, unless the potter is ready for them. Stand them upright in trays, the tops freed of wrapping, and allow no sunshine to touch them. If frozen, thaw them out slowly; and if wilted, pot them up at once, and then water them lightly until they raise their heads; then water thoroughly.

In taking rooted cuttings from the sand it is best to take them as they come, row after row, using the bare hand in scooping them out, and pulling them apart after they have been potted on a table. There is no need of being over-particular in knocking off the sand adhering to and holding the roots in a natural position; it is well to leave it on—better than breaking some of the roots in trying to remove it. Thoroughly clear the sand in the propagating bed, as you go, of all decaying matter, rotted cuttings, leaves and root stumps, and let it dry out first before using the sand again.

For the first potting of cuttings a somewhat sandy soil, sifted, not too rich and in a pleasantly moist condition, is to be used. Freshly brought-in rotted soil is to be preferred to the stale sort, cooped up all Winter in heated sheds, but no soil should ever be used in potting up cuttings or anything else raised under glass that has not entirely lost its chilly clamminess.

After Treatment.

All newly potted-up cuttings and seedlings need a good wetting down to settle the soil and to set them ageing, which for the first time had better be done with a watering can, though a practiced, careful hand will do it nicely with a small force stream from the hose. It is best, at least cleaner, to set the potted plants where they are to remain, before watering them, which means a carrying away as fast as they are potted to prevent any wilting of the plants. Newly potted plants of all kinds must be shaded for a day or two during the hours of bright sunshine, while after that they should be afforded all the light possible at this time of the year. Placing them at once on benches where they can remain with their feet in the shade, or shading them in some convenient way for a couple of days, is a better plan than first setting them on a shady bench and afterward removing them to more favorable quarters, which is useless extra labor, something to be avoided at all times.

Newly planted stock, coming out of warm soil or sand, should never be placed in a house much colder than the place of its first raising. In so doing the stock is exposed to a setback, which, with some varieties, amounts to actual loss, while in the case of many others it will lessen their value considerably, causing the plants to become insect-ridden, stunted or diseased, a frequent first cause of stock behaving poorly ever afterward. A great help to the grower who must carry on extensive propagating is bottom-heat, not only in the seedling and cutting benches, but also throughout the greater part of his other houses. Freshly potted-up plants, placed on bottom heat, quickly display the immediate benefits derived from this source of life-imparting energy, which also acts advantageously in modifying harmful atmospheric conditions, preventing excess of moisture and sudden fall in temperature.

After the plants have passed this critical period, and have begun to show sound, rapid growth, it is time to give them water, light and sunshine in unmeasured measure. The nearer to the glass the finer a growth most of the varieties will make, and some of the hardier sorts will want an abundance of air whenever the character of the weather sets no bar to ventilation. These of the commoner kinds, to be sold out of their first pots, may safely be allowed to root through into the layer of soil or ashes on which they stand. Fast-growing sorts will do that and lose nothing in their value for planting out thereby, but should not be lifted until sold or set out in the field. When planted in small pots arrive at this stage they will easily for the want of water, and it becomes then necessary to keep a close watch.

Most trying to the grower is the care of young stock intended for indoor culture, when this becomes firmly pot-

bound long enough before it can be bunched or planted out. It is then nearly impossible to keep it supplied with moisture to last until the next watering. The plants become hard, rough-skinned, stunted, disinclined to follow up any kind of stopping with a good break; the leaves show a yellowish cast, and the roots harden and dry back. The plants, before it comes to this, must be shifted into larger pots, or simply freed of their small pots and either placed closely together in the soil of a bench or put back in their old place, giving them a little more room and packing them all around up to the stems in soil, old manure, spent hops or sawdust. They will then do nicely until wanted for planting.

FRED. W. TIMME.

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Please notice the big reductions. *Cibotium* *Schradet*, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:

3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100; 5 in. " " 60.00 " 7 in. " " 1.70 each.

Large specimen, \$5.00 each. *Adiantum Regium*, a beautiful fern, also called the hardy *Parleyense*, 4 in. strong plants, \$25.00 per 100; *Adiantum Rhodophyllum*, 4 in., \$20.00. Assorted ferns for gardeners, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate.

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WHITMAN FERN

Large stock of strong plants, 2 1/2 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN

3 inch pots.....\$ 8.00

SCOTTII

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4 inch pots, made up, strong and bushy.....\$25.00
6 inch pots, made up, strong and bushy..... 50.00
No order for less than 10 plants accepted.

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ELEGANTISSIMA FERN RUNNERS

Very fine stock, \$1.50 per 100; \$12.00 per 1000. TARRYTOWN, Bench, 2 1/2 in., 4c.; 3 in., 10c.; 4 in., 15c.; Runners \$1.50 per 100.

ROOTED CUTTINGS, prepaid per 100, Paris Daisy, white, \$1.00; Alexandria, \$1.25. Fuchsia, 5 kinds, \$1.25. *Ageratum*, white, Gurney, Pauline, 60c. *Vinca Variegata*, 90c. *Salvia Bonfire*, Splendens, 90c. *Alternanthera*, 3 kinds 60c. *Heliotropes*, 3 kinds \$1.00. *Rex Begonias*, 20 kinds mixed \$1.25. Flowering *Begonias*, 8 kinds \$1.25. *Mumae*: *Transtor*, Alliance, Weeks, Enguehard, \$1.25. Cash or C. O. D.

BYER BROS., Chambersburg, Pa
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On all orders for FERNS received during the month of February, irrespective of size or variety. WE have one house of stock in 2 and 3 in. pots, which we wish to empty and use for bedding plants.

HOLLY FERNS, 2 in., fine, bushy plants, ready to shift into 3 in., 3c.
MIXED FERNS, 2 in., first class varieties, 3c.
ASPIDIUM TSUSSEMENSE, large bushy, 3 in., no better stock to be found 6c.
ASPARAGUS PLUMOSUS NANUS, strong stock, 3 in., pots, 6c.
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LETTUCE Grand Rapids, Big Boston, Boston Market and Tennis Ball, \$1.00 per 1000.

PARSLEY Moss Curled, \$1.25 per 1000.

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

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Allemania, Shenandoah, Austria, Henderson, Pennsylvania, Italia, Mlle. Berst, F. Wagoner, \$2.00 per 100; \$17.50 per 1000. West Virginia, Mrs. Kate Gray, \$3.00 per 100; \$25.00 per 1000. Rubbers, 4 in., \$3.00 per doz, 6 in. \$4.00 per doz. Asparagus Sprengerl, 3 in. \$4.00 per doz. *Ribicaria*, 2 in. \$2.50 per 100, in variety. Ferns, 2 in. Boston, \$3.00, 2 in. Scottii, \$3.00, 2 in. Tarrytown, \$5.00 per 100. Colours Cuttings, 80c. per 100, \$5.00 per 1000.

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75,000 Gladiolus Bulbs

to 1 1/2 inches \$2.00 per 1000; Larger sizes at proportionate prices, all very fine light mixtures, Lecomtes and Gandavensis. Cash with order.
I. & J. L. Leonard, Iona, N. J.
Mention The Florists' Exchange when writing.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties
Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

A. J. GUTTMAN,
The Wholesale Florist of New York.
43 WEST 23TH STREET.

JOHN E. HAINES,
BETHLEHEM, PA.

WELCOME

THE ROSE PINK SPORT OF LAWSON,
a favorite among storekeepers

\$12.00 per 100; \$100.00 per 1000 Well rooted cuttings, now ready.
Cash or satisfactory references with order.

DAILLEDOUZE BROTHERS,
FLATBUSH - - - - - BROOKLYN, N. Y.
Mention The Florists' Exchange when writing

ROOTED CARNATION CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
MRS. LAWSON	\$2 00	\$15 00	WHITE CLOUD	\$1 25	\$10 00
GUARDIAN ANGEL	1 50	10 00	FRED BURKI	2 50	20 00
ENCHANTRESS	2 50	20 00	HARLOWARDEN	2 00	15 00
LADY BOUNTIFUL	2 50	20 00	CHICAGO	1 50	12 50
LIEUT. PEARY	3 00	25 00	ESTELLE	2 00	15 00
BOSTON MARKET	1 50	11 00	RED SPORT (MACEO)	2 00	15 00

CHRYSANTHEMUMS

CLEMENTINE TOUSET (Early Chadwick), finest early white, \$2.50 per 100. R. C. ready now.
We have the largest stock in the country of this fine variety.

WIETOR BROS.

Wholesale Growers of Cut Flowers
51 Wabash Avenue, CHICAGO
Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

Ready for Delivery

	100	1000		100	1000
Enchantress	\$2.50	\$20.00	Victory	\$6.00	\$50.00
Lawson, pink	2.00	15.00	Cardinal	3.50	30.00
Ganevieve Lord	2.00	15.00	Lady Bountiful	3.00	25.00
Helen Goddard	5.00	45.00	Boston Market	2.00	15.00
Robert Craig	6.50	50.00	Queen	2.00	15.00

We can furnish cuttings of all the Standard Varieties
Send for Price List

THE LEO NIESSEN CO.

1217 Arch Street, Philadelphia

ROOTED CARNATION CUTTINGS READY NOW

Strong, Healthy and Thoroughly Rooted Cuttings of the following varieties:

	100	1000		100	1000
Victory (scarlet)	\$6.00	\$50.00	Lieut Peary (white)	\$3.50	\$30.00
Robt. Craig	6.00	50.00	Lady Bountiful	3.00	25.00
Red Sport	3.50	30.00	White Lawson	3.00	25.00
Enchantress (pink)	2.50	20.00	Boston Market	2.00	15.00
Lawson	2.00	15.00	Queen	2.00	15.00
Mrs. M. A. Patten var.	2.50	20.00	Queen Louise	2.00	12.50

Remember we guarantee satisfaction.
250 of any one variety at 1000 rate. Write for discount on large orders.

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

S. J. GODDARD

Framingham, Mass.

Rooted Carnation Cuttings a Specialty.

Correspondence Solicited.

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Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa.

GREEN CARNATION FLUID

Free Sample. Quart Cans, \$1.00.
Gratifying Results.

NATURAL GREEN COMPANY

819 Walnut St.,

KANSAS CITY, MO.

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

	Per 100	Per 1000
WHITE PERFECTION	\$3.00	\$30.00
LIGHT PINK LAWSON	6.00	50.00
GLENDALE	6.00	50.00
VICTORY	6.00	50.00
ROBERT CRAIG	6.00	50.00
CARDINAL	4.00	35.00
FIANCEE	3.50	30.00
LADY BOUNTIFUL	2.50	20.00
THE BELLE	2.50	20.00
WHITE LAWSON	2.50	20.00
ENCHANTRESS	2.50	20.00
NELSON FISHER	2.50	20.00
HARRY FENN	2.00	15.00
MRS. T. W. LAWSON	2.00	15.00
ESTELLE	2.00	15.00
BOSTON MARKET	1.50	12.00
WHITE CLOUD	1.00	8.00

500 at 1000 RATES.
ASPARAGUS Strong, ready for shift
ASPARAGUS SPRENGER 3 in. at \$4.00; 4 in. at \$6.00 per 100; 5 in. at \$20.00.
ASPARAGUS PLUMOSUS, 3 in. \$5.00; 4 in. \$8.00; 6 in. \$25.00 per 100.

W. J. & M. S. VESEY, Fort Wayne, Ind.
Mention the Florists' Exchange when writing.

LOOK HERE

ROOTED CARNATION CUTTINGS

250 at 1000 rate

LADY BOUNTIFUL, WHITE LAWSON, VARI-GATED LAWSON, \$3.00 per 100; \$25.00 per 1000.

MRS. PATTEN, ENCHANTRESS, \$2.50 per 100 \$20.00 per 1000.

BOSTON MARKET, FAIR MAID, QUEEN LOUISE, HARLOWARDEN, PROSPERITY, MRS. LAWSON, \$2.00 per 100; \$15.00 per 1000.

HELEN GODDARD, \$5.00 per 100.

WILSON MARSHALL, Red Seeding, \$5.00 per 100; \$45.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE, BRIDGEPORT, CONN.

CARNATIONS

	Per 100	Per 1000
Victory	\$5.00	\$40.00
Abundance	4.00	30.00
Enchantress	2.50	20.00
Queen	2.00	15.00
Getbe	12.00	12.00
Harlowarden	10.00	10.00
Prosperity	10.00	10.00
Cannas, X fine, with 2 and 3 eyes	1.00	10.00
Robusta	1.00	10.00
Eisale, Marlborough, Anstria, Christie, Queen Charlotte	1.50	15.00

KRAMER BROS., Farmingdale, L.I.

A. B. DAVIS & SON, Inc.

PURCELLVILLE, VA.

Place your orders now for Red Sport cuttings, the best red carnation grown. \$3.00 per 100; \$25.00 per 1000.

Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock
WINSOR and HELEN M. GOULD, \$12.00 per 100, \$100.00 per 1000.
ROBERT CRAIG, VICTORY, HELEN GODDARD, \$6.00 per 100, \$50.00 per 1000.
RED LAWSON and VARI-GATED LAWSON, \$4.00 per 100, \$30.00 per 1000.
ENCHANTRESS, LADY BOUNTIFUL, NELSON FISHER, and WHITE LAWSON, \$3.00 per 100, \$25.00 per 1000.
BOSTON MARKET, GENERAL MACEO, MRS. T. W. LAWSON, PINK ARMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

	Per 100	Per 1000
VERBENAS—Rest Mammoth, rooted cuttings	\$1.00	\$ 8.00
Ageratum, Cope's Pet. White Cap, P. Pauline and Stella Garney	1.00	8.00
Achyranthes, 4 sorts	1.00	8.00
Columb, best bedding and fancy sorts	1.00	8.00
Cuphea, Platycentra	1.25	10.00
Fuchsia, double and single varieties	2.00	15.00
Feverfew, The Gem	1.50	12.00
Geraniums, double and single	2.00	15.00
Heliotrope, light and dark	1.25	10.00
Ivy, German	1.25	10.00
Moon Vine, true white	2.00	15.00
Salvia, splendens, Fedman, etc.	1.25	10.00
Salvia, new early flowering sorts	1.50	12.00
Vinca, variegated and Elegans, 2 1/2 in. pots	1.00	8.00

ASPARAGUS

PLUMOSUS NANUS, 2 1/2 in. pots	4.00
" " 3 in. pots	8.00
" " 4 in. pots	10.00
SPRENGER, 2 1/2 in. pots	3.00
" " 3 in. pots	4.00
" " 4 in. pots	8.00

CANNAS

Strong dormant Roots in 30 fine varieties \$2.00 and \$3.00 per 100; \$18.00 and \$25.00 per 1000.

Grafted ROSES Own Roots

Orders booked for early delivery. KILLARNEY, RICHMOND, JOE HILL, KAISERIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, PERLE, SUNRISE, SUNSET, etc.

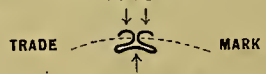
MANETTI STOCKS

\$1.25 per 100; \$10.00 per 1000.

Send for List.

WOOD BROS., FISHKILL, N. Y.

VISIBLE



INVISIBLE

SAVE YOUR SPLIT CARNATIONS

The Baur Clip and Plyer will do it in a businesslike manner at a minimum of time and expense. Save lots of money. Inexpensive. Instantaneously applied and Practically Invisible. The Clips are made of galvanized wire and are colored green just the color of the calyx and can hardly be detected. Thoroughly UP-TO-DATE in every particular.

Plyer \$3.00 1000; Clips \$1.00; postage prepaid. All the leading dealers in Florists' Supplies, or direct from

BAUR FLORAL CO., Erie, Pa.

Mention the Florists' Exchange when writing.

CARNATIONS

Strong, healthy, well rooted stock

	per 100	per 1000	from pots
White Perfection	\$6.00	\$50.00	\$6.50
White Lawson	3.00	25.00	3.50
Bountiful	3.00	25.00	3.50
Cardinal	2.50	22.50	3.00
Enchantress	2.00	22.50	3.00
Lawson	2.00	15.00	2.50
Harlowarden	2.00	15.00	2.50
Boston Market	1.50	12.50	2.00

Cash with Order. Satisfaction guaranteed.

SMITH & GANNETT

Geneva, New York
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS February and March Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices.

ALBERT M. HERR, LANCASTER, PA.
Mention the Florists' Exchange when writing.

BEACON CARNATION

(ORANGE-SCARLET)

ORIGINATED AT

ELLIS, MASS.

Has been tested four years and proved to be of
GREAT COMMERCIAL VALUE

Do you want
to keep the
"Blues" and
grow
Beacon?

You can't do
both

If you plant
Beacon
your help will
have to hustle
or put in extra
time picking
flowers

COMMENCING to bloom early in the Fall, it gives a profusion of flowers for Christmas (when scarlet is in demand at remunerative prices) and CONTINUES THROUGHOUT THE WINTER MONTHS. It may not score as high on the exhibition table as some, but WILL FIGURE UP ON THE RIGHT SIDE OF YOUR LEDGER in a manner highly satisfactory.

The blooms, under ordinary culture, average 2 1/4 to 3 inches in diameter, the guard petals are broad, well arranged, and of good substance, the center loosely arranged and not too full. Color, scarlet with a dash of orange, which lightens up the flower, especially during dull, dark weather, making it very brilliant and attractive. The stem is long, stiff and wiry. Calyx long and seldom bursts (less than four per cent. last winter). It propagates easily. The plant is a vigorous, healthy grower, of ideal habit, and a most profuse bloomer. A night temperature of 50 to 52 degrees suits it admirably.

A BENCH OF BEACON IN FULL BLOOM IS A SIGHT NOT EASILY FORGOTTEN

PRICES

Per 100.....	\$ 12.00, 50 at 100 rate	Per 5000.....	90.00 per 1000
" 1000.....	100.00, 250 at 1000 rate	" 10,000.....	80.00 "
" 2500.....	95.00 per 1000	In lots of 20,000 or more, cash with order...	75.00 "

WE ARE PREPARED TO MAKE PROMPT DELIVERY

THE COTTAGE GARDENS CO.
QUEENS, N. Y.

PETER FISHER
ELLIS, MASS.

Mention this paper

Mention the Florists' Exchange when writing.

22 FIRST PRIZES THIS SEASON

Is a record we are proud of and one that should WARRANT you to send US your order for rooted cuttings, as you are assured of clean, healthy stock; first class in every respect.

Per 100	Per 1000	Per 100	Per 1000
ARISTOCRAT, beautiful cerise..	\$12.00 \$100.00	WHITE PERFECTION.....	\$6.00 \$50.00
RED RIDING HOOD, scarlet...	12.00 100.00	We have the largest stock of this grand variety in the country.	
DAYBREAK, LAWSON or MELODY	6.00 50.00	LIEUTENANT PEARY.....	4.00 30.00
HELEN GODDARD.....	5.00 40.00	CARDINAL, scarlet.....	4.00 30.00
FIANCEE.....	4.00 30.00	RED LAWSON.....	4.00 30.00
WHITE LAWSON.....	3.00 25.00	VICTORY.....	6.00 50.00
LADY BOUNTIFUL.....	3.00 25.00	VARIEGATED LAWSON.....	3.00 25.00
		HARLOWARDEN.....	2.00 15.00

CHICAGO CARNATION CO. A. T. PYFER, Mgr. JOLIET, ILL.

ROOTED CUTTINGS

Per 100	Per 1000	Per 100	Per 1000
WHITE—Queen.....	\$1.60 \$12.60	Pink Fatten.....	\$4.00
Lady Bountiful.....	2.50 16.00	Helen Goddard.....	4.00
PINK—		RED—Red Lawson.....	2.00 \$15.00
Lawson.....	1.50 12.50	VARIEGATED—Mrs. Pettin.....	2.50 20.00

QUIDNICK GREENHOUSES J. H. CUSHING Prop., QUIDNICK, ANTHONY P. O., R. I.

Mention the Florists' Exchange when writing.

Save Your Pinks Before Splitting
Don't try to patch them up with wires that would do for the 19th, but not for the 20th Century.
A Perfect Flower guaranteed. \$1.75 per hundred, \$16.00 per thousand, 250 at thousand rates.
Sole for MAXFIELD & DIMOND, Manf. Pat. Sep. 13, 1905, Sample, P. O. Box 304A Warren, R. I.

White Enchantress

white sport of Enchantress, rooted cuttings \$2.00 per 100; \$100.00 per 1000.
E. SCHRADER, NEWSPRINGVILLE
Richmond Borough, N. Y.

Mention the Florists' Exchange when writing.

CARNATIONS

WELL ROOTED CUTTINGS, HEALTHY STOCK

Per 100	Per 1000	Per 100	Per 1000
PINK		WHITE—Cont.	
Lawson.....	\$1.50 \$10.00	Lady Bountiful.....	\$2.00 \$17.50
Nelson.....	1.50 10.00	White Lawson.....	3.00 25.00
LIGHT PINK		RED	
Enchantress.....	2.50 22.50	Robert Craig.....	6.00 50.00
WHITE		Cardinal.....	2.50 20.00
Boston Market.....	1.25 10.00	Estelle.....	2.00 17.50

ROSES Strong and Well Rooted Cuttings

Per 100	Per 1000	Per 100	Per 1000
Richmond.....	\$1.50 \$12.50	Uncle John.....	\$1.50 \$12.50
Liberty.....	2.00 17.50	Chatenay.....	1.50 12.50
Bridesmaid.....	1.50 12.50	Ivory.....	1.50 12.50
Bride.....	1.50 12.50	Perle.....	2.00 17.50
Sunrise.....	3.00 25.00		

Peter Reinberg

51 Wabash Ave., CHICAGO

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PLANT CULTURE PRICE \$.100

THE BEST BOOK FOR THE PLANT GROWER.
A. T. DE LA MARE PTG. & PUB. CO. LTD., 2-8 DUANE STREET, NEW YORK
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A. L. YOUNG & CO.

WHOLESALE FLORISTS

54 WEST 28th STREET, NEW YORK

Telephone: 3559 Madison Square
 CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

Mention The Florists' Exchange when writing.

REVIEW OF THE MARKET

NEW YORK.—The Lenten season commenced this week, and the flower business, so far as values are concerned, has taken a great drop. Tuesday, Lincoln's birthday anniversary, was a legal holiday, but flower stores, both wholesale and retail, kept open the whole day, though business did not amount to much owing to the extremely cold weather. On that morning the temperature was 4 degrees below zero in the city, with a high wind blowing, making it very unpleasant for those who had business taking them outdoors. Many flowers arrived in a frozen condition, probably more than has been the case before on any given day for a good many years. Shipments that had but a few miles to travel were, in some instances, frozen just as badly as shipments that came twenty or thirty miles away.

Roses are becoming more plentiful, and especially among the upper grades is the dropping of prices most noticeable. Most of the special grades of Bride and Bridesmaid in particular are being offered at 12c., though in some cases efforts to do a little better than this are made. American Beauty can be bought at 75c. each, which is a 25 per cent reduction from the prices obtainable a week ago, although it cannot be said that the supply of American Beauty roses is increasing to the same extent as that of roses of other varieties.

Carnations are getting more plentiful every day, and prices have diminished materially all around. Probably the greatest increase of any flowers in the market is noted among bulbous stock. Tulips, narcissus and lily of the valley are very plentiful and are offered in quantities at figures below those given in our regular quotations. For lily of the valley, which by the way has been selling fairly well for some time, there seems to be a demand whatsoever unless it is offered at bargain prices; it can easily be bought in quantities at \$1 per 100. Cattleyas are selling a little better than they were; but gardenias have become a little more plentiful and do not clear out so satisfactorily. Freesias are becoming more of a feature in the market; reaching the city daily, though for the latter the demand is not very brisk. Sweet peas have not yet become so plentiful for the time of the year as has been the rule in past seasons. Violets are selling at anywhere from 50c. to \$1 per 100; the general price for the ordinary run of good stock is about 75c.

So far as the general supplies of flowers go prices can safely be said to be anything but firm, and there is a general feeling toward cutting values all around. One thing that is firm, however, is Adiantum. Growers of this bring its regular price every day without change.

CHICAGO.—The rose stringency in the all pervading toxic when market conditions are under consideration, and it may be said that under the delightful cultural weather conditions which ushered in the past week with ten hours and twenty minutes of unalloyed sunshine and a moderate temperature on Sunday, one is tempted to figure how long such ideal conditions would have to continue before the rose bushes would resume their normal state with an average yield. It will require several weeks at least. A few growers are, however, fortunate enough to be cutting much heavier teas than are the general run, and though in ordinary years their present crop would not look particularly bright it is this year, by comparison, an event of decided importance.

The latter part of last week carnations showed a decided tendency toward easing up, and this week opened with an advance and steadily increasing supply; notwithstanding the holiday, the Mardi Gras, and St. Valentine's Day all coming in a bunch, the supply was so much increased that prices dropped perceptibly.

Bulbous stock is somewhat more plentiful, with a slight reduction in price, though cleaning up well at a profitable figure.

Violets, which had been in rather full supply, were entirely cleaned out of the market on Saturday and Sunday, and with the anticipated increased demand for the week prices for good double stock opened up Monday at \$1 per hundred. This price could hardly be expected to maintain beyond Valentine's Day.

Smilax is off crop with the large producers of this staple here and from \$2 per dozen up is the price, \$2.50 being a fair going for good material, some fancy going as high as \$3.

W. K. W.

PHILADELPHIA.—Flowers are more plentiful this week, except the first class grades of roses. A great many more of these could be used. American Beauty are up to Christmas prices, being at \$12 per dozen for the best stock, and there is not enough of them to fill all orders at these figures. Tea roses are still scarce; a few extra choice long-stemmed Richmond have sold at \$6 per dozen, and a few Bridesmaid at \$20 per 100. The general stock of teas is selling at \$12 to \$18 per 100.

Carnations are more plentiful and prices easier than last week. A few choice flowers of Enchantress and Beacon sell at \$8 per 100, but general stock is lower than last week, ranging from \$2 to \$5 per 100.

White lilac brings \$2 per bunch; myosotis \$2 to \$4 per 100. Bulbous stock is getting very plentiful. Daffodils are \$3 per 100, much lower by the 1000; double tulips, \$5 and \$6; singles, \$3 and \$4 per 100; Paper White narcissus, \$2 and \$3. Double violets are moving well at \$1.25 and \$1.50 per 100; large singles bring 75c. and \$1 per 100. Lily of the valley is selling well at \$3 to \$5 per 100. Carnations realize \$25 per 100, sales slow; lilies at \$2 to \$15 per 100 are in good demand. Cattleyas sell at \$6 per dozen.

DAVID RUST.

BOSTON.—The supply of all kinds of flowers is increasing daily, and although prices have held up until now a decided drop is daily expected. Roses, which have of late been very scarce, are becoming much more plentiful. There are not many long-stemmed American Beauty yet, but the prospects are for plenty in the near future. Bulbous stock is doing well, and prices have dropped from those of last week. There are splendid grades of carnations in the market. Violets are fine and plentiful. Lily of the valley is steady. Lilies are in sufficient supply for all demands.

J. W. D.

ST. LOUIS.—The weather the past week was cold and unpleasant which had a bad effect on the retail trade all over the city. The greenhouse men, too, had their troubles firing up. From reports of the downtown retailers, transient trade was dull, though funeral work helped out considerably during the cold spell. Decorations among the uptown florists were made under difficulties. The wholesalers also had to suffer a little with frozen shipments. The rose market is still very dull, hardly any good first-class stock is coming in. As this has been the case the last few weeks, a week of sunshine should bring on a glut in a little while.

Carnations are selling well at \$5 per 100, top price, but the bulk of the stock is going at \$3 per 100 in large lots. There are plenty of extra fine Mrs. T. W. Lawson, Enchantress, Nelson Fisher, Boston Market, but the trade buys these as roses are so scarce. Violets have also been scarce during this cold spell and are now up to 75c. for choice; these should be more plentiful with a few bright days. In bulbous stock, Paper White narcissus have been very scarce. Roman hyacinths, lily of the valley, callas and jonquils are in plenty at all times. Only a few good sweet peas are in the market. Greens, same as last quoted.

ST. PATRICK.

INDIANAPOLIS.—Bright, warm weather has caused generous quantities of flowers to be sent in from the growers. Counter trade has been exceedingly heavy, so prices have remained firm throughout. The outlook for St. Valentine's Day business is indeed promising, as flowers will be plentiful and numerous orders are being booked. Funeral work demands most of the retailer's attention, as there is not much decorating for social occasions. The heaviest receipts for the week were of bulbous stock, such as daffodils. Roman hyacinths, Paper White narcissus and lily of the valley, at \$2 to \$4 a hundred. Miniature hyacinths sell well at \$7 to \$8 a hundred. Customers seemingly appreciate the wide selection of flowers after a couple of months in which roses, carnations and violets dominated. White and purple lilies offer many opportunities in making flower pieces; it sells at \$25 per hundred. Violets are shipped in, at \$1 to \$1.50 a hundred. Sweet peas are now a staple article, at \$1 to \$1.50 a hundred; generally they retail at 50c. per bunch of twenty-five. Carnations are more plentiful, also of better quality; \$4 a hundred is the best price for them. A majority of the number one stock brings \$2.50 to \$3 a hundred; \$1.00 a dozen is the retail price.

Roses are of uniformly good quality. The best Bridesmaid and Bride bring \$10 a hundred. The demand for thirds at \$3 a hundred is heavier than that for the best. Richmond roses are certainly fine at \$8 to \$12 a hundred. American Beauty are improving, at \$5 to \$50 a hundred.

Numerous pot plants are now in prime condition for window decoration and some beautiful displays are seen. The Chinese have engaged a number of azaleas, their favorites, for the Celestial New Years.

CINCINNATI.—Never before since I have been in business have cut flowers, especially roses and carnations, been so scarce in this market; high prices prevail. It would seem from present indications that at Easter we should have a lot of good stock to offer. The retail end of the business here is not rushing, a few funerals stimulating the small demand. It may be well that business is quiet, as it is impossible to get good stock to fill orders.

E. G. G.

ST. PAUL.—Although we have had extremely cold weather the past week we have been favored with a great deal of sunshine; as a result the market is greatly relieved, and the cuts that are being made of roses and carnations about equal the call, with the possible exception of white roses which have been in very heavy demand on account of the large amount of funeral work. Bulb stock has helped out wonderfully during the spell of cloudy weather, which lasted from two to three weeks and up until a week ago. A large number of specimen blooms of Richmond and Golden Gate roses are at present offered by the large growers, and good figures are secured for them. \$2 and \$2.50 a dozen seem to be the prevailing figures; in some places \$3 and \$4 per dozen have been obtained, but only for the best stock. Good Bride and Bridesmaid are on the market, but it seems impossible to obtain more than \$1.50 per dozen for them. Home-grown carnations are not very good, and it happens that growers in this section, who have a large amount of glass and devote certain spaces to carnations, cannot produce results such as are obtained by exclusive carnation growers; in consequence the fancy blooms are shipped in and apparently command a much better figure than our stock grown here. Bulbous stock is in abundance, and if present conditions prevail with plenty of sunshine, it is quite apparent within the next week we can expect nothing short of a glut on the market. Tulips of all colors and varieties can be purchased at, in some instances, 2c. each; in fact are bought by the box at a small figure from dealers who have a large number and do not want to take them home again. Violets are now plentiful, and one of our largest growers is cutting some of the finest violets ever produced in this section.

PAUL.

CHANGES IN BUSINESS.

OMAHA, NEB.—John H. Bath and Mrs. Maude Quarstrom Bath, for several years associated with Donague, the florist, will open a flower and candy store in Boyd's theater building.

ONSETT, W. W., MASS.—G. W. Archer has purchased the dahlia growing business of B. W. Hathaway, the Main street florist at Brockton, and has combined it with his own dahlia business here.

COLORADO SPRINGS, COL.—The Knob Hill Floral Company has been formed by Thomas J. Armstrong and Henry P. Monaghan, who have filed with the county clerk their articles of partnership.

DAVENPORT, IA.—E. L. Pope of the Allison-Pope Company has sold out his interest in the flora company on Brady street to Mrs. Amelia Miller. Mrs. Miller will be in charge of the store. Mr. Pope has not yet decided what he will do.

BINGHAMTON, N. Y.—J. L. Terwilliger, for the past 34 years with Bartlett & Co., sash, door and blind manufacturers, and Harry H. Evans of the Haskins Seed Company, 144 Court street, have formed a partnership for the sale of cut flowers, palms, ferns, etc.

SAC CITY, IA.—The partnership heretofore existing between J. Wayne and B. C. Butler, in the firm name Wayne & Butler, nurserymen, has been dissolved. J. Wayne assuming the indebtedness of the firm, if any, collecting the accounts due the firm and continuing the business.

BROOKLYN, N. Y.—Henry Eisenbarth has purchased the florists' establishment at 513 Third avenue, which has been conducted for a long time by Charles Krombach, and will hereafter conduct it. He was for years foreman for Mr. Krombach, and has had long and extensive experience in the business.

Boston.

The Week's News.

There was a large attendance at Horticultural Hall on Saturday morning. The subject of the lecturer, J. W. Duncan, was "The Home Vegetable Garden." A lively discussion followed, proving that there is much interest shown in this subject.

The New England Cemetery Association held its annual meeting at the New American House on Monday, electing the following officers: President, G. F. Standley, of Beverly; vice-president, Jas. Warren, Jr., of Providence; secretary, William Allen of Mount Auburn.

At the meeting of the board of trustees of the Massachusetts Horticultural Society Walter C. Baylies was elected to the vacancy created by the death of George F. Fabyan.

Horticultural Hall already shows the effectiveness of the new superintendent. Many improvements have been made, the most important being the changes in the lecture hall whereby it is hoped the acoustic properties will be much better than they have ever before been.

Stephen Chase, of Nashua, N. H., exhibited in Welch Brothers' market this week a seedling carnation of merit having the appearance of a much improved form of Fair Maid.

J. H. Cox sailed for England last week where he will be the representative of the F. R. Pierson Company.

There is quite an agitation among growers in this locality against the proposed legislation to include steam boilers for heating purposes in greenhouses among those that shall be operated by licensed firemen. A petition to be presented to the legislative committee is at Welch Brothers, where those who wish may sign the same.

Besides the lecture by C. W. Ross at the Gardeners and Florists' Club on the 19th there will be quite a discussion on the proposed steam boiler legislation; a delegation will be present from the Boston Market Gardeners' Association, and no doubt some decisive action will be taken by the club.

The landscape gardening classes of the Gardeners and Florists' Club are now of interest to all the attendants who should not miss an evening. Those who did not attend the preliminary lessons will now find it to their advantage to be present.

J. W. DUNCAN.

Indianapolis.

News Notes.

More flowers were displayed at Tomlinson Hall this week than at any other time this Winter. Bulbous stock, particularly tulips and daffodil plants, are brought there in quantities. Wholesale and retail business was reported as very satisfactory.

W. W. Coles of Kokomo, Ind., and Irwin Bertermann appeared before the State Board of Agriculture, which held its annual session this week. Upon Mr. Coles' solicitation, the premium list was revised and about \$250 added.

Messrs. John Hartje and William Billingsley visited the F. Dorner & Sons Company and W. Rock establishments at Lafayette last week. The seedling carnations at the first named place always prove a great attraction for visitors.

The State Florists' Association held its monthly meeting Tuesday, February 5, at A. Weigand & Son's store. Those attending enjoyed a social time, but no business of importance was transacted.

Thomas Barker is to engage in the retail business here.

Visitors, Wm. Hagemann, New York; Thomas Knipe, Kokomo, Ind.

I. B.

NEW CASTLE, IND.—The South Park Floral Company will soon ask for bids for the construction of greenhouses to cover four acres.

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Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	60.00 to 75.00	Inf'r grades, all colors.....	1.50 to 2.00
	extra.....	35.00 to 40.00	White.....	2.00 to 3.00
	No. 1.....	15.00 to 20.00	Pink.....	2.00 to 3.00
	No. 2.....	8.00 to 12.00	Red.....	2.00 to 3.00
	No. 3.....	6.00 to 8.00	Yel. & Var.....	2.00 to 3.00
	Bride, Maid fancy-special.....	10.00 to 12.00	White.....	3.00 to 5.00
	extra.....	8.00 to 10.00	Pink.....	3.00 to 5.00
	No. 1.....	5.00 to 6.00	Red.....	3.00 to 5.00
	No. 2.....	3.00 to 4.00	Yel. & Var.....	3.00 to 5.00
	Golden Gate.....	4.00 to 15.00	NOVELTIES.....	5.00 to 8.00
	RICHMOND.....	4.00 to 20.00	GARDENIAS, per doz.....	2.00 to 4.00
	Mme. Abel Chatenay.....	4.00 to 15.00	LILAC, per bunch.....	.75 to 1.50
	ADLANTUM.....	.50 to 1.00	LILIES.....	12.00 to 15.00
	CROWEANUM.....	3.00 to 1.50	LILY OF THE VALLEY.....	1.00 to 2.00
	ASPARAGUS.....	25.00 to 50.00	MIGNONETTE.....	2.00 to 6.00
	Plumosus, bunches.....	8.00 to 15.00	NARCISSUS, Paper White.....	1.50 to 2.00
	Sprengeri, bunches.....	8.00 to 15.00	Yellow.....	1.50 to 2.50
	CAELIAS.....	16.00 to 15.00	ROMAN HYACINTHS.....	1.00 to 2.00
	CATLEYAS.....	40.00 to 50.00	SMILAX.....	5.00 to 15.00
	CYPRIPEDIUMS.....	12.00 to 15.00	TULIPS.....	1.00 to 3.00
	DAISIES.....	1.00 to 3.00	VIOLETS.....	.50 to 1.00

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Wholesale Prices of Cut Flowers—Per 100

Boston Feb. 11, 1907	Buffalo Feb. 11, 1907	Detroit Feb. 4, 1907	Cincinnati Feb. 11, 1907	Baltimore Feb. 4, 1907	NAMES AND VARIETIES	Milwaukee Feb. 11, 1907	Philadelphia Feb. 5, 1907	Pittsburg Feb. 11, 1907	St. Louis Feb. 13, 1907
to 100.00	to 80.00	to 100.00	to 100.00	to 100.00	A. BEAUTY, lacy-special	25.00 to 35.00	90.00 to 100.00	60.00 to 80.00	to 100.00
50.00 to 75.00	to 40.00	to 80.00	to 80.00	to 80.00	" extra	18.00 to 25.00	70.00 to 90.00	50.00 to 50.00	40.00 to 50.00
25.00 to 50.00	to 25.00	to 70.00	to 70.00	to 50.00	" No. 1	15.00 to 18.00	40.00 to 60.00	12.50 to 20.00	15.00 to 30.00
10.00 to 25.00	5.00 to 10.00	20.00 to 30.00	8.00 to 15.00	5.00 to 8.00	" Gula and ordinary	6.00 to 10.00	10.00 to 40.00	5.00 to 8.00	5.00 to 12.50
10.00 to 15.00	12.00 to 15.00	6.00 to 15.00	to 15.00	8.00 to 12.00	BRIDE, MAID, lacy-special	to 12.00	15.00 to 20.00	15.00 to 20.00	12.50 to 15.00
6.00 to 10.00	10.00 to 15.00	to 15.00	to 15.00	to 4.00	" extra	to 10.00	12.00 to 15.00	12.00 to 15.00	3.00 to 10.00
4.00 to 6.00	8.00 to 10.00	to 10.00	to 10.00	to 3.00	" No. 1	to 8.00	10.00 to 12.00	8.00 to 10.00	5.00 to 6.00
to 4.00	4.00 to 8.00	to 8.00	to 8.00	to 2.00	" No. 2	to 6.00	6.00 to 8.00	to 6.00	to 6.00
to 5.00	5.00 to 10.00	to 10.00	to 10.00	to 5.00	GOLDEN GATE	4.00 to 12.00	10.00 to 15.00	to 15.00	6.00 to 12.50
6.00 to 30.00	5.00 to 20.00	to 20.00	to 20.00	3.00 to 5.00	K. A. VICTORIA	4.00 to 12.00	to 30.00	to 30.00	to 12.50
to 5.00	5.00 to 8.00	to 8.00	to 8.00	3.00 to 6.00	LIBERTY	to 8.00	8.00 to 30.00	to 30.00	to 12.50
to 5.00	5.00 to 8.00	to 8.00	to 8.00	3.00 to 5.00	METEOR	to 8.00	to 30.00	to 30.00	to 12.50
to 1.50	to 2.00	to 60.00	to 60.00	2.00 to 4.00	PERLE	6.00 to 8.00	to 30.00	6.00 to 8.00	4.00 to 6.00
1.50 to 3.00	2.00 to 3.00	to 8.00	to 8.00	to 1.00	ORCHIDS—Cattleyas	to 50.00	50.00 to 60.00	to 15.00	to 15.00
1.50 to 3.00	2.00 to 3.00	3.00 to 8.00	3.00 to 4.00	1.00 to 1.25	Interior grades, all colors	to 2.00	1.50 to 2.50	to 2.00	2.00 to 2.50
1.50 to 3.00	2.00 to 3.00	to 3.00	3.00 to 4.00	1.50 to 2.00	Standard	to 2.00	3.00 to 6.00	3.00 to 4.00	2.00 to 2.50
1.50 to 3.00	2.00 to 3.00	to 3.00	3.00 to 4.00	1.50 to 2.00	White	to 2.00	2.00 to 4.00	to 3.00	2.00 to 2.50
3.00 to 4.00	3.00 to 5.00	to 5.00	4.00 to 5.00	2.50 to 3.00	Yellow and var.	to 2.00	3.00 to 6.00	to 3.00	2.00 to 2.50
3.00 to 4.00	4.00 to 5.00	to 5.00	4.00 to 6.00	2.50 to 3.00	White	3.00 to 5.00	5.00 to 6.00	4.00 to 6.00	3.00 to 4.00
3.00 to 4.00	4.00 to 5.00	to 5.00	4.00 to 6.00	2.50 to 3.00	Fancy	3.00 to 5.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
3.00 to 4.00	4.00 to 5.00	to 5.00	4.00 to 6.00	2.50 to 3.00	Varieties	3.00 to 5.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
5.00 to 6.00	to 5.00	to 5.00	4.00 to 6.00	2.50 to 3.00	White and var.	3.00 to 5.00	3.00 to 8.00	4.00 to 6.00	3.00 to 4.00
75 to 1.00	to 1.00	to 1.00	to 1.00	to 1.00	Novelties	to 1.00	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
to 50.00	to 25.00	25.00 to 60.00	to 60.00	25.00 to 50.00	ADIANTUM	20.00 to 30.00	50.00 to 75.00	to 25.00	25.00 to 50.00
to 12.50	10.00 to 12.50	to 16.00	to 15.00	6.00 to 10.00	ASPARAGUS, Plum. and Feu	20.00 to 30.00	35.00 to 50.00	20.00 to 30.00	25.00 to 50.00
to 2.00	to 3.00	3.00 to 5.00	to 4.00	4.00 to 25.00	Sprenger, bunches.	12.50 to 15.00	1.50 to 2.00	15.00 to 18.00	12.50 to 15.00
to 2.00	to 3.00	3.00 to 5.00	to 4.00	4.00 to 25.00	CALLAS	to 10.00	10.00 to 50.00	to 10.00	to 10.00
to 2.00	to 3.00	3.00 to 5.00	to 4.00	4.00 to 25.00	CHRYSANTHEMUMS	to 75	2.00 to 3.00	to 2.00	to 2.00
to 2.00	to 3.00	3.00 to 5.00	to 4.00	4.00 to 25.00	DAISIES	to 1.50	2.00 to 3.00	to 2.00	to 2.00
to 3.00	to 4.00	to 5.00	to 4.00	4.00 to 25.00	LILIES	to 3.00	3.00 to 5.00	to 2.00	to 2.00
to 3.00	to 4.00	to 5.00	to 4.00	4.00 to 25.00	LILY OF THE VALLEY	to 3.00	2.00 to 4.00	to 4.00	3.00 to 4.00
to 3.00	to 4.00	to 5.00	to 4.00	4.00 to 25.00	MIGNONETTE, ordinary	to 3.00	2.00 to 4.00	to 4.00	4.00 to 6.00
to 3.00	to 4.00	to 5.00	to 4.00	4.00 to 25.00	lacy	to 4.00	4.00 to 6.00	to 6.00	6.00 to 8.00
12.50 to 15.00	12.00 to 15.00	12.50 to 15.00	to 15.00	to 20.00	SMILAX	to 25.00	15.00 to 15.00	12.50 to 15.00	12.50 to 15.00
.35 to .50	.75 to 1.00	1.00 to 2.50	to 1.00	to .50	VIOLETS, ordinary	to .75	.50 to .60	.75 to 1.00	.40 to .50
to .75	1.00 to 1.25	to 1.50	to 1.50	to .60	lacy	to 1.00	.60 to 1.00	to 1.25	.60 to .75
to .15	1.25 to 1.50	to 1.50	to 1.50	to .15	GALAX LEAVES	to 1.00	to 1.00	to 1.00	to 1.00

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Baltimore, Md.

Trade conditions are highly satisfactory in this locality. The Florists' Exchange disposes of everything in the cut flower line.

An important meeting of the Gardeners' Club was held Monday, February 11. Professor T. B. Symons of the Maryland Agricultural College addressed the club on the Jamestown Exposition, admonishing its members to make the Maryland horticultural exhibit, of which the professor has charge, a success. It is expected that a continuous floral, fruit and vegetable exhibit will be maintained during the entire exposition season. The club has decided to make the Jamestown display a matter of special business at the first March meeting.

On February 25 the Gardeners' Club will hold its annual banquet; an entertainment with dancing and musical selections will be part of the program.

The Maryland Agricultural College has figured out the average amount of glass devoted to the commercial florists' business in the State of Maryland, the amount being 1,154,000 square feet.

There are over one million bedding plants in the various propagating houses of the four park districts, and the quality and condition of the plants at this time are most exceptional, the crotons, alternantheras, and geraniums being very good. C. L. S.

NORA SPRINGS, IA.—Edwin R. Heiss, a horticulturist of state-wide reputation and a resident of this city fifty years, died January 30, of an apoplectic attack. He was over 80 years of age, and leaves two daughters.

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Bountiful. Per 100 \$2.75, per 1000 \$25.00.
Enchantress. Per 100 \$2.00, per 1000 \$18.00.
 Book orders now. Quality guaranteed. If you don't like them we pay express both ways.
 Catalogue Free.

Nelson Fisher. Per 100 \$2.25, per 1000 \$20.00.
Mrs. T. W. Lawson. Per 100 \$1.75, per 1000 \$15.00.
Boston Market. Per 100 \$1.35, per 1000 \$12.00.

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PANCY VALLEY, ROSES, CARNATIONS,
 and all CUT FLOWERS and GREENS
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Chicago.

News of the Week.
 Miss Frieda Schiller and Rev. John Scheuber were married on Wednesday evening of last week at the residence of the bride's mother, Mrs. Louise M. Schiller. Miss Schiller was formerly the successful manager of the concert's Jackson boulevard retail store.

The Foley Manufacturing Company has just finished up a neat order of hotbed material for melon growing consisting of nearly three hundred twelve foot frames, four sash to the frame, making upward of eleven hundred sash in all. Each frame is supplied with iron corner braces, bolted to end and side. They are made of cypress, with a twelve inch drop, the back and front being twenty and eight inches respectively.

"No twelve cent lilies for Easter this year," is the announcement of one of our largest producers of that plant, adding that not one half of his Easter crop will be on time. This statement has a sort of perennial sound, but it is probably better backed by conditions this year than is usually the case, as Easter is early, the bulbs arrived late in many cases and the weather has been unfavorable for their growth.

George Asmus had a cold when he went to Toronto where well developed symptoms of the grip appeared, and the insidious disease has been his constant companion ever since.

Mrs. Tyra Knutson, seventy-five years of age, mother of the West Huron street florist, Mrs. E. Palmin, died of pneumonia Tuesday morning of last week and was buried on Sunday.

John Pierson has opened a retail store at the corner of Forty-third street and Oakenwald avenue.

Mrs. Frances Spickerman of Sandwich, Ill., accompanied by her two sons, was among our recent visitors.

The general transformation in the Atlas Building has seemed to work advantageously to all parties concerned. The Benthey-Coatsworth Company is in possession of a much lighter, pleasanter, and healthier salesroom; and the Poehlmann Brothers Company's facilities are greatly enhanced by the acquisition of much needed additional space; while Weiland & Risch, who have for some time found their space inadequate, will be benefited to the extent of a goodly section of the old hallway which will be a great aid in giving them ample storage room for boxes.

The decision of the courts as to the legality of the tax imposed on abutters for the space utilized under the sidewalks, streets, and alleys, and which it is expected will be rendered this Spring, is awaited anxiously by the trade, as it will considerably affect rentals of at least eight wholesalers and an indefinite number of retailers.

The E. F. Winterston Company is pleased to note that its fancy ferns are averaging much better than they were a few weeks ago. Wild smilax, of which the firm has a fine lot in cold storage, is also coming out in excellent condition.

The employees of Charles A. Samuelson, 2129 Michigan avenue, are making arrangements for a ball to be given at the Unity Club House, 3140 Indiana avenue, on April 6, being the first Saturday after Easter. The affair is in charge of the following committee: Edward S. Enders, Edward J. Eisner, Charles H. Fallstrom, Edward R. Chappell.

C. W. McKellar is handling a choice lot of cyclamen plants in various sizes.

Vaughan & Sperry and Sinner Brothers have both made decided improvements in their respective sections in the Flower Growers Market by the partitioning off of a goodly part of their space for office purposes.

The new delivery wagon for Schiller the Florist made its appearance on Saturday and is certainly up-to-date.

Wietor Brothers report their rose conditions as easing perceptibly, and that at present they are making a satisfactory cut of Bride, Bridesmaid and American Beauty, the latter variety also setting a fine crop of buds.

Henry Vent of the J. A. Budlong

Be your own Commission Man
THE FLOWER GROWERS' MARKET
 furnishes the facilities
 See PERCY JONES, Mgr.
60 Wabash Ave., CHICAGO.

THE BUSIEST HOUSE IN CHICAGO
J. B. DEAMUD CO.
 Wholesale Cut Flowers
51 Wabash Av., CHICAGO
 Consignments Solicited

WIETOR BROS.
 Wholesale Growers of
CUT FLOWERS
 All telegraph and telephone orders given prompt attention.
51 Wabash Ave., CHICAGO

E. G. HILL CO.
 Wholesale Florists
RICHMOND, INDIANA
 Mention the Florists' Exchange when writing.

Chicago Rose Co.
 Rose Growers and Commission Handlers of Cut Flowers
FLORISTS' SUPPLIES
 Wire Work our Specialty.
 56-58 Wabash Avenue, CHICAGO.

Zech & Mann
 Wholesale Growers and Shippers of
CUT FLOWERS
51 Wabash Ave., CHICAGO.
 Room 218. L D Phone 324 Central.
 Mention the Florists' Exchange when writing.

All Leading Varieties of
PETER REINBERG
 Wholesale Cut Flowers
51 Wabash Ave., CHICAGO, ILL.
 Headquarters for American Beauty Rose
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SINNER BROS.
 WHOLESALE CUT FLOWERS
60 Wabash Ave., Chicago.
 Careful attention to all
SHIPPING ORDERS.
 Mention the Florists' Exchange when writing.

ST. PAUL, MINN.
 Send us your Orders for delivery in the Northwest, which will have our best attention.
L. L. MAY & CO.,
 Florists, St. Paul, Minn.

Mention the Florists' Exchange when writing.

GEO. REINBERG
 Wholesale Grower of **Cut Flowers**
CHOICE AMERICAN BEAUTY ROSES
 We will take care of your orders at reasonable prices. Prompt Attention.
35 Randolph Street, CHICAGO, ILL.
 Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers, Chicago, Feb. 12th, 1907

Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty			
36-inch stems.....per doz.	6.00 to 8.00	White.....	2.00 to 3.00
30-inch stems.....	4.00 to 5.00	STANDARD Pink.....	2.00 to 3.00
24-inch stems.....	3.00 to 4.00	VARIETIES Red.....	2.00 to 3.00
20-inch stems.....	2.00 to 3.00	FANCY Yellow & var....	2.00 to 3.00
18-inch stems.....	1.50 to 2.00	White.....	3.00 to 5.00
12-inch stems.....	1.00 to 1.50	(The highest grade) Pink.....	3.00 to 5.00
8-inch stems and shorts "	to .75	of S&S'd var.) Yellow & var....	3.00 to 5.00
Bride Maid, fancy specials.....	10.00 to 15.00	NOVELTIES.....	5.00 to 6.00
" No. 1.....	8.00 to 10.00	ADIANTUM.....	.75 to 1.00
" No. 2.....	4.00 to 5.00	ASPARAGUS Plum & Tan.....	.35 to .50
Golden Gate.....	0.00 to 15.00	" Sprangert, bunches.....	.35 to .50
Uncle John.....	5.00 to 15.00	LILIES Longiflorum.....	..... to 20.00
Liberty.....	6.00 to 20.00	HARRIS.....	..... to 20.00
Richmond.....	6.00 to 20.00	Orchids—Ostleays.....	..... to 50.00
Killarney.....	3.00 to 12.00	SMILAX.....	2.00 to 20.00
Paris.....	15.00 to 25.00	LILY OF THE VALLEY.....	2.00 to 5.00
Perla.....	5.00 to 10.00	VIOLETS.....	.50 to .75
Obatenay.....	5.00 to 12.00	" singles.....	.50 to .75
Callas.....	16.00 to 20.00	HARDY FERNS per 1000.....	2.00 to 3.00
HYACINTHS, Roman.....	2.00 to 4.00	GALAX.....	1.00 to 1.25
Narc. Single Yellow.....	3.00 to 4.00	NARCISSUS, Paper White.....	2.00 to 4.00
Tulips, White.....	2.00 to 4.00	JONQUILS.....	3.00 to 5.00
" Yellow.....	3.00 to 5.00	FREERIA.....	2.00 to 4.00
Mignonette.....	2.00 to 6.00	SWEET PEAS.....	1.00 to 1.50

J. A. BUDLONG
 37-39 Randolph Street, CHICAGO.
 Wholesale CUT FLOWERS
 Roses and Carnations
 A Specialty....

A. L. RANDALL CO.
 Western Headquarters for
 Up-to-Date Florists' Supplies
 Write for Catalogue
No. 19 RANDOLPH ST., - CHICAGO.

HOLTON & HUNKEL CO.
 WHOLESALE FLORISTS
 and FLORISTS' SUPPLIES
 Manufacturers of WIRE DESIGNS
457 Milwaukee St., MILWAUKEE, WIS.
 Phone, Main 874. P. O. Box 108

WHOLESALE CUT FLOWERS
 and FLORISTS' SUPPLIES
C. C. Pollworth Co.
MILWAUKEE, WIS.

WEST GROVE, PA.—At a meeting of the directors of the Conard & Jones Company, held after Mr. Conard's death, the company was re-organized by electing to the board of directors Mark Hughes of West Grove who was for many years associated with the Dingee & Conard Company. The board of directors also elected the four following officers: Robert Pyle, president; Antoine Wintzer, vice-president; S. Morris Jones, treasurer; and Roland T. Satterthwait, secretary.

BUFFALO.—The many friends of William Scott will be glad to learn that he is convalescing nicely, and the past two or three days has been able to get out to the greenhouses for a few moments. He has not yet regained the use of his right arm, a fact which he laments more than anything else, as he is unable to do any writing. All hope for Mr. Scott's speedy and complete recovery.

AUGUSTA, GA.—Owing to sickness in his family, President Robert C. Berckmans of the Society of Southern Florists was unable to be present at its annual meeting in New Orleans, La., this week.

ADVERTISING IN THE FLORISTS' EXCHANGE
 - - - IS SURE TO BRING RESULTS - - -

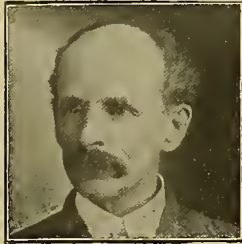
SOUTHERN WILD SMILAX

Now ready in any quantity

Book orders now for future delivery. Beaven's Fadeless Sheet Moss, \$3.50 per bag, delivered. Send for samples. Also Fancy Holly for Xmas trade. Satisfaction guaranteed. Write for prices.

E. A. BEAVEN
EVERGREEN, ALA.

Mention The Florists' Exchange when writing.



CALDWELL THE WOODSMAN
Introducer of the Wild Smilax

Wild Smilax \$2.50 Per Case

The only place where you can **always** get it. Long Needle Pines, \$1.00 per doz.; Palm Crowns, \$2.50 per doz.; extra nice long stemmed Palmetto leaves, \$2.50 per 100; Magnolia, \$2.50 16 cubic ft. cases. Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000

SPEED A SPECIALTY

Write for Catalogue

CALDWELL THE WOODSMAN DECORATING CO., Evergreen, Ala.

Mention The Florists' Exchange when writing.

Southern Smilax

If you want SMILAX, and you want to get it when you want it, send your orders to **JAS. TOMLINSON - Newton, Ala**

Mention the Florists' Exchange when writing.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, BERLIN, N. Y.

Samples free. For sale by dealers.

Mention the Florists' Exchange when writing.

Fancy or Dagger Ferns



\$1.25 per 1000

Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.

Boxwood, No. 1 Stock, 50 lb. cases, \$3.50

Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality

Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted

Southern Smilax, fancy stock, 50 lb. cases \$5.50

Laurel Branches, 85c. per bundle

Telegraph Office: New Salem, Mass.

Long distance telephone connections

GROWL FERN CO., MILLINGTON, MASS.

Mention the Florists' Exchange when writing.

HEADQUARTERS FOR HARDY CUT GREENS AND FLORIST'S SUPPLIES



Fancy & Dagger Ferns. Fine Quality \$1.50 per 1000.

New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.

Southern Wild Smilax \$3.50 and \$7.00 per case.

Laurel Festooning, good

and full, 5c. and 6c. per yard.

Branch Laurel, 50c. per bundle.

Leucothoe Sprays, \$1.00 per 100.

Sphagnum Moss, 50c. per bag; five bags \$2.00.

Green Moss, \$1.00 per bbl.



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes ut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.

15 Province St.—9 Chapman Pl.
BOSTON, MASS.

TEL. MAIN 2617-2618

Mention the Florists' Exchange when writing.

EXTRA FINE FANCY AND DAGGER FERNS

\$1.75 per 1000. Discount on large orders. Leucothoe Sprays' \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$9.50.

MICHIGAN CUT FLOWER EXCHANGE

WILLIAM DILGER, Manager.

Let us have your standing order for Ferns; we will make Price right all through the season.

38 & 40 Broadway. Formerly MIAMI AVE. DETROIT, MICH.

Send for our weekly price list on Cut Flowers.

Mention The Florists' Exchange when writing.

REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of **FLORIST'S SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

THE BEST WAY

to collect an account is to place it with the **National Florists' Board of Trade**
56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.
Mention the Florists' Exchange when writing.



"THE KING OVER ALL"

APHICIDE

NICOTINE PAPER

Costs less per effectual fumigation than any other made. If it does not we will refund your money. We sell direct to the grower. The jobbers' 33 1/3 per cent. profit we put in the quality of the paper.

Trial Boxes for house 10x20, 25 cents postpaid.
Boxes 24 sheets 65 cents post paid.
Boxes 144 sheets \$3.50, Boxes 288 sheets \$6.50.
Express prepaid to all points East of Mississippi River.

THE H. A. STOOHOFF CO., 116 WEST ST., NEW YORK,
Sole Sellers and Makers.

Mention the Florists' Exchange when writing.

BRILLIANT Galax and Leucothoe SPRAYS

Wholesale Trade Solicited
J. L. BANNER & CO., Montezuma, N. C.
Mention the Florists' Exchange when writing.

staff is about to remove to De Kalb, Ill., the former home of Mrs. Vent, where he intends to grow asters, sweet peas, etc., for market, with the expectation also of shortly entering the retail field.

Scheider & Schloss, among the younger concerns competing for a share of the Chicago business in carnations, report a satisfactory season thus far and a good opening in the rotted cutting department. With something less than 50,000 square feet of glass their daily shipments to the market appear very heavy.

A. L. Barnett, representing Reed & Keller, New York, was calling on his Chicago friends a few days ago. J. A. Budlong shipped heavily last week to Southern points, especially New Orleans, where the Mardi Gras festival is being celebrated this week, and were fortunate in having on a good crop of both roses and carnations. This concern has adopted a new feature owing to a constantly increasing business in Southern greens and buys direct from the original shippers rather than depend on consignees in this market.

The grip has finally broken into the florists' ranks and W. E. Lynch, Alex. Newett, George R. Scott, and others have been more or less seriously affected.

The J. B. Deamud Company has been working overtime of late with a full line of staple goods; among specialties noted there a few days since was a consignment of handsome amaryllis.

Elitch Long of Denver, Colorado,

accompanied by Mrs. Long, has been visiting Chicago.

At Vaughan's Seed Store Spring trade is beginning to open up, and C. W. Scott, who has just returned from a trip on the road, reports a very satisfactory business.

P. J. Hauswirth transformed the Egyptian room of the Auditorium into a palm garden on Saturday evening last, the occasion being the final banquet of the Merchants Club which has now been merged with the Commercial Club.

Swainsona is appearing in small quantities.

Zech & Mann are especially strong on bulbous stock at present, some of their yellow tulips being especially noticeable.

A. L. Randall Company continues to have a run on white lilac, many orders for which the firm has been unable to fill of late. An immediate increased supply, however, is in sight.

Owing to the exorbitant prices of some of the necessary construction material, N. C. Moore & Company have decided to postpone the erection of additional greenhouses this season as was planned.

Lincoln's Birthday, the opening of Mardi Gras, and St. Valentine's Day coming on three successive days, something which, on the authority of C. L. Washburn, we may state will not occur again for ninety-eight years, made a decided strain on a short market in some lines. To further quote Mr. Washburn "Business is booming; you might say a second Christmas."

The financial difficulties of Michael Winandy, bankrupt, are being straightened out by Trustees Day, Ickes, and P. Reinberg, who on Wednesday of last week accepted, subject to confirmation of the court, a bid of \$4,500 for the bankrupt's property. The liabilities amount to more than \$75,000 upward of \$30,000 being secured by mortgage on the property. WILLIAM K. WOOD.

New York.

The Week's News.

A meeting of the directors of the American Rose Society was held in the store of Traendly & Schenck on Monday evening.

The sympathy of the craft will go out to Wm. Hackland, the well-known book-keeper for the New York Cut Flower Company, who lost his mother by death recently, the interment taking place on Monday last.

The five-year-old son of John Scott, Flatbush, N. Y., is, we are sorry to say, very ill with an attack of pneumonia.

One of the most important events in the floral circles of this city that has occurred in some time was the marriage of Charles Schenck of the well-known firm of Traendly & Schenck, doing business at 44 West Twenty-eighth street, to Miss R. Pachner. The ceremony took place on Tuesday evening in Tuxedo Hall, Fifty-ninth street and Madison avenue. The decorations were of a most elaborate character, and were executed by Herman Warrendorf. The marriage ceremony was attended by a large host of friends of both the bride and bridegroom. The happy pair left for Washington, D. C., to spend their honeymoon.

John Coan of the plant department of Bloomingdale Brothers will start in business for himself as a retail florist on March 1, at the corner of Fifty-ninth street and Madison avenue.

At the funeral of a colored gentleman in Brooklyn recently, while white flowers were rather scarce and expensive, the bereaved friends decided on a large wreath of galax leaves and yellow tulips. The piece, when finished, was much admired by those who had selected the colors, and gave general satisfaction.

At the annual dinner of the New York Florists' Club, which is to be held on Saturday evening, the 23rd inst., an effort is making to secure some well-known after-dinner speaker to entertain us. Patrick O'Mara will be toastmaster, and it goes without saying that the office will be filled to the delight and entertainment of all who attend the dinner. A prominent musician has charge of the musical part and we are assured of a very high-class program of music, both vocal and instrumental; also some good monologue work. Those who intend being present should at once send their names with the necessary five dollars, to W. F. Sheridan, 39 West Twenty-eighth street, chairman of the committee.

A petition in bankruptcy has been filed against George Vaselos, confectioner and florist, of 3201 Third avenue, by Nicholas Kontakas, a creditor for \$700, money loaned. It was alleged that Vaselos is insolvent, and on January 17 transferred his stock and fixtures to his brother Christos.

Sealed bids for furnishing flower pots, fern pans, etc., for the Forest and Prospect Park greenhouses, and for furnishing grass seed for Prospect Park, will be received by the Park Board at the office of the Department of Parks, Arsenal Building, Fifth avenue and Sixty-fourth street, New York City, until 3 o'clock, p. m., on Thursday, February 21.

A grower at South Orange, N. J., informs us that he has had very unsatisfactory dealings with the United States Express Company of late. In one instance he shipped a box of flowers from his place at South Orange, addressed to a wholesale florist in Twenty-eighth street, New York, and after two days the box was returned to him, the express company never having delivered it to the consignee. A complaint was made at the main office of the express company on Broadway, but as yet nothing has been heard from them in any way. Another case that this same grower had was one where he shipped a box of flowers to Rochester, N. Y., by the same company, which was delivered six days later. Of course, the contents of the box being perishable were spoiled entirely, and the grower had to sustain the loss. It would seem reasonable to expect that the express company would do something in both of these

POT MAKERS FOR 140 YEARS
A. H. HEWES & Co. Inc.
 CAMBRIDGE, MASS.
 FLOWERS ARE ALWAYS OF THE KIND



The Whilldin Pottery Co.
STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
 Our Stock is always Large and Complete



Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
 WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
 Mention the Florists' Exchange when writing.

cases, but whether they will or not remains to be seen.

Charles Hammond, 96 Post Road, White Plains, N. Y., has some excellent property for sale, which is well adapted for greenhouse purposes; parties who intend entering the growing business would no doubt do well to call on Mr. Hammond.

Bloomingdale Brothers have just signed a contract for the building of an addition of 2,000 feet of glass to their greenhouses on the roof of their store at Fifty-ninth street and Third avenue. When this is completed that firm will have a total of 30,000 square feet of glass situated on the roof—quite an establishment in itself.

F. N. Sanborn, representing A. T. Stearns Lumber Company, Boston, Mass., was a caller at this office on Saturday last.

Philadelphia.

Trade Notes.

There appears to be very good business going on this week; all the stores are more active, and many orders for St. Valentine's Day are coming in.

Much sympathy is expressed for Adolph Farenwald, the rose grower, at Hillside, Pa. His two new trussed houses, each 35 by 300 feet, collapsed entirely with the weight of snow last week. The houses were filled with American Beauty and Richmond roses. This accident has set prospective builders to thinking as to whether the trussed house is desirable. The snow-fall recorded was 12 inches; the snow was very light, consequently drifted badly in some sections. We have not learned the exact depth of snow that was on these houses.

H. T. Dumont has sold out his wholesale commission business at 1305 Filbert street to Berger Brothers, who are making alterations and will move in there in a few weeks. Berger Brothers are now at the old Flower Market stand and their leaving there will practically wind up this place, although the lease runs to July 1 and there are a few stall-renters yet there. Berger Brothers took care of the surplus stock of the stall men, so now another arrangement must be made.

H. T. Dumont has taken a position with Martin & Company who run the abattoirs in West Philadelphia; he has full charge of the fertilizer department.

The steamer Menominee, in collision in the English Channel on Sunday, has on board 140 cases of goods for Bayersdorfer & Company.

The Leo. Niessen Company has moved into its new building on Arch street, some four doors below the old store. The firm has now a good building, constructed of reinforced concrete, with concrete floors. It will occupy the first and second floors and basement. The first floor is taken up entirely with cut flowers; on the second are the offices. A cold storage system has been installed with a machine of latest pattern. There is a large storage room on the first floor, and a smaller one in the basement. The concern has also all the latest improvements in telephone

....Send for Particulars....
 REGARDING

Tobakine Products

"THEY KILL BUGS"

"Flowers and Profits"

is a profitable and interesting booklet.
E. H. HUNT, General Agent
 76-78 Wabash Avenue, Chicago, Ill.

IDEAL PLANT FOOD

Put up in lot^s of 60 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
 194 BOYLSTON ST., BOSTON, MASS.

service, and is much better equipped and has greatly increased facilities for the handling and selling of cut flowers.
 DAVID RUST.

Washington, D. C.

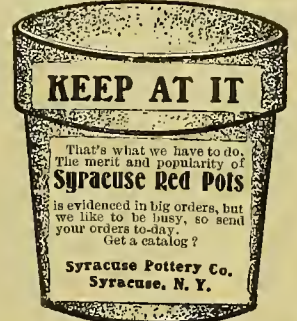
The Florists' Club met in Gude's Hall on Tuesday evening, February 5. Several new varieties of carnations were on exhibition, among them Winsor and White Enchantress from F. R. Pierson Company, Tarrytown, N. Y., and Toreador and Mabelle, from H. Weber & Sons Company, Oakland, Md. Toreador was scored 90 points by the committee.

The club's officers were nominated for the ensuing year, to be balloted for at the March meeting. They were: President, Peter Bisset; vice-president, Z. D. Blackstone; secretary, Charles McCanley; treasurer, William F. Gude; directors, Charles Henlock, George Shaffer, F. H. Kramer and W. I. Clarke.

A good part of the meeting was taken up with preparations for the annual meeting of the American Rose Society, which will be held in this city March 13, 14 and 15, in the armory of the Washington Light Infantry. A feature of the three days' meeting will be a banquet to the visitors, which will probably be held at the Arlington Hotel on March 15.

Much interest is being displayed by the school children of the District in the fate of the appropriation for school gardening work, in which the little ones have become adepts. The Commissioners included in their estimates for schools \$1,000 to carry on this important branch of school work. The House struck the item from the bill, but the friends of the work hope that it will be replaced by the Senate.

The appropriation, if allowed by Congress, will be used to employ additional teachers to establish not less than five gardens of the kind conducted in South Washington in other sections of the city, and to purchase fertilizer, labor, tools, and other necessities of the work.



Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500 2 in. pots in crate, \$4.33	120 7 in. pots in crate, \$4.20		
1600 2 1/4 " " " " 6.25	60 8 " " " " 5.00		
1600 2 1/2 " " " " 6.00		HAND MADE	
1000 3 " " " " 6.30	48 9 in. pots in crate, \$3.80		
800 3 1/2 " " " " 4.80	48 10 " " " " 4.80		
500 4 " " " " 4.50	24 11 " " " " 8.60		
320 6 " " " " 4.51	24 12 " " " " 4.80		
144 8 " " " " 3.16	12 14 " " " " 4.80		
	6 16 " " " " 4.50		

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
 August Rolker & Sons, Agts., 81 Barclay St., N. Y. City



THE BEST
Bug Killer and
Bloom Saver

For PROOF
 Write to

P. R. PALETHORPE CO.
 LOUISVILLE, KY.

Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

GEORGE RIPPERGER,
LONG ISLAND CITY N. Y.

Sheep Manure

Pulverized. Free from all Adulteration.
 In Bag, \$18.00 per Ton.

ROBERT SIMPSON
 Clifton, N. J.

Mention the Florists' Exchange when writing.

PLANT CULTURE

PRICE \$1.00

A. T. DE LA MARE PTG. & PUB. CO.,
 2 Duane Street, New York



SUDDEN CHANGES

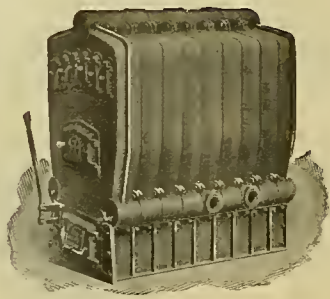
are severe tests on a boiler. A change of, say, 10 or 15 degrees colder in an hour—a change that your boiler must meet promptly and without endless shaking and poking—without an extravagant coal consumption—the Hitching Boilers are made that way—the right way for greenhouse boilers.

Hitchings & Company

Greenhouse Designers and Builders

Manufacturers of Heating and Ventilating Apparatus

1170 BROADWAY : NEW YORK



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Are You Contemplating Building?

IF so, now is the time to take up this important question. IT is only to your own interests to let me figure on your requirements.

YOUR work will be designed and erected by practical mechanics.

YOU will be satisfied in figures as well as results. YOU can have testimonials of hundreds of satisfied patrons, in all parts of the country, by writing us.

WILLIAM H. LUTTON

West Side Ave. Station, JERSEY CITY, N. J.

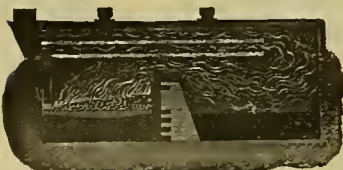
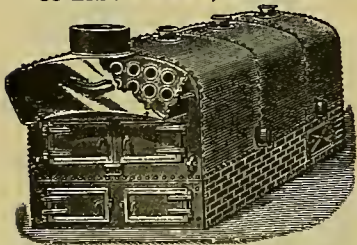
Tel. 412 R. Bergen. EVERYTHING FOR HEATING AND VENTILATING

KROESCHELL BROS. CO.

IMPROVED

Greenhouse Boiler

33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information.

FRANK VAN ASSCHE

Formerly Supt. for Weathered

GREENHOUSE BUILDER

Private or Commercial. Iron or Wood.

Factory and Yards: Fulton and Rose Ave. and Dwight St., Jersey City, N. J.



The STANDARD VENTILATING MACHINERY

The original machine with self-closing cups; the most powerful, least complicated very compact, with ease of operation.

The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market.

The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.

GREENHOUSE GLASS

10x12 10x14 10x16 10x18 12x12 12x14 12x16 12x18 14x16 14x18 14x20 14x24 16x18 16x20 16x24

C. S. WEBER & Co., 10 Desbrosses St., New York

For Greenhouses, Graperies, Hot beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.

GLASS

N. COWEN'S SON, 14 & 16 Wooster Street, NEW YORK

THE AMERICAN CARNATION

Price \$3.50. Send for Sample Pages

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Detroit, Mich.

Carnation Night at the Club.

An ideal carnation display was staged at the Florists' Club parlors for the benefit of members only. The exhibit was not too large to be ponderous nor too small to miss attention, thanks to the establishments kindly contributing toward its success. F. R. Pierson Company, Tarrytown, N. Y., made a very liberal display of Winsor and White Enchantress. The Chicago Carnation Company, Joliet, Ill., contributed Red Riding Hood, Aristocrat and White Perfection. August von Boeslager, Mt. Clemens, had something fine in Light Pink Lawson; also Moonlight. A. J. Stahelin occupied an entire table with his stock, which was splendid. Chas. Plumb had some excellent Golden Spur and Von Sion narcissus. Lesbold Mallast showed a vase of truly old time Mrs. Lawson and violets. George Browne had a vase of White Enchantress.

After the members had examined the display the meeting was called to order. Louis F. Tause was unanimously elected a member. George Browne read a paper descriptive of the beautiful city of Toronto and the excellent meeting recently held there. He was much interested in the lack of advertising signs in the city. He visited the Dale Estate and John H. Dunlop greenhouses. The method of picking carnations struck him particularly. Every flower is laid the same way, and when a bunch is gathered it is tied up and put into a pail of water. Sugar beets are used there as a trap to catch sow bugs, while bran and Paris Green are used by Dunlop. Eaton's department store in Toronto was a source of attraction; split carnations were being sold there for 75c. per dozen. At Brampton the roses were tied down because they would have stems too long to suit the market. The lily of the valley was what Mr. Browne termed ideal.

Messrs. Rackham, Plumb and Pantke were asked to pass judgment on the carnation display. They reported as follows: Red Riding Hood appealed to them most, having a good stem, and the flower was carried well. Aristocrat showed up well under gaslight; it was not in as good

condition as Red Riding Hood. White Perfection is of good form and a pure white. Winsor is a fine flower, and if it is as prolific as beautiful it will prove a great acquisition. Von Boeslager's Pink Lawson was of nearly the same shade as Winsor and nearly as good in form; Moonlight lacked stiffness of stem. A. J. Stahelin's Rose-Pink Enchantress and White Lawson were grand, his whole exhibit reflecting great credit on the grower. He showed two seedlings, one white and one deep pink, both of which were very good. Thomas Browne staged the best lot of White Enchantress—a pure white. Mallast staged vases of Lawson that proved that variety is still in the ring if well grown. His Marie Louise violets were excellent. Plumb received honorable mention for his bulbous stock.

The Detroit Florists' Club most emphatically protest against changing the date of the S. A. F. convention from August to November; many of its members are active members of the S. A. F. The entertainment committee has saddled a black horse for February 20, 1907.

C. Aangeenburg, representing Waarner & Company, Sassenheim, Holland, was present and was called upon for a few remarks. Murray G. Patterson was proposed for membership. HARRY.

Grand Rapids, Mich.

News Notes.

With the brightening up of the weather comes a hope of more flowers, which are badly needed in Grand Rapids and vicinity. The flood of last week has subsided, and the river is again in its natural bank.

Three small children and their aunt, who is a sister of Miss Livingston, the florist, were killed by escaping coal gas. The saddest feature of the accident was that it was three days before they were found, and when discovered, one of the children was living, with feet and hands frozen. This child also died later at the hospital.

Trade is very brisk here, and all are very busy. Roses are still in great demand and the supply is far from adequate. While carnations are more plentiful, they also are moving fast. Callas and Easter lilies are in good demand now for funeral work, while roses and carnations for such work are out of the question.

The Florists' Club held its first regular meeting last Thursday night and elected Henry Smith, president; Gene Davis, vice-president; G. Freyling, secretary. They arranged to have meetings every first and third Monday, in the Board of Trade Rooms. The reports of the committees on by-laws and prices of bedding stock were read and for the most part accepted. There were twenty-three members present at this meeting, and unless the "skidoo" number is hoodooed, there seems every chance of a large and prospering club here.

G. F. Crabb of the Crabb and Hunter Floral Company is sick in bed with a severe attack of grip.

A. F. C.

FREE HOSE

trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipe. Send for Free catalogue "Kay" Boilers, Ventilating apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY COMPANY, 244 Fulton Street, - - New York City

Holds Glass

Firmly

See the Point

PERLESS

Sharpening Points are the best.

No Right or Left. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER, 714 Chestnut St., Phila., Pa.



Feb 16, 1906.



LOOK at this glass how it is spaced 24" —and the U-Bars, the way they form an attractive, "light as outdoors" house. U-Bar greenhouses are the best greenhouses built because you cannot find their equal for light or their match for attractiveness—the durability is assured. Send for U-Bar Catalog. Pierson U-Bar Co., Designers and Builders of U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23d St., New York.



Mention the Florists' Exchange when writing.

We Recently Received

an order from a prominent florist in Logansport, Ind., and Mr. J. H. Wise who makes a specialty of greenhouse building wrote us as follows: "He was inclined to purchase his material from a local mill but when I told him that your machinery was made for the purpose, that no local mill had the right lumber or the experienced workmen which you have he was finally convinced."

We have a hundred similar to this—what has been your experience with local mills?

JOHN C. MONINGER CO.
CHICAGO
115 E. Blackhawk Street.

Mention the Florists' Exchange when writing.

GEO. M. GARLAND
Iron Gutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at Chicago Flower Growers' Market.

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS. IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS

DILLER, CASKEY & CO. Successors to JENNINGS BROS.
S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

FURMAN BOILERS FOR GREENHOUSE HEATING

Valuable Catalogue on Modern Steam and Hot-Water Heating, mailed free upon request. Address **THE HERENDEEN MANUFACTURING CO.** 298 Pearl Street, New York. Dept. F. GENEVA, N. Y.

Furman Boilers have been awarded the Certificate of Merit at Five different Florists' Conventions. Have a record of 20 years. Over 25,000 in use. SELLING AGENT: EDW. S. DEAN, Bloomington, Ill.

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LET IT STRIKE YOU

FOLEY MFG. CO.
711 W. 22nd St. CHICAGO.

GREENHOUSE MATERIAL

HOT-BED SASH VENTILATING APPARATUS OF ALL KINDS FITTINGS &c.

SEND FOR FREE ILLUSTRATED CATALOGUE

STANDARD Pumping Engines

Those who are using Standard Pumping Engines appreciate their value. Hadn't you better be guided by their opinion?

The Standard Pump & Engine Co. CLEVELAND, O.

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Evans Improved Challenge

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

Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
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Mention the Florists' Exchange when writing.

WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses Greenhouse Heating and Ventilating Apparatus.

P. O. Address, Box 789, New York City.

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GOING TO Build a Greenhouse?

Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.

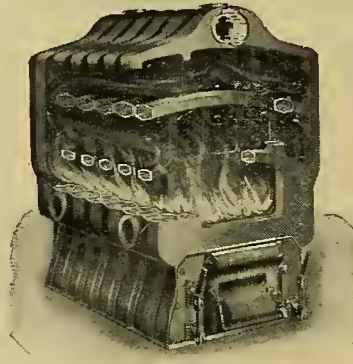
The A. T. STEARNS LUMBER CO.
Boston, Mass.



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WHOLESALE TRADE LIST

ASPARAGUS PLUMOSUS, 2 1/2 inch pots, \$3.00 per 100. 3 in. pots, \$5.00 per 100.
 BOSTON FERNS, 5 in. pots, 20c. 6 in. pots, 25c.
 CLEMATIS PANICULATA, 4 in. pots, \$1.50 per doz., \$10.00 per 100; 3 in. pots, 75c. per doz.; \$5.00 per 100.
 DRACAENA INDIVISA, 5 in. pots, \$2.00 per doz.
 GERANIUMS, Rooted cuttings from soil, \$2.00 per 100.
 GERANIUMS, best varieties from 3 in. pots \$4.00 per 100.
 IVY, Hardy English, 3 in. pots, \$5.00 per 100; 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
 SANSEVIERA (Zehra plant), 4 in. pots, strong, \$1.50 per doz.; 3 in. pots, \$1.00 per doz.
ROOTED CUTTINGS: Heliotrope, dark blue; Fuchsias, Elm City; Salvia Bonifre, Cup-heas, Parlor Ivy, Ageratum, blue and white, \$1.00 per 100.
SEEDLINGS from flats: Asparagus Sprengeri and Asparagus Plumosus, \$1.00 per 100.
C. EISELE, 11th & Roy Streets, PHILADELPHIA, PA.
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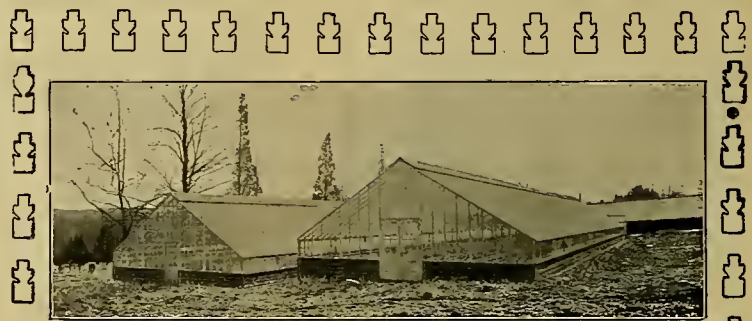
The Greenhouse Boiler

"24° BELOW ZERO

and we had no difficulty in maintaining a temperature of 60°" is the testimony of a well-known Pennsylvania florist who is using my **GREENHOUSE BOILER.**
 Let me quote you prices.

JOHN A. PAYNE

Horticultural Architect and Builder
 33 Clendenny Ave., Jersey City, N. J.
 Sash opening apparatus and all kinds of greenhouse structural material.
 Mention the Florists' Exchange when writing.



JUST THINK THIS OVER:

If you hold a dime close to your eye and a dollar a little way off, you cannot see the dollar—the pesky little dime has shut the sight of that dollar completely out. Now, it's exactly the same way with the man who buys his materials locally or gets an estimate on an all cypress, shade-trap of a house and compares it with the price on that semi-iron and cypress house of ours; and then buys the shade-trap, repair-drag-house because it's a "little cheaper." Of course it's cheaper;—but why deliberately buy repair troubles—won't enough come of themselves? Now listen! Our estimate is based on a house with Cast Iron Foot Pieces, Angle Iron Posts, Ice Clearing Eave Plate, Sash Bar Clasps, 1 1/4 inch Pipe Purlins and Posts clamped together with our Interchangeable Clamp Column Fittings; fact is, more than half our house is iron. Iron at every decay point—iron at every weak point in that other fellow's house.

That other fellow's house can't compare in any way with ours—from start to finish you will have excessive repair bills on your hands. Get that dime out of your eye and see the dollar side—the saving side of our materials—our houses. Write for prices.

Lord & Burnham Co.

Greenhouse Designers and Manufacturers.

1133 Broadway, corner 26th St., NEW YORK.

BOSTON BRANCH, 819 Tremont Building.

Mention The Florists' Exchange when writing.

Greenhouse Material  **Hot Bed Sash**
 of Louisiana Cypress and Washington Red Cedar
 Greenhouse Hardware and Post Patent V and U Gutters.
OUR GRADE INVARIABLY THE BEST, OUR PRICES RIGHT.
 Write for Catalogue and Estimate when figuring on your new houses.
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SAVE TIME AND MONEY

OUR GULF CYPRESS

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CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING, VENTILATING APPARATUS, HOT-BED SASH

Putty--**GREENHOUSE GLASS**--Points

AT WHOLESALE

S. JACOBS & SONS,

GREENHOUSE CONSTRUCTION MATERIAL

1365-79 Flushing Ave., BROOKLYN, N. Y.

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"The test of years is the real test."

Scollay Boilers

ARE BEST

See our advertisement in next issue. Catalogues sent on application.

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EASTER BASKETS—EASTER NOVELTIES

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A. HERRMANN
 Manufacturer of Floral Metal Designs
 IMPORTER AND DEALER IN FLORISTS' SUPPLIES
 FACTORY: 709 FIRST AVENUE, BETWEEN 40th AND 41st STREETS, NEW YORK
 OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.
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THE FLORISTS' EXCHANGE

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

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

Vol. XXIII. No. 8

NEW YORK AND CHICAGO, FEBRUARY 23, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention. Won first prize for best 100 pink

We have not advertised Winsor until now because we have not had to. It is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise, for the present, February delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time do-

ing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Echadtruss and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Echadtruss is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. February delivery, \$12.00 per 100, \$100.00 per 1000.

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

Mention the Florists' Exchange when writing.



WE are now booking orders for early delivery of *Richmond, Killarney, Bride, Bridesmaid, Wellesley, Liberty, Kaiserin, Carnot, Bon Silene, Mrs. Oliver Ames and Safiana.*

Now is the time to get *Kaiserin Augusta Victoria* for early summer flowering. I have a large quantity of 2 1/4 inch grafted and own root stock now ready for shipment.

Have a splendid stock of *Asparagus Plumosus Nanus* seedlings; seed saved from my own plants.

SEND FOR PRICES

W. H. ELLIOTT, Brighton, Mass.

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Tuberose

DWARF EXCELSIOR PEARL

Well cured stock. Now ready. F. o. b. N. Y.

First size, 4-6 Per 1000, \$9.50

Medium size, 3-4 Per 1000, 4.50

Add 50c. per 1000 if shipped from Chicago.



Gladiolus

	Per 100	1000
Mrs. Francis King	4.50	\$40.00
Priniceps, large bulbs	10.00	90.00
Priniceps, medium bulbs	7.50	70.00
Priniceps, small bulbs	5.50	50.00
Augusta	2.50	20.00
May	1.75	14.00
Shakespeare	3.75	35.00

Tuberous Rooted Begonias

We import only Bulbs which are grown from the finest large flowering strains of seed, and which are sure to give satisfaction.

	Doz.	1000
Single White, Yellow, Scarlet, Pink	\$0.40	\$3.00
Single Mixed .....	.35	2.50
Double White, Yellow, Scarlet, Pink .....	.65	5.00
Double Mixed .....	.50	4.00

Gloxinia Crassifolia Grandiflora

Extra Fine, separate colors, doz., 50c., 100 \$4.00. Choice Mixture, dozen 40c., 100 \$3.50.

For a complete list Florists' Flower Seeds, all summer Bulbs, etc., send for VAUGHAN'S BOOK FOR FLORISTS.

Vaughan's Seed Store

14 BARCLAY ST. NEW YORK

CHICAGO, 84-86 Randolph Street, Greenhouses, Western Springs, Ill.

Mention the Florists' Exchange when writing.

CACTUS GERANIUMS

A very unique and strikingly beautiful distinct type which, originating in England but a few years ago, at once won a place in great popular favor as a pot plant, for the conservatory and window boxes, for which they are unusually pleasing and attractive, on account of their remarkably handsome and thrifty but dwarf growth, small foliage, and marvelous profusion of bloom.

The Cactus has by common consent been recognized as a distinctive term applied to certain type of Dahlias, Cinerarias, etc., but none deserve the appellation more so than the Cactus Geraniums, with their admirable elegance of form, exquisite graceful narrow petals, similar to those of the Cactus Dahlia.

We offer a collection of four varieties, and to introduce them into every collection, we will for a short time send one dozen by mail post paid for \$1.50.

PELARGONIUM PELTATO ZONAL

ALLIANCE, (Lemoine 1905)

An exquisitely beautiful novelty of the highest order. A Hybrid between an Ivy and a Zonal and which has retained all the good points of both parents, including the beautiful soft finish of the Ivy and the hardy constitution of the Zonal.

It is therefore, not an ordinary variety but an extraordinary variety in all the good points that go to make up an attractive geranium. Its color is the most exquisite shade of delicate lilac white, upper petals feathered and blotched beautiful bright crimson rose. Flowers semi-double, abundantly produced in fine large trusses on long stems.

Habit is excellent, robust, strong, close-jointed; for vases or as a pot plant it is unequalled.

25 ets. each, \$2.50 per doz.; to introduce we will send postpaid for a short time.

IVY-LEAVED GERANIUM

CAESAR FRANCK, (Lemoine 1905)

This is unquestionably destined to become the most popular Ivy Geranium yet introduced; the color is the most magnificent shade of soft crimson, with an exquisite shading of tender rose at the base of petals. The flowers are about as double as those of the Crimson Rambler Rose—which they resemble—only much richer in color and finish, produced on long stems in enormous trusses. Habit, vigorous, quick-growing and pleasing, with a strong constitution. For baskets and vases it is all that could be desired.

Considering its general good behavior, being in keeping with its other good points, we are convinced that it is a most desirable sort.

25 ets. each, \$2.50 per doz.; to introduce it everywhere we will send post paid for a short time.

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

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EXTRA FRESH SEED



BEGONIA VERNON

Mxd., tr. pkt. 25c., oz. \$2.00

- Asters Queen of the Market.....tr. pkt. 15c. oz. 50c.
 Asparagus Plumosus Nanus.....1000 seeds \$4.50
 Sprengerl.....1000 seeds 75c.
 Bells Perennis, double.....trade pkt. 25c.
 Candytuft Empress.....per oz. 20c.
 Centaurea Gymnocarpa.....per oz. 35c.
 Golden Feather, dwarf selected.....per oz. 40c.
 Lobelia Crystal Palace Compacta.....trade pkt. 25c.
 Petunia, grand superb fringed, mixed, tr. pkt., \$1.00.
 Phlox, choice mixed.....per oz. 40c.
 Dwarf.....per oz. \$1.25
 Salvia Bonfire.....per oz. \$2.50
 Stocks, Ten Week, dwarf, large flowering, mixed trade pkt. 25c.
 Verbena Mammoth white.....trade pkt. 15c.
 scarlet.....trade pkt. 10c.

STERILIZED SHEEP MANURE

Grand natural stimulant for vegetation. 100 lbs. \$1.25 Half tons \$11.00. Tons \$20.00.

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

RAWSON'S ASTERS

are just a little superior to anybody else's

The product of our seeds can always demand a better price than those grown from seeds obtained elsewhere. The following is an extract from a letter received last fall from a most critical grower:

"Your Midsummer Aster has been a great moneymaker for me. For every flower that I have brought into the Boston Market I have received from \$1.00 to \$1.50 per hundred more than for any other variety raised from seeds purchased elsewhere". J. W. Simpson.

RAWSON'S TWO GREAT QUALITY ASTERS

RAWSON'S NEW MIDSUMMER:

in White, Delicate Lavender,

Delicate Shell Pink and Bright Rose at \$2.00 per oz.; 60c. per 1/4 oz.

RAWSON'S LATE BRANCHING: in White, Shell Pink, Rose Pink, Light Blue, Dark Blue, Scarlet and Crimson at \$1.00 per oz.; 50c. per 1/4 oz.

No Florist knows what *fresh* Aster seed means unless he has tried "RAWSON'S SEED." The crop of Aster seed has been extremely short last season and it is advisable to buy at once.

W. W. RAWSON & CO.
 5 UNION STREET, BOSTON, MASS.

P. S. We are now Sole Distributors for Boston for Carman's Antipest, if you wish to know what it is; send for a circular. Mention The Florists' Exchange when writing.



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109 MARKET STREET
 SAN FRANCISCO, CAL.

Specialties:

Onion, Carrot, Lettuce, Sweet Peas



Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.

New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

COLD STORAGE

Lily of the Valley Pips
 BEST POSSIBLE GRADE
 1000 in case, @ \$12.00 per 1000.

J. M. THORBURN & CO.
 33 Barclay St., through to
 38 Park Place, New York.

Asparagus Plumosus Nanus Seed

Greenhouse grown, 1000 seeds, \$4.00; 5000 or more write for prices.

CHRYSANTHEMUMS, 2 1/2 in., 1000 Major Bonaffon now ready; 20,000 in five varieties ready soon, \$2.00 per 100; \$17.50 per 1000. Cash with order please.

W. H. PARSIL, Chatham, N. J.
 Mention the Florists' Exchange when writing.

Sow Now The True Thing!

- Ageratum, Blue Star, the best of all for pots. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Alyssum, Carpet Queen, fine extra dwarf strain. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Begonia, Erfordl for pots the best rosy pink. 8 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Begonia, Gracilis Lumbosa, a fine tender, new with large bright scarlet flowers and ball-shaped habit, unexcelled for pots and hall-plant. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
 Cyclamen, Giant flow, separate colors, 1000 seeds \$8.00. Trade Pkt. \$1.00.
 Petunia, Rosy Morn, a fine bedder. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Petunia, Callonian single Giants, extra strain. 6 Trade Pkts. \$4.00; Trade Pkt. 75c.
 Petunia, double fringed Giants. 6 Trade Pkts. \$5.00; Trade Pkt. \$1.00.
 Phlox, New Cecily, the very best large flowered, real dwarf, compact. Drum. Phlox for pots, mixed colors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
 Salvia, Bonfire. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
 Salvia, Fireball, this is a new, real dwarf compact early flowering, fine variety and there is hardly a better one for pots. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
 Verbena Mammoth, unexcelled strains; as Auricula flowered, Scarlet, Striped, Pink, Purple, White, each separate. Oz. \$1.50; Trade Pkt. 25c.
 For larger quantities special quotations.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

VERBENA

MAMMOTH

- COLORS or MIXED.....oz. \$ 7.00
 Petunia Double Large Fl. Fringed, t. pkt. 1.00
 Single Large Fl. Fringed. " .50
 Salvia Splendens.....oz. 1.00
 Stocks Large Fl. 10 Weeks.....t. pkt. .25
 Dwarf Snowflake....." .25
 Begonia Dwarf Vernoe....." .25
 Yulcan....." .25
 Erfordl....." .25

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

GOLD MEDAL STRAINS BEGONIAS & GLOXINIAS

BEGONIAS		GLOXINIAS	
	Per doz. Per 100		Per doz. Per 100
Double Rose.....	\$.65 \$5.00	Single, Scarlet.....	\$0.40 \$2.50
Orange.....	.65 5.00	Dark Red.....	.40 2.50
Red.....	.65 5.00	Pink.....	.40 2.50
Salmon.....	.65 5.00	Rose.....	.40 2.50
Dark Red.....	.65 5.00	White.....	.40 2.50
Yellow.....	.65 5.00	Yellow.....	.40 2.50
Mixed.....	.50 4.00	Nankeen.....	.40 2.50
NEW VARIETIES.		Orange.....	.40 2.50
Duke of Zepplin.....	1.50 11.00	Salmon.....	.40 2.50
La Fayette.....	2.40 18.00	Mixed.....	.50 2.25
Single Giant, Fringed mixed	1.00 8.00	Double White.....	.65 5.00
GLOXINIAS			
Emperor Frederick.....	Doz. 100 \$0.75 \$5.00	Prince Mathilda.....	Doz. 100 \$0.75 \$5.00
Emperor William.....	.75 5.00	Queen Victoria.....	.75 5.00
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Mont Blanc.....	.75 5.00	King of the Reds.....	.85 6.00
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THIS MEANS THAT LANDRETHS' SEEDS GROW AND ARE GOOD

Mention this paper when you write. ADDRESS, BRISTOL, PA.

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Growers and Wholesalers of Superior Garden Seeds
 Seedsmen and Florists Supplied at the shortest notice and at right prices.
 Our Catalogues are now ready and are mailed upon request.

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 145 W. Randolph St.
 Mention the Florists' Exchange when writing.

NEW STOCKS

FLOWER SEEDS FOR FLORISTS

Wholesale Catalog Ready

Send for it today. But first read our advertisement on page 125 in the Florists' Exchange for January 29th, 1907. It is worth reading.

JAMES VICK'S SONS
 Seedsmen
 ROCHESTER, N. Y.

SHAMROCK

IRISH: THE REAL THING: GREEN
 Strong and fine plants. Better order early. \$4.00 per 100; or 80c per doz., by mail.

XXX SEEDS

- Verbena, Improved mammoth, the very finest grown, mixed, 1000 seeds, 25c.
 Cineraria, Finest large flowering dwarf. Mixed colors, 1000 seeds, 50c.
 Chinese Primrose, Finest large-flowering fringed varieties, mixed; single and double. 500 seeds, \$1.00; half pkt. 50c.
 Pansy, Finest Giant. The best large-flowering varieties, critically selected; mixed, 5000 seeds, \$1.00; half pkt. 50c. Mad. Peritigratis.
 CASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.

The Home of Primroses
 Mention the Florists' Exchange when writing.

S. M. ISBELL & CO.

JACKSON, MICH.
 Seed Growers for the Trade
 BEANS, CUCUMBER, TOMATO,

Radish, Peas, Muskmelon;

Squash, Watermelon, Sweet Corn.

We are now booking orders for 1907, Fall delivery. Send for Contract Prices also surplus List. Mention the Florists' Exchange when writing.

SEED PANSY PLANTS

THE JENNINGS STRAIN
 25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, ready to bloom, \$1.00 per 100; \$7.50 per 1000; by express only. Second size, strong plants, 100 by mail, 80c.; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

E. B. JENNINGS,
 Lock Box 254
 Southport, Conn.
 Grower of the Finest Pansies

TOMATO SEED

The very best strains, true to name and of high germinating quality.

	oz.	1/4 lb.	1 lb.
Acme.....	\$0.20	\$0.60	\$2.00
Beauty.....	.25	.70	2.25
Chalk's Early Jewell.....	.40	1.25	4.00
Early Michigan.....	.25	.70	2.25
Favorite.....	.25	.70	2.25
Matchless.....	.25	.70	2.25
Ponderosa.....	.40	1.25	4.00
Paragon Selected.....	.25	.70	2.25
Perfection.....	.20	.60	2.00
Royal Red.....	.25	.70	2.25
Stone Selected.....	.25	.70	2.25
Spark's Earli- ana.....	.40	1.25	4.00
S. & W. Co.'s Earliest of All.....	.40	1.25	4.00
Trophy Selected.....	.25	.70	2.25

These prices include delivery anywhere in the U. S. and our stock of Tomato Seed is the very best there is to be had. We would appreciate a trial order.

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

FRESH IMPORTATION Mushroom Spawn

Absolutely Reliable—Used by the Most Critical Growers

English Milltrack, 10 lbs. 75c.; 25 lbs. \$1.50; 100 lbs. \$6.00; 1000 lbs. \$55.00
Pure Culture, Per 10 bricks \$1.50; 25 bricks \$3.50; 50 bricks \$6.50; 100 bricks \$12.00
Write for quotations on large lots. Cultural directions sent with every order.

HIGH GRADE Lily Of The Valley Pips

None Better Offered to the Trade
Selected Hamburg for Forcing, per 100 \$1.25; per 1000 \$11.00; per case 2500 Pips \$25.00
Selected Berlin, Unsurpassed Quality, per 100 \$1.50; per 1000 \$14.00; per case 2000 Pips \$27.00
New Crop Asparagus Plumosus Nanus (Northern Greenhouse Grower) Selected Seed, per 100 seeds 50c.; per 1000 seeds \$3.50; per 5000 seeds \$16.00
Asparagus Sprengeri, per 250 seeds 25c.; per 1000 seeds 75c.; per 5000 seeds \$3.00
See our Begonia and Gloxinia offer in last issue.

JOHNSON SEED COMPANY, 217 Market St., Philadelphia, Pa.

Herbert Johnson of the late firm of Johnson & Stokes, President.
Mention the Florists' Exchange when writing.

Your attention is called to our ad of February 9th. Look it up! Send for our catalogue.

H. H. BERGER & CO.,
47 Barclay St., New York
Mention The Florists' Exchange when writing.

GREGORY'S SEEDS

If you have never planted them, try them this year. They never disappoint—they grow—they yield. Always sold under three guarantees, insuring freshness, purity and reliability. For this reason, thousands of farmers, gardeners and planters, both in the United States and Canada, plant Gregory's Seeds exclusively. Our new Catalog contains many suggestions and directions—the fruit of fifty years' experience in the seed business.

J. J. H. Gregory & Son
Marblehead, Mass.



ASTER SEED

Our descriptive price list of High Grade Aster Seed is now ready and will be sent free on application. Try our new varieties: **CARDINAL, SUNSET and ROSE CARMINE BRANCHING**; they are winners. Price per packet, 25c.; two packets for 40c. Pointers on how to grow ASTERS successfully sent free with every order

VICK & HILL CO.

P. O. Box 613 ROCHESTER, N. Y.
Mention the Florists' Exchange when writing.

CYCLAMEN SEED

The best commercial large flowering strain in the following colors at 75 cents per 100 and \$6.00 per 1000: **Blood Red, Bright Light Red, Bright Rose, Pure White, White with Carmine Eye.** The following at \$1.75 per 100, \$15.00 per 1000: **Lilac, Rubin, Salmon.**

PERENNIAL GARDENS CO., - TOLEDO, O.
Mention the Florists' Exchange when writing.

To The Trade

Just issued—our special price list giving our position on

ONION SEED

We shall send this to the Trade, being unable to make the personal visit contemplated. Please write for it.

A. J. Pieters Seed Co., Hollister, Cal.
Mention The Florists' Exchange when writing.

200,000 SHRUBS from 2 to 8 FEET

Viburnum Plicatum	Viburnum Dentatum	Lonicera Grandiflora	Rosa
Stephanandra Flexuosa	Lonicera Tartarica	Sambucus Aurea	
Deutzia Lemolne	Spiraea in Variety	Lilacs, white and purple	
Hydrangea P. G.	Foreythia Viridissima	Judas American	
Berberis Thunbergii	Cornus Stolonifera	Azalea Amoena	
Weigella	Creeping Roses	Honeysuckles in variety	
	Privet Regellana	600,000 Herbaceous Plants	

ELIZABETH NURSERY CO., Elizabeth, N. J.

Mention the Florists' Exchange when writing.

C. C. Morse & Co. SEED GROWERS

171-173 Clay St., San Francisco, Cal.
ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
Warehouses, Santa Clara, Farms and Farm Headquarters, Oxnard, near Gilroy
Mention The Florists' Exchange when writing.

If you have not received our florist list, write us; we will mail it.

H. E. FISKE SEED CO., 12 & 13 Faneuil Hall Sq. BOSTON, MASS.

Mention the Florists' Exchange when writing.

EXTRA CHOICE FLOWER SEEDS

List free on application.
FRED. ROEMER, Seed Grower, QUEDLINBURG GERMANY.
Mention the Florists' Exchange when writing.

ASPARAGUS PLUMOSUS NANUS (Greenhouse Grown) FINE PLUMP SEED \$5.00 per 1000 ESTABLISHED 1824

Bridgeman's Seed Warehouse
Rickards Bros., Props.
37 EAST 19TH ST. Near Broadway NEW YORK CITY
Telephone: 4235 Gramercy
Mention the Florists' Exchange when writing.

ASTER SEED

Vick's Branching, Late White Aster, \$1.00 per oz., \$12.00 per lb.
The above seed is from carefully selected stock and should give good satisfaction.

WHITE BROS., Gasport, N. Y.
Mention the Florists' Exchange when writing.

ASPARAGUS SEED

1906 CROP 100 1000
Plumosus Nanus, True..... 50c. \$3.50
Sprengeri..... 15c. .75
Cycas Revoluta Seed.....\$2.50 22.50
Headquarters for all the best flower seeds. 100-page seed buyer's guide free.

MOORE & SIMON, Seed Growers, 339 Market St., Philadelphia
Mention the Florists' Exchange when writing.

BURPEE'S SEEDS PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

TREE SEEDS

Send to-day for our Trade Price List and our Illustrated, Descriptive Catalog
Otto Kattzenstein & Co., Atlanta, Ga
Mention the Florists' Exchange when writing.

W. & D.'s Specialties for Forcing

Mignonette "New York Market"
Sweet Peas "True" Christmas Flowering (Pink and White)
Tomato "The Duo" Tomato "Stirling Castle"
Mushroom Spawn "English" and "Pure Culture"
Send for 1907 Catalogue.

WEEBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK
Mention the Florists' Exchange when writing.



We Handle Finest Valley Only

If you need fine Lily of the Valley for early or late forcing, delivery next Fall or later, then please send order at once.

Excellent	1000
Superior	\$10.50
Excellent Primer	12.00
	14.00

Goods can be returned at our expense if not satisfactory

John Scheepers & Co.
4 & 6 Old Slip
NEW YORK

Mention the Florists' Exchange when writing.

TRUE STOCK Aquilegia Coerulea

Rocky Mountain Columbine

From the Rockies
SEED—1 oz. \$1.00; 1/2 lb., \$3.50; lb. \$12.00 by mail.
ROOTS—4 and 5 year old, doz. \$1.25; 100 \$8.00, by express.
Order from headquarters.

THE BARTELDES SEED CO., DENVER COLO.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

DES MOINES, IA.—We have had an unusual number of visitors lately, among others Carl Cropp of Vaughan's Seed Store of Chicago, looking after the interests of their greenhouse branch here; Charles P. Braslin of San José, Cal.; Professor Brown, head of the Pure Seed Department of Agriculture of Washington; Mr. Crossland of Northrup King & Company; Mr. Johnson of Albert Dickinson Company, Chicago; Wm. Hagemann, New York; Mr. Steinmetz, representing W. W. Barnard, and several Holland bulb and azalea men, including C. J. Von Bourgondien.

Jos. Milton, late of the Wm. Donnellson Company, of Minneapolis, has taken a position with the Iowa Seed Company.

We regret to report the death of Mrs. Kurtzwell, mother of Mathias Kurtzwell, one of the proprietors of the Iowa Seed Company. Mrs. Kurtzwell was 78 years of age. She leaves her husband and one son. W. T.

CHICAGO.—It has been stated that but a short time ago imported bulbs were still in the government warehouse which had lain there since their arrival last Fall. It is now claimed that the trouble was brought about by the agents of foreign concerns booking orders here and agreeing to place the goods free of all charges in the purchasers' store for one-third of the amount of the bill. As the duty alone is twenty-five per cent, but eight and one-third per cent, was left to pay freight rates, brokerage, and hauling on both sides of the Atlantic, insurance, etc., evidently an insufficient proportion to cover the outlay, consequently to make both ends meet or to take out a little more "velvet" on the transaction the custom of falsification and duplicate bills has been resorted to, and Uncle Sam having become wise to the proceedings has deemed it advisable to make a thorough investigation.

Seed business prospects continue excellent; in fact, as one large dealer put it, they were never better.

With a brisk demand and small holdings the remainder of the onion set crop is quoted as follows: white, \$3; yellow, \$2.25, and red, \$2 per bushel. The unusual event of a carload of sets being shipped to Texas as late as February 15 was recently recorded. Fine quality of nearby grown seed is being offered, in considerable amount, one party reporting having refused 1200 pounds on Monday at a reasonable figure.

TOLEDO, O.—The Hill & Ross Company, dealers in seeds and farm implements, and The Hayes Music Company have been merged into The Hayes Company, with a capital of \$30,000. The only interest these two concerns have had in common was that they were both doing business on the installment plan. The Hill & Ross Company had a capital of \$30,000 and was doing business for some time on Superior street, a very choice locality. The Hayes Music Company had a capital of \$9,000 and a surplus of \$40,000. The incorporators of the new company are J. M. Hayes, P. C. Hayes, A. L. Irish, J. P. McAfee and S. S. McAfee. J. M. Hayes will be the president and general manager of the new concern. The present location of both stores will be abandoned and both will move to Cherry street.

Cratz Brothers, dealers in clover seed, have quit business, giving as reasons the sudden decline and irregular fluctuations in clover seed for some time. William E. Cratz has been at the head of the business since the death of his brother two years ago. The firm has been in business since 1835, and expects to pay 50c. on the dollar. J. L. S.

PURE SEEDS IN KENTUCKY.—The inspector of seed under the Kentucky Pure Seed Laws has issued an exhaustive bulletin, No. 127, prepared by H. Garman, entomologist and botanist, and Miss M. L. Didlake, assistant, of the Kentucky Agricultural Experiment Station. Of the samples here reported thirty-six were found adulterated, as follows: Red clover, 2 (0.91 per cent.); bluegrass, 12 (3 per cent.); orchard grass 21 (19.4 per cent.); timothy, 1 (0.45 per cent.). The law makes it a misdemeanor to sell adulterated or misbranded seed, and imposes for such first offense a fine of not less than \$25 nor more than \$100, and for each subsequent offense not more than \$200, or be imprisoned six months, or both, in the discretion of the court.

FREE SEEDS IN THE SENATE.—In the discussion of the Agricultural Appropriation Bill by the Senate, the clause relating to the purchase and distribution of seeds, etc., by the Government was amended (the amendment was agreed to) to read as follows:

"And the Secretary of Agriculture is hereby directed to expend the said sum, as nearly as practicable, in the purchase, testing, and distribution of such valuable seeds, bulbs, shrubs, vines, cuttings, and plants, the best he can obtain at a public or private sale, and such as shall be suitable for the respective localities to which the same are to be apportioned, and in which same are to be distributed as hereinafter stated, and such seeds so purchased shall include a variety of vegetable and flower seeds suitable for planting and culture in the various sections of the United States. An equal proportion of five-sixths of all seeds, bulbs, shrubs, vines, cuttings, and plants shall, upon their request, after due notification by the Secretary of Agriculture that the allotment to their respective districts is ready for distribution, be supplied to Senators, Representatives and Delegates in Congress for distribution among their constituents, or mailed

Aster Seed

This should be sown now to ensure good stocky plants. The seed we offer has been gathered from specimen very double blooms. We have two good ones for the florist.

TRUFFAUTS PAEONY FLOWERED ASTER

Crimson.....	Trade Pkt.	Oz.
Light Blue.....	\$0.30	1.50
Link.....	30	1.50
Purple Violet.....	30	1.50
White.....	30	1.50
Mixed.....	30	1.25

SEMPLS BRANCHING ASTER

Lavender.....	Trade Pkt.	Oz.
Rosa Pink.....	\$0.30	\$1.00
Shell Pink.....	30	1.00
Purple.....	30	1.00
Red.....	30	1.00
White.....	30	1.00
Mixed.....	30	1.00

Our Wholesale Catalogue for Florists contains a complete list of Asters. Send for a copy.

HENRY F. MICHELL CO.

1018 Market St., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing

by the Department upon the receipt of their addressed franks, in packages of such weight as the Secretary of Agriculture and the Postmaster-General may jointly determine; and the person receiving such seeds shall be requested to inform the Department of the results of the experiments therewith."

IMPORTS OF SEEDS, ETC.—February 9 and 10. —Graham, Hinkley & Company, one case plants; Maltus & Ware, 11 bags seed; Vaughan's Seed Store, one case seeds; C. C. Abel & Company, 18 packages plants; H. Frank Darrow, 16 packages plants; International Dispatch three packages plants; Rooney & Spence, four packages plants; F. B. Vandergrift & Company, 36 packages plants; "Simpson," 600 bags clover seed; "Bunflington," 402 bags clover seed; Schieffelin & Company, four packages seed; G. W. Sheldon & Company, 133 packages plants.

February 8, 1907.—H. Frank Darrow nine cases plants. February 9, 1907.—H. F. Darrow, three cases trees, and nine cases plants; J. P. Roosa, three barrels flower seeds, one case garden seeds; J. M. Thorburn & Co., eight barrels garden and flower seeds; Vaughan's Seed Store, one bale garden seeds.

For week ending February 9, 1907:

	Pks	Value
Canary	400	\$736
Caraway	620	4,618
Castor	3,369	17,204
Clover	2,095	51,641
Fennel	30	500
Grass	89	1,269
Millet	500	854
Mustard	400	4,282
Poppy	194	3,571
Rape	48	42
Sugar Beet	2	12

February 13.—C. C. Abel & Company, 28 cases live plants; H. Frank Darrow, 27 packages seed, 9 packages live trees; Atlantic Transport Company, 200 bags clover seed; Peter Henderson & Company, 8 bags seed.

February 15.—A. Olsen, 198 bags clover seed; J. M. Thorburn & Company, 69 bags seed; F. V. Vandegrift & Company, 150 bags clover seed.

EXPORTS OF SEEDS, ETC.—February 9.—To Adelaide, 10 packages seed, valued at \$683; to Liverpool, four packages seed, valued at \$207; to Rotterdam, 28 barrels bulbs, valued at \$183.

February 13.—Shipped from New York to Copenhagen, 161 bags grass seed, valued at \$225; to Laguayra, 41 bags seed, valued at \$362.

Shipped from New York, February 14, to Budapesth, 76 packages seed, valued at \$162; to Glasgow, 200 bags grass seed, valued at \$1,280, 100 bags clover seed, valued at \$1,700; to Hamburg, 1364 bags grass seed, valued at \$6,228, 59 bags seed valued at \$622; to New Zealand, two packages seed, valued at \$110.

European Notes.

With the report of a heavy fall of snow in the south we are enjoying a beastly wet thaw in the north, but even this change is acceptable, as with the thermometer ranging from 15 to 25 degrees below freezing point, all trade is at a standstill and our plants are showing signs of injury. The delay in making our Spring sowings will have the effect of retarding the crops, particularly those of spinach and radish, and our friends will do well to prepare for the inevitable late deliveries. Nearly everything worth selling in these lines has now been cleared out, but a lot of 40 per cent. seed is still lying around for the unwarly.

EUROPEAN SEEDS.

NOTES FROM HOLLAND.—The beginning of the New Year was as mild as if we were getting into Summer instead of in the middle of the Winter, but those that made the mistake to let themselves be fooled by this weather had every reason to be sorry by the middle of the month. At that time a sudden change from rain to 12 degrees of frost with a killing east wind that did not fail to penetrate into the deepest corners of every protected part of the grounds, caused no little fright among the growers that had already partially uncovered their fields. However, it is not likely that any harm has been done as very probably the soaked grounds closed up into one mass of



Summer Flowering Bulbs

My New Begonias and Glòxinias are in stock and are as fine as any I have ever seen.

LARGE FLOWERING BEGONIAS—Tuberous Rooted

Single: (11-13 inch bulbs)	Double: (11-13 inch bulbs)
Per doz. Per 100 Per 1000	Per doz. Per 100 Per 1000
Scarlet..... \$0.35 \$2.50 \$23.00	Scarlet..... \$0.60 \$4.25 \$33.00
Crimson..... .35 2.50 23.00	Crimson..... .60 4.25 38.00
White..... .35 2.50 23.00	White..... .60 4.25 38.00
Rose..... .35 2.50 23.00	Rose..... .60 4.25 38.00
Yellow..... .35 2.50 23.00	Yellow..... .60 4.25 38.00
Mixed..... .30 2.25 22.00	Mixed..... .50 4.00 35.00

GLOXINIAS, GIANT FLOWERING
Fine, Large Bulbs, Strong and Well Matured, Blue, Red, White, Red with White Border, Spotted and Tigered. Per Doz. 50c. Per 100 \$3.50. Mixed Sorts, Fine, Per Doz., 45c; Per 100 \$3.25.

FORCING VEGETABLE SEEDS
Special Strains for Greenhouse Culture—Cucumber, Cauliflower, Lettuce, Radish, Tomato. Write me Your Wants

Mushroom Spawn. Frequent importations from England. Per 100 lbs. \$6.00; Per 1000 lbs. \$55.00

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.
Mention the Florists' Exchange when writing.

ice and prevented the frost from getting any deeper. As, however, next day saw us in over 20 degrees of frost, with increasing wind that chilled even men to the very bone, the alarm became general but nothing could be done and we can only now await the results, which will be fully reported upon.—Horticultural Trade Journal.

CATALOGUES RECEIVED.

W. B. LONGSTRETH, Gratiot, O.—Catalogue of Garden and Flower Seeds.

PETER HENDERSON & COMPANY, New York.—Specimen Pages from "Everything for the Garden."

M. CRAWFORD COMPANY, Cuyahoga Falls, O.—Catalogue of Strawberry Plants and Gladiolus Bulbs. Illustrated.

THOMAS J. GREY & COMPANY, Boston, Mass.—Illustrated Catalogue of Vegetable and Flower Seeds, Plants, Supplies, etc., with a select list of Specialties.

CORNWALL NURSERY COMPANY, Cornwall-on-Hudson, N. Y.—Illustrated Descriptive Catalogue of Fruit and Ornamental Trees, Shrubs, Plants, Roses, etc.

F. E. CONINE NURSERY COMPANY, Stratford, Conn.—Illustrated Catalogue of Shade and Ornamental Trees, Vines, Evergreens, Shrubs, etc.—Hardy Roses a Specialty.

J. M. BASSETT, Hammonont, N. J.—Catalogue of Native Plants and Kalmias. Mr. Bassett says he has a tract of over 3000 acres of land, covering practically all of the first-class Kalmias in this section.

EASTERN NURSERIES, M. M. Dawson, manager, Jamaica Plain, Mass.—Everything for the Hardy Garden. A neatly printed and handsomely illustrated catalogue, well carrying out the title which has been given.

GEORGE H. PETERSON, Fair Lawn, N. J.—A Little Book about Roses; a very instructive, neatly printed and well-illustrated booklet. The offerings in Roses are comprehensive. Another of Mr. Peterson's specialties is the Peony, of which an interesting list is enumerated.

H. E. FISKE SEED COMPANY, Boston, Mass.—Catalogue of Seeds, Bulbs, Plants, Supplies, etc., with a carefully selected List of Novelties and Specialties. Mr. Fiske was for seventeen years with W. W. Rawson & Company, twelve of which he acted as manager of that well-known house.

WM. C. BECKERT, Allegheny, Pa.—Catalogue of Vegetable, Field and Flower Seeds, Bulbs, Plants, Supplies, etc. Illustrated Mr. Beckert's cover designs are Paris Golden Self-blanching Celery and Semple's Branching Aster in color. The offerings, as usual, are very complete in every line.

EDWIN S. MANUEL, Newport, R. I.—Catalogue and Dahlia Guide for 1907. A well printed and handy catalogue, being especially noteworthy for the large number of imported varieties and novelties listed; the former including Italian, German and French sorts in all the classes. Interesting and comprehensive enumerations of other dahlias, particularly of Cactus kinds, are also presented. Illustrated.

THE LIVINGSTON SEED COMPANY, Columbus, O.—Illustrated Catalogue of Vegetable and Flower Seeds, Plants, Fruit Trees, etc. Tomatoes constitute a leading specialty of the firm, Livingston's Hummer being among this year's novelties, a colored illustration of same forming the front cover design of the catalogue. Other interesting Novelties and Specialties are also listed. Also Wholesale List of Livingston's "True Blue" Seeds.

H. WEBER & SONS COMPANY, Oakland, Md.—Wholesale Price List of Carnations, including all the novelties and choice standard varieties. The raising of seedlings is a specialty of this well known concern; from five to ten thousand plants from carefully hand-fertilized seed being grown annually. The variety Mabelle is being introduced this year; and Toredor will be put on the market in 1908. The list is illustrated by half-tone engravings.

REASONER BROTHERS, Oneco, Fla.—Catalogue of Tropical, Semi-Tropical, and Temperate Fruit Trees and Plants, Medicinal and Economic Plants, Palms, Foliage and Flowering Plants, etc. A comprehensive and interesting Catalogue. The firm's greenhouses cover two acres, their "tropical orchard" house one acre, where rare new fruits of a tropical nature are tested. Two dozen sorts of East India mangoes are listed. The nurseries devoted to shrubs, trees, etc., of a miscellaneous character embrace about ten acres.

NATHAN SMITH & SON, Adrian, Mich.—Catalogue of Chrysanthemums, Cannas, Carnations, Phlox and General Florists' Stock. Chrysanthemums form one of this firm's leaders, and the lists enumerated are very comprehensive, the varieties being classified in their respective groups; foreign and home novelties are also listed under their respective heads, rendering reference easy. The catalogue is profusely illustrated by half-tone engravings, the front cover design showing a vase of Ongawa in color. This concern was awarded a silver medal for its display of new Geraniums, Salvias, Hardy Perennials and Chrysanthemums at the St. Louis World's Fair.

THE STORRS & HARRISON COMPANY, Painesville, O.—Catalogue of Vegetable and Flower Seeds, Plants, Ornamental Shrubs and Trees, Vines, Fruit Trees, etc. A business-like catalogue, complete in its lists of offerings in every department. The firm says: "We recognize no necessity for pages of hot-air about the excellence of our products or methods of doing business, thinking our record of fifty-three years in supplying planters direct from nursery (eliminating the middleman's profit), our development from a small local concern to the largest nursery establishment in the United States; our thousands of pleased customers in every plant and fruit-growing section of the country, should be a sufficient guarantee to those who favor us with their orders." The catalogue is profusely illustrated; the cover designs neat and attractive.

FRED'K. W. KELSEY, New York.—Catalogue of Choice Trees and Hardy Shrubs, Vines, Roses, Hardy Perennials, etc. The half-tone illustrations are particularly of the specimen Evergreens, groups of Rhododendrons and other shrubs, formal garden effect, etc., being all from excellent and original photographs, give a vivid and accurate idea of each of the subjects illustrated. The common as well as the botanical names are used, in connection with the descriptions, also by a handy key the height each variety attains is indicated, making the catalogue in effect a valuable reference book. Much care has been exercised in the selection in both the ornamental and fruit departments of such material as can be successfully and satisfactorily grown in the New England, Central, and Western States, and the selection of trained Fruit Trees, and Grape Vines for vinerias is one of the interesting features of this publication.

PLANT CULTURE

PRICE \$1.00
A. T. DE LA MARE PTG. & PUB. CO.,
2 Duane Street, New York

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
 Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

Privet; Manetti, Etc.

What is your opinion of Privet *amaranthus*? Where did it come from, and why is it superior to California privet?

What quantity of manetti stock is imported from Europe for grafting? What quantity of roses and other grafted hardy shrubs are imported?

R. V.

—I do not know of any privet *amaranthus*. You probably mean *amurensis*. This is a Japanese sort, much valued as a hedge plant in the South, and now being used North as well. It is also called *ibota*. It is claimed that it is harder than the California privet, so-called, hence is preferred where the latter sort will not endure the winter.

I regret being unable to say what quality of manetti stocks and grafted shrubs are imported, but importations of all kinds are growing larger every year. Try the Bureau of Statistics at Washington, D. C., for the latter information. J. M.

Besides the destruction of oak forests for the making of railroad ties, great quantities of the wood are used for barrel staves, the Southern and South-western States leading in the latter industry.

The foliage of the white pine is said to be a good barometer. When rain or snow threatens, the needles droop; in fair weather they stand erect.

Lombardy poplar is not a native of Lombardy, but of Persia; but its introduction to general cultivation was from Lombardy, hence its name.

English gooseberries will not thrive in open places as our ordinary sorts will, but to the customer who has a half shady place for them they may be sold without any compunction whatsoever, for in such positions they thrive well.

Monterey pine, *Pinus insignis*, is in great demand in many countries, presumably because of its rapid growth and intensely green foliage. Pacific Coast lumbermen say of its timber that it is almost worthless; even being of little account for firewood. It is a magnificent ornamental tree, but not sufficiently hardy for the Middle States.

As an ornamental tree the Osage orange is worthy of attention. It forms a round-headed outline of great attraction. It is in demand for forestry purposes, the wood being hard and durable; as a seashore tree it has been found of great value. The roots penetrate deeply, sustaining the growth well, and the cheerful green color of its foliage is good to look upon.

In sandy situations such as border on seacoasts in many places the allantherus has been found to succeed well. Although noted for its suckering propensities it is well known that it does not sucker to any extent when its roots are undisturbed. The seed-bearing ones are free from the objectionable odor the flowers of the male ones are justly charged with.

Visitors from Europe who are here when our *Magnolia conspicua* and *M. Soulangeana* are in flower become enthusiastic in their praise. Large trees studded with large white flowers such as the *M. conspicua* presents, when in blossom, is something no other country can show but our own. The lack of our hot summer is against the full blooming of these magnolias in Europe.

Grafting Magnolia Glauca.

Those who wish to have *Magnolia glauca* of a larger size than it would make naturally can accomplish this by grafting it on a strong growing deciduous sort, either the *tripetala* or the *acuminata*. Permitted to grow as it will it makes a small tree, and when grafted on the strong stocks suggested it becomes a tree as large as those it is grafted on would make. It can be either grafted in Spring or budded in Summer; and worked either way a fair proportion will grow. Where growing wild the *Magnolia glauca* usually is seen as a shrub more or less bushy, but when in cultivation, if all shoots but one are cut away, a small tree will result in time.

This magnolia and all others are easily raised from seeds if these are properly cared for from the time of their ripening. This proper care consists of keeping them in a moist condition. As good a way as any is to wash the seeds free of pulp and then keep them over winter, mixed with damp soil. They can be sown in a greenhouse in February or in the open ground in the early days of Spring. In a greenhouse the seeds germinate in two to three weeks.

The *Magnolia glauca* has much to recommend it. It is nearly evergreen in the North, and quite so where freezings are slight; its flowering period is from May until July, and its blossoms are deliciously fragrant.

Green Ash for Street Planting.

The use of the green ash as a street tree in the prairie States was recommended years ago by the late Dr. Warder. It does not grow as large as the white ash, suiting it for a street tree; and being a native of the West, which the white ash is not, it is better in this way as well. The foliage of the green ash is of a shining green, differing in this respect from the white ash, which has higher colored leaves, greyish white on the under side. The foliage of the green ash falls earlier in Autumn than that of the white ash, but not before it can be dispensed with.

The green ash is *Fraxinus viridis*; the white, *F. americana*. Although the two sorts differ so much in foliage and appearance that they can be easily distinguished even when mixed in nursery rows, it is one of the commonest errors in the West to call the green ash white ash. Sending to old established nurseries there for either seeds or plants of white ash, one is almost sure to receive the green.

Mentioning seeds, it has been found that when these are sown as soon as ripe in Autumn seedlings will appear in the Spring, but if kept dry and not sown until Spring, a whole year will pass before the seeds sprout. But if kept damp in sand through the winter and then sown in Spring, seedlings may be looked for in a few weeks.

list. It is often said that just as they are about to make growth is the best time to plant them; but if the ground is in good condition so that it can be got to clasp the roots closely, the work is better done in early Spring. Unless the soil can be got to settle close to the roots evergreens will not do well at any time. The soil has to be dry enough that it will work in closely about the roots to make a success of the job. A method finding a good deal of favor with planters, as it deserves to, is to fill in about the roots of trees with sand. This insures close contact, and after the roots are well covered with this material, then the ordinary soil can be thrown in. In this way it is not necessary to wait for dryish soil, which fact permits of the planting the very first days of Spring. The trees are then well settled and ready to start into growth with others surrounding them, and usually make a fine growth, much superior to that of those set out ere.

Pyrus Malus Baccata.

There are so many *pyrus* species that have come to us from Japan and under such different names that there are but few horticulturists who can say precisely what any one kind really is. Before us is one sent out as *Pyrus Malus baccata plena*, but there seems something amiss with the name. *Plena* will not do, to commence with. The subject of our



Pyrus Malus Baccata Plena

Early Planting in Spring.

It is no wonder that customers who are experienced planters insist on getting their stock early in Spring, for all who are acquainted with the subject know that the success of the planting depends on this. Many argue that a tree in a completely dormant state does as well set out in late Spring as in the early days of the season, but this is not so. The date has much to do with it. In early Spring the newly set out tree does not meet at once hot and dry weather, as it is apt to do later on, so that whether dormant or not late planting is not as good for the tree as early Spring planting.

Nurserymen themselves are fully alive to the value of early planting. It is not now as it used to be, that the nursery rows are filled after orders have been attended to, but there are men whose duty it is to start planting as early in Spring as it is possible. There is this to be said too in favor of early planting, that such early budding trees as larch are then secure, while if left alone until later there will be losses and poor growth to submit to.

Evergreens may be included in the early planted

illustration is single-flowered, but other observers have said they have seen the same kind with semi-double-flowers. The remainder of its name may be allowed although, again, the *baccata* is supposed to represent a true species—the wild crab of Siberia. Whatever may be its true position as regards nomenclature, it goes under the name given at the head of this article; and it is a lovely small tree. In color the blossoms are of a light pink, quite like those of some of the fruiting apples; and what a display is made when the tree is in flower may be gathered from the appearance of the one illustrated. This is its habit of flowering every season; but we must admit we thought it more beautiful than usual when we had it photographed. Every one delights to feast the eye on the common apple when in blossom. An orchard in bloom is one of the sights of Spring. In the case of the Japanese *pyrus* illustrated, the tree being of but dwarf growth the flowers are brought near to one and are thus more enjoyed. And further its small growth enables one to plant the tree on lawns, among small growing trees and even among shrubs, where common apple trees would not be admitted. Nursery lists of today are embracing many of these Japanese *pyrus*, and both for their flowers and their fruit they are considered great acquisitions.

JOSEPH MEEHAN.

Flowering Magnolia Althæas Spiræa Van Houtte Tamarix Pyramidal Tree Box $\frac{1}{5}$ -ft. Tartarian Honeysuckle Barberry Thunbergii	<h2 style="margin: 0;">Nursery Stock for Florists' Trade</h2> <h3 style="margin: 0;">General List</h3> <p style="margin: 0;">of</p> <h2 style="margin: 0;">Fruit and Ornamental Trees, Roses, Shrubs, Clematis, Hedge Plants</h2> <p style="margin: 0;">Write for our Spring Wholesale Trade List</p> <h1 style="margin: 0;">W. & T. Smith Co.</h1> <p style="margin: 0;">61 Years' Experience 600 Acres</p> <h1 style="margin: 0;">Geneva, N. Y.</h1>	Crimson Rambler Baby Rambler General Jack Rose Soleil d'Or Rose Lilac, Purple and White Lilac, Rubra de Marley Deutzia Gracilis
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California Plant Notes.

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OUR NATIVE BAY TREE, *Umbellularia californica*, is too little known in the horticultural world. Where it is not hardy it could be as easily cared for as the European bay, *Laurus nobilis*. The foliage is not so broad and both bark and foliage are of a much lighter green than those of the foreign tree, while the aroma of the leaves is very much greater, and to the writer more delightful. The tree grows to an immense size near the coast, and seeds freely, the seeds germinating readily. It should have a place in every collection of plants, either in the conservatory or in the open.

CHELONE GLABRA is one of our attractive evergreen, perpetual blooming shrubs; light green in color both foliage and stems. The white flowers are borne in great profusion at all seasons of the year. It makes a beautiful background for dark-colored shrubs bearing red flowers. It is easily propagated from cuttings.

The three members of the Sterulia family of plants—trees, perhaps, would be more correct—as they grow here are so diverse in character that when seen out of flower few people would suspect they were in any way related. *S. diversifolia* does not show any diversity in foliage after it passes out of its seedling stage of development. As a street tree it is one of the most desirable, where the soil is a deep sandy loam, but when planted where the subsoil is hard pan or stony or gravelly it soon becomes diseased, and dies. The trunk is the most symmetrical in form of any tree the writer knows anything about. The roots, growing as they do, directly down, do not break up sidewalks and curbing, as do those trees whose roots grow in a horizontal direction.

S. acerfolia (Australian flame tree) maintains its leaf characteristics throughout its life. In its young state, growing in the open ground, it looks so nearly like *Aralia quercifolia* that it is difficult to distinguish one from the other. This tree when seen in full bloom is a sight never to be forgotten. About the time that the flower spikes appear it sheds its leaves. The scarlet blossoms are borne on stems 12 to 18 inches long, of a bright red color, too, though not so brilliant as the bloom. A peculiarity of this tree is, that it has no set time to flower; any time from June to November it is likely to do so, and some years not at all. Freezing will affect the young growth and injure the flowering buds, but three consecutive favorable seasons do not seem to change its erratic disposition. There are fine specimens here two feet diameter at base and fifty feet high. Both varieties will stand eight degrees of frost without injury.

The other variety, *S. platanifolia*, is deciduous. When planted in a deep, rich soil and given room for development, it is a magnificent tree. The flowers appear in early Summer, though not every year, in the greatest profusion in panicles two feet long. They are almost white, striped pink and yellow, curiously twisted. In this respect they differ from the symmetrical cup-shaped bloom of the two varieties before named. So also the seed vessels differ greatly. Those of the first two have a tightly-closed hard, brown-colored shell; those of the last are a soft clump of leaves containing perhaps a half ounce of fluid until the seeds are ripe, when this capsule bursts open and the seed is fast to the mid-rib of these leaves.

None of these subjects is drought-resistant in the sense that the term is used.

Another beautiful exotic which grows to perfection is the Carob, or St. John's bread, *Ceratonia siliqua*, an evergreen tree with dark green shining leaves, intensely persistent. It thrives in the dust and grime of

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NEW ORCHID-FLOWERED SWEET PEAS



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These are a distinct "break" in Sweet Peas, differing from the standard sorts by the extraordinary size of their flowers, usually measuring 2 inches across, and by the standards being crinkled and wavy, while the wings are large and spreading. Another splendid feature is that a very large percentage bear four blossoms to the stem, which are long and strong. To sum up, they possess every characteristic that can be desired in Sweet Peas, and will undoubtedly supersede standard sorts of same color as soon as they become more plentiful.

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Helen Pierce. This is the new gloxinia-flowered Sweet Pea, being marbled blue on a white ground, with the veins showing a little deeper, exactly like a mottled Gloxinia. 15 cts. per oz.; 50 cts. per ¼ lb.

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P. D. B.

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Note:—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert:
Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 sassed in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size." 50c. each; \$5.00 per doz.; \$35.00 per 100.

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Beautifully illustrated catalog, colored plate, etc., describing GROPP'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM, BERLIN, N. Y.

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PLANT CULTURE

PRICE \$1.00.

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350,000 CANNAS

TRUE TO NAME

Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

RED CANNAS			
A. Bouvier. 5 ft.	\$2 00	\$17 50
Baute Poltevins. 3 1/2 ft.	2 25	20 00
Chas. Henderson. 4 ft.	2 00	17 50
Crimson Bedder. 3 ft.	3 00	27 50
J. D. Eisele. 5 ft.	2 25	20 00
Explorateur Crampbell. 5 1/2 ft.	2 00	17 50
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PINK CANNAS			
L. Patry. 4 1/2 ft.	2 00	17 50
Martha Washington. 3 1/2 ft.	2 00	17 50
Mlle. Berat. 4 1/2 ft.	2 25	20 00
Paul Marquant. 4 1/2 ft.	1 75	15 00
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Admiral Avellan. 4 1/2 ft.	1 75	15 00
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GOLD EDGED CANNAS			
Mad. Crozy. 3 1/2 ft.	2 75	25 00
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Alsaec. 3 1/2 ft.	2 00	17 50
Peacelbow. 3 ft.	1 75	15 00
BRONZE CANNAS			
Black Beauty. 5 ft.	5 00	50 00
David Harum. 3 1/2 ft.	3 25	30 00
Egandallo. 4 ft.	3 25	30 00
Grand Rouge. 8 ft.	1 75	15 00
Musafolla. 8 ft.	2 75	25 00
Robusta. 5 to 8 ft.	1 75	15 00
Shenandoah. 5 ft.	2 25	18 00
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Allemania. 4 to 5 ft.	2 25	18 00
Anstria. 5 ft.	1 75	15 00
Italia. 4 1/2 ft.	2 25	18 00
Kronus. 5 ft.	2 75	25 00
Mrs. Kate Gray. 5 ft.	2 75	25 00
Pennsylvania. 5 ft.	2 25	20 00
King Humbert. 4 ft., 12 \$2, 15 00		

Full descriptions of above and fifty other varieties of Cannas mailed free.

ELEPHANT EARS
(Caladium Esculentum)
All sound and with eyes. 100 \$10.00
6-8 inches in circumference. 50 \$5.00
8-10 " " " " " 30 \$3.00
10-12 " " " " " 50 \$5.00
12 inches and up in circumference 10 00

ARTHUR T. BODDINGTON 342 W. 14th. St., New York

Summer-Flowering Bulbs

German or Japan Iris, write us for prices. We have the stock and can give you satisfaction.

JOHN LEWIS CHILDS, Floral Park, N. Y. Mention The Florists' Exchange when writing.

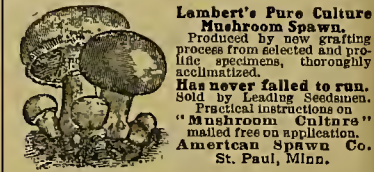
Gladioli—NOTHING BETTER ANYWHERE.
Cannas—VERY BEST SORTS.
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Paeonias—1200 sorts, finest sorts in liberal supply.
Send for a list of our offers.

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75,000 Gladiolus Bulbs

to 1 1/2 inches \$2.00 per 1000; Larger sizes at proportionate prices; all very fine light mixed Le-moines and Gandavensis. Cash with order.

I. & J. L. Leonard, Iona, N. J. Mention The Florists' Exchange when writing.



Lambert's Pure Culture Mushroom Spaw. Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized. Has never failed to run. Sold by Leading Seedmen. Practical instructions on "Mushroom Culture" mailed free on application. American Spaw Co. St. Paul, Minn.

CANNAS

10 varieties, dry bulbs, my selection.....\$2.00
Geraniums, 10 varieties, my selection, 2 and 2 1/2 in. pots.....3.00
Asparagus Plumosus and Sprengeri, 2 in., \$1.75 per 100. Cash.

JOS. H. CUNNINGHAM, Delaware, O.

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SCHNEEWITTCHEN

In the old "German Fairy Tales" "SCHNEEWITTCHEN" was Queen of the Fairies; and among the DAHLIAS this beautiful variety holds first place, as it possesses all the good qualities that go to make a true CACTUS DAHLIA.
Watch my ad. each week for named varieties of DAHLIAS from all parts of the world. Send for catalogue.
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PEACOCK HYBRIDS

A New Giant Race of DAHLIAS
All the best new and Standard Varieties. Send for 1907 Catalogue, now ready
PEACOCK DAHLIA FARMS
L. K. Peacock
Secy. and Gen'l. Mgr., Atco, New Jersey
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Brockton Dahlia Farm

Has the largest and finest collection of Dahlias in the United States, with prices that will suit the trade.

SEND FOR PRICE LIST

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DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON, Successors to L. K. PEACOCK, Inc. ATCO N. J.

CANNA ROOTS

Allemania, Shenandoah, Anstria, Henderson, Pennsylvania, Italia, Mito, Berat, F. Vaughan, \$2.00 per 100; \$17.50 per 1000. West Virginia, Mrs. Kate Gray, \$3.00 per 100; \$25.00 per 1000. Rubbers, 4 in., \$3.00 per doz. 5 in. \$4.00 per doz. Asparagus Sprengeri, 3 in. \$4.00 per 100. Hibiscus, 2 in. \$2.50 per 100, in variety. Ferns, 2 in. Boston, \$3.00, 2 in. Scott's, \$3.00, 2 in. Tarrytown, \$5.00 per 100. Colens Cuttings, 6c. per 100, \$5.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio
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Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

RAWSON'S SUPERB DAHLIAS

ARE KNOWN FROM MAINE TO CALIFORNIA

WE have a special DAHLIA FARM in Connecticut for the purpose of growing bulbs. This farm is under the supervision of a grower who has had experience with this flower for the last 25 years. We guarantee our bulbs to be true to name and are willing to replace same if they are found otherwise. We are offering this year nearly 250 varieties of CACTUS DAHLIAS alone, not mentioning the other classes.

We extend a cordial invitation to every Florist in the country during the Summer and Fall to visit our

Exhibition Farm of Dahlias occupying two acres, right in the heart of the old historic town of Marblehead, Mass., where we grow fully one thousand varieties of DAHLIAS for exhibition purposes only. Every Novelty of account, either European or American, may be seen.

**We do not grow Dahlias for quantity
but for quality.**

The demand for DAHLIAS as cut flowers has been steadily on the increase and some of the choicer

varieties of CACTUS DAHLIAS are prized as high as any of the choicest varieties of Roses.

Our Complete List of varieties with illustrations and descriptions covers 12 pages in

"Rawson's Garden Manual for 1907"

a catalogue which every florist should possess.

It represents the highest art of "American Catalogue Printing," as it is completely new from page 1 to 144.

We offer this season seven new American seedlings of DAHLIAS, which have created a sensation wherever shown last Fall and which The Florists' Exchange has considered important enough to mention at length in its columns.

Now that the "New England Dahlia Society" is an active and live society, the future of the DAHLIA is established and every florist in the country can add considerably to his income

by devoting a quarter of an acre or more to the cultivation of this profitable flower.

Never wait till the growing season is here, but let us book your order now, thus assuring you no disappointment.

CHOICE VARIETIES ARE ALWAYS SCARCE



W. W. RAWSON

W. W. RAWSON & CO.

HEADQUARTERS FOR DAHLIAS

5 UNION STREET,

BOSTON, MASS.

CARNATIONS

WELL ROOTED CUTTINGS, HEALTHY STOCK

PINK		WHITE			
Per 100	Per 1000	Per 100	Per 1000		
Lawson.....	\$1.50	\$10.00	Boston Market.....	\$1.25	\$10.00
Nelson.....	1.50	10.00	White Lawson.....	3.00	25.00
Nelson Fisher (cerise).....	2.50	22.50			
LIGHT PINK		RED			
Eachatress.....	2.50	22.50	Robert Craig.....	6.00	50.00
VARIEGATED		Cardinal.....	2.50	20.00	
Mrs. Patten.....	2.50	22.50	Estelle.....	2.00	17.50

ROSES Strong and Well Rooted Cuttings

Per 100 Per 1000		Per 100 Per 1000			
Richmond.....	\$1.50	\$12.50	Uncle John.....	\$1.50	\$12.50
Liberty.....	2.00	17.50	Chateau.....	1.50	12.50
Bridesmaid.....	1.50	12.50	Ivory.....	1.50	12.50
Bride.....	1.50	12.50	Perle.....	2.00	17.50
Sunrise.....	3.00	25.00			

ROSE PLANTS

From 2 1/2 inch Pots. Ready for Shipment

Richmond.....	\$3.00 per hundred	Liberty.....	\$4.00 per hundred
Bridesmaid.....		Perle.....	\$35.00 per thousand
Uncle John.....			
Chateau.....	\$25.00 per thousand	Sunrise.....	\$5.00 per hundred
Brides.....			\$40.00 per thousand
Ivory.....			

Peter Reinberg

51 Wabash Ave., CHICAGO

Mention the Florists' Exchange when writing.

PRIZE-WINNING

ROSES AND CARNATIONS

ROSES

The New Rose "Merion Grove," winner of the Silver Cup at Chicago Flower Show, 1906, for best new rose, will be disseminated in 1908.

	R. C.	2 1/2-in.	2 1/2-in.	3 1/2-in.
	Per 1000	100	Per 1000	\$55.00
Malds.....	\$18.00	\$4.50	\$40.00	\$55.00
Brides.....	18.00	4.50	40.00	55.00
Gates.....	18.00	4.50	40.00	55.00
Uncle John.....	18.00	4.50	40.00	55.00
Chateau.....	18.00	4.50	40.00	55.00
Richmond.....	20.00	4.50	40.00	55.00
Perle.....	20.00	5.00	45.00	60.00
Sunrise.....	20.00	5.00	45.00	60.00
Rosalind Orr English.....	20.00	5.00	45.00	60.00
Kaiserin Augusta Victoria.....	4.50	40.00	55.00	

American Beauties, rooted cuttings, March, April and May delivery \$3.50 per 100, \$30.00 per 1000; 3 in. pots, April, May and June delivery \$7.00 per 100, \$60.00 per 1000.

FROM HEALTHY STOCK

POEHLMANN BROS. COMPANY, MORTON GROVE, ILL.

Mention the Florists' Exchange when writing.

GRAFTED ROSES

Our roses are the finest and best grown. Liberty, Richmond, La France, Killarney, rose pots, \$15.00 per 100. 3 1/2 inch pots, \$18.00 per 100. Bride, Bridesmaid, Golden Gate, Kaiserin, rose pots, \$10.00 per 100. 3 1/2 inch pots, \$15.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Mention The Florists' Exchange when writing.

ROSES

The past two weeks of bright, clear weather has made a remarkable change in the appearance of the plants, and upon examination it will be found that a good many of them are breaking from the bottom. Keep them well tied, therefore, so that these canes can have plenty of light and air; and above all things give the plants plenty of food. As before stated liquid manure is the easiest to apply, though as the season advances a mulch becomes necessary as well to keep the plants from drying out too fast. The ventilators will have to be watched a little more closely if mildew is to be kept out. On bright, clear days shut off the heat quite early so that the artificial heat is not too strong when the sun fairly strikes the houses, otherwise too much air must be put on at once to keep the temperature from running too high, and the plants thus receive a chill. Paint a little sulphur on the heating pipes once a week as a precaution; do not wait till mildew puts in an appearance. Screen the sulphur through a mosquito netting and mix it with warm water; if well stirred up it is easily applied. A very small quantity of lime can be added to make it stick better.

Where the planting of young stock is to be done in June, the cuttings should be put in now to be just right in 4-inch pots. From present indications even larger plantings of Richmond will be made this year. This is about the easiest rose to root and grow; its only fault is that the flowers are hardly double enough to last well. But the growth and color are all that could be desired. Some growers complain that Killarney does not come well colored and is subject to mildew, but by growing it a little warmer in the daytime the flowers with us come as pink as those of Bridesmaid, and mildew on it we have not seen as yet. This rose certainly is a great producer, though one-year-old plants do not give as long stems as two-year-old ones. Care must be taken not to chill or overwater this rose, and the foliage must never remain wet over night, otherwise a large part of the leaves will turn yellow and drop. Both Richmond and Killarney are rank feeders, and if the plants are healthy from now on will take a large amount of feeding. As the foliage on these varieties is tough and hard, red spider is very difficult to dislodge, and unless the plants are syringed very thoroughly and often this little pest will soon ruin them.

PENN.

Roses! Cannas! Violets!

Roses. We have in stock upward of 1000 different varieties, consisting of the very latest European varieties, as well as all the leading varieties of American origin. Stock from 2 1/2 and 4 and 5 in. pots, all on own roots. Ask for catalogue.

Cannas. 40 leading varieties. \$10.00 per set and prices. 1000 and upward. Write for list and prices. Louisianna Cannas \$8.00 per 100.

Violets. Lady Hume Campbell, Princess of Avellan and Luxonne, nice strong plants, from 2 1/2 in. pots, \$3.60 per 100; \$30.00 per 1000.

Clematis Paniculata, two-year-old field-grown stock, strong plants, per 100 \$7.00, per 1000, \$65.00.

Cissus Discolor, nice plants, from 2 1/2 inch pots, per 100, \$4.00.

Cyperus Gracilis, from 2 1/2 in. pots, per 100 \$3.50.

Weeping Lantana, from 2 1/2 inch pots, per 100, \$3.50.

Viburnum Plicatum and a complete list of hardy shrubs, vines and miscellaneous plants of all kinds. Send us your list for prices. Ask for Catalogue—it's free. Address

THE DINGEE & CONARD CO., Rose Growers, WEST GROVE, PA. Established 1860. 70 Greenhouses.

Rooted Cuttings of ROSES

Richmond.....	per 100, \$1.50	per 1000, \$12.50
Kaiserin.....	" 2.50	" 20.00
Perle.....	" 2.50	" 20.00
Bridesmaid.....	" 1.50	" 12.50
Chateau.....	" 1.50	" 12.50

OUR CUTTINGS ARE ALL STRONG, HEALTHY AND WELL ROOTED. We sell 500 at 1000 rate. All cuttings shipped from HINSDALE, ILLINOIS.

BASSETT & WASHBURN Office, 76 Wabash Ave., Chicago

Grafted Roses

We offer this year the following assortment: Bride, Bridesmaid, Bon Silene, Etoile de France, Franz Deegan, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Mme. Abel Chateau, Mme. Caroline Testout, Mme. Hoste, Mrs. Pierpont Morgan, Maman Cochet, Marechal Niel, Perle Des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley. The above grafted from 2 1/2 inch pots \$15.00 per 100; \$120.00 for 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$60.00 per 1,000.

The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.

AMERICAN BEAUTY

On own roots, from 2 1/2 inch pots, \$8.00 per 100, \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

OUR GUARANTEE GOES WITH EVERY PLANT.

A. N. PIERSON, Cromwell, Conn.

Mention the Florists' Exchange when writing.

ROSES, pot grown, own roots, dormant, easy to force, 2 and 3 year old. Hybrids and Glos. in good mixtures. MONTELLIES: Agrippina, Bride, Bon Silens, Brabant, C. Cook, Hermosa, Kaiserin, La Philipp, La France, Liberty, Malmalson, M. Krueger, Cochet, M. J. Schwanz, Marie Van Houtte, M. Chateau, Pink Daisy, Safran, etc. OLIMBERS: Abel Carriere, Baltimore Belle, Dorothy Perkins, M. Nisi, Meteor, Mary Washington, Discophylla, Philadelphia Crimson Rambler, Pink and Yellow Rambler, Queen of the Prairie, etc., \$1.50 per doz.; \$10.00 per 100, in not less than eight varieties. Summers struck well rooted, dormant cuttings of above, \$1.50 per 100. GERANIUMS: Double Grand, La Favorite, 2 and 3 inch pots, \$2.00 and \$3.00 per 100. Tiffin, the best single scarlet, 2 and 4 in. pots, \$1.00 and \$2.00 per doz. Lantana, dwarf varieties, \$2.00 per 100, from 2 in. pots. Dracaena, Terminalia, Fragaria and Braziliensis, 2, 3 and 4 in. pots, \$1.00, \$1.50 and \$2.00 per doz. FEICNS, Boston, 3 and 5 in. pots, \$1.00 and \$3.00 per doz. Maidenhair, 3 in., \$1.00 per doz. Asparagus Pinnosus, 3 in., \$5.00 per 100. PALMS: Lantanias, 4 in., 6 in., Elaeagnus, Camarissus, 5 in., 75c. Kentia, Belemorana, 4 in. and Chamerope Excelsa, 5 in., 25c. each, or two each varieties (3 palms), \$4.00. Cash with order please. Extras added. N. STUDER, ANACOSTIA, D. C.

Mention the Florists' Exchange when writing.

GRAFTED ROSES

On Dicksons' Irish Manetti.

We are now booking orders for March delivery. KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND; \$12 per 1000.

Order Now

ROBERT SCOTT & SON, SHARON HILL, DEL. CO. PA.

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"Rosy Propositions"

Spring 1907 edition just off press.

Get your copy? Free to Rose Plant buyers.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO.

Mention the Florists' Exchange when writing.

Beautiful New Pink Rose

"Aurora"

See announcement and full description in Florists' Exchange, Dec. 8 issue.

PAUL NIEHOFF, Lehighton, Pa.

Mention the Florists' Exchange when writing.

The American Carnation Price \$3.50

A.T. De La Mare Ptg. & Pub. Co., 2 Duane St., New York

Mention the Florists' Exchange when writing.

Rooted Cuttings of CARNATIONS

Eachatress.....	per 100, \$2.50	per 1000, \$25.00
Lady Bonifantful.....	" 2.50	" 25.00
Lawson.....	" 1.50	" 15.00
Gov. Wolcott.....	" 1.50	" 15.00
Prosperity.....	" 2.00	" 20.00
Harivard.....	" 2.00	" 20.00

OUR CUTTINGS ARE ALL STRONG, HEALTHY AND WELL ROOTED. We sell 500 at 1000 rate. All cuttings shipped from HINSDALE, ILLINOIS.

BASSETT & WASHBURN Greenhouses, Hinsdale, Ill

LIST OF ADVERTISERS

Table listing various florists and nurseries such as Allen J K, Allen W S, Anon Spaw, Anderson J F, etc.

Table listing florists and nurseries such as Vaughan & Sperry, Vesey W J & M S, Vick's Sons James, etc.

INDEX TO STOCK ADVERTISED

Table listing various plants and flowers such as Abutilon, Ageratum, Alternanthera, Alyssum, etc.

Boston. School gardens was the subject in the lecture course at Horticultural Hall on Saturday, Miss Anne Wittington was the speaker.

About a dozen members of the Gardeners and Florists' Club attended the annual dinner of the North Shore Horticultural Society at Manchester on Friday.

Maurice Hambro, formerly with Houghton & Dutton, has opened a flower store on school street.

Club Meeting. There was an enthusiastic meeting of the Gardeners and Florists' Club at Horticultural Hall on Tuesday evening.

President Westwood occupied the chair, and many prominent growers were present and took part in the discussion on steam boiler legislation.

In the absence of the lecturer, C. W. Ross, who was unavoidably detained, his very able paper on "Road-making" was read by James H. Morton.

President Westwood appointed the following committees to serve for the year: Committee on exhibits—K. Finlayson, George M. Anderson, George Harbison, H. A. Stevens, A. H. Fewkes, Peter Fisher, R. T. McGorum, James Mitchell and John W. Duncan.

On the exhibition tables were the following, for which votes of thanks were given, high awards having been previously given for them.

Among Growers... Business Difficulties... California Plant Notes... Canadian News... Carnations... Catalogues Received... Changes in Business... Chrysanthemum Growing in the South...

Club and Society Doings... Cut Flower Prices... Decorative Plants... Dekema, J. S. (Portrait)... Eble, Charles (Portrait)... Jensen, J. E. (Portrait)... Lockerbie, R. (Portrait)... New England Dahlia Society... Nursery Department (Illus.)...

OBITUARY—Jonathan Aucock, Wm. A. Bruce... Packing and Express Rates... Petunia, The Queen (Illus.)... Retailer, For the... Readers' Views, Our... Reflections on Current Topics... Roses... Question Box... Seed Trade Report... Society of Southern Florists' Convention... Some Pollinating Experiments...

TRADE NOTES—Boston... Indianapolis... Newport, R. I., St. Louis... Chicago... Philadelphia... Cincinnati, Minneapolis, New Orleans, Rochester, N. Y., St. Paul... Week's Work, The...

STAMFORD, CONN.—Friends of H. Le Page, florist, will regret to hear that he met with a severe accident last week, while out coasting; the sled having been struck by a trolley car. The extent of Mr. Le Page's injuries has not yet been determined.

MANCHESTER, MASS.—The North Shore Horticultural Society held its sixth annual banquet at the town hall on February 15. About 150 members and guests attended.

The affair was very enjoyable and successfully carried out, John Baker, superintendent of the Essex county club grounds, being chairman of the entertainment committee.

FOR SALE

CONSTANTLY on hand, second-hand pipe with new threads and couplings; also boiler tubes without scale, ends cut square.

FOR SALE—Orchessome material and hot bed sash milled from Gulf Cypress to any detail furnished.

BOILERS, BOILERS, BOILERS. Several good second-hand boilers of standard make on hand thoroughly tested, complete in every detail.

FOR SALE CHEAP—Florists' refrigerator, 6 ft., 3 in. high; 4 ft. wide; 2 ft., 3 in. deep. Bird's eye maple, trimmed with cherry.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square.

FOR SALE—Pure Kiln Dried Sheep Manure, at wholesale and retail, also put up in packages expressly for retail trade.

FOR SALE

BOILERS No. 6 Weathered, round, \$60.00. One 8 section Sunray hot water sectional boiler, grade 3, Price \$160.00.

PIPE Good serviceable second hand. No Junk. 12 in. with new threads. 2 in. 70; 1 1/2 in. 50; 1 1/4 in. 40; 1 in. 30; 2 1/2 in. 100; 3 in. 140; 4 in. 180; 4 in. cast iron greenhouse 16c. 2 in. NEW standard full lengths, 16c. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy working. No. 1 cuts 1 1/4 in. \$4.00; No. 2 cuts 1 1/2 in. \$4.00; No. 3 cuts 1 3/4 in. \$4.00; No. 4 cuts 2 in. \$4.00; No. 5 cuts 2 1/4 in. \$4.00; No. 6 cuts 2 1/2 in. \$4.00.

PIPE CUTTERS Saunders, No. 1 cuts to 1 1/2 in. \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.60.

STILLSON WRENCHES Guaranteed. 12 in. grip 1 1/2 in. \$1.10; 16 in. grips 2 in. \$1.50; 24 in. grips 2 1/2 in. \$2.25; 36 in. grips 3 1/2 in. \$4.60.

PIPE VISES Read's Best Hinged Vise, No. 1 grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in. guaranteed; 30 ft. for heavy work, guaranteed; 12 1/2 in. New; Gulf Cypress, 3 ft. x 8 ft. 80c.; glazed complete \$1.80 per box. Second hand sash glazed \$1.00 and \$1.25, good condition.

GLASS New American, 50 ft. to the box. 10x12 single \$1.90. 10x12 12x12 10x16 B double \$2.65. 12x14 to 12x20 and 14x14 to 14x20 B double \$2.85. 16x16 and 16x18 B double \$3.00. 16x20 to 16x24 double \$3.25 per box. 6x6 7x9, 6x10 old, single \$1.60. 8 x 10 old, double \$1.85. 12 x 14 old, \$1.75.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

METROPOLITAN MATERIAL CO. Greenhouse Wreckers

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y. Company of Boston. The remainder of the evening was spent in dancing.

HARTFORD, CONN.—George A. Parker, superintendent of parks, is seriously ill at the St. Francis Hospital, where he has been for a little over a week. He was operated on for a carbuncle in his back and has since been very weak, suffering much pain a great deal of the time. It is thought that he is gaining ground slowly and will recover, unless some unforeseen complication ensues.

THE WEEK'S WORK.

Timme's Timely Teachings.

Among the Ferns.

Unmistakable signs of renewed activity in all parts of the fern house broken the nearness of Spring. It is now time to bestow special attention to a department which for months gave so little cause for exceptional exertion or undue anxiety. From now on a light shading on the glass is of benefit, not a heavy, light-absorbing layer, but merely enough to shield the freely pushing new fronds from the bright sunshine of approaching Spring. The wisdom on staging and benches should be relieved by a thorough-going over and resetting, always the most expeditious way of reaching every plant and every spot of rearrangement. Free play for effective rearrangement. You keep a sharp lookout about the crowns will find them near and about the mature of the smaller ferns, on the mature of the larger specimens, adhering to the sides of slimy pots and in darkened spaces and corners of old benches. If over-abundant, let it be a thorough-going clean-up with brush and soap, any kind if it has a fishy smell of whale-oil soap forms an objection. Ferns dislike over-potting. Large ones needing to be transplanted now, unless it had best be done now, unless they show whole crowns of new fronds just uncurling, when the operation may be deferred until this first growth is well developed. Small ferns can be repotted at any time from now until several short shifts in the spring until tember, if they are to grow quickly into good salable specimens. Seeding ferns should be pricked off as soon as in pans or pots, and the young ones they show the first true fronds springing from the core of prothallus or sporophary growth of the breaking them. These are best handled by clumps and gently up into little tufts or clumps and gently pressing them into the new soil, allowing reasonable space between the clusters for perfect development and separating the single plants later on when large enough for being potted up. Many varieties of ferns allow of speedy propagation by division, and a deal of his work may be undertaken to advantage. Adjoining are the various kinds, among these are the useful A. Farleyense, are slow the ever useful A. Farleyense, are slow in overcoming the setback in vital energy following the process of dividing old plants into as many pieces as there are small crowns. These later, before being potted up, must first be made to form roots and a few fronds, which is best accomplished by pricking them off in a tolerably warm but sparingly moist propagating case. No ferns should ever be potted thoroughly, but any excess in soil moisture offers a ready foothold for the most dreaded of all destroyers in fern, the malicious fungus mold, to house, which many of the species readily yield, and then again, the cleanliness and purity of air greatly contribute to the wellbeing of ferns as well as to that of all other kinds of plants, it is of great importance in the culture of ferns to avoid cold drafts, especially in the days of early Spring.

In the Palm House.

Holding the larger sizes of palms in a sort of inactive condition during the gloomy Winter season is a part of good culture. All the growth made during those short days is but a questionable gain. But now when all indications point to an early re-awakening of nature's creative forces, plant life under heated glass structures receives its first impulse, and of all plants thus emerging from a partial rest palms are foremost in responding to this mighty call. There is no time more favorable for an all around overhauling, cleaning and re-arranging of all the stock in this line than just now. The yearly repotting of salable palms is now in order, to be confined only to such as stand in urgent need of it. The over-potting of palms is a common practice, but nevertheless an unpardonable mistake. In the repotting of large palms well enriched, heavy sod compost is best, and firm packing essential. All the stock in palms of the smaller sizes requires frequent shifts and fairly warm quarters to grow it rapidly in the marketable sizes and grades. Most of the species, such as kentias, arecas, etc. assume a stouter bearing and less squatly shape by being closely stood together, when small, and somewhat stunted in room all along as they attain height, until the desired size is reached, when they should be afforded ample space for graceful spread. Latanas, coryphas, chamxrops, sabal, phoenix, rhaps, listonias and similar types require more room for perfect development, are therefore more expensive to raise on this account alone, saying nothing of their comparatively slow growth. This is one reason, one of greater force than the alleged preference of the public for kentias and arecas, why these latter are grown in such enormous numbers to the almost entire exclusion of the rarer species with such exceptions as latanas, cocos and phoenix.

The palm house now needs shading to avert a bleaching or burning of the fast developing new leaves by piercing sunshine, more liable to damage the tender new growth now after the continued siege of dark and dismal weather than in the days of Midsummer. A palm with but a single leaf disfigured through sunburn or careless handling has lost half of its value.

Rooting Rubbers.

A high temperature is necessary for the propagation of Ficus elastica. We have plenty of heat in the Summer, it is true, but cannot depend on its being as steady and regular as that supplied by our boiler throughout Winter, and therefore the propagation of all warm blooded plants always meets with a more decided success when undertaken in artificially heated houses than when attempted at a season when fire heat is not available. While firing is still in full swing and the near approach of the best growing season can also be figured upon as a helpful factor in the rooting of hothouse cuttings, and the loss of stock in work-cess when undertaken in artificially heated houses than when attempted at a season when fire heat is not available. While firing is still in full swing and the near approach of the best growing season can also be figured upon as a helpful factor in the rooting of hothouse cuttings, and the loss of stock in work-

There are several ways in which the stock in rubber plants may be increased. The rooting of the tops on lanky odd pieces is a method by which good-sized plants may be obtained in the shortest space of time. The stem at any joint below the upper crown of leaves is cut about half way through, a piece of wood or a kernel of grain is placed in the wound to keep it open, and around all is tied a handful of moss which must be kept constantly moist. The warmer the place in which plants so operated upon are kept, the sooner will their tops be rooted, usually in about 25 days, in a temperature of 75 degrees. The tops should not be cut off until the roots plainly show in the moss. Then after detaching them from the old plant, the cut to be made below the moss, they are potted up with the moss to be left on undisturbed, and if placed warm they will soon become thoroughly established.

The bare stems of the old plants, now devoid of top growth, if well ripened and not too long-jointed, can now be cut into single joints and these rooted in a pretty warm propagating case. These pieces will root quicker if there is a sound leaf to them. But altogether this is the slowest way of propagating rubber trees and does not always result in plants of shapely form and rapid growth.

The very best and quickest method to be employed in working up a good supply in this line of plants is the rooting of side shoots coming from the ripened wood all along the stems of topped plants, and called forth by keeping these fairly warm and somewhat on the dry side. When these little shoots show a few good leaves and have attained some substance they are taken off with a heel from the old wood, and inserted in a warm propagating case. Kept moist and not too close they will soon root, but must be kept in warm quarters until well established in their first pots, after which they are treated like all warm house plants that are beyond the risky period in their rearing.

Begonias.

A section of begonias somewhat neglected and slighted by commercial plantmen nowadays is the shrubby and semi-woody ones. Why begonias of this kind should be relegated to the rear is difficult to see. Most of them are Winter-flowering plants, of which we certainly have none too many. Then what a wealth of attractive diversity in foliage and flowers there is displayed in a well-chosen collection of varieties from this interesting class of indoor plants! And in view of the vital point in estimating their value, it cannot justly be said that they are non-paying stock commercially; at least not there where the character of the plant trade demands variety in what is offered to lovers and buyers of potted plants. I have not noticed that these begonias have ceased to attract buyers or lost in favor. That they are, with few exceptions, good dwelling house plants is well known, and this also must plead for them.

There are numerous varieties, all more or less easily managed, and I advise retail growers who so far have not thought it worth while to add this class of begonias to their stock in trade, to order a few of each, give them fair attention, and let their customers see them when they are at their best. Here are a few of the handsomest and best known varieties: Begonia Sandersoni, B. Gilsoni, B. incarnata, B. Thurstoni, B. suaveolens, B. Nightingale, B. maculata, B. rubra, B. mallica and B. semperflorens gigantea. All these will do finely during the Winter in a temperature of 60 or 65 degrees, if afforded all the light possible with plenty of room between the plants and a reasonable amount of moisture at their roots. This is the best time for propagating cuttings, where the stock plants are at hand. Side shoots or the tops of branches are used for the purpose, and they strike roots in a few weeks in any fairly warm propagating bed. Potted up when well rooted, shifted

along as they grow and never over-watered, they rapidly grow into size. In the Summer, with some slight protection against fierce sunshine, they do well in an open frame. Here they will need some close attention as to watering and also in long continued spells of heavy rain, when covering becomes advisable. By growing them into size in the open field during the warm part of Summer and potting them up early in the Fall, large plants are obtained.

Cinerarias.

No plant objects to real forcing so much or is more surely spoiled by it than Cineraria hybrida. I have seen them do a deal of growing in a house with no more than 40 degrees of heat, and cinerarias will at all times be finer plants if their main growth has been made in a low temperature than when given the regular greenhouse accommodation. If well grown they are the showiest of Easter plants, especially if particular care has been given to obtaining the finest strain of seeds when making the first start. Those intended for that holiday should plainly show their buds now, and in that case 45 degrees from now on should be the maximum point under fire heat, while a few degrees higher on sunny days will do no harm to any so far advanced. Plants fast becoming pot-bound and getting ready to bloom need frequent watering; but any over-generosity in liquid feeding should be avoided. What will do them more good is plenty of elbow room, a stand close up to the light, a thick layer of fresh tobacco stems between the pots and all the air that it is possible to give without calling into play cold currents or sweeping drafts. A shading at the brightest hours on sunny days will also be of benefit.

In Cineraria stellata we have a class much less exacting in its cultural requirements than the hybrids of the foregoing type. The plants are taller, not so much troubled by aphid, stand quite a deal of reasonable forcing, and can also be brought into bloom at Easter. It is a desirable kind for the retail grower, because it not only a good indoor plant but also eminently serviceable for decorative purposes, enduring rough handling fairly well. And, finally, these cinerarias produce flowers that admit of being used in a cut state, very effective and long-lasting.

Reminders

Transplant thickly sown seedlings into other boxes before they become too lanky, such as lobelias, petunias, etc. Cyclamens sown last Fall will soon be ready for pots. Do not plant deeper than up to the middle of the little bulbs. They will now need a light shading on bright days.

Gardenias for planting in June should now be in 3-inch pots and will need another shift in April. Anthuriums now need much water and a humid atmosphere at all times. Old plants can now be divided.

Eucharis amazonica, if individual specimens are to be of uncommon size, should now be replanted. In dividing worn-out plants, several bulbs may be planted together.

Start now the bulbs, corms and tubers of fancy caladiums, tuberous begonias, gloxinias and achiemenes.

Cannas and Dahlias need not be started before another week or two, unless wanted very early.

Nip away the fresh growth appearing on azaleas held back for Easter. The seeds of Ardisia crenulata may now be sown.

Do not neglect the frequent sprinkling of lilacs and other hardy flowering shrubs under forcing.

Seeds of mignonette, candytuft and stocks sown now will amount to good plants for Memorial day.

It is not yet too late for the propagation of Dracena terminalis, while steady firing is on.

Keep geraniums cleaned of dry and dead leaves and once more pinch back the lanky growth.

This is a good time for the propagation of bouvardias, either by pieces of the roots or by cuttings.

Order now what you may need in young stock. FRED. W. TIMME.

NEPHROLEPIS

Whitmani, 2 1/2 in., \$10.00 per 100.
Boston, 2 1/4 in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass.
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Write for Price List.
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ELEGANTISSIMA FERN RUNNERS

Very fine stock, \$1.50 per 100; \$12.00 per 1000.
TARRYTOWN, Bench, 2 1/2 in., 4c.; 3 in., 10c.; 4 in., 15c.; Runners, \$1.50 per 100.
SALVIA, Bonfire, Silverpot, Splendens, 2 in., 2c.

ROOTED CUTTINGS, prepaid per 100.

Paris Daisy, white, \$1.00; Alexandria, \$1.25.
Fuchsia, 5 kinds, \$1.25. Ageratum, white, Gurney, Pauline, 60c. Vinca Variegata, 90c. Salvia, Bonfire, Silverpot, Splendens, 90c. Alternanthera, 3 kinds, 50c. Heliotrope, 3 kinds, \$1.00. Rex Begonias, 20 kinds mixed, \$1.25. Flowering Begonias, 8 kinds, \$1.25. Parlor Ivy, 75c.; Double Petunias, 10 kinds, \$1.00. 'Mums: Trantor, Alliance, Weeks, Enguehard, Pacific, Appleton, P. Rose, Silver Wedding, and Golden Age, \$1.25.

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BYER BROS., Chambersburg, Pa.
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FERNS MY SPECIALTY

Please notice the big reductions, Cibotium Schiedel, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:
3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100;
5 in. pots \$60.00 per 100; 7 in. pots \$100.00 per 100.
Large specimen, 55.00 each.
Adiantum Regina, a beautiful fern, also called the Hardy Farleyense, 4 in. strong plants, \$25.00 per 100; Adiantum Rhodophyllum, 4 in., \$20.00. Assorted ferns for jardiniere, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate.

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Large stock of strong plants, 2 1/2 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

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3 inch pots.....\$ 8.00

SCOTTII

2 1/2 inch pots.....\$ 5.00
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KENTIA FORSTERIANA

4 inch pots, made up, strong and bushy.....\$25.00
5 inch pots, made up, strong and bushy.....\$ 50.00

No order for less than 10 plants accepted.

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BOSTON FERNS

Very fine bushy stock from 6 in. pots 60c.; 7 in pots \$1.00; 8 in pots \$1.50; 9 in. pans \$2.00.

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Grower of Palms, Ferns and other
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Nephrolepis Scottii all the year round

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Adiantum Farleyense

The Very Best Only

5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 per dozen.

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FERN SPORE

35c. pkt.; \$4.00 per dozen. Ferns, from 2 in. pots, \$3.00; 3 in. pots, \$6.00 per 100. Asparagus Plumosus Nanus Seedlings, \$1.00 per 100; Sprenger, 75c. per 100. Both sorts from 2 in. pots, \$2.25 per 100; 3 in., \$3.00 per 100. Strong seedlings of Salvia Bonfire, \$1.00 per 100. Cash with order please.

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Price, \$1.50 Postpaid

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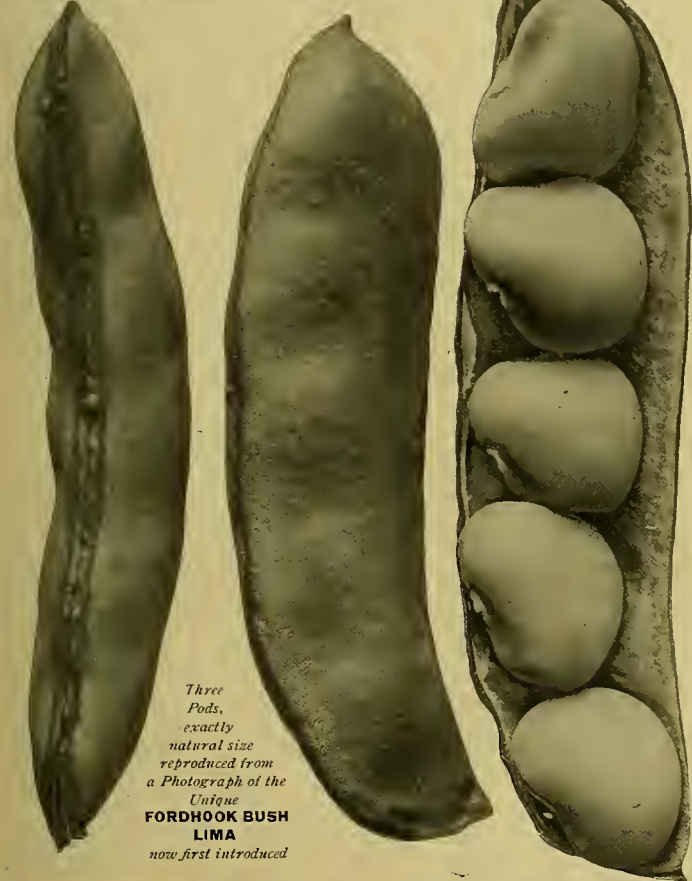
Two Unique "New Creations" in Bush Limas!

FORDHOOK AND THE BURPEE-IMPROVED,— Both of which are entirely "New Creations!"

NATURE with her millions of crosses, occasionally surpasses any efforts of the most successful hybridizers. These wonderful Novelties, now exclusively introduced by us, have been bred from two plants (one of each type) discovered in a crop of Challenger Pole Limas, in 1903, by our friend Henry Fish, of Santa Barbara County, California.

BURPEE'S BUSH LIMA, originating in Chester County, Pa., *blazed the way* for the wonderful popularity of the Bush Lima to-day. Since then improved selections have been developed,—notably *Burpee's Quarter-Century Strain*,—but little did we think that Nature would so completely eclipse all the efforts of man, and directly from the *parent pole Lima* produce in distant California two new types that would surpass not only all other Bush Limas, but—in size of beans—all existing pole Limas!

These Two Bush Limas are sold only in sealed packets. Each packet contains twelve perfect hand picked beans. **Per pkt. 25 cts.** With our discount of one-third these two Bush Limas will be mailed to Market Gardeners and Florists at the net rate of any 3 pkts. for 50 cts.; 6 pkts. for \$1.00, or \$2.00 per doz. pkts., assorted as desired.



Three Pods, exactly natural size reproduced from a Photograph of the Unique FORDHOOK BUSH LIMA now first introduced

The New Burpee-Improved Bush Lima

"This is the finest Bu. Lima that has ever been introduced.

The bush is sturdy in habit and twenty to twenty-four inches high, with large leaves. It bears its beans on long spikes in very prolific clusters, well out from the plant. There are from four to seven pods in each cluster and often as many as eleven. Each pod contains three, four, or five beans, and there are more pods containing five than there are containing three beans; so that there is an improvement of from one to two beans in each pod, and this, taken with the greatest number of pods borne, makes the yield enormous. In quality this bean ranks with the very best and the beans are of large size. In earliness it comes between Henderson's and Burpee's Bush, and is about a week earlier than the latter variety. This bean is bound to be the greatest, most popular Bush Lima,—a continuous bearer."

Quoted verbatim from Report sent us August 29, 1906, when the crop was inspected (between the time of our two visits) by our friends, MESSRS. C. C. MORSE & CO., the well-known seedsmen of that state. After the writer had returned from Santa Barbara County, in July last, he met the son of "the discoverer" in the office of The Morse Company, San Francisco. Mr. Morse was so interested in the story of these New Beans that he said he would have the crops examined, although his firm had no pecuniary interest in either variety.

Fordhook Bush Lima

"This bean is of the type of Dreer's Bush Lima, which it most nearly resembles. Its height is from twenty-two to twenty-four inches, and it bears its beans in clusters of two to five well out from the plant on long spikes. There are from three to five beans in each pod with an average of four. The beans are round and thick like those of Dreer's Bush and have the same mild, delicious flavor. This bean (like the above) is far ahead of anything which anybody has known in Lima beans up to the present. Its productiveness is far ahead of Dreer's Bush,—is earlier by four or five days and is better all around."—Quoted from letter dated August 29, 1906, of MESSRS. C. C. MORSE & CO., San Francisco, California, after their representative had inspected the crop.—see note above. For our own description see page 12 of BURPEE'S FARM ANNUAL.



Pods, Natural Size, of THE NEW "BURPEE-IMPROVED" BUSH LIMA

One Thousand Dollars in Cash Prizes

Never before in the history of the Seed trade have there been presented two such unique REMARKABLE NEW VEGETABLES! We are determined, therefore, to have their merits established in this first year of their introduction. With one prize of \$150.00,

—several of \$50.00 each, and other liberal cash prizes,—we will pay, on these two new Limas, this season, more than

One Thousand Dollars—see page 199 of BURPEE'S FARM ANNUAL for 1907

"The Leading American Seed Catalog"
The "Silent Salesman" of the world's largest mail-order seed trade. An Elegant New Book of 200 pages with hundreds of illustrations from photographs, it tells only the plain truth about the very best SEEDS THAT GROW. It describes Grand Novelties in Flowers and Vegetables, of unusual importance, which cannot be obtained elsewhere. If interested, write to-day, name The Florist's Exchange,—and the book is yours.

BURPEE'S NEW BLUE LIST

Most complete of all wholesale catalogs of Seeds, gives special prices to Florists and Market Gardeners. If you have not received a copy, write to-day.

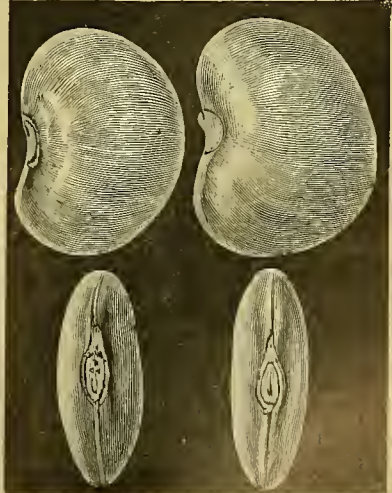
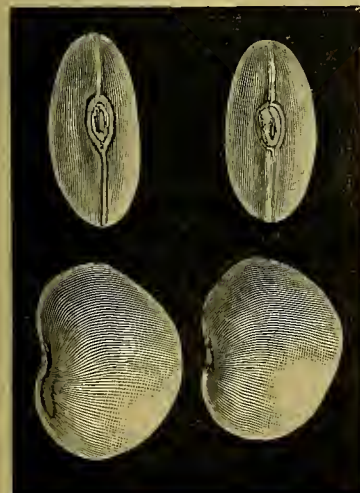
With our usual discount of 33 1/3 per cent. on Retail Packets, Florists and Market Gardeners (who order early!) can obtain THESE TWO NEW BUSH LIMAS any 3 pkts. for 50c.; 6 pkts. for \$1.00 or 12 pkts. for \$2.00, (assorted as desired), and sent by mail postpaid.

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Seedsmen and the Trade in General

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

Obituary

Jonathan Aucock.

Jonathan Aucock, one of the pioneer florists, and a well known and highly esteemed resident of West Utica, N. Y., for many years, died at his home, 178 Steuben street on Friday, February 15, 1907. Mr. Aucock had been ailing for some time. His death was due to heart trouble and the infirmities of age.

The deceased was born in Yorkshire, England, and was in his 79th year. He came to this country over fifty years ago and located at Annandale on the Hudson, where he had charge of a large estate as landscape gardener for about ten years. He then moved to Utica, N. Y., and purchased a farm on the Champlain road which he conducted for about ten years and then moved to upper Whitesboro street where he started in the florist business, and was the only florist in that section of the city for a number of years. Later he conducted the same business on Columbia street. About twelve years ago he sold out his business to William Pfeiffer, who now operates it.

Since his retirement from the florists' trade Mr. Aucock had busied himself in landscape work throughout the city. He was of a cheerful disposition and there is a very large circle of friends who will regret to learn of his death. He was the first president of the Utica Florists' Club and of late years had been an honorary member of that organization. He was formerly a member of the old St. George's Society.

Besides his widow Mr. Aucock is survived by three sons and one daughter.

William Adams Bruce.

William Adams Bruce died at his home in Jersey City, N. J., on Tuesday, February 12, 1907. He was born in Brechin, Forfarshire, Scotland, in 1865 and served his apprenticeship as a seedsmen with James Young in that city. After coming to America Mr. Bruce was employed with the Cleveland Seed Company, subsequently with Peter Henderson & Company, with which firm he remained ten years, later with James M. Thorburn & Company, as shipping clerk for about a similar period. Interment was in Bay View Cemetery, Greenville, N. J., on Friday, February 15. Mr. Bruce, who was well and favorably known by many in the trade, leaves a widow and two children to mourn his loss.

The Proposed National Flower Show.

The committee of fifty, with ex-President Wm. F. Kasting as chairman and P. J. Hauswirth, secretary, appointed by the Board of Directors of the S. A. F. O. H., at a special meeting held in Chicago on November 8, 1905, are bending their energies to have the full amount of the necessary guarantee fund of \$10,000 subscribed before the date of the annual meeting of the S. A. F. O. H. directors, which takes place on March 11 next. About \$6,500 has now been subscribed; and in order that every one interested may have the opportunity to participate in the affair, the committee has set the minimum amount of the subscription at \$10.

It is confidently believed that the proposed exhibition, which it is intended shall be held in Chicago in November, 1908, will be a financial success, and that it will be possible to return to the grantors the full amount of their contributions. Any surplus is to be paid into the treasury of the S. A. F. O. H.

The object of this guarantee fund is to relieve the active management of the show of all financial annoyance and responsibility; and as no actual work can be undertaken until the full amount of \$10,000 has been subscribed, an early response to the committee's appeal is respectfully requested.

The full importance of such a show to the trade in general and to the S. A. F. O. H. in particular cannot be overestimated. It has long been the desire of those most interested in the welfare of the society that exhibitions of the character contemplated should be held under the auspices of the national organization. They have felt that such shows would create an interest and enthusiasm in the work of the society that could be brought about by no other means; and that in no other or better way could the S. A. F. O. H. contribute to the benefit of those engaged in the business generally.

Now that an earnest endeavor is making along these lines, an effort that is meeting with much approval as is evidenced by the amount already subscribed to the guarantee fund, it behooves every supporter of the S. A. F. O. H., and those who are its beneficiaries, both directly and indirectly—which means every man and woman engaged in this industry—to do their duty by the society, toward bringing about the culmination of an event which tends so much to the organization's own well-being and usefulness as well as to the general weal.

Subscriptions toward the guarantee fund will be received and duly acknowledged by Wm. F. Kasting, Buffalo, N. Y.

The list of subscribers as reported to January 1, 1907, is as under:

W. H. Elliott	100	Kroeschell Bros.	100
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In the classic words of the committee's circular, "Get busy and get your names with the bunch."

PAMPHLETS RECEIVED.

INSTRUCTIONS FOR ERECTING GREENHOUSES. Issued by John C. Moninger Company, Chicago.

While the instructions furnished in this interesting pamphlet primarily apply to the material supplied by this enterprising house, yet there is much information given that will be found generally serviceable. Those who contemplate building greenhouses should send for a copy of the booklet to the Messrs. Moninger, enclosing ten cents in stamps. As the firm says in its introduction the publication "does not aim to give a complete set of rules nor does it pretend to cover all the details, but if you follow the instructions closely you will not go very far wrong in the erection of your greenhouses." Mention this paper when you write the firm for a copy of the pamphlet.

OUR READERS' VIEWS

Sports.

Editor Florists' Exchange:

I have not been able before this date to catch up my horticultural reading enough to be able to give you an opinion on Mr. O'Mara's discussion of "Sports" in the December issue of The Florists' Exchange. I have now read the article. I am always glad to read the opinions and experiences of persons who are directly concerned in the production of plants in a commercial way. I like both the facts that such persons are able to present and also their point of view; therefore, I have been very much interested in Mr. O'Mara's article.

If we are to use the terminology of DeVries, I suppose we should say of the roses, bouvardias, ferns and other plants that Mr. O'Mara mentions that they are in their "mutation period." This phrase gives us no explanation of the ultimate or physiological causes of sporting, but it enables us somewhat more clearly to classify our ideas concerning the subject. DeVries supposes that plants may be in a sporting or mutating period for a certain number of generations, and thereafter they may pass out of this stage into one of relative stability. This means that the sporting in some way is associated with the internal or essential constitution of the plant, and is not due primarily to local external conditions. DeVries classifies variation into two categories; the small individual variations or fluctuations that are presumably due to environment and which may be "improved" to a certain extent by selection; the real mutations or sports, the origin of which is farther back and at present unknown, which are usually more pronounced and are hereditary in their essential attributes. It is probable that the Mendelian would explain some of these sports on the theory of the reappearance of recessive characters.

What we now need is a thorough study of the facts concerning sports. We need data or records in regard to the kinds of sports and under what observed conditions they seem to appear, whether they are permanent or tend again to break up; and what is the nature of the difference between them and their parents. The gardeners can render a distinct service in making such records.

Cornell University.

L. H. BAILEY.

Dahlia Sports.

Editor Florists' Exchange:

Some time ago Patrick O'Mara brought forward the subject of sports; but, unfortunately, other questions seemed to be of greater importance, and little was brought out about this most interesting part of nature, except that the scientist knew practically nothing about it. Now a practical man, and one quoted as an authority says: "Although the dahlia is very much inclined to sport, yet all attempts to fix these sports into a new variety have been fruitless."

This coming from such a source is amazing. There is no difference between a sport in dahlias and a sport in any other flower. It would have been nearer the mark to say, all attempts to keep fancy dahlias to a fixed type have been fruitless, because they are so determinedly inclined to vary or sport and it is only through constant selection and judicious propagation that they can be kept to their true type. Else this authority should have said that his attempts had all been fruitless, as we should not attempt to judge others by our own limitations.

On the other hand, when a fancy dahlia sports to a solid color, its character generally becomes fixed, or by careful selection and propagation along scientific lines easily becomes fixed. Many examples could be given, but my experience with the fancy dahlia Dandy should be sufficient.

This variety was a rose pink striped dark maroon, shaded black. By careful selections we soon fixed the dark type, which was called John Sladden; but, we had great trouble with the true type. It began to give not only solid black, but solid pink flowers. The black always stayed black but the pink continued to vary. Six years constant selections were required to get the variegated type 95 per cent. true. In the meantime we had fixed the pink type, Pink Dandy. The second year we propagated the Pink Dandy, it sported pure white and was called White Dandy.

From this one fancy dahlia Dandy we have the black, John Sladden, Pink Dandy and White Dandy, all fixed and recognized commercial varieties; results certainly anything but fruitless.

What is a sport? What is a variation? You can improve a variety by selection or you can develop two or more strains by selections on different lines. This is variation, and is so controlled that it is impossible to fix any type so it cannot be changed by conditions and environment.

A sport is the work of nature and although man can help and even encourage it, yet it is beyond his control, strictly speaking.

The sport is undoubtedly the connecting link between bud and seed variation. Who can tell me the difference between sport and seedling? The eye of the stem, the eye of the root or crown, and the eye of the seed, each properly handled will produce a plant. Under certain conditions the seed

will reproduce itself as exactly as the top cutting or the root division. In fact, with the possibility of variation or sport neither would be absolutely sure to reproduce themselves.

The latest sport in my experience was last September, when I found a vermillion sport of Hohenzollern, and another with half of the flowers vermillion. The peculiar part of this was, that the sport was identical with Cloriosa, showing that Hohenzollern raised in Germany, and Cloriosa, of English origin are identical except in color. Can the scientists figure back to the common parentage? Nature has united the progeny.

In conclusion, man has his limits and without nature all his efforts will prove fruitless; but nothing is impossible with nature, and she will fix sports of dahlias, man to the contrary notwithstanding.

LAURENCE K. PEACOCK.

Atco, N. J.

Mixing Carnation Pollen.

Editor Florists' Exchange:

The statement that carnation Winsor was the ultimate product of a cross involving the use, at one and the same time, of pollen from two different varieties, is certainly fit cause to let the hybridizers and raisers of seedling carnations come forward, show and prove to the fraternity the possibility or impossibility of such a cross. All raisers and hybridizers of plants are aware that there is still chance to explore an almost entirely new field, when we come to reduce to final laws the different effects of our efforts at hybridizing and cross-fertilization. At the same time, though, we should be careful about promulgating any statements like the above, not only because it does not prove what it implies, but mostly because, in our estimation, it is actually contradictory to all known laws of fecundation; certainly none of us have ever heard of anything having two fathers, as a fact.

Of course, it is easy enough to collect and intermingle pollen from different flowers or varieties and apply any part of this mixture at the same moment to the same stigma. This probably has been often attempted purposely in fertilization, and where insects or winds are natural agents must necessarily occur in untold instances; but pollen employed in this way is not "mixed pollen" in the sense of the statement in question. A mixture of pollen from different flowers or varieties may and most times probably will effect either cross-fertilization or hybridization, accordingly, through the agency of any of the different pollen grains getting a chance of becoming the father of one particular seed.

It may also be possible, and observation seems to prove it, that when any of the several stigmas or even different parts of one stigma have been impregnated by individually different pollen grains, one seed pod may produce seeds which, after germination, will plainly show that the different varieties of pollen have left their mark, each on its particular ovule. In this way, we may simultaneously produce crosses between, say, J. H. Manley, Queen or Mrs. Lawson on Enchantress, all at one time and in the same seed pod.

But all this does not mean "mixed pollen" according to the interpretation which we are forced to arrive at, when the matter of two fathers comes to our notice.

Mixed pollen in this sense would let us infer that the pollen from Albertini and Daybreak had been (naturally or forcibly) amalgamated into one homogeneous pollen grain capable of performing the act of fecundation. This we may say without fear, is an impossibility and against all laws of nature as at present understood. Making one of the two would naturally presuppose the destruction of both, and the subsequent formation of their matter into one pollen grain. One grain only ever acts in the fertilization of one ovule.

If we reject an interpretation of "mixed pollen" in the resulting seed. There has never any theory of the pollen grains from Albertini and Daybreak acting on the receptive part of the ovule of Lawson at one and the same time, and each of the two different pollen grains asserting its influence in common with the other and so as to show each its own particular characteristics intermingled with it in the resulting seed. There has never any theory come our way, which even hinted at such a possibility.

As for ourselves we have so far not tried to give to one seed two fathers. Come to think of it, there might be lots of trouble in the end, in such a proceeding. Let us suppose a seedling takes a little more after one of the fathers and we keep it on that account, put it on the market at a good stiff price and after a while the thing gets disgusted with that particular parent and takes after the other, which happens to be of a disreputable character, where will the disseminator get it? If we grant that it is possible to give our seedlings two fathers, then we may easily understand why many have behaved so disgracefully after we were sure of having a good thing.

Very likely Mr. Murray will explain the parentage of Winsor in accordance with the editor's note on page 109.

GUSTAVE THOMMEN,

Foreman at Patten & Co.

Tewksbury, Mass.

That Burbank Letter.

Editor Florists' Exchange:

Mr. Burpee's communication makes very interesting reading, and throws considerable light on some things in that "strictly private" letter on page four of The Florists' Exchange which were before rather obscure.

On reading first that "postscript" and then the "strictly private letter" it will be noticed that the ideas of Mr. Burbank do not quite coincide with those of Mr. Burpee. For instance, that "mutual friend" is characterized by Mr. Burbank as "old-fashioned, bigoted and ignorant"; evidently not much friendship there, "mutual" or otherwise!

Mr. Burbank then proceeds to administer a sharp rebuke to Mr. Burpee for his admission "that Nature can surpass even the most skillful hybridizers." Evidently Mr. Burbank takes this as an insult, and informs Mr. Burpee that, "though I (emphasis on the I) may be self-confident, I can readily prove that my experiments in new creations are fully as successful as those of Nature herself!" It is to be hoped that Mr. Burpee will know better next time.

Mr. Burpee need not trouble himself about the "faith of your correspondent," as it cannot be used for advertising purposes; and regarding my belief in the "literal interpretation of the Bible narrative of the creation" I certainly believe it, and can see no reason for not doing so. Scientists have from time immemorial been advancing theories which have one after another proved to be fallacies. Many instances of this could be given. Obviously there are a great many things in the constitution of the Universe which we don't quite understand. But I don't see why it should be impossible for Mr. Burpee to believe that nice Bible story. One who can believe that Burbank creates hens, as he claims to do, would be expected to believe anything. The word "create" in the Bible always signifies making something out of nothing, which is the real meaning of the word. When means are used to attain an end the result can not be called a creation, therefore, even if Mr. Burbank laid the eggs himself and hatched them after twenty-one days and nights patient "sitting," it would be ridiculous for him to claim that he had created hens; he would only have chicks after all, and I doubt if he would make good once in a hundred times at that; he had better refrain from trying to usurp the prerogative of either the hen or the rooster.

This brings to mind the story of the New York alderman, who, when it was suggested that twenty gondolas should be bought for Central Park lake, argued that it would be far more sensible to buy two, a male and female, and "let nature take its course."

It is a pity that a man of the calibre of Mr. Burbank evidently is should be suffered to bring ridicule on a profession which has hitherto maintained a dignity second to none. His achievements so far do not entitle him to be classed higher than a fourth-rate plant breeder. The assertion in one of the magazines that "with one stroke of his wizard's wand he could transform the desert into a fertile plain," is as ridiculous as his own claim in his letter to Mr. Burpee that he "creates" hens and plants.

JOHN BIRNIE.

Reflections on Current Topics.

MR. EDITOR:—In common with most of your readers, I presume, I have immensely enjoyed reading the capital report of the American Carnation Society's Toronto convention and exhibition appearing in your columns. Not only is it the work done by this society per se that is interesting, but the aftermath of criticism on what was accomplished and left undone also proves instructive. I remember when the society was able to get through with all of its business on one day; now two are insufficient, and three days are proposed; showing the greatly increased enthusiasm in the carnation cult and the consequent added responsibility of the society itself.

The certificate question seems to have received its quietus, at Toronto, so far as the Carnation Society is concerned; but the decision arrived at does not appear to be generally satisfactory. The society's committee is accused of lacking boldness and courage because they did not recommend some plan of inspection of new varieties at growers' establishments. The society's decision to refrain from "nosing" into a man's business, seems to me to be a wise one; and to the belief to the contrary may be applied the adage "fools rush in where angels fear to tread." I believe it is generally conceded that no one knows a variety and all that to it pertains better than he who lives with it from day to day, therefore, to doubt his statements concerning it, advance on his establishment surreptitiously to discover and prove whether he is a liar or a truthful person, seems to me to simply insult his manhood. Fraud will regulate itself; and there are few who do not believe "honesty is the best policy" after all, and conduct their business affairs accordingly. Woe betide those who do not!

The reports concerning the banquet at Toronto have also proven interesting reading to me. One participant relates that the now famous feast was "more like a state function," and that every speaker "was a man." The latter statement may imply that on previous similar occasions some of the orators may have been of the opposite sex; or perhaps, worthy of the epithet applied to certain male individuals on account of their volubility—old women. I for one am glad the Canadians selected all "men" for their post-prandial speakers. We may now have, if this example is followed, some

common sense comments in the "feast of reason and flow of soul" instead of fulsome adulation and insincere "nothings" that make up the bulk of after dinner so-called orations.

At Toronto, too, one effort is characterized as "a classic." That shows what a man outside a good square meal can accomplish. It is too bad, though, that this "gem of purest ray serene," should not see the light of day. Being so uncommon on occasions of the kind, it seems to me, on that account alone it deserves the greatest publicity. Deepest oblivion should not be its fate. Can't we have it, Mr. Editor?

Brother McGorum I see, thinks that I share the views of his country's one time pedantic ruler—that the King can do no wrong. Only Scotsmen tolerated and embraced that belief; and it sticks to them yet, both as regards sovereign and subject. No, sir; I am in accord with the scientific experts these days, that anyone afflicted either with the "exaggerated ego" or "logorhœa" (flow of words) is a fit subject for the nearest lunatic asylum. Strange that the results of these ailments when they disclose themselves among trade press scribes, should be termed "wisdom," rose house, and other kinds, so much does the lay mind differ from that of the scientist.

Mr. McGorum also suggests that along with himself, John Birnie, George Watson, and others, I partake of what he calls a "haggis," at the Philadelphia convention of the S. A. F. O. H. I am ignorant of what that particular animal is; but as it appears to be something of which only the Scotch are fond, I have a premonition that I myself would detest it. I therefore decline the invitation with exceeding thanks.

An anonymous, skulking scribbler, in a recent issue, passes some remarks on the portrait of John Birnie which recently adorned your pages and those of others, coupling my honored name therewith. We have now seen Birnie's signature, and his counterfeit presentment, and if these are to be relied upon, one can, with the aid of his oft-appearing views on many subjects, form some opinion of the man himself. The portrait looks like that of a person who had sent home a well-directed thrust, with a "now will you be good?" expression and hen-like, had turned his head, waiting for a retort. It is the face of a "scrapper," therefore, no blame can be attributed to the bemasked scribbler in question likening Birnie to General Grant. In fact, one is inclined to regard Grant as having been flattered by the comparison. The similarity between the two men, so far as pugnacity and persistency are concerned, is apropos. Both seem to be imbued with the idea that "to fight it out on these lines," is the correct one; but while Grant's lines were straight, Birnie's often go off at a tangent. Each seems to have been a Scripture scholar. The general, too, was said to be a good judge of "Ferintosh;" and the gardener's knowledge of that beverage is not to be sneezed at. Grant became President of the United States; there seems no good or sufficient reason why Birnie should not become president of the American Carnation Society, despite the apathy of West Hoboken to local genius. But why continue the comparison? Suffice it to say, that I am pleased to look upon the fac-simile features of the man, who like myself is endeavoring to regulate the horticultural world. I might just add that, while my own picture was, owing to native modesty, confined to the columns of one paper, it does not necessarily follow that conceit, or vanity, was the cause of the appearance of Birnie's portrait in three or four papers. It is right that real genius should be rewarded with all available publicity. That, at least, is how it appears to

JOB.

New England Dahlia Society.

The secretary of the New England Dahlia Society reports that the membership is constantly increasing and that the society has now so well progressed that the executive committee at the last meeting decided to issue a monthly bulletin beginning with March which shall be called the "Dahlia News." It will contain each month, at least one article by some renowned grower of dahlias, giving cultivation or treating of the plant's peculiarities. It will also contain the dahlia news of the world, inform the members what is going on, giving descriptions of the new varieties that are introduced and in general supply the information that the dahlia growers are looking for. The last page of this paper will be devoted to advertising, and the returns from same are expected to pay for the cost of publishing the paper.

We feel that the society will outrival in membership any of the others of a similar nature in this country or Europe, as we expect a membership of fully 1,000 by the end of the year. We have now members residing in every State in the Union and the interest in the dahlia at large is surprising.

The secretary of the New England Dahlia Society would appreciate very much if the secretaries of the different horticultural societies would inform him of the dates of their shows where dahlias are included, so that the members may be informed thereof and make exhibits wherever and whenever possible.

All growers of dahlias should join the society at once in order to get the benefit which a membership will give.

Boston, Mass.

MAURICE FULD,
Secretary.

AMONG THE GROWERS

Jensen & Dekema, Chicago.

To do what you do, well, in fact as well as it can be done, is the precept which has stimulated J. E. Jensen throughout his horticultural career; and when asked if the carnation had not always been his chief love, he replied, "It is all; I know nothing else and have never tried to grow anything else." This is unquestionably the day of the specialist, and Mr. Jensen is a good example of what may be accomplished when the right material for a foundation, is formed and all one's time and energies are constantly concentrated in the same objective ambition.

The senior member of the concern of Jensen & Dekema is still a young man, a score and a half of years not yet having been placed to his account, yet a more thoroughly equipped and carefully and practically prepared carnation grower would be difficult to find. Born in Viborg, Denmark, in 1878, he early showed a predilection toward floricultural pursuits, and while still but a lad served four years as an apprentice in the town of his birth, after which he enlarged his sphere to Germany and then to London, working for the leading concerns of the sections as his world grew and storing away a constantly increasing stock of knowledge and experience until on the 17th of March, eight years ago, he reached New York, and shortly after commenced his successful career in the New World by entering the employ of Hugo Book of Worcester, Mass. It was but a short time later that history records Mr. Jensen as removing to Ellis, Mass., and joining the Peter Fisher force, where he met with such marked success that within eighteen months, young man though he was, he was given general charge of the Fisher establishment. We next find Mr. Jensen located at Joliet, Ill., managing the houses of the J. D. Thompson Carnation Co., until three years ago this Spring he made a trip to the Pacific Coast, on his return from which the present copartnership was established.

Besides the numerous florists' organizations with which he is allied he is counted a Mason and an Elk, and to those who don't know him we may add that he is an unassuming young man of most sincere and genial composition and agreeable manners.

John L. Dekema is nearly a year younger than his partner, and a native of Amsterdam, Holland, where he was born June 23, 1879. He early decided on his future career, and after an apprenticeship of two and a half years in Amsterdam he spent a year at the Royal Botanic Garden at Lieden, whence he pushed on to Germany and England, working and studying as he progressed, and emigrating to this country about seven years ago. He was successful and enjoyed the confidence of several employers in different sections until he joined forces with Mr. Jensen, coming here from Bobbink & Atkins, Rutherford, N. J. The present concern was established, and the fifty thousand square feet range of glass erected at 643 W. Foster avenue in North Chicago about two years ago. Mr. Dekema is at present combining business with a sight-seeing and health-seeking trip to the Southwest and Pacific Coast.

Few if any concerns can show such clean, unhampered strides of progress in two years as are evidenced by these enterprising young men. Their establishment embraces upward of 50,000 square feet of glass and is complete and up-to-date in every detail, all new and steam heated, devoted exclusively to the cultivation of carnations of which about 40,000 plants are annually benched. Though probably no grower can claim to be perfectly immune from the trials, tribulations and miscellaneous impediments associated with commercial horticulture, such drawbacks will be found here in a minimum proportion.

Their business is almost exclusively shipping, and their patrons cover a wide range of territory which is accessible from this great railroad center. Mrs. T. W. Lawson, Enchantress, Boston Market and Lady Bountiful are the varieties most in evidence. In novelties all the promising sorts are given a fair trial, among the varieties of this season being Aristocrat, Winsor, White Enchantress and Beacon as specialties.

An important part of the business of the house at this season of the year is the furnishing of rooted cuttings in large or small quantities.

W. K. WOOD.

Some Pollenating Experiments.

Mardner of Germany was the first to give the florists some real good things in azaleas. The first crossing of tuberous-rooted begonias was made by Veitch & Sons of London in 1869. Much has been written lately about the pollenation of the pear. My first attempt in this line was about 15 years ago. I crossed the Duchess with the Seckel, and Kieffer with the Seckel, carefully pollenating them for two days in succession. As the flowers appear in clusters, I pollenated every one on one cluster. In a few days after, I examined them and found that half of them were dropping off. I had noticed at the beginning that some of the stems that carry the flowers were of a much paler green than others. By close examination on dissection I found it was the fault of the stem that supplies the flower with nourishment, and any amount of pollen would not set any fruit. For a number of years I met with the same result. This only shows that the fault of not setting fruit is put on the wrong side. Plants



J. E. Jensen

are capable of forming the fleshy part, or the shell, case, or whatever you may call it, that surrounds the germ or the seed, without any pollen. We have seedless apples and pears, provided the organs that come through the stem are perfect and feed them. I have a *Cycas revoluta* which every other year never brings a crop of seed. The fleshy part and the shell that surrounds the little bulbous part inside are always perfect. All it would need would be some pollen to fertilize it.

My advice to young men is to begin early and study plant anatomy, and plant physiology. Dissect the flowers and fruit; follow up the organs; see where they start from, and where they go. Without this study one is working in a fog, but by study we are able to gather a few pebbles on the shore of horticultural knowledge. JOHN COOK.

THE AMERICAN CARNATION SOCIETY held its meeting on British Territory, viz., in the city of Toronto, on January 23, 24. Every preparation was made for a successful meeting, and we trust that nothing occurred to spoil what was after all a family party. Whether we islanders should care in Mid-winter to take a journey of a thousand miles, to an exhibition and conference in such a climate, as some of our American cousins are prepared to do, is another matter.—Gardeners' Chronicle, London.



J. S. Dekema

CARNATIONS

Carnation Show at Chicago.

The carnation show, which has been an important feature of the yearly routine of proceedings of the Chicago Florists' Club, was held in Handel Hall on the evening of Thursday, February 14, being the regular meeting night of the organization. The show itself was the most successful of this nature in the club's history. There were five or six thousand carnations on the tables, all of rare excellence, the production of local talent and of specialists from a distance, and embracing a good representation of the popular standard varieties of to-day as well as several novelties which are being disseminated this Spring or will be placed on the market in the near future.

The exhibitors, especially of new varieties, were asked to accompany their offerings with a few descriptive or cultural notes, which was done in some cases. In the following mention of the individual contributions the data offered by the exhibitor are given in quotations and at the end of each notice are quoted the remarks of the judges and the score achieved by their decision on new varieties, those scaling 85 points or over being entitled to the club's certificate.

The judges were W. N. Rudd, F. F. Benthey and James G. Hancock, Mr. Rudd of course withdrawing during the examination of his own exhibit.

The Chicago Carnation Company was on hand with an excellent display of their products of a quality fully up to the standard of excellence for which this concern has established a reputation. Six varieties were included in this collection in vases of fifty and one hundred blooms as follows; Aristocrat, White Perfection, Enchantress, Daybreak, Mrs. Lawson, Variegated Lawson, and Red Riding Hood (new). Judges' report: "Chicago Carnation Company, a number of good vases of standard varieties and Red Riding Hood scaled 82 points. Aristocrat and White Perfection very fine."

R. Witterstaetter of Cincinnati forwarded a large vase of his seedling 1009 F, which has been christened Snowdrift. The exhibit was not accompanied with data, but showed up in good shape, of the purest white, large size, strong stem and apparently a valuable acquisition. Scaled 84 points.

Baur & Smith, Indianapolis, sent May, of pleasing shade and medium size. It might be classed as between Morning Glory and Enchantress both in size and color. According to the committee's decision this variety scored 78 points.

Peter Reinberg made a creditable showing of some of the varieties which he finds under his treatment the most satisfactory for commercial purposes; and the exhibit evidenced a high state of cultivation and embraced Robert Craig, Lady Bountiful, Mrs. T. W. Lawson and Enchantress. Of this collection the committee said, "Peter Reinberg, an excellent exhibit of standard varieties."

Bassett & Washburn showed a vase of their scarlet seedling No. 20 1902 (Crane Prosperity), which received much attention, and though lacking the intense brilliancy of the Crane parent it is endowed with so many good qualities that it is certainly a variety to be reckoned with in the near future. In speaking of this seedling Mr. Washburn said: "This is its fourth year and we have 1,100 plants which have averaged from 50 to 60 flowers per day since November 15; stems from 28 to 30 inches in length, flowers about 3 1/2 inches in diameter. It is the best shipper we ever had." The committee scaled this flower at 87 points which entitles it to a certificate.

The Poehlmann Brothers Company were at the top of variety the largest exhibitors, showing eight vases of commercial carnations. The flowers were all of superior quality, the committee referring to them as an "excellent exhibit of standard varieties, the vase of White Lawson being especially commended."

Jensen & Dekema filled a table with choice specimens of the varieties to which a large portion of their range is devoted, the quality being all that could be desired and speaking volumes for the energy and ability of this young concern. They showed Victory, Enchantress, Mrs. M. A. Patten, Lady Bountiful, Boston Market, and Governor Wolcott, the judges referring to them as "a fine exhibit of standard varieties." This concern acting as representatives for E. R. Pierson Company tabled a fine exhibit of Winsor which had been shipped on the previous Monday. The judges scaled this variety at 88 points which entitles it to a certificate and the honor of the highest scoring of any of the new varieties in the show. Of Winsor Mr. Pierson wrote "Winsor seems to be an unusually easy variety to grow. We believe that most varieties that are good can be grown generally well. The great difficulty is there are too many varieties sent out that should never be disseminated. This is the third year that we have grown Winsor. We had a limited stock of it two years ago and that year grew 2,000 plants; this year we have 25,000 plants; We have grown it in a low temperature, with Enchantress, and in higher temperatures averaging 56 degrees at night. It seems to do well in both temperatures, but we prefer to grow it rather warm, as we think it is more profitable. It is a variety that will stand a good deal more heat than the Enchantress types, as it has a stiff stem. Even under the exceedingly cloudy conditions which have prevailed this year, we have maintained in one

house a temperature of 54 to 56 degrees at night without weakening the stem the slightest; in fact, we have given it almost a rose temperature. We believe that, like all varieties of this type it will do best planted inside, and that the best results would be obtained by planting it immediately after Decoration Day, using either young plants from the benches or good strong plants from 3 1/2-inch pots if one has stock in shape as early as that. If not, then from smaller plants. We do not think it should be pinched much if any after July 4. This will bring it into bloom early in the Fall and will give earlier flowers and better stems than if transplanted from the field at a later date. We grow 16,000 plants of it in this way and planted 9,000 from the field about September 1. The plants grown under glass have given us very much earlier flowers, with longer stems, and more flowers than plants taken from the field and planted about September 1. The more we see of Winsor, the better we like it. We were satisfied last year that it was a phenomenally good variety, but it really grows better and better. It is not giving one half of one per cent. split flowers; in fact no calyx is split so as to render the bloom unmarketable. The stem is good, the keeping qualities phenomenal, the color one that has long been needed, and, as far as habit and growth and productiveness are concerned, it leaves little to be desired. Winsor is to be the commercial variety of the future, in our estimation."

M. A. Ryerson showed a red sport of Mrs. Lawson of which the committee said "apparently identical with Red Lawson."

There were few features in the hall that attracted so much attention as W. N. Rudd's scarlet seedling No. 163, A 1902, a product of excellent characteristics evidently possessing the requisite qualifications of the fancy carnation of the present day. Said to be free, a good seller, and of unquestioned health and vigor. It is understood that this variety will be placed on the market next year. It scaled 87 points, and will accordingly be certificated.

J. A. Budlong Estate showed half a dozen vases of finely developed flowers of their favorite commercial sorts, including Enchantress, Lady Bountiful, White Lawson, Mrs. T. W. Lawson, Cardinal and Nelson Fisher. These blooms evidenced good culture, of which the committee said, "A number of vases of standard varieties excellently done."

Anton Then was represented by a table containing seven varieties, with one exception all well-known in commerce including Harlowarden, Mrs. T. W. Lawson, Enchantress, White Lawson, Mrs. E. A. Nelson, Lady Bountiful and Winnemac, a variegated seedling. Of these the committee said, "A number of good vases of standard varieties."

The H. Weber & Sons Company, Oakland, Md., sent on two of their new creations—Mabelle and Toreador—which showed up well and were scaled 79 and 85 points respectively, the latter receiving a certificate. The following notes accompanied them. "Mabelle is unique in color, showing absolutely no traces of lavender or purple, as most pink varieties do. It is also unique from the fact that it does not fade. Not an exhibition flower, but recommended as a very vigorous, free-producing commercial variety. No other carnation blooms earlier in the Fall, and it can be cut with long stems right at the start. Requires rather a cool temperature and about the same cultural treatment as Enchantress, which it will fully equal in the production of bloom and cover a longer season."

"Toreador will not be disseminated until 1908. Arrangements are under way to have a trial batch of 1000 plants of this variety grown in the West and one of like number grown in the East. Prosperity has not been as profitable as most other good varieties. Toreador is not only an improvement on that variety in color, but in nearly all other respects as well. In addition, it can be planted as close again as Prosperity, thus doubling the returns from the bench space occupied, which will bring it on a par with the best money-making varieties of the day."

John E. Haines, Bethlehem, Pa., shipped a striking exhibit of his two new offerings Imperial and Pink Imperial, which appear to bear out what is claimed for them practically as follows: "Imperial, the new variegated seedling, has been largely shown and has been awarded ten certificates of merit and diplomas. The color is a variegation of delicate pink similar to the shade in Enchantress, but somewhat deeper and more pleasing. The stem is said to be a wonder, attaining a length of 3 or 4 feet, and even in early September often reaching 30 inches. The flowers, invariably measure from 3 to 4 inches in diameter, nicely formed and very fragrant with a strong calyx. Scaled 79 points. For the Pink Imperial which showed up better here, the grower claims the "greatest wonder" of 1907. It is evidently a winner as is claimed for it, a pleasing shade of pink, being a sport of the preceding variety and in some ways superior to it, as in the judgment of the committee it was entitled to a rating of 84 points."

H. N. Bruns placed on the table a handsome bunch of his special Lily of the valley which was very generally admired.

The account of the meeting which followed the exhibition will be found under the caption "Club and Society Doings" in this issue.

WILLIAM K. WOOD.

The Recent Toronto Show of Carnation Society.

(Remarks by Edward A. Stead, Overbrook, Pa., before the Florists' Club of Philadelphia, February 5, 1907.)

Our worthy president, Mr. Pennock, William P. Craig, Mr. Beattie, my foreman, and myself left the Reading Terminal at 6:30 Tuesday evening, expecting to arrive in Toronto for the Carnation Society's convention at 10:30 next morning, but the train was delayed, not reaching its destination until 1 p. m., so that we had barely time to get to the hall and stage the few flowers I had sent before the opening of the convention. I will not attempt to go into the detail of the proceedings, or of the prizes awarded. What the members want to know, I think, is my opinion of the varieties shown, and their respective merits.

I am more than ever convinced that a line must be drawn between what may be termed the exhibition and the commercial carnation, just as we class our chrysanthemums. I want to impress members with the fact that the prize awards are very misleading. The question of how many flowers per square foot, and how these flowers are cut through the various months of the year, are facts which can be gained only through experience.

I will take the carnations in their colors, starting with the white section.

Whites.

Alma Ward stood out prominently. It certainly is an exquisite flower and has improved considerably since shown at Boston. It is particularly adapted to the New York market, where it can command the price of which it is worthy. I suppose you noticed that this variety was awarded the silver medal; the gold medal was withheld because the judges did not consider any variety up to the



New Petunia, The Queen,
Originators, Yates Floral Company

standard required by a gold medal, and I might add that, taking all the exhibits, none was at its best, owing doubtless to the unfavorable weather all over the country the week previous.

While Perfection, well spoken of by many, is a fine, large flower, a good, clean white and an improvement over Lady Bountiful except in stem. I have some doubts as to its keeping qualities.

White Lawson comes such a poor color and so short-stemmed early in the season that it is not just all that is desired. The whites were poorly represented. I do not recall a vase of Lady Bountiful, which was so prominent at the Boston show. The general impression among the trade is that it lacks petalage, is neither early enough, nor free enough. There is a great opening for a new white, and I wish some one would originate one to fill the bill.

A new white called Georgia looks as though it might be a good thing commercially. It does not have the size of White Perfection, but has a better stem and, I should judge, is a free bloomer.

The Reds.

Robert Craig still holds first honors, according to the judges. It is no doubt a fine red, and where a fancy price can be obtained it would be profitable to grow.

Beacon was well represented by Peter Fisher, Cottage Gardens, and the Stratford Flower Farm. We think well of Beacon. The habit of the plant is similar to that of Enchantress and shows excellent breeding. It is free, healthy and of good size as to flower. I have heard some criticism as to its color. Personally I see no objection to it, as

my experience with red carnations has proven that the orange-reds are better keepers and shippers and without the habit of bruising, as do Cardinal, Adonis and Flamingo. I am satisfied with Beacon and expect to grow a quantity next year.

Victory was not shown extensively. It has the same good qualities as Beacon in regard to its keeping powers and color. If it has any faults it may be considered a trifle weak in stem and form of flower.

A new red of merit was a seedling from Bassett & Washburn. As I saw it on the table it looked like a good commercial variety.

Red Chief, exhibited by F. Dörner & Sons Company, while of a good color, showed a weakness of stem which made it undesirable to me. This fault, I understand, was owing to the climatic conditions. I was informed that Lady Bountiful, when first shown as a seedling, looked much the same way.

Mr. Haines' red has done poorly at Stratford. If I could grow it the way Mr. Haines does it would be fine, but, unfortunately, I have not yet been able to do so; it does not feel at home at Stratford and the difficulty looks to me like a question of soil. I saw it doing beautifully at Mr. Widener's place at Elkins Park.

In Pink.

In the class designated as the Scott shade of pink, Winsor was shown by the F. R. Pierson Company, in quantity and it certainly appeals to me. It is what is wanted in color and, while it may be slightly undersized, and may be a little short in stem, its freedom and color offset, to my mind, anything that may be said against it.

Winsome was one I did not examine closely. It seemed a pleasing shade and one that would be desirable. Dailedouze Bros. exhibited a pink sport of Lawson.

The cerise class, or Lawson shade of pink, was better represented than any other class. The great objection, it seemed to me, was the bluish cast most of them had. Two the colors of which pleased me, were Afterglow and Mr. Weber's new seedling, Mabelle. Both of these arrived too late to be judged. Aristocrat is a fine, large flower. Its color did not strike me favorably. Perhaps I am too critical.

Dailedouze Bros.' new seedling, No. 348, which won the bronze medal, is a large, fine flower, but again I did not admire the color.

Mrs. C. W. Ward was attractive. I understand Mr. Ward thinks so much of it that it is not to be put on the market.

Elsa Struss did not show as well as at Boston.

Helen Goddard looked good commercially.

Pink Imperial showed good flowers and probably the longest stems in the show.

Variegated.

In the variegated section was Helen Gould, a sport of Enchantress. As a novelty it will make a place for itself.

Toreador, by Weber & Sons Company, an improved Prosperity, has good form and much better stem.

Bay State, or seedling No. 9, by A. Roper, is a much improved Mrs. M. A. Patten, and if a free bloomer should be a good thing. Mrs. Patten still holds its own.

Imperial attracted attention by its magnificent stems. It is a novelty pure and simple.

Other Varieties.

In the class for Enchantress shade of pink, Enchantress itself, so generally well known, hardly needs description. There is nothing to displace it. One competitor by Baur & Smith, called May, was a better color but undersized.

Some seedlings exhibited by F. Dörner & Sons Company, are worthy of mention. One, a scarlet, No. 305, I think will be heard from, also seedling No. 9703, a maroon shade, attracted my attention.

I hope my remarks will be taken in the spirit they are meant. I have tried to give my opinion as the flowers appeared to me personally, and I trust no one will be misled by it. Next year, when we meet at Washington, I hope we will have a large delegation from Philadelphia.

The Queen Petunia.

Editor Florists' Exchange:

The new petunia "The Queen" has been grown by us for the past five years. It is a wonderful bloomer; the flowers are of an enormous size, and measure from four to four and one-half inches in diameter. They are white, mingled with purple, very nicely fringed, making one of the handsomest plants grown. It is an early bloomer; in fact, one of the best sellers for Decoration Day. The Queen petunia planted outdoors will continue to bloom all Summer. The flowers can be used to good advantage in design work.

YATES FLORAL COMPANY,
Canajoharie, N. Y. Joseph Trandt, proprietor.

American Carnation Society.

Variety Registered.

By Wa-nq-ka Greenhouses, Barneveld, N. Y.

CLIMAX, a decided improvement over Enchantress, being a shade or two deeper, of better form, stem and calyx, and more productive.

ALBERT M. HERR,
Secretary.

Society of Southern Florists

FIRST ANNUAL CONVENTION AT NEW ORLEANS, LA., FEBRUARY 14-16, 1907, A GREAT SUCCESS. JAMES A. NEWSHAM, ELECTED PRESIDENT.

The first convention of the Society of Southern Florists and Ornamental Horticulturists, held in New Orleans, La., on February 14, 15 and 16, 1907, was in every respect a success, although it is to be regretted that there were not more members from the adjoining states present. However, the Louisiana craftsmen made up for this defect, both in number and enthusiasm.

The Exhibition.

The exhibition, also, considering the youth of the society, was quite large and interesting. Among the exhibitors were Kroeschell Brothers Company of Chicago, with a model of their well-known boiler. Caldwell the Woodsman, Evergreen, Ala., made a nice display of wild smilax, and was represented by George O. Stoddard. George R. Carter, also of Evergreen, Ala., had a fine showing of wild smilax. The Paducah Pottery Company, Paducah, Ky., exhibited pots, vases, etc. The Target brand of scale destroyer was exhibited by the New Orleans agent, C. W. Eichling. The Joseph Steckler Seed Company made a neat display of seeds, and vegetables grown from seed supplied by them. Abele Brothers' exhibit consisted of palms, ferns and flowering plants. This firm had a novelty in miniature flower pots and saucers containing growing plants. M. Cook's Sons had a display of sweet olives in pots, one of their specialties. B. M. Wichers & Sons, Gretna, La., had on exhibition ferns, bostoniensis and its sports. Especially noticeable was *Nephrolepis Whitmani*. Charles Eble staged palms, ferns, pyramid box, etc. James A. Newsham had a group composed of palms, ferns, dracenas and pandanus. He also showed standard and pyramid bays, rhododendrons in flower, and other plants. C. W. Eichling had a table of his specialties—*Adiantum hybridum* and *A. Capillus-veneris magnificum*. In cut flowers U. J. Virgin showed American Beauty roses. W. B. Patterson, Jr., Montgomery, Ala., exhibited carnations, which were the admiration of every one on account of their fresh appearance, quite different from the kind the Western florists have been shipping to New Orleans this season. A. L. Randall Company, Chicago, sent an exhibit of cut roses. Nosacka & Company staged samples of their wire work.

First Day—Morning Session.

All the sessions were well attended, and the various papers were listened to attentively. The meetings were held at the hall in 202-212 Camp street. President R. C. Berkman was unable to be present, and Vice-president C. W. Eichling presided. Paul Abele acted as secretary in the absence of Secretary J. F. Wilson. Treasurer Joseph Steckler was at his post, and during the sessions received the dues of several new members.

Vice-president Eichling introduced Mayor Behrman, who delivered an address of welcome, in the course of which he complimented the florists on the progress they had made in the scientific branch of their business, overcoming many obstacles to practical success. Dr. W. C. Stubbs responded to the address of welcome in an eloquent manner, referring to the vast possibilities of horticulture in the South, and emphasizing the great things that could be accomplished by an organization of this kind.

Mr. Eichling in his address referred to the bright outlook for the society. If horticulture in the South is yet in its infancy, the many natural inducements offered to the florists in that region are being more and more utilized, he said, and the progress made during the last decade is, to say the least, very gratifying. He spoke of the advantages possessed by the Southern florists as regards climatic conditions, and touched upon the good quality of the ferns, palms and other stock grown there. He urged the necessity of home production, and better acquaintance of the florists one with the other. In closing Mr. Eichling said that there is no doubt but that the Southern florists, when they meet again, could look back upon a successful year, successful business and a prosperous society.

The first paper read was by F. P. Davis, of Mobile, Ala., on "Chrysanthemum Growing in the South."

Messrs. Newsham and Eichling added their experience in the cultivation of chrysanthemums. The latter urged the desirability of a variety which would mature before All Saints' Day. Mr. Newsham stated that he had obtained very good results by planting in June. He considered that it was better to keep the plants in the open until the bud first appeared, then placing them under glass.

First Day—Evening Session.

The evening session was largely taken up with a discussion of the cultivation of roses under glass in the South. The subject was opened by a very able paper by R. Lockerbie, who gave ample proof that roses could be grown successfully in the



Robert Lockerbie
Chairman Com. of Arrangements

South, despite the general belief that it cannot be done. He said that the houses should be light, airy, up-to-date and well drained, and great care should be taken with the ventilation and other points.

A discussion of the best trees for street planting was then engaged in. Ex-Superintendent Baker of Audubon Park stated that all the native trees here were suitable, but many things had to be taken into consideration in planting them; for instance, the space allowed for the roots, the character of grounds they were to adorn and the general harmony of the surroundings. He recommended as the time for planting all but the live oak the season approaching Winter, but as the live oak partook of the nature of an evergreen, it should be planted on the approach of Spring.

The subject of lilies was also taken up. Mr. Abele spoke of his success this year in raising them; while, on the other hand, Mr. Lockerbie said that he knew of one batch where 50 per cent. of the plants were diseased. Mr. Eichling also took part in the discussion.

The nominations of officers resulted as follows: For president, J. A. Newsham, New Orleans, La.; first vice-president, F. P. Davis, Mobile, Ala.; second vice-president, W. B. Patterson, Jr., Montgomery, Ala.; treasurer, Joseph Steckler, New Orleans, secretary, Paul Abele, New Orleans. These officers were at a later session elected, along with the following executive committee: E. H. R. Green, Dallas, Tex.; C. R. Panter, Ed. Baker and R. Lockerbie of New Orleans.

Second Day.

The morning session was opened by the reading of a paper on "Packing, Shipping and Express Rates," by Mr. Eichling. He was followed by J. A. Newsham with a paper on "Profitable Orchids for the Florist." The reading and discussion of these papers consumed the morning session.

At the evening session a question on the method



Charles Eble, Essayist

of treatment to produce plants with variegated leaves was discussed. It was the consensus of opinion that plenty of sunlight, starvation and dry soil were necessary to produce variegation.

B. M. Wichers read a paper on "What the South can Grow for Northern Markets." He divided his subject into five classes; namely, ferns, palms, aquatics, bulbs and roots, and foliage and flowering plants. We hope to give this paper in a later issue. The matter was discussed by Messrs. Eichling, Lockerbie and Abele.

Prof. A. A. Rosenfeld then read a paper, discussing the value of laws and regulations against insects. He dwelt particularly on the effectiveness of the entomological work in behalf of the nurserymen, and said that this year there had been forty-three certificates issued, and an increase of 400 per cent. in the output in one year.

The selection of next place of meeting was left in the hands of the executive committee.

Last Day's Sessions.

The executive committee read its report regarding the exhibits. The programme features of this session were a paper by Mr. Patterson of Montgomery, on his experience with carnations in Alabama, followed by C. Eble of New Orleans on "Needs of the Retail Trade."

Mr. Eichling presented C. R. Panter, who had managed the exhibit, and whose suggestion, at the dinner of the Horticultural Society, led to the formation of the Southern society. He received a cordial greeting, and discussed the work of the organization, expressing his great gratification at the auspicious manner in which it had been inaugurated.

The proceedings were brought to a close with a banquet on Saturday night, tendered the society by the members of the New Orleans Horticultural Society, at A. J. Fabacher's restaurant. About forty of the local florists were present. Otto Abele, President of the New Orleans Horticultural Society, presided, and C. R. Panter acted as toastmaster.

The following were the toasts and those who responded to them:

"Future of the New Orleans Horticultural Society and the Society of Southern Florists," C. W. Eichling; "The City of New Orleans," Hon. John F. C. Waldo, speaking for Mayor Martin Behrman, suffering with grip and unable to attend; "The Arrangement Committee," R. Lockerbie; "The New Orleans Horticultural Society," Edward Baker; "The Ladies" (drunk standing), P. A. Chopin; "Prosperity to the Society of Southern Florists," James A. Newsham; "Our Guests," W. B. Patterson, Jr., of Montgomery, Ala.; "The Secretary," Paul Abele; "Flowers and New Orleans," John Eble; "The Seed Industry of the South," Jos. Steckler; "The Press," C. R. Panter; "Badges and Blossoms," C. Eble.

Those who participated in the pleasant affair were: Messrs. C. W. Eichling, E. Valdejo, A. Alot, M. de Lapouyade, H. S. Despormier, Richard Eblen, Henry Cook, Claude Paz, E. Baker, J. S. Dodds, W. B. Patterson, Jr., R. Lockerbie, H. S. Kanbenich, Jos. Steckler, Chas. R. Panter, Otto Abele, J. A. Newsham, John F. C. Waldo, Paul Abele, P. A. Chopin, J. H. Menard, John Eble, I. Perez, E. Eblen, C. Woietress, H. Kraik, Otto Werner, Chas. Eble, E. Ratelle, H. Papworth, J. Werburg, B. Murphy, A. P. Holcombe, Paul J. Brand, Lee Adams, J. R. Echazabal, J. Robertson and others.

Growing Chrysanthemums Under Glass in the South

(Paper by F. P. Davis, Mobile, Ala., read before the Society of Southern Florists at New Orleans meeting.)

The chrysanthemum to be a commercial flower must have perfectly clean foliage and the delicate texture which can only be had under glass, and, therefore, the chrysanthemum of commerce must be so grown. Many inquiries have been made by beginners as to how to grow chrysanthemums in the garden in the South. I have read some of the answers by authorities on the subject of chrysanthemum growing in cold climates, and have been as often amused. When such queries have been submitted to me my invariable answer has been, "It cannot be done." Surely the plant will grow and grow luxuriantly in the open, but the flower is coarse, soiled, weather-beaten, thrips-eaten, and what not. Some of our retailers grow it outside and use it largely for funeral work, for which it is well known anything can be used, as the dead man never kicks, and his family, however unattractive the flowers sent in by friends may be, would not give expression to wound the feelings of such friends.

I make this apology for having to address the Society of Southern Florists on growing chrysanthemums under glass, when there is no other way.

Passed the Guessing Stage.

Chrysanthemum growing in the South, unlike most of the other commercial flowers, has passed the age of guessing. There is no difference as to the knowledge required to produce fine flowers in Chicago or in New Orleans. The difference is in applying the knowledge to the conditions, and in choosing the varieties that respond to the conditions. The Southern grower must not be misled by the achievements of our brother workers of the North with any variety. He must do his own experimenting, without fear of cost, and with the courage to quickly throw away hundreds of varieties that are sure to disappoint him. He must make his own selection.

Very early varieties are useless for experimental purposes. Anything that gives a flower sooner than Mrs. O. P. Bassett and Mrs. Henry Robinson, is sure failure. Only varieties that open quickly and produce perfect flowers will do. Such varieties as Jeannie Nonin and Timothy Eaton are always disappointing; it takes them too long to finish.

When to Propagate.

To begin we must propagate as late as possible. The shorter time in the growth, the shorter time of exposure to the ravages of the twenty or more insect enemies we have to encounter. I propagate the latter part of April for best results. Here I encounter the most stubborn problem in growing chrysanthemums in a hot climate. The stock plants are in vigorous growth and the cuttings naturally soft and apt to damp off in the sand. I find this tendency to damp off greatly encouraged by the fungus from the pine wood of the bench, and to prevent this I struck on the idea of lining the propagating bench with glass. With copious watering and entire shade, the striking of the cuttings is easy.

The flowers will be from three weeks to a month later than the Northern grown chrysanthemums, and so the later planting is equalized by the later blooming. It is with all science and great difficulty that we get Mrs. Henry Robinson for All Saints' Day.

Treatment During Growth.

As to the treatment during growth, there is no difference whether it be in Canada or Mexico. What applies to Chicago in August will apply here in September. The preventive treatment for insects is the same, except that the greatest caution must be taken in fumigating on account of heat. Cyanide is the surest for the destruction of all insects, but very dangerous except in the hands of the most experienced. I do not mean dangerous to man, but great caution must be had lest we sicken our plants beyond recovery. I cannot, therefore, advise its general use. Experiment on a small scale, and learn to handle it, and it is a luxury and the cheapest. Light and frequent use of tobacco in any form is effective and safe for all except mealy bugs, and a man who is negligent enough to let the mealy-bug get into his plants does not deserve to succeed. His worst enemy is thrips. They come after the harvest is in sight, and they surely come. After their presence is known it is too late to fight. Regular and frequent fumigating with tobacco in some shape is the only hope of keeping thrips out and in very dry seasons at blooming time, even this fails.

As to Varieties.

As to varieties, everyone must choose for himself, from his own tests, in his own locality. After trying almost every variety introduced in the past twenty years, I have settled on Bassett, Mrs. Robinson, Ivory, Col. D. Appleton, Mrs. Jerome Jones, Yellow Jones, W. H. Chadwick, Golden Chadwick, Old Golden Gate, Golden Wedding, Queen or Alice Byron, Mrs. Weeks and perhaps White Bonaffen. You may notice that pink and the darker shades are not in my list. They are all disappointing in color and seldom called for. Every chrysanthemum plant I grow must produce a salable bloom. You may notice, also, that all of these are old varieties, ancient varieties, I may say.

All I can say of last year's varieties is that none of them stands a wind of ninety-four miles an hour. On the twenty-sixth of September such a wind came along my way, and when it had died down sufficiently for me to put my head out of the cellar, a few scraps of broken glass was what was left of my chrysanthemum house. Some of my hopeful new varieties landed over in the next county, and somehow I lost interest in last year's introductions.

Of the year previous I had hopes of Jeannie Nonin, Roi de France, and Beatrice May but I find nothing to displace in my standard list, except that I would add the latter variety but for its softness. I am growing nothing in the modern list because I am unwilling to throw away what experience has taught me to be better. The season is once a year and short, and as yet with us, it is the flower that is novel, and not the variety.

My standard is that every plant must give a perfect salable flower and the bloom must unfold quickly. On account of the character of help I am sometimes compelled to put up with, there must be no great science in taking the bud. In my list you may notice that I have named only varieties that give sure flowers from any, or the best looking bud that appears. Robinson and Bassett are the only exceptions, and I take the crown on these as it gives a better stem.

In this trespass on your time I have made no effort to instruct the beginner. I am conscious of addressing an audience in which many of the growers could instruct me. I have endeavored to give only my experience on a subject common to the humblest florist, and so thoroughly thrashed out by the brains of the floral world that only the conceited novice would venture to give instruction. You may notice that my experience has been only as relates to the commercial flower. The exhibition chrysanthemum is not yet needed. The local show of the New Orleans Society is the only effort in the show direction in our near locality. This will all come in good time, however; the organization of the Society of Southern Florists is a right move.

Packing and Express Rates.

(Paper read by C. W. Eichling before the Society of Southern Florists at New Orleans, La., February 15, 1907.)

If we consider that the plants and flowers annually shipped over the United States are valued at millions of dollars the immense business of transportation companies, and especially the express companies, becomes evident.

Why do shippers of plants, bulbs and seeds enjoy special low express rates? Simply because the express companies compete with the United States mail. Uncle Sam was the first good friend of the florist; he offered to carry his plants, bulbs and seeds to any part of the United States at the rate of two ounces for one cent, or eight cents per pound, in packages up to four pounds. Now comes the express company and goes Uncle Sam one better, and says to the florist: "If you will pack right, we will carry your goods at the same rate as Uncle Sam, and give you a receipt, which Uncle Sam refuses to do; and if you prepay your shipments we will return you two cents on every shipment weighing from 50 to 74 ounces." A package weighing 50 ounces would cost 25 cents by mail and 23 cents by express if prepaid. The minimum express charge is 10 cents on packages up to twenty ounces. This prepaid matter is called in the Express Tariff Section D matter, and the rate applies on packages up to 74 ounces. The difference between mail and express rates in this class is a saving of two cents per package if shipped by express, besides getting a receipt for it.

The General Special Rate.

Packages weighing over 74 ounces are billed out, whether prepaid or not, at what is called the "General Special Rate," which I shall now explain. If the florists were compelled to pay regular merchandise rates on plant shipments there would be no end to complaints, and yet, why should the florist be the favored one among the great number of other industries, who all pay regular merchandise rates, with a few exceptions? The florist enjoys the general special rate which is from 20 to 33 1-3 per cent. lower than the regular merchandise rate. The rates are adopted by all express companies belonging to the Traffic Committee, and it becomes the duty of every shipper or receiver of bulbs, plants and seeds to study these rates in order to avoid and to be able to correct mistakes.

A plant shipment to enjoy this special rate must be packed in a closed box, so that it may be handled with other express matter without any special care. Plants packed in baskets do not come under this class; they must be handled with more care, and the express company charges you for this extra work by applying the pound rate, which is a little higher than the general special rate, but still much less than the regular merchandise rate. For instance, where a ten-pound package at merchandise rate from Chicago to New Orleans would cost \$1.10, a ten-pound basket of plants would cost 40 cents, and if packed in a box, only 35 cents. Thirty-five cents is the minimum charge for a box or package of plants at general special rates.

The general special rate adopted by the Traffic Committee is as follows:

If Mdse. Rate per 100 lbs. is	General Special Rate is
\$1.00	\$0.80
2.00	1.50
3.00	2.25
4.00	2.90
5.00	3.40
6.00	4.00

Merchandise rate between New Orleans and Springfield, Ohio, is \$3.50 per 100 lbs., or \$2.90 special rate, which means 2 9-10 cents per pound. Then, a box of plants weighing sixty pounds would be carried between these two points for \$1.74.

Regulations Not Always Studied.

It must be said, in justice to express companies, that all their employees are instructed to observe the tariff on general specials, but the trouble is that very few bill clerks ever study these regulations. Especially agents in small towns, where general specials are an exception, are liable to overcharge on plant shipments, and the receiver, who may not be familiar with the correct charges, gets disgusted with the high express rates. Thousands of customers are annually lost in this manner, and it becomes the duty of the shipper to call the express agent's attention to the class of matter to which his shipment belongs. This may be done by having on your shipping tags the remark, printed in bold type: "LIVE PLANTS—SPECIAL RATE," or by attaching a special card, stating weight and correct express charges to destination. This requires a complete knowledge of rates between the different points, which may be obtained at any express office. It is advisable for a receiver of a plant shipment before paying charges, to ask the agent whether the shipment is billed at special rate, and in most cases, mistakes will be avoided.

Packing.

Now, as regards proper packing. This subject, treated in detail, would fill a book, and I shall confine myself to pointing out a few advantages and abuses in packing. In the proper packing of plants a number of things have to be considered, and it is as difficult to teach packing by a lecture as it is to cure a disease by correspondence. Experience, practice and good judgment are the only teachers,

and here is where the necessity comes in of a young man learning his trade under an experienced foreman.

With an order before you in the packing shed, look at the nature of the shipment and the distance it has to travel. Then pick out a box of proper size and strength. Too often unnecessary charges are paid on boxes too large and too heavy for the contents. I have here a striking example of "how not to do it," and when this box arrived I called in several brother florists to witness the weight, style of packing and condition of contents. The box was received from Philadelphia, with a few small palms, primulas, Gloire de Lorraine begonias and cyclamen, valued at \$10.95. The box and paper alone weighed 83 pounds; the entire weight was 180 pounds; express charges \$6.12 at special rate, while the plants were worth, as just stated, \$10.95! On opening the monster we found that the plants had slipped through the cleats, and we pulled out a mass of paper, root balls, broken begonias and primulas, with enough of mashed cyclamen to complete the limit. What we had to show for our seventeen dollars was hardly worth seventeen cents—except the box, which is good for years to come. We complained to the shipper, stating all the facts, and expressed our belief that he was ignorant of the careless way in which the shipment was handled. He had our money, and simply advised us to get our damage out of the express company who was not in the least to blame, as it was a physical impossibility to damage the monstrous box which you see before you in perfect condition.

Example of Good Packing.

As a rule, it is a pleasure to open a box of plants from one of our large shipping houses. Young roses in large collection, wrapped five of a kind in paper with a long wooden label, a layer of paper dividing the varieties, the box well filled so that the plants can not move in transit they will not get mixed nor damaged, and the box being of proper strength, the express charges will add but little to the cost of the plants. Soft stock, such as geraniums, heliotropes, etc., may be packed in the same manner, with damp sphagnum moss at the roots, and dry excelsior or moss around the foliage for protection. Packed in this manner we have received large boxes of adiantum from Washington, D. C., and never lost over three per cent. of the tender plants.

Large shipments of tender plants should be packed in separate boxes of from 40 to 50 pounds each, or if packed in large boxes, a wooden partition should be nailed in after the box is half filled, so that the bottom layers will not have to carry the entire weight of the contents. Heating and decay are much easier avoided by this precaution. Large cyclamen in bloom, Begonia Gloire de Lorraine, Adiantum Farleyense and plants of this nature travel best in the pots, standing upright in the box, the box crated to the full height of the plants, which must be staked and wrapped with from four to six thicknesses of paper. Tight packing between the pots is essential to avoid slipping. Large palms, araucarias, dracenas, etc., with solid pot balls should be cleated to the ends of the box, foliage to the center. Great care must be used to wrap and tie the root balls, as otherwise they will slip through the cleats and damage is the result. Such large plants should go by freight, at a season when damage by heat or cold are least expected. During warm weather, ventilating holes must be cut in the boxes, and protected with wire cloth against rats. During cold weather, boxes must be lined with several layers of paper and cotton, or corrugated pasteboard. We have received cases of palms in cold weather, the foliage wrapped in paper and the spaces between the plants entirely filled with short cut straw. This is light, and a good protector against zero weather.

Large roses, shrubs and trees for short distance shipping are best packed in bales; damp straw between and around the roots, a layer of dry material over this, and the bale well tied with rope; over this a covering of burlap to make a clean package that will travel with safety and at special rate. For freight shipments which are sometimes for weeks in transit, strong boxes with iron corner straps are preferable, and plenty of moisture at the roots is the most essential necessity in this style of packing.

In conclusion I would say that the packing of plants has been improved in the course of time to the point of real art. No florist who would make a success of his shipping business can afford to neglect the potting shed.

American Rose Society

The executive committee of the American Rose Society have been favored with more prizes for the coming Washington show, one of \$25 for Killarney, offered by Ex-President Fred. R. Newbold of Poughkeepsie; and another by L. A. Roe of Madison, N. J., of \$25 for Uncle John.

An addition to the prize list of the Washington Florists' Club is a premium of \$25 for a group of decorative plants, covering at least 100 square feet of floor space, offered by Wm. H. Ernest of Washington.

A special report of the society's doings, with the constitution and by-laws and a chapter on garden roses, of much interest to amateur growers, embraced therein, is mailed to all members of the society and a number sent out to the general public.

BENJAMIN HAMMOND,
Secretary

FOR THE RETAILER

The Lenten Season.

Florists expect poor business during the Lenten season, more especially the first week of it; but according to reports this year there has been an agreeable disappointment, trade being particularly brisk with some stores. Roses are still remarkably scarce, American Beauty, Richmond and the choicer varieties being exceptionally so for this season.

Several entertainments were given the past week, including many dinners. St. Valentine's Day also had a tendency to help trade along, there being a noticeable demand for red blooms, myosotis (forget-me-not), pansies and other flowers "with a history" being at a premium.

A very excellent window decoration for this occasion was seen in a Broadway store. A large heart made of Beacon carnations occupied the center of the window. This was entwined with streamers of red ribbon reaching to all parts of the window, each end being held by a Cupid. Others were stationed in various positions, with drawn bows and several spent arrows had found their way to the heart. The arrangement was both appropriate and attractive. Some retailers even carried heart-shaped violet boxes for the occasion.

Perhaps one of the most attractive dinner decorations of the week was one in which Acacia pubescens and Blanche Ferry sweet peas were used. A large center-piece composed of Acacia pubescens occupied the center of the table. This was made in the form of a many-pointed star; or perhaps a sunburst would better describe it. Irregular clusters of sweet peas were filled in between the long sprays of acacia, making a very pleasing combination. Other sprays of acacia radiated from the center-piece, and a low bowl of sweet peas was placed at each corner. Freesia Purity was used as a finger bowl embellishment.

On another occasion this acacia was employed as follows: Several small tables occupied the dining room. The entire center of each was covered with rich green moss. From the center of this again rose a tall standard acacia apparently growing. This effect was obtained by using tall standard rose stems, at the top of each stem being fastened an umbrella of wire, painted green. The sprays of acacia were fastened to this, falling in festoons, in some instances, almost to the table-cloth. There were eight tables, and the effect on entering the room was well worth seeing.

Another large dinner for forty was very good. The guests were seated around a hollow circle, the table being only two feet wide. The intervening space was filled in with Adiantum Farleyense, forming banks around the inside of the table. This circular bank sloped gradually to a common center, which was occupied by a playing fountain. Scattered promiscuously throughout the Adiantum Farleyense were a number of orchid plants in variety, *Oncidium splendendum*, with its large erect spikes, being particularly noticeable. *Cattleyas*, *Cœlogyne cristata*, and *Phalænopsis amabilis*, and *Schilleriana* overhung the water's edge.

At the large annual ball and dinner given by a society leader the tables were arranged as follows: A dormant fruit tree was erected in the center of each table, the space at the foot of each tree being filled in with Spring flowers, tulips, narcissus, hyacinths, etc., being used. On the branches of the dormant trees were tied, to look as natural as possible, branches of forced fruit trees and flowering shrubs—apple blossoms, peach, pear, Japanese flowering cherry and forsythia, each table being different. The trees rose to the height of ten feet, with large spreading branches, the effect being that of an orchard in full flower. An order of this kind can only be filled on long notice, as the grower must be notified in plenty of time to force enough material for a large affair of this character.

D. RAYBURN.

MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY.—The February meeting of this society was devoted mostly to discussing plans for the future and trying to get new ideas on an old subject, about twenty-eight members taking part. March 13 will be carnation night, and we are expecting a goodly number of novelties as well as special exhibits in standard varieties. Carnation night was almost famous last year with us. We are to have three short papers read. One by Wm. Duckham on "Planting in from Pots vs. Open Ground," one from R. M. Schultz on "The Commercial Aspect of the Carnation, Best Varieties, Etc." and one from Percy Herbert on "Methods of Propagation." The reading of each paper is to be followed by a general discussion. An interesting time is anticipated.

E. R.

PITTSBURG AND ALLEGHENY FLORISTS AND GARDENERS' CLUB.—At the regular meeting of this club on the 5th inst., the following officers were elected to serve for 1907: John W. Jones, president; E. C. Reimann, vice-president; Fred. Burki, treasurer; H. P. Joslin, secretary; E. C. Ludwig, assistant-secretary; P. S. Randolph, John Bader, and Fred. Burki, executive committee. The club meets the first Tuesday of each month at 422 Sixth avenue, Pittsburgh, at 8 p. m.

H. P. J.

CLUB AND SOCIETY DOINGS.

THE CHICAGO FLORISTS' CLUB held its regular monthly meeting on Thursday evening of last week under most pleasant auspices, one half of Handel Hall being occupied by the carnation exhibition elsewhere described, which had doubtless done much to attract the large attendance of members and their friends who were present. The regular order of business was proceeded with as expeditiously as possible, two members withdrawing and three—A. T. Pyfer, Joliet; Harry Manheim and H. Cheeseman, Chicago—being elected to membership; and the applications of Andrew C. Benson, Hinsdale and Van Zimmerman for membership were according to the rules carried over to the next meeting.

The trustees were authorized to negotiate a lease for one year for the present quarters on the existing terms.

Chairman Rudd of the Committee of Examination of Exhibits read the report of the Committee, after which President Bruns called on a number of those present for remarks especially alluding to the subject, owing to the time, the place and the surroundings, which was uppermost in everyone's mind, the carnation. Among those who contributed to the pleasure of the evening along this line were J. A. Valentine of Denver; William Kennedy of Milwaukee; J. D. Thompson of Joliet; Andrew Benson of Hinsdale; W. N. Rudd, A. T. Pyfer, and August Pöhlmann. P. J. Foley described the recent trip of the committee to the State Capital in behalf of favorable legislation for the establishment of the experiment station, a resolution in favor of which was also adopted by the club. P. J. Hauswirth made a report on the condition of the Hartshorne memorial fund which from all sources now amounts to between \$1250 and \$1300 and expressed the hope and expectation of the committee to increase the amount to \$2000.

A vote of thanks was extended to the exhibitors and to the judges.

The club voted to extend an invitation to the American Rose Society to meet in Chicago next year; after which it was announced that at the next meeting, which would occur two or three weeks before Easter, J. S. Wilson would speak on "Easter Plants" and other well-known authorities have been invited to participate. The meeting will take place on the evening of March 14.

W. K. W.

THE ST. LOUIS FLORISTS' CLUB held one of the largest gatherings it has ever had on last Thursday afternoon, the occasion being our annual carnation meeting. The exhibition was very large and very fine. There was a number of outside exhibitors, and the local growers also did themselves proud in showing some extra fine quality blooms. The attendance, including visitors, according to Secretary Beneke, was 60, and much good feeling prevailed.

The following well-known firms from outside of the city exhibited blooms; F. R. Pierson Co., Tarrytown, N. Y., sent their famous Winsor; H. Weber & Sons Co., Oakland, Md., Mabelle; Baur & Smith Indianapolis, had a new light pink, May; The Chicago Carnation Company, Joliet, Ill., Aristocrat; John E. Haines, Bethlehem, Pa., John E. Haines, Imperial and Pink Imperial. J. F. Ammann, Edwardsville Ill., staged a fine display of Lady Bountiful, Enchantress, Mrs. M. A. Patten and Mrs. T. W. Lawson. Henry Johan of Collinsville, Ill., had a vase each of Enchantress and Cardinal, which were well grown.

Among local growers John Stiedel staged Rose-Pink Enchantress, Nelson Fisher, Cardinal, Mrs. M. A. Patten and Lady Bountiful. A Jablonsky showed Robert Craig, Enchantress, Aristocrat, White Perfection, Mrs. M. A. Patten, Rose-Pink Enchantress and Lady Bountiful. Wm. Winter had a vase each of Cardinal and Lady Bountiful. The Oakland Floral Company two fine vases, one of Enchantress, the other of Mrs. T. W. Lawson. Henry Brown, foreman for A. Boix, staged a fine vase of well grown Mrs. T. W. Lawson. A. C. Brown of Springfield, Ill., made a nice exhibit of seedlings, some extra fine blooms which attracted the attention of our local growers.

The meeting was called to order by President Irish. Frank A. Weber, chairman of the flower show committee, reported that the committee had failed to raise the \$10,000 subscription at the specified time, and moved that the flower show be dropped for this year at least. He said that as long as the membership was divided on the flower show proposition, the club would be unable to hold a successful exhibition and the club voted to this end.

Henry Niemeyer and Pierre Schneider both Kirkwood growers, were elected to membership by a full vote.

The club subscribed \$100 toward the fund of the national flower show to be held in Chicago in the Fall of 1908. Fred Ammann, who is president of the Illinois State Florists' Association, invited the members to attend the second annual meeting in Bloomington, Ill., February 19-20, which many promised to do. The president appointed Messrs. Brown, Fillmore and F. C. Weber as judges of the carnations on exhibition; they reported as follows: Twenty-five blooms, red—Wm. Winter first, with Cardinal, John Stiedel, second, with Cardinal; A. Jablonsky, third, with Robert Craig. Twenty-five

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YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unequalled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

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SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonal varieties of flowers always on hand. Wire me your orders.

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GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

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THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

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THE PARK FLORAL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

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HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South, Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

light pink—Oakland Floral Company, first and A. Jablonsky, second, both with Enchantress. Twenty-five rose-pink—John Stiedel, first, with Rose-Pink Enchantress. Twenty-five dark pink—Oakland Floral Company, first, with Mrs. T. W. Lawson; A. Jablonsky, second with Aristocrat. Twenty-five white—A. Jablonsky, first, with White Perfection; Wm. Winter, second, with Lady Bountiful. Twenty-five variegated—A. Jablonsky, first, and John Stiedel, second, both with Mrs. M. A. Patten.

Exhibition blooms scored as follows: Aristocrat, from The Chicago Carnation Company, 90 points; Winsor, from F. R. Pierson Company, 86 points; Mabelle, from H. Weber & Sons Company, 74 points; John E. Haines, from John E. Haines, 76; Pink Imperial 60 points, it being too far gone; Governor Deneen, from Brown, 65 points. The flowers of E. Schrader, Springfield, Richmond Borough, N. Y., were frozen in transit and were not staged. They came a day late.

The chair called for a few remarks from A. C. Brown, Luther Armstrong, J. F. Ammann and Dr. A. T. Halstead. Those of Mr. Armstrong were very interesting, he being one of the charter members of the club and its secretary twenty years ago. He told how the present club was organized by J. M. Jordan, Henry Michel, C. A. Juengel, W. T. Guy, Henry Shaw and himself, which interested some of the younger members very much. The question box brought out several good discussions. The auctioneer, W. C. Smith, then proceeded to auction off the prize-winning blooms for which good prices were obtained. The meeting adjourned until the second Thursday in March at 2 o'clock.

ST. PATRICK.

WOODS USED FOR PACKING BOXES IN NEW ENGLAND is the title of a circular (73 Forest Service) issued by the Department of Agriculture, Washington, D. C.

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Price \$6.00 43 W. 28th St. Grower, per 100. \$50.00 per 1000. NEW YORK. LYNBROOK, L. I.

Now Ready For Delivery

New Chrysanthemums

Miss Clay Frick (the white sport of Wm. Duckham), Winter Cheer and Buttercup; all good commercial sorts. Price, 2 1/2 in., pots, 50c. each; \$35.00 per 100.

American Beauty

7,000 plants in superb condition, ready to pot from 2 1/2 in. Every plant unconditionally guaranteed by me. Price, \$8.00 per 100; \$75.00 per 1000. Samples mailed.

New Carnations

Pierson's Winsor; the all-around good thing. Easy to grow; hard to do without. Also Helen Miller Gould, Imperial and Pink Imperial, all at \$12.00 per 100; \$100.00 per 1000; pots 2 1/2 in., \$14.00 per 100. A splendid lot of White Perfection, in 2 1/2 in. pots, \$10.00 per 100.

CHARLES H. TOTTY,

MADISON, = = N. J.

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VERBENAS 60 Finest Varieties Perfectly Healthy

Rooted Cuttings. Our selection.....\$.75 per 100 \$ 6.00 per 1000
Plants. 2.50 per 100 20.00 per 1000
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CARNATIONS Choice Rooted Cuttings Free From Disease

Robert Craig, scarlet, very productive; My Maryland, pure white, good stems. Cardinal, scarlet, good flowers; Jessica, white, pencilled with scarlet. Price \$5.00 per 100, \$50.00 per 1000.
Crisis, Lady Bountiful, Enchantress. Price \$3.00 per 100; \$25.00 per 1000.
Mrs. M. A. Patten, Judge Hinsdale, Flamingo, Buttercup. Price \$2.50 per 100; \$20.00 per 1000.
Mrs. Thomas Lawson, The Queen. Price \$2.00 per 100; \$17.50 per 1000.
Golden Beauty, Prosperity, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000.
Mrs. E. A. Nelson, Dorothy, Wm. Scott, Flora Hill, Ethel Crocker, Eldorado, Mrs. Joost, Portia. Price \$1.50 per 100; \$12.00 per 1000.

J. L. DILLON,

BLOOMSBURG, PA.

Mention The Florists' Exchange when writing.

ORCHIDS

Arrived in fine condition, Cattleya Harrisoniana, C. Inermis, C. Gigas, C. Trianae, Spectabilis, C. Leopoldii, Laelia Purpurata, Oncidium Varicosum Rogersii, O. Marshallianum, Phalaenopsis Amabilis and P. Schilleriana. Write for prices.

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SPECIAL OFFER

Cyclamen Splendens Giganteum. This strain has no equal or better; in five colors, including fringed varieties twice transplanted from flats \$3.00 per 100, \$25.00 per 1000.
Primula Obconica Grandiflora. The celebrated Ronsdorfer and Lattmans Hybrids in bud and bloom, from 5 in. pots, \$1.80 per doz., \$15.00 per 100.
Primula Chinensis. Fringed varieties, extra fine plants in bud and bloom, from 4 in. pots, \$1.00 per doz., \$8.00 per 100.
Cinerarias Hybrida Grandiflora. Well grown plants, 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 5 in. pots \$15.00 per 100.
Asparagus Plumosus Nanus. Fine plants, 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 3 1/2 in. pots \$8.00 per 100.
Cannas. Pres. McKinley, Alph. Bouvier, Chicago, Queen Charlotte, Florence Vaughan, Egandale, J. D. Cabos fine tubers, no better, true to name \$2.00 per 100, \$17.50 per 1000.
PAUL MADER, EAST STRONDSBURG, PA.

Mention the Florists' Exchange when writing.

KENTIA BELMOREANA

5 in., clean and bushy, 50c. and 75c. each. 22 in., for center of fern dishes, 10c. each; \$9.00 per 100.

SCOTTII FERNS, 6 in., 40c. DRACAENA INDIVISA, 6 in., 35c. FERNS FOR JARDINIÈRES, etc., \$3.00 per 100

H. WESTON, HEMPSTEAD, N. Y.

ASPARAGUS Plumosus Nanus

Seed is in perfect condition. Well ripened and full size. 60c. per 100; \$2.50 for 500; \$4 per 1000. Special prices on large quantity.

EDWARD J. TAYLOR, Southport, Conn.

Asparagus Plumosus Nanus

Strong plants, 3 inch pots, 6c.

ASPIDIUM TSUSSEMENSE

3 inch pots, full and bushy, 6c.

One No. 4 Weathered Boiler in first-class order, \$30.00 cash.

R. G. HANFORD, Norwalk, Conn.

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THE AMERICAN CARNATION

Price \$3.50

A. T. DE LA MARE PTG & PUB CO. LTD 2-8 Duane Street, New York

Indianapolis.

News Items.

Charles Vollrath, of Bertermann Brothers Company, is ready to build a home to be occupied by a loving couple in June.

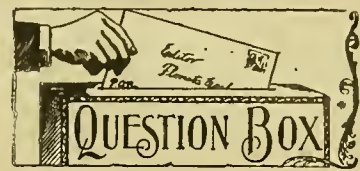
Friends of Martin Nelson are sorry to hear that the boiler in his establishment gave way at a most inopportune time.

T. Hasselmann is making an extended tour on the Pacific coast.

A. Wiegand & Sons contemplate putting in a new heating system as soon as the weather permits.

Two commercial conservatories are being erected in Irvington. This should be a good location, as the city is rapidly moving that way.

Bert Stanley has accepted a position as gardener for Joseph Taggart. Visitors: Thos. Knipe, Kokomo; Harry Jones with R. Ward & Company, New York. I. B.



The Golden Bell.

(35) Will you kindly give me the name of the flower called "golden bell," selling in early Spring in New York City. J. H. California.

—Forsythia viridissima.

To Get Rid of Stump-Tailed Rats.

(36) I have two greenhouses planted with mint, and the entire crop is undermined by what are called stump-tailed field rats. Please inform me if there is any way by which I can get rid of them. New York. A. L. S.

—We have never before heard of this class of rats, but we presume they can be cleaned out with poison, the same as ordinary rats. We would advise getting a can of peas, mixing a good dose of rat poison with the contents, and using them about the greenhouse as a bait for the rats.

Hybrid Tea Roses for Outdoors.

(37) What are the best four ever-blooming hybrid tea roses for outdoor planting—white, yellow, pink and crimson; and also the four best ever-blooming tea roses, for Western New York? A. W.

—The following varieties of roses are recommended for New York in a recent publication: Hybrid teas, white, Kaiserin Augusta Victoria; pink, Killarney; yellow, Francis Deegen; crimson, Etoile de France. For teas—white, White Maman Cochet; pink, Maman Cochet; yellow, Doctor Grill; bright red, Jules Finger.

Calceolaria Leaves Turning Yellow.

(38) Please let me know what is the cause of calceolaria leaves turning yellow. N. P.

—The chief cause of calceolaria leaves turning yellow at this time of the year is over-watering or bad drainage. Sometimes calceolarias, if potted in a too fine soil, one that compacts easily, will turn yellow and lose their leaves. Sometimes the leaves will turn yellow from a too heavy fumigation of tobacco. If the questioner had given any particulars in his letter as to how the calceolarias were being treated, and what kind of soil they were potted in, we could, perhaps, have furnished a more definite answer to his question.

Manure on Smilax; Forcing Narcissus

(39) I bought manure one year from two horses and one cow from one of my neighbors, who uses only dry leaves from the woods for bedding the whole year around. This was last May. I have turned the manure twice since, and used it as mulching on smilax. Now it seems to me that my plants do not grow as in previous years when I had regular manure from straw. Do you think the other manure had something to do with the trouble? It was well rotted.

Please tell me how soon I can start to force Narcissus Trumpet Major and Princips. Could I have them brought in on the first of January? New York. L. E.

—Manure that has been made with leaves should be just as good for smilax as that from straw.

The Trumpet Major and Princips narcissus may be brought in any time now and will force all right. They could, of course, have been brought in early in January, but the chances are they would not have done so well if started so early.

see a solitary flower now and then, it is of the Roosevelt color. I have never seen a Harlowarden flower before. I cannot find any difference in the habit of the plants of the two varieties; they have the same growth and foliage. I do not care for that color at all, as I have a few Roosevelts, and they do not sell well. I thought Harlowarden was much lighter in color than the latter. Please tell me what the difference is, if any. J. L. Iowa.

—We cannot understand how any one could purchase the carnation Harlowarden under the impression that it was a light-colored variety, seeing that this carnation has been spoken of so often in the trade papers and its color described. Both Harlowarden and Roosevelt are classed as "crimson" varieties. We have always considered Harlowarden was the darker of the two. How they compare in general habit and foliage we are unable to say, as we have never grown Harlowarden.

Ardisia Crenulata; Camellias.

(41) Will you kindly tell me the best method of culture for *Ardisia crenulata*; the best soil and temperature, and whether the plants should be set outside or kept in the greenhouse in Summer? How long before they will fruit from seed? Is the *Camellia japonica* handled the same as the azalea? SUBSCRIBER.

New York.
—The *ardisia* is a heat-loving plant, and requires three years from seed to bring it to fruition. During the Winter months a night temperature of 58 or 60 degrees should be given, and through the Summer months the plants may be grown in frames outdoors, but where the sash can be put on at any time should occasion arise. They require a very rich soil, one that has been composted a year or more being the best, as there must be no fresh or half-rotted manure in the soil if the plants are to do their best. To save time in the cultivation of *ardisia* it would be much better to purchase one or two-year-old plants from some of the larger growers who make a specialty of them.

It can safely be said that the treatment of *camellias* is similar to that accorded azaleas, with the exception that when the former are in bud they will not stand so low a temperature as will the azaleas.

Orchids.

(42) Kindly name and give full cultural directions for the enclosed plants: Number 1, an orchid, kept in cool house, 45 degrees at night, potted in peat, in immense pans; has received no attention for years, nor bloomed. At present time it is in good shape, having made growth last Summer and Fall. Number 2, kept in a temperature of 55 to 60 degrees at night, in a 16-inch pot, much pot-bound. Height, 2½ feet. One bloom last Spring; in size and shape resembled that of a *Cattleya Trianae*, but of solid light purple. At present in healthy condition.

Will you also inform me if it is best to divide *Cypripedium insigne* when repotting. This Spring plants are much pot-bound, in 8, 10 and 12-inch pots and pans, and gave few blooms; they are kept in a temperature of 45 to 50 degrees at night, north exposure.

Conn. H. B. B.
—Number 1 is *Brassia verrucosa*; number 2, *Sobralia macrantha*. The cultural directions for these two plants it is not necessary to give here as the party making the inquiry is treating the plants right in every way; and as he also states that the plants are growing well and are in good condition, nothing more need be done. The only thing I would suggest is to move Number 1 into the house where Number 2 is grown, when the plants will probably flower.

In regard to dividing *Cypripedium insigne*, this depends whether more stock is wanted; if not it would be better to give them a shift, but not too much, as *Cypripedium insigne* flowers better when a little pot-bound. The temperature is also somewhat low; 50 to 55 degrees at night would be better. In

fact, in some places where this plant is grown and flowered to perfection, the night temperature is kept at 55 to 60 degrees. This tends to draw out the flower stems, as in a very low temperature, while the plants will live and grow, the flower stems are too short to be of much use. A little feeding is also useful.

Propagation of Ilex Verticillata.

(43) How is *Ilex verticillata* propagated? Can it be rooted in sand bench? When and how? Indiana. K. Co.

—*Ilex verticillata* can be raised from seed sown in the open ground, or it can be propagated from cuttings of ripened wood taken in Autumn and put in sand in a cold frame, where they should remain until the following Summer without being disturbed.

Shy on Stems.

(44) Will you kindly advise me of the cause of my tulips and hyacinths having scarcely any stems. Could it be possible they were brought in too quick? New York. BEGINNER.

—The probable reason for the tulips and hyacinths not having better stems is that they were put into the full light too early in their growth. When forcing bulbs the length of stem should always be a main consideration, and to obtain that end, the flats or pots in which they are grown should be placed under a bench or in some similar shaded place where there is a good heat, so that the stems will necessarily be drawn out before the flowers get far developed.

Propagating Lemon Verbena.

(45) How and when should lemon verbena be propagated? D. F.

—Lemon verbena can be easily propagated if one has some plants in active growth, by taking cuttings and rooting them in the propagating bench, under which a good, steady heat is kept. This plant can also be raised readily from seed. It will be found in the seedsman's catalogue under its proper name of *Aloysia citriodora*.

Piping.

(46) Can I use two-inch pipe in an up-hill, open system (hot water) in a house 150 feet long? D. F. New York.

—Professor Taft in his book on "Greenhouse Construction" says: "Two-inch pipe will work well up to 150 feet, but it is better in all houses over 100 feet long to use two or more short coils of 1½ inch pipe."

Carnations.

(47) Kindly tell me what varieties of carnations, scarlet, pink, white, shell pink and white penciled with red, are best suited to grow in one house. At what temperature should I run such a house? I do not desire to grow a very fancy or poor grade, but a good medium grade. As I have not had a great deal of experience in growing carnations I would prefer those not too difficult to manage. I live on Long Island, and intend to ship to New York market. Which is better for carnations—a solid bed or raised bench? New York. A. N.

—For such a collection of carnations we would keep the house at a night temperature of from 52 to 54 degrees, and would plant the following varieties: For white, White Lawson or White Perfection; for light pink, Welcome; for scarlet, Beacon; for variegated, Mrs. M. A. Patten; for shell pink, Enchantress. As to which is the better, solid beds, or raised benches, the latter are preferable where the plants are grown outdoors through the Summer and planted in the houses in the Fall; but if the plants are grown indoors all Summer, solid beds are preferred.

A Rose Trouble.

(48) I dried our roses off well, and about one month ago cut them back, starting them in a house at about one inch long I put on a mulch break, and when the growth was about 56 degrees night temperature. They began to make a fine, healthy



PREPARE FOR EASTER

In Philadelphia there's a florist noted,
Aschmann, his name, his plants beyond compare;
To a sweet girl his heart is all devoted,
Next rank his *Araucarias*, passing fair;
When seen together they're a pair so charming—
Brinful of beauty—both he cannot keep;
So to his heart he'll hold his winsome darling,
While you may have the *Araucarias* cheap.

An immense stock of choice Easter plants, blooming Easter week or earlier if desired, are now ready for immediate shipment.

COME or Mail your order direct to Headquarters. Our reputation over the entire country, from the Atlantic to the Pacific, in growing Easter stock for many years past, is sufficient guarantee to prove what I say.

We have every house, nook, hole and corner full; plants were never so fine as they are this year, 1907.

While laborers, merchants, jobbers, contractors, builders, etc., have increased their prices nearly double, we DO NOT advance our prices; look! we sell our plants at the same old prices charged two or three years ago when the producing of plants was much cheaper.

What was my duty during my trip to Ghent, Belgium, the land of Azaleas, *Araucarias* and Palms, last Fall, 1907? Answer: The interests of my customers, of course; not speaking of the 100 Souvenir Cards which I mailed to my customers in America. I also bought for their benefit, *AZALEA INDICA* for Easter sales, the cream of Belgium's production. I am able to offer to my customers and the trade in general, two houses full of *Mme. Van Der Cruyssen* azaleas, the well-known and most favored, best double, pink azalea, giving so much satisfaction all over America. Plants as round as an apple, just covered with buds, 6 in. pots at 60c., 75c., \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each. Other fine varieties adapted for the American Market, such as Niobe, Bernard, Andrew Alba, Deutsche Perle (double white), Prof. Wolters, Empress of India, *Vervaeckiana* (double variegated), and about eight more fine sorts, all covered with buds, price 75c., \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each. We have a limited quantity of 50c. to 60c. azaleas, such as Apollo (double dark scarlet), *Deutsche Perle*, Simon Gardner, and a few others.

Lilium Multiflorum and *Japan Longiflorum* were never so fine as this year. All sizes; can meet all wants; 6 in. pots, 5 to 8 buds to a plant, 10c. per bud; 4 to 6 buds and under, 12c. per bud.

Spiraea Gladstonei, 6 to 7 in. pots. These plants are very large and bushy, and unusually fine this year, full of buds; price, 50c., 75c., to \$1.00 each.

Hydrangea Otakei (pink) 6 to 7 in. pots, 40c., 50c., 75c., \$1.00, \$1.25 to \$1.50 each.

Cinarraria Hybrida, have a house full, all shades, 5, 5½ to 6 in. pots, \$2.50, \$3.00, \$4.00 to \$5.00 per doz.

Crimson Rambler Roses, 3 ft. high and over, \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each.

Bagonia, new improved Erford, an immense bloom, blooms all summer and winter through, 5½ in. pots \$3.00 per doz.; 4 in., \$1.80 per doz.

Primula Obconica, 6 in. pots, \$2.50 per doz.; 4 in., \$1.60 per doz.

Queen Alexandra and *Marguerite Daisies*, 5½ in. pots, \$2.50 per doz.

Araucaria Sappida (palm), 6 in. pots, 50c.

Dracaena Bruantii, 6 in., 50c.

FERNS, *Nephrolepis Barrowsii*, 6 in., 50c. to 75c.; 5 to 5½ in., 40c. Scottii, 8 in., very long, \$1.50 each; 5 in., 35c. Boston Ferns, 5 in. pots, 25c. to 30c.; 6 in., 40c. to 50c.; 7 in., 75c.

Kentia Forstiana, 7 in. pots, make up one large one in center, three small ones around, \$1.50 to \$1.75. *Kentia Forstiana*, single plant, 36 to 50 in. high, \$1.00, \$1.25, to \$1.50 each.

ARAUCARIA COMPACTA ROBUSTA, 5 year old, 7 in. pots, 25 to 30 in. high, same in width, 4 to 5 tiers, very swell stuff, \$1.00, \$1.75, to \$2.50 each. *Araucaria Excelsa* (Glaucia, 20 in. high, 4 tiers, 4 year old, \$1.00, \$1.25 to \$1.50 each. Specimen Glaucia, 7 in. pots, 5 year old, 5 tiers, 30 to 35 in. high, \$3.00 each. *Araucaria Excelsa*, 4 year old, 6 in. pots, 25 to 35 in. high, 5, 6 to 7 tiers, \$1.00, \$1.25 to \$1.50 each.

Hyacinths, raised from first class bulbs of my own importation. Notice: These bulbs cannot be compared with ordinary stuff flooding the market. King of the Blues, Grand Maitre (Lavender blue), Gertrude (best pink), Grassie (white), 4 in. pots, \$1.00 per 100.

Tulips, *Tournesol*, red and yellow variegated; this is the best selling tulip on the market, will stay in full bloom 10 days. 3 bulbs planted into a 4 in. pot, price \$1.00 per 100 or \$1.50 per doz. pots.

Narcissus, or Double Von Sion Daffodils best double yellow in the world, will sell on sight, 3 double nosed bulbs planted into a 5, 5½ to 6 in. pot, price \$2.50 to \$3.00 per doz. pots. All bulbs are of my own importation, now outside in cold frame, and will bloom 2 weeks after bringing them into the greenhouse.

MOON VINE, *Ipomoea Multiflora*, (A. W. Smith, originator), best pure white, largest and most fragrant moon vine in the world. We have made a specialty of it for the past 15 years, and are known as the moon vine growers of America. Grow 20,000 of them, 2½ in. pots, \$5.00 per 100; now ready. Mention if pots are wanted with all plants. Cash with order, please. All goods must travel at purchaser's risk only.

GODFREY ASCHMANN, 1012 Ontario Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

of fresh cow manure. The following day they started to turn yellow; first the leaves showed a spot that looked like a scald; then the smaller leaves began to curl and drop off. Do you think this was caused by the fresh manure, or were the plants started in a too warm temperature? New York. S. BROS.

—It is quite evident that the roses were started with too much heat in the beginning, and as a result the young growths were made before root action commenced. The growths thus made would be very tender, and the fumes from the fresh manure used as a mulch caused them to turn yellow and drop off. We remember seeing a case exactly like the one mentioned, and ninety per cent. of the rose plants died from the combined effects of the green manure and being started into growth with too much heat.

Stem Rot of Lilies.

(49) Kindly tell us the cause of the stem rot of our longiflorum lilies. We have quite a number acting in the same manner as the plant sent. The plants are well rooted and the tops are healthy on all of them. Growing temperature has been 65

degrees at night for about five weeks. Never having before seen this rot among lilies we would like to know the direct cause. F. V. & H. R.

—The pot of lilies arrived here in a badly frozen condition. We notice at the collar of one of the plants, also at the junction of the stem where a leaf has been torn off, that there is an appearance of what seems to be more like a damping off of the outer skin than any general disease, and to us this would seem to have been caused by a bruise at a time when the growth first made its appearance. One of the plants does not show the trouble at all, and whatever may have caused the black or diseased part of the stem, we do not think that it will materially affect the growth of the plants. However, we cannot be sure of this, and it would be well to keep careful watch of the plants; in fact, we would, if possible, place them together at one end of the bench and pay close attention as to how they behave. At the present time we cannot offer anything further relating to the trouble.

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER. The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or Other Vacancies; also of Greenhouses, Land, Second-hand Materials, etc., For Sale or Rent. Our charge is 10 cents per line 7 words to the line, set sold, without display. No advt. accepted for less than thirty cents. Display advertisements in these columns, 15 cents per line; coat 12 lines agate to the inch. [If replies to Help Wanted, Situation Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.] Copy must reach New York office 12 o'clock Wednesday to secure location in issue of following Saturday. Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—By middle-aged, married man; all around grower. Address, Wm. H. Klump, Lakeview Rose Gardens, care General Delivery, Jamestown, N. Y. SITUATION WANTED—By florist, German, 31 years of age, single, good grower, designer, also, landscape gardener. Sit. wages. Address, A. T., care The Florists' Exchange. SITUATION WANTED—As florist and saleslady, New York and foreign experience, eight years. References. Address, R. A., care The Florists' Exchange. SITUATION WANTED—In New England states, by young man, 17 years of age, as greenhouse assistant. Some experience in carnations. Address, A. Y., care The Florists' Exchange. SITUATION WANTED—By sober, active, single, industrious Swede, aged 28, grower of violets. Wages or shares. Good store assistant. Excellent references. Address, A. H., care The Florists' Exchange. SITUATION WANTED—Wholesale or retail, long experience in charge of roses, carnations, chrysanthemums, etc. First-class references. Would take section on large place. Address, A. G., care The Florists' Exchange. SITUATION WANTED—As head gardener on private place, with good greenhouses, by Swede, aged 50, life experience in Sweden, England, Germany and America. Address, A. A., care The Florists' Exchange. SITUATION WANTED—As head gardener or general superintendent of a gentleman's estate by a first class man, 7 years in present situation. Aged 40 years. Address, M. M., care The Florists' Exchange. SITUATION WANTED—By young Norwegian florist, as assistant in greenhouses on private place. Six years' experience; honest, sober and industrious. Please state particulars. Address E. K., care Mr. Thompson, Y. M. C. A., Passaic, N. J. SITUATION WANTED—As foreman on commercial or private place. Single man, 18 years experience in this country and Europe. Best of references. Address, Peter Kleinsorg, care Julius Rochrs Company, East Rutherford, N. J. SITUATION WANTED—By first-class up-to-date grower of roses, carnations, chrysanthemum and general pot plants and forelog stock. 15 years' experience. Good references. Full particulars and salary please. Address, N. N., care The Florists' Exchange. SITUATION WANTED—Thoroughly experienced competent rose grower desires position as foreman. Would be willing to work good sized place, partly on percentage. Personal references. Address, A. E., care The Florists' Exchange. SITUATION WANTED—Head gardener or foreman, on private or commercial place, thoroughly experienced in general indoor and outdoor stock. 32 years of age, single, 18 years' experience. Address, N. O., care The Florists' Exchange. SITUATION WANTED—Thoroughly learned gardener, 25 years of age, German, single, wants steady position. Experienced in growing roses, carnations, chrysanthemums and bedding plants. Private place preferred. References. Address, R. E., care The Florists' Exchange. SITUATION WANTED—Foreman's position wanted by hustling, A. No. 1 grower of European seven years and American twenty years' experience. 8 years in present place. German (naturalized); married. Liberal wages expected. Address, A. W., care The Florists' Exchange. SITUATION WANTED—Competent German, married, no children, good cultivator of flowers, fruit and vegetables in and out-of-doors. Expert grower of roses, carnations and chrysanthemums, seeks position on gentleman's private place. Please state wages. Address, D. E., care The Florists' Exchange. SITUATION WANTED—As head gardener on gentleman's place. Experienced grower under glass and in all branches of horticulture, live stock, poultry. Open for engagement, about April 1. German, married, aged 32, two children. A No 1 references. Address, H. S., P. O. Box 86 Hempstead, N. Y.

SITUATIONS WANTED

SITUATION WANTED—Head gardener or foreman's position wanted in good-sized establishment by first-class grower, life-long experience in all branches of gardening; for pleasure or profit. Married, no small children, 8 years in present (commercial) place. Address, A. X., care The Florists' Exchange. SITUATION WANTED—By German florist, married, one child, 9 years in this country, 15 years' experience as florist and landscape gardener. Wants position as foreman in general greenhouse work, or good private place. Very best references can be furnished upon request. Julius Bauer, Riverside, N. J., P. O. Box 203. SITUATION WANTED—By gardener and farm manager, thoroughly experienced in all branches of greenhouse work for commercial or private use, vegetables, lawns and fruit gardens, the care of live stock, growing of crops and general farm work. Aged 37, married, one child. Best of references. Box 421, Oyster Bay, L. I., N. Y.

SITUATION WANTED

By expert grower of fine roses; also well experienced in all kinds of cut flowers and pot plants. Capable of taking charge of large place with business ability. Can manage help to advantage. Aged 34, married, first class references. Address, E. PETERS, 69 Morgan Ave., Brooklyn, N. Y.

HELP WANTED

WANTED—A good grower of general stock; must be sober and honest and a hustler. Address, A. B., care The Florists' Exchange. WANTED—Married man for cranation section. Middle states, \$15.00 per week. Address A. Z., care The Florists' Exchange. WANTED—Two young men. Bright and active for packing department. Thomas Mechan & Sons, Inc., Box A, Germantown, Philadelphia, Pa. WANTED—Steady, sober man, must be good grower of roses. Apply with references from last employer to Wm. R. Morris, Wellesley, Mass. WANTED—Single man for assistant in rose house. Steady position. Address or apply to F. C. Schweinfurth, Ridgewood, N. J. Erie R. R. WANTED—Bright young man to assist in greenhouses; good position in new up-to-date place. Address with particulars to, A. C., care The Florists' Exchange. WANTED—A good all-around florist for a downtown retail flower store in Chicago. Must come well recommended. Address, B. F., care The Florists' Exchange. WANTED—Single man as working foreman, with knowledge of growing Adiantum and Sprengerii. Address with qualifications, D. M., care The Florists' Exchange. WANTED—Assistant for inside. Must have good knowledge of bedding and general cut flower stock. Place private. Wages, \$50.00. Box 232, Glen Cove, N. Y. WANTED—Good carnation grower for section. Wages, \$50.00 per month. Send full particulars in first letter. Drinking man not wanted. Address, James D. Cockcroft, Northport, L. I. WANTED—Young man with some experience in general greenhouse work. Position permanent and good home. State age, experience, references and wages per month with board. Geo. S. Belding, Middletown, N. Y. WANTED—Two bright, energetic, commercial, greenhouse men with a knowledge of palms, ferns and a general line of plants. Wages, \$55.00 per month and room. Address, R. W., care The Florists' Exchange. WANTED—Willig helper on bedding plants. Quick potter; man with small family preferred. Wages \$35.00, house and coal. Give references. Wm. S. Herzog, Morris Plains, N. J. WANTED—First class greenhouse assistant. One who has had European experience on good private establishments preferred. Wages \$50.00 per month. Address, Box 174, Hyde Park on Hudson, N. Y. WANTED—Assistant greenhouse foreman, accustomed to making rose cuttings, taking charge of section of greenhouses, and capable of filling and packing orders. Best of references required. The Elizabeth Nursery Company, Elizabeth, N. J. WANTED—Man with some experience in general greenhouse work. Position permanent to right man. Wages to start \$25.00 per month, with board and room. State experience and references. Address, Paul E. Rielwagen, Highland Ave., Needham, Mass. WANTED—A good, reliable nurseryman who understands the propagation of shrubs, perennials, etc., and who has had experience in landscape work. Give full particulars and state salary expected. C. R. Fish & Company, Worcester, Mass. WANTED—Two travelers, not over 35 years of age, who can show undoubted proof as successful seed salesmen. Only those apply who have experience, energy and can give first-class references. Northrup, King & Co., Minneapolis, Minn.

HELP WANTED WANTED

Settled, married man of experience to take management of established florist store. Salary and part interest, or all salary, as desired. Address, XXX, care The Florists' Exchange. WANTED—By first of March, a single young man, with some knowledge of outdoor gardening work, to take care under superintendent of flower and vegetable gardens, on gentleman's large private place. Scandinavian with some knowledge of English would be preferred. Apply to John Persson, Supt. Plandome Mills, Port Washington, L. I., N. Y. WANTED—A good designer, capable of taking care of three greenhouses and small garden. Of good appearance, strictly honest, sober and industrious. Well up in English; capable of taking telephone orders. Good place for right party. References required. Address, S. Fuller, 31 Orchard street, Leominster, Mass. SALESMAN WANTED To travel and solicit orders for nursery stock for an old established nursery. Those who have a knowledge of nursery stock and have had experience in that line. Steady employment and good pay to men who are satisfactory. Address with references, R. D., care The Florists' Exchange. Mention the Florists' Exchange when writing. WANTED—By a florist and nurseryman, an energetic young man of some experience in greenhouse work, as an assistant and learner. Good habits and a fair education required. Steady position for the right young man, at fair wages and advancement if worthy. Address H. E., care The Florists' Exchange.

WANTED

Truck gardener; use of house and vegetables allowed. Must be temperate, industrious, married; without children preferred. State age, experience and salary expected. Address, S. S. S., care The Florists' Exchange. Mention the Florists' Exchange when writing.

WANTED

Manager for a first-class retail store in Boston; must have wide experience in designing, etc., and accustomed to wait on first-class trade. Steady position, with very best salary to right party. Give particulars with applications. Address, A. D., care The Florists' Exchange.

WANTED

A first-class designer and decorator; must be sober, honest and industrious, and well up in the business. Please state former position, also references and salary expected. Fred C. Weber, 4326 Olive Street, St. Louis, Mo.

MISCELLANEOUS WANTS

WANTED TO BUY Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange. WANTED—To buy greenhouses to be taken down. Price and location with particulars. Address, T. F. T., 4 Cross street, Middle Village, L. I., N. Y. WANTED TO RENT—With privilege to buy, a few greenhouses within 25 miles of New York. 10,000 or more feet of glass. Address with full particulars to A. N., care The Florists' Exchange. WANTED TO RENT—A well experienced grower of cut flowers, wants to rent with privilege to buy, a commercial place in good running order, not less than 15,000 ft. of glass up to 30,000. Pennsylvania preferred; would take possession any time. Address with full particulars to H. Z., care The Florists' Exchange. RARE OPPORTUNITY—For a florist to establish a good paying business; 16,000 inhabitants, one of the fastest growing towns in the State. The grounds are especially adapted for the business. Main Ave., on line of trolley. Five minutes from station. White Plains, N. Y. For full particulars apply to Elmo Brown, 3 Court street, White Plains, N. Y.

FOR SALE OR RENT

TO LEASE—Three houses, 135 ft. long, stocked with roses, now running; also dwelling in near station. Will rent cheap. Hill, P. O. Box 133, Madison, N. J. FOR SALE—Retail seed and floral store; main street, large city, 25 miles from New York. Business well established; or partner wanted. Address, A. P., care The Florists' Exchange. FOR SALE—Small range of glass and land, at Cambridge Springs, Pa. Price very reasonable; fine opportunity for young man to make a start. Address, J. W., care The Florists' Exchange. FOR SALE—Four greenhouses, seven-roomed dwelling house, large barn, 7 acres of land, all stocked with carnations and lilacs, one mile from station; 30 miles from Long Island City. Immediate possession. Address H. D., care The Florists' Exchange.

FOR SALE OR RENT

TO LET Retail Florist Store situated at 98 Broad Street, Newark, N. J. with three greenhouses attached, good show room facilities. Address

THOS. ELSUM 243 Belleville Av. Newark, N. J. Mention the Florists' Exchange when writing. FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gunter, which is fast coming into use by the growers. This season many thousand feet were erected, and at present an shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; come better; and is doing a large business all through the season. Address, E. Hippard, Youngstown, O.

FOR SALE

A well equipped place, consisting of seven greenhouses, over 50,000 feet of glass, a nice roomed house, barn, stock, etc., and eight acres of land. This is a decided bargain and a rare opportunity. For particulars address S. S. SKIDELSKY, 824 N. 24th St., Philadelphia, Pa. Mention the Florists' Exchange when writing.

STOCK FOR SALE

10,000 California Privet 1-year, well rooted, \$1.25 per 100; \$10.00 per 1,000. Address, W. F. Allee, Salisbury, Md. FOR SALE—100 to 500 Cypripedium insajoe, 6-in. pans, fine healthy, flowering stock. For price apply to Joseph Towell, Paterson, N. J. BRENCHELYENSIS GLADIOLUS, second size, \$8.00 per 1000. Cash with order. Estate of Louis Siebrecht, Floral Park, N. Y. CARNATIONS—Rooted cuttings, leading varieties. Queen and Fair Maid, \$1.00 per 100; \$10.00 per 1000. Address, Napoleon LeMay, New Bedford, Mass. PHLOXES, twenty choice named varieties, strong, field-grown plants, \$4.00 per 100; \$30.00 per 1000. Mt. Desert Nurseries, Bar Harbor, Me. GENUINE Irish Shamrock, 2 1-2 in., \$4.00 per 100; \$35.00 per 1000; 25¢ at 1000 rate; 60¢ per dozen by mail. Cash with order. Plants this year very fine. Order now. D. Harcourt's Son, Wappingers Falls, N. Y. BABY RAMBLER ROSES, fine dormant stock, one year, \$12.00 per 100; 1-4 in. pot plants, extra 1-2 in. well rooted, \$4.00 per 100; \$30.00 per 1000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y. TO CLEAR the land for other stock; 3,000 Willow, laurel leaved and golden, 4 to 6 ft., \$9 per 100; 8 to 8 ft., \$14.00 per 100. 4,000 White Pine, 8 to 14 in., \$6.00 per 100, transplanted; 8 to 10 in., \$3.00 per 100, seedlings. 2,000 Hemlock, 4 to 8 ft., \$7.00 per 100, transplanted; 6 to 10 in., \$3.60 per 100, seedlings. Fine, clean stock. The Pierce Nurseries, Beverley Farms, Mass. Geraniums FOR SALE—3,000 in 3/4 and 4 in. pots, \$50 per 1000; S. A. Nutt, General Grant, Beante Pointeview, White Swan, 500 Ageratum, blue and white, from 2 1-4 in. pots, \$2.50 per 100. 100 Dracaena Indivisa, \$20.00; 100 Vinca, variegated, \$4.00. 150 of Heliotrope, dark, 3 1-2 in. pots, \$10.00. 1,500 Carnations, from soil, \$50.00; Encantress, Lawson, Bradt, Queen Louise, 800 Roses, 2 1-4 in. pots, \$20.00. Cash with order. Payne & Haas, 676 Valley Road, Upper Montclair, N. J. ROSES—American Beauty, rooted cuttings, \$5.00 per 100; \$45.00 per 1000; 2 1/2 in. pots, \$8.00 per 100; \$75.00 per 1000. Richmond, rooted cuttings, \$5.00 per 100; \$45.00 per 1000; 2 1/2 in. pots, \$5.00 per 100; \$75.00 per 1000. Bridesmaid, rooted cuttings, \$2.00 per 100; \$17.50 per 1000; 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Strong, well rooted stock. None better grown. Cash with order. Shipments made same day. Alfred P. Smith, Madison, N. J.

Cultural Directions

Are leaflets written by practical men especially for the use of amateur customers. If you have a counter trade, either in plants, seeds, flowers or bulbs, you should have a supply of these leaflets on hand to present to your customers when they seek cultural information about their purchases. (The leaflets embrace over forty subjects.) We can supply them at \$2.50 per 1000, or 50¢ for large quantities. At a small extra cost we can put your imprint on each leaflet. Try a thousand and see what a help they are in selling goods. THE FLORISTS' EXCHANGE P. O. Box, 1697 NEW YORK Mention the Florists' Exchange when writing.

WELCOME

THE ROSE PINK SPORT OF LAWSON, a favorite among storekeepers

\$12.00 per 100; \$100.00 per 1000 Well rooted cuttings, now ready.

Cash or satisfactory references with order.

DAILLEDOUZE BROTHERS, FLATBUSH - - - BROOKLYN, N. Y. Mention The Florists' Exchange when writing

Green Carnations

Enough powder to make 1 quart of Coloring \$1.00, Gallon \$3.50. Prepaid to any address.

Buy from the ORIGINATOR. Goods guaranteed to be the best on the market.

Samples free. Write-to-day

FRED GEAR, The Originator not the Imitator 1113 VINE ST., CINCINNATI, OHIO

ROOTED CUTTINGS

Table listing carnation varieties like WHITE-Queen, Lady Bountiful, PINK-Lawson, etc. with prices per 100 and 1000.

QUIDNICK GREENHOUSES J. H. CUSHING Prop., QUIDNICK, ANTHONY P. O., R. I. Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock VINSOR and HELEN M. GOULD, \$12.00 per 100, \$100.00 per 1000. ROBERT CRAIG, VICTORY, HELEN GODDARD, \$8.00 per 100, \$50.00 per 1000.

Table listing various carnation varieties like VERENAS, Ageratum, etc. with prices per 100 and 1000.

ASPARACUS

Table listing Asparagus varieties like PLUMOSUS NANUS, SPRENGERI, etc. with prices per 100 and 1000.

CANNAS

Strong dormant Roots in 30 fine varieties \$2.00 and \$3.10 per 100; \$16.00 and \$25.00 per 1000.

Grafted ROSES Own Roots

Orders booked for early delivery. KILLARNEY, RICHMOND, JOE HILL, KAISERIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, PEARLE, SUNRISE, SUNSET, etc.

MANETTI STOCKS

\$1.25 per 100; \$10.00 per 1000. Send for List.

WOOD BROS., FISHKILL, N. Y.

S. J. GODDARD

Framingham, Mass.

Rooted Carnation Cuttings a Specialty.

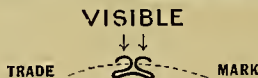
Correspondence Solicited. Mention the Florists' Exchange when writing.

LOOK HERE

ROOTED CARNATION CUTTINGS 250 at 1000 rate

LADY BOUNTIFUL, WHITE LAWSON, VARI-GATED LAWSON, \$3.00 per 100; \$25.00 per 1000. MRS. PATTEN, ENCHANTRESS, \$2.50 per 100 \$20.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE BRIDGEPORT, CONN.



SAVE YOUR SPLIT CARNATIONS

The Baner Clip and Plier will do it in a SPURSLIKE manner at a minimum of time and expense. Saves lots of money. Inexpensive instantly applied and Practically Invisible.

BAUR FLORAL CO., Erie, Pa. Mention the Florists' Exchange when writing.

MABELLE-- New Pink Carna- tion for 1907

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size.—Three to four inches in diameter when established.

THE H. WEBER & SONS CO., OAKLAND, MD. Mention the Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS NOW READY

Table listing carnation varieties like PINK LAWSON, WHITE LAWSON, RED LAWSON, etc. with prices per 100 and 1000.

WENDEL BIEAR, PALMER YONKERS, N. Y. Mention the Florists' Exchange when writing.

CARNATIONS

Table listing carnation varieties like Victory, Abundance, Enchantress, etc. with prices per 100 and 1000.

KRAMER BROS., Farmingdale, L.I. Mention The Florists' Exchange when writing.

Save Your Pinks Before Splitting Don't try to patch them up with wires that would do for the 19th, but not for the 20th Century.

Mention the Florists' Exchange when writing.

COMING

Get ready for ST. PATRICK! Emerald Green coloring. The best for CARNATIONS. Ready for use, \$1.00 per quart.

MANCHESTER CHEMICAL CO. 204 Manchester Ave. ST. LOUIS, MO.

Mention the Florists' Exchange when writing.

A. B. DAVIS & SON, Inc. PURCELLVILLE, VA.

Place your orders now for Red Sport cuttings, the best red carnation grown. \$3.00 per 100; \$25.00 per 1000.

Mention the Florists' Exchange when writing.

CARNATIONS Rooted Cuttings

Enchantress, Robt. Craig, Victory and Melody HESSION, FLATBUSH, BROOKLYN, N. Y. Mention The Florists' Exchange when writing.

CARNATIONS

Table listing carnation varieties like Lawson, Roosevelt, Queen Louise, etc. with prices per 100 and 1000.

HIKE & JONES, Cortland, N.Y. Mention the Florists' Exchange when writing.

CARNATIONS FINE, STRONG PLANTS

Table listing carnation varieties like Robert Craig, Variegated Lawson, etc. with prices per 100 and 1000.

ROBT. C. PYE, NYACK-ON-HUDSON, N.Y. Mention the Florists' Exchange when writing.

UNROOTED CARNATION CUTTINGS

LARCHMONT NURSERIES, - Larchmont, N. Y. Mention The Florists' Exchange when writing.

NORWOOD, O. — Robert Boeck, aged 61, florist, at Madison and Erie avenues, Hyde Park, met with a serious accident and displayed remarkable fortitude after sustaining frightful injuries. His horse had been confined in the stable for a considerable period, and when Boeck led him out for exercise the animal, in sheer delight at its freedom, dashed wildly down a hill and through a wood.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa.

Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

READY FOR IMMEDIATE OR LATER DELIVERY Victory, \$5.00 per 100; \$50.00 per 1000 Lady Bountiful, \$3.00 per 100; \$25.00 per 1000 Variegated Lawson, \$4.00 per 100; \$30.00 per 1000 Pink Patten, \$5.00 per 100; \$40.00 per 1000 Enchantress, \$2.50 per 100; \$20.00 per 1000 Boston Market, \$1.50 per 100; \$12.50 per 1000

Mention the Florists' Exchange when writing.

CARNATIONS

Rooted cuttings Victory, \$3.00 per 100; \$30.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patten, \$2.50 per 100; \$20.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Penn, and Fair Maid, \$2.00 per 100; \$15.00 per 1000. 5 per cent. discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.

Mention the Florists' Exchange when writing.

FIRST CLASS ROOTED CUTTINGS OF

ROBERT CRAIG

\$8.00 per 100; \$50.00 per 1000. These cuttings are sent rooted and free from disease. Write for our price list on other varieties.

VALLEY VIEW GREENHOUSES, VELLIE BROS., Props., Marlborough, N. Y. Mention the Florists' Exchange when writing.

CARNATIONS

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

Mention The Florists' Exchange when writing.

ABUNDANCE

Rooted cuttings of the most prolific white carnation will be ready for delivery in January. Price, \$5.00 per 100; \$40.00 per 1000; 250 at 1000 rate, 5 per cent. discount for cash with order.

RUDOLPH FISCHER, Great Neck, L.I., N.Y.

Mention the Florists' Exchange when writing.

JOHN E. HAINES

The leading scarlet, brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place. ROOTED CUTTINGS, \$6.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa. Mention the Florists' Exchange when writing.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties
 Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

A. J. GUTTMAN,

The Wholesale Florist of New York.
 43 WEST 25TH STREET.

JOHN E. HAINES,

BETHLEHEM, PA.

Rooted Carnation Cuttings

CLEAN, HEALTHY STOCK FOR IMMEDIATE DELIVERY.

WHITE		SCARLET									
Per 100	Per 1000	Per 100	Per 1000								
White Perfection, pure White... \$ 6.00	\$50.00	Cardinal.....	\$4.00 \$30.00								
We have the largest stock of this variety in the country.											
White Lawson.....	3.00 25.00	Red Lawson.....	4.00 30.00								
Lady Bountiful.....	3.00 25.00	PINK									
Lieut. Peary.....	4.00 30.00	Daybreak Lawson or Melody..	6.00 50.00								
SCARLET											
Red Riding Hood, new.....	12.00 100.00	Enchantress.....	2.50 20.00								
Victory.....	6.00 60.00	Helen Goddard.....	5.00 45.00								
<table border="0"> <tr> <td>Flancee.....</td> <td>4.00 30.00</td> <td>Variegated Lawson.....</td> <td>3.00 25.00</td> </tr> <tr> <td>Harlowarden (Crimson).....</td> <td>2.00 15.00</td> <td>Aristocrat, beautiful earise, the best variety disseminated this season.</td> <td></td> </tr> </table>				Flancee.....	4.00 30.00	Variegated Lawson.....	3.00 25.00	Harlowarden (Crimson).....	2.00 15.00	Aristocrat, beautiful earise, the best variety disseminated this season.	
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Harlowarden (Crimson).....	2.00 15.00	Aristocrat, beautiful earise, the best variety disseminated this season.									

ROSES

Rooted Cuttings, March 15. \$2.00 per 100, \$15.00 per 1000

BRIDES, MAIDS, GOLDEN GATES, UNCLE JOHN, CHATENAY and RICHMOND.

CHRYSANTHEMUMS

Cuttings. \$2.00 per 100, \$15.00 per 1000. March 15th.

Mrs. Mary Mann	Mersham Yellow	W. H. Chadwick	Golden Chadwick
Adella	Estelle	Cremo	Yellow Bonaffon
Touset	Mrs. Nathan Smith	White Bonaffon	Glory Pacific
Majestic	Ivory	Pink Ivory	Mrs. Robinson

CHICAGO CARNATION CO. A. T. PYFER, Mgr. **JOLIET, ILL.**

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
MRS. LAWSON	\$ 2.00	\$15.00	WHITE CLOUD	\$1.25	\$10.00
GUARDIAN ANGEL	1.50	10.00	FRED BURKI	2.50	20.00
ENCHANTRESS	2.50	20.00	HARLOWARDEN	2.00	15.00
LADY BOUNTIFUL	2.50	20.00	CHICAGO	1.50	12.50
LIEUT. PEARY	3.00	25.00	ESTELLE	2.00	15.00
BOSTON MARKET	1.50	11.00	RED SPORT (MACEO)	2.00	15.00

CHRYSANTHEMUMS

CLEMENTINE TOUSET (Early Chadwick), finest early white, \$2.50 per 100. R. C. ready now. We have the largest stock in the country of this fine variety.

WIE TOR BROS.

Wholesale Growers of Cut Flowers

51 Wabash Avenue, CHICAGO

ROOTED CARNATION CUTTINGS

Ready for Delivery

	100	1000		100	1000
Enchantress.....	\$2.50	\$20.00	Victory.....	\$6.00	\$50.00
Lawson, pink.....	2.00	15.00	Cardinal.....	3.50	30.00
Genevieve Lord.....	2.00	15.00	Lady Bountiful.....	3.00	25.00
Helen Goddard.....	5.00	45.00	Boston Market.....	2.00	15.00
Robert Craig.....	6.00	50.00	Queen.....	2.00	15.00

We can furnish cuttings of all the Standard Varieties
 Send for Price List

THE LEO NIESSEN CO.

1217 Arch Street, Philadelphia

ROOTED CARNATION CUTTINGS READY NOW

Strong, Healthy and Thoroughly Rooted Cuttings of the following varieties:

	100	1000		100	1000
Victory (scarlet).....	\$6.00	\$50.00	Lieut. Peary (white).....	\$3.50	\$30.00
Robt. Craig.....	6.00	50.00	Lady Bountiful.....	3.00	25.00
Red Sport.....	3.00	25.00	White Lawson.....	2.50	20.00
Enchantress (pink).....	2.50	20.00	Boston Market.....	2.00	15.00
Lawson.....	2.00	15.00	Queen.....	2.00	15.00
Mrs. M. A. Patten var.....	2.50	20.00	Queen Louise.....	2.00	12.50

Remember we guarantee satisfaction.

250 of any one variety at 1000 rate. Write for discount on large orders.

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

Beacon Carnation

Beacon Comes up quickly into bloom and keeps at it right along.

Orange Scarlet

Has been proved to be the Most Profitable Commercial Scarlet.

It's a Bread Winner.

PRICES:

Per 100, \$12.00,.....	50 at 100 rate	Per 5000.....	\$9.00 per 1000
Per 1000, 100.00,.....	250 at 1000 rate	Per 10,000.....	80.00 per 1000
Per 2500, 95.00.....	Per 1000	In lots of 20,000 or more, cash with order.....	\$75.00 per 1000

March Delivery.

Cottage Gardens Company, Queens, N. Y.

Peter Fisher, (Originator) Ellis, Mass.

GREEN CARNATION FLUID

Free Sample. Quart Cans, \$1.00. Gratifying Results.

NATURAL GREEN COMPANY

819 Walnut St.,

KANSAS CITY, MO.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS February and March Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices.

ALBERT M. HERR, LANCASTER, PA. Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

	Per 100	Per 1000
WHITE PERFECTION.....	\$6.00	\$50.00
LIGHT PINK LAWSON.....	6.00	50.00
GLENDALE.....	0.00	50.00
VICTORY.....	6.00	50.00
ROBERT CRAIG.....	6.00	50.00
CARDINAL.....	4.00	35.00
FIANCEE.....	3.50	30.00
LADY BOUNTIFUL.....	2.50	20.00
THE BELLE.....	2.50	20.00
WHITE LAWSON.....	2.50	20.00
ENCHANTRESS.....	2.50	20.00
NELSON FISHER.....	2.50	20.00
HARRY FENN.....	2.00	15.00
MRS. T. W. LAWSON.....	2.00	15.00
ESTELLE.....	2.00	15.00
BOSTON MARKET.....	1.50	12.00
WHITE CLOUD.....	1.00	8.00

600 at 1000 RATES.
 ASPARAGUS Strong, ready for shipment at \$6.00 per 100; 5 in. at \$4.00; 4 in. ASPARAGUS PLUMOSUS, 3 in. \$5.00; 4 in. \$5.00; 6 in. \$25.00 per 100.
 W. J. & M. S. VESEY, Fort Wayne, Ind.

CARNATIONS

Strong, healthy, well rooted stock

	per 100	per 1000	from pots
White Perfection.....	\$6.00	\$50.00	\$6.50
White Lawson.....	3.00	25.00	3.50
Bountiful.....	3.00	25.00	3.50
Cardinal.....	2.50	22.50	3.00
Enchantress.....	2.50	22.50	3.00
Lawson.....	2.00	15.00	2.50
Harlowarden.....	2.00	15.00	2.50
Boston Market.....	1.50	12.50	2.00

Cash with Order. Satisfaction guaranteed.

SMITH & GANNETT Geneva, New York

REVIEW OF THE MARKET

NEW YORK.—There is a general depreciation of values along all lines of cut flowers, with the possible exception of American Beauty roses. These latter continue so scarce in the market that 75c. each for the best grades, when they are perfect, still holds good. In Bride and Bridesmaid roses there is a general fall in prices for the best grades, and while this is the case, it is a noticeable fact that the shorter grades are much easier to dispose of than the fancies and extras. Following the increased sunshine we have been having, shipments of these roses are increasing daily.

Carnations are becoming quite plentiful, and prices have dropped considerably. It is now possible for buyers who want good varieties in quantity to get them at their own figures almost. Tulips and yellow narcissus, including double Von Sion, are coming in quite heavily, too heavy in fact for the demand, and prices on a good many of them go as low as 50c. per 100. It is impossible to clear out this class of stock, unless values are sufficiently low to make it an object for the speculators to handle the flowers in quantities. Lily of the valley is doing no better than last week; and gardenias and orchids are plentiful enough to meet all demands, with no change in values.

Violets are selling quite a little cheaper than they were a week ago, and many of them go as low as 80c. per 100, 50c. being about the average price for a real good quality. Lilac is rather plentiful, and is a very unsatisfactory proposition; the reduction in the prices of bulbous stock and carnations seems to have had a very bad effect upon lilac sales. Lilies are holding fairly firm at quoted prices, the supply seemingly not being overabundant just now.

CHICAGO.—The market has assumed a decidedly easier tone since the recent advent of bright sunshine and comparatively moderate Spring-like weather. Carnations, narcissi, tulips, and callas seem to be the lines which have been most immediately affected, and the large quantities of these flowers which have appeared on the market have caused a reduction in wholesale prices averaging from twenty-five to fifty per cent. And while it will take roses somewhat longer to recuperate, the cut has most considerably increased. The opening of Lent has not produced such a marked effect on shipping as was anticipated, but prices on rose stock are perceptibly reduced, grading is more favorable to the purchaser and little if any difficulty is experienced in filling orders as specified, with the possible exception of certain lengths and qualities of American Beauty.

Violets up to the first of this week had held well to the holiday prices of the previous week, and Monday saw the market cleaned out. If growers are holding with the expectation of a holiday stampede on the 22nd, a slump is prophesied.

Narcissi are coming in from the South, and the price of imported green ones has broken, at times to a considerable degree.

Callas, which have been in good demand for several weeks, are now seen standing in considerable quantities on many counters awaiting a buyer.

Paraguis, thymus, A. Sprengeri, and smilax are all running on the short side; while box green is in ample supply and in good demand.

Taken as a whole the market is in a healthy condition, and business is good. W. K. W.

PHILADELPHIA.—With the advent of Lent conditions have changed very much in cut flower circles. There is now plenty of stock on hand to fill all orders and prices are much easier except on roses; fancy flowers of these still maintain good figures. American Beauty are selling at \$3 and \$4 per dozen for the fancy blooms. A few Richmond roses bring \$25 and \$30 per 100; the best Liberty \$20 and fancy Bridesmaid, \$15. Some very good Mme. Abel Chatenay are coming in which bring \$20. The general run of teas are quoted at from \$8 to \$12 per 100. White roses are still scarce and in strong demand.

Carnations are much more plentiful and prices have dropped; fancy Enchantress and Beacon bring \$6 per 100 this week, the general stock of carnations ranging from \$2 to \$4, there being entirely too many on hand for the demand.

There is a large quantity of bulbous stock now coming in. Daffodils are in full supply and difficult to move. Violets are not going so well; prices range from 75c. to \$1.25 per 100. Cattleyas are selling this week at 60c. each. Gardenias are in good supply and are doing very good; \$1 per dozen was the price early in the week.

The first shipment of Southern daffodils arrived here on Tuesday.

DAVID RUST.

BOSTON.—Flowers still keep scarce but prices have not dropped so much as might have been expected. Roses were never known to be so scarce as they have been this season. There are yet only a few American Beauty with long stems, consequently exceptional values are obtained for them; \$9 and \$10 per dozen are the highest figures. There are some good Richmond and Liberty to be seen as well as Mme. Abel Chatenay and Wallacey. Killarney also is good. Bride and Bridesmaid are now of better quality than they have been; the best grades of the latter bring \$2 per dozen, while the first named realizes from \$3 to \$5 per dozen. Carnations are more plentiful but are selling well, bringing from \$3 to \$5 for the better grades. Violets are very plentiful; they bring 35c. for ordinary while the best sell at 60c. Lilies go at \$1.50 and \$2 per dozen; callas, \$1.50. Snapdragon brings \$1 and \$2 per dozen. Bulbous stock is plentiful. Sweet peas are good, at 75c. and \$1.50. Smilax is not so plentiful, bringing \$2 per dozen. Other greens have experienced no change. J. W. D.

INDIANAPOLIS, IND.—"One of the most satisfactory holidays for the florist business," is a comment relative to St. Valentine's Day that is commonly heard. Stock is now both reasonable and plentiful, and not much time is required in arranging it, as the demand is mostly for fancy boxes and plants. The various retailers interviewed report an increase for that day, particularly in the sale of sweet peas, roses, violets and carnations. Bulbous stock did not sell so well, but was constantly offered by the growers who are heavily stocked. Funeral work has been heavy, much of it coming when other lines of trade were busiest. Excellent double and single violets are shipped in at 75c. to \$1 per 100; a few home-grown ones bring the same prices.

Carnations are much improved by the bright weather, and a large cut last week, at \$3 to \$4 per 100, found a ready market. Lilac, narcissi, and forget-me-not of fine quality are now very useful in flower arrangements. The first named brings \$25 per 100 sprays; the last \$5 per 100. Azalea mollis, in the several beautiful shades, are a welcome addition to the market. All kinds of roses became scarce about the middle of the week, and there were frantic appeals for a supply from distant sources, but all in vain. The call for medium and long American Beauty was exceedingly heavy. As a rule prices did not advance. Select Bride and Bridesmaid are now bringing \$8 to \$10 per 100; seconds, \$4 to \$5, and thirds, \$2 to \$3. Fine Richmond may be had at from \$8 to \$15 per 100; American Beauty, \$5 to \$50.

Many sweet peas are cut at 75c. to \$1 per 100. A few daisies are seen at \$1.50 per 100.

The supply of plants is augmented with specimen rhododendrons, which do not sell readily, but are coming in for a supply.

The growers at Tomlinson Hail market were enabled to sell everything on hand St. Valentine's Day, as both wholesale and retail business was heavy. I. E.

ST. LOUIS.—The condition of the cut flower market has not been very satisfactory to the retailers since the first of the year. As stock of all kinds was scarce, especially so in roses, prices were very high. The demand for stock the past week, especially on St. Valentine's Day was very brisk. The big call was for violets, the price of which went up to \$1 per 100 for fancies; as many as 50,000 were disposed of at the four wholesale houses. All of these were California of the finest quality.

Roses were very scarce, but on Monday were coming in more freely, and the retailers are looking for a glut before the end of the week, as the demand for the first part of Lent is always very light. The best Bride and Bridesmaid are still at \$10 per 100, second choice, \$6 and \$8, and shorts, \$4 and \$5 per 100.

Carnations are very plentiful, with a good demand for fancy stock. Enchantress are especially plentiful. Mrs. Thos. W. Lawson, Prosperity and Robert Craig are coming in fine, as are Lady Bountiful and White Perfection. The top price is now \$5 per 100 for extra fancy; others bring from \$2 to \$3.

The fine weather of late has brought in an abundance of violets, which are now cut at 40c. per 100. A great deal of bulbous stock is being sent in to the commission houses. Roman hyacinths are bringing from \$2 to \$3; Paper White narcissus, \$3 to \$4; lily of the valley, \$3 to \$4; freesias, \$2 to \$3; tulips, \$3 to \$4. Callas have been much plentiful of late at \$1 and \$2 per 100. Some extra fine Dutch hyacinths are now in at \$4 to \$5 per 100.

In greens plenty of fine smilax, asparagus, adiantum, fancy ferns and galax are to be had. ST. PATRICK.

ST. PAUL, MINN.—St. Valentine's Day and the bright, mild weather were undoubtedly the reasons for the good week experienced by all the dealers. Stock of about everything is in abundance and prices are held down, to some extent; already special prices are named on especially fine carnations and violets. The latter have been sold in large numbers the past few days. The violet growers are now cutting some very fine stock, principally singles, which are packed up and put on the market as fast as they are brought in; one dealer disposed of 7,500 on St. Valentine's Day, and all others had a very good sale. Bulbous stock is moving quite nicely. Tulips the past few days have wholesaled at very small figures, in fact, could almost be purchased at one's own prices; large numbers were bought at 1c. each, and fine stock at that. One of our largest growers has a large stock of rubrum lilies in bloom and has supplied about every dealer in the Twin Cities at a small price. The flowers work up nicely in general orders and are purchased heavily for that purpose only. The stock of roses is fine, the quality better than at any time before during the season. Specimen blooms of Richmond, Bride and Bridesmaid are in the hands of all of the trade, and at a comparatively small purchase price. PAUL.

CHANGES IN BUSINESS.

HAMMONTON, N. J.—J. M. Bassett, with Wm. F. Bassett & Son for nine years, has embarked in business for himself, making a specialty of fine kalmias.

STOUX FALLS, S. D.—The firm of Nudd & Thomas has been dissolved, J. J. Nudd retiring. The business will be continued by G. A. Thomas under the name of The Thomas Greenhouse.

DALLAS, TEX.—The Southwestern Horticultural Company has been incorporated, capital stock \$2000. Incorporators: James MacMaster, Frank Brinthon and W. C. Yarbrough, all of Dallas.

BROOKLYN, CONN.—The Franklin & Crosby, Incorporated, of Brooklyn, has filed a certificate of incorporation, the incorporators being Vine R. Franklin, Josephine R. Franklin, Henry D. Crosby and Lucy H. Crosby. The capital is \$20,000, and the incorporators will do a real estate business.

GOSHEN, IND.—Ralph Miller, proprietor of the Jefferson Cafe, and A. J. Santschi, the florist, have organized the Jefferson Fruit & Floral Co. The company will occupy the front of the room now occupied by the cafe. At some future time the company may have different quarters. Mr. Santschi has been a florist for many years.

BUSINESS DIFFICULTIES.

BOSTON, MASS.—The Shady Hill Nursery Company, a corporation capitalized at \$100,000, which was organized in 1892 and which has been operating large nurseries at Bedford, made an assignment Monday, February 11, for the benefit of creditors. The assignees are Hebert B. Clewley, who for about a year has been manager of the nurseries, and Joseph Sargent, Jr., of 50 Congress street, an attorney. Until about a year ago E. I. Beard was manager of the corporation. The offices are at 155 Milk street. Mortgages upon the property have been foreclosed and the task of straightening out affairs is now in the hands of the assignees. Mr. Sargent, one of the assignees, said he thought there would be a substantial dividend for the creditors. He thought it would probably be at least 25 per cent. and might be considerably more, but that everything depends upon the value of certain accounts receivable and upon the disposal of the nursery stock on hand.

CANADIAN NEWS

TORONTO.—Alex. McManus, who has been swindling florists here, was sentenced recently to fifty days in jail. He admitted getting flowers from Dunlop's and Jennings' stores on King street. The Crown Attorney explained that the prisoner would call up the florists by phone and represent himself to be Stone the undertaker. He ordered flowers and said that a man would call for them. McManus then went and got the blossoms, which he sold in the hotel roundabouts.

OTTAWA.—We are having good seasonable weather, some sunshine and plenty of cold. Stock is looking very good considering the dark weather recently experienced. Carnations are in nice bearing condition and promise to keep it up; the weather has caused more splits than we like. Roses are looking very good and giving fine flowers, but only in limited numbers, so many shoots come blind. Violets are very plentiful, all of us

having a good continuous cut. Lily of the valley is good and plentiful, and bulbous stock sells well. Carnations bring 75c; roses, \$1.50 to \$2; bulbous flowers, 60c; lily of the valley, 75c.

Plants seem as if they will mostly fit in for Easter. Spiræas will be scarce; all of us lost a large proportion through receiving them in the middle of December and in the coldest weather; for all that they are very hardy, that was asking too much. E.

St. Louis, Mo.

News Notes.

Geo. W. Cohen, representing Wertheimer Brothers' ribbon house of New York, was a caller the past week.

The Michel Plant and Bulb Company have sold their Old Orchard plant to the Berclid Real Estate Company, who will cut up the place to be sold in lots.

A. C. Brown, of Springfield, Ill., was in town on Thursday of last week, and staged some extra fine new seedling carnations at the Florists' Club meeting.

The Oakland Floral Company at East Kirkwood is sending to Kuehn the finest Enchantress and Mrs. Lawson carnations that come to this market. Pierre Schneider is the grower.

E. W. Guy, of Belleville, passed through here on his way to St. James, Ill., to visit his father, T. E. Guy, an old-time local florist, who is very sick.

Hugo Gross and Robert Wolzburger, of Kirkwood, are sending daily to Smith & Company large consignments of California violets.

Our local growers are making big preparations for supplying the trade with fine blooming plants for Easter. Among them are Charles Beyer, Wm. Schray & Sons, C. C. Sanders, Bentzen Floral Company and Geo. Wandler.

The local florists' bowling team, composed of Carl Beyer, Henry Lohrenz, George Schriever, Otto Bruning, W. C. Smith and Ed. Gerlach, will roll a special match game next week with the Desoto bowling team, of which C. A. Kuehn and J. J. Benke are members. The match is to be rolled on the Desoto alleys. ST. PATRICK.

Newport, R. I.

Messrs. George A. Weaver, Wm. B. Scott & Company and H. L. DeBlois have each the agency for a special brand of fertilizer, and each firm is now putting forth all efforts for the securing of orders.

E. S. Manuel has recently received from Europe several of the latest and best dahlia novelties to complete his already large collection. Mr. Manuel thinks this Spring will be a busy one for dahlia specialists.

There is quite a demand for gardenia plants; orders were received here that could not be filled. Plants in 3½ and 4-inch pots are in most demand.

Arthur Griffin has grown melons under glass with remarkable success for a number of years without at any time encountering any insurmountable obstacle, but he admits that this Winter weather conditions have almost baffled him. Nevertheless he has been able to make regular shipments of melons to New York, of surprisingly large size and to all appearances good quality. I doubt very much if it would pay to grow them for the market in Winter under weather conditions like those we had this season.

Henry A. Dreer, Philadelphia, has offered for competition at the September show of the Newport Horticultural Society a silver cup for the best collection of vegetables, also two cash premiums for foliage plants.

The meeting of the Horticultural Society on Tuesday evening, February 26, will be Ladies' Night, when an elaborate program of music will be discussed and a collation served by the proprietor of the Perry House. D. M.



Three Grand Commercial CHRYSANTHEMUMS

HAVING raised thousands of seedlings in the last twenty years, I have three of the very best seedlings—considering fine form, color and stem for commercial purposes—in cultivation, and will offer a limited number at reasonable prices; nothing better in their season (all are certificated.)

MRS. R. N. BIRD.

Fine glistening white, incurved, outer petals reflexed; good form and stem; mid-season.

MRS. JOHN FREIS.

Large, early, incurved yellow, Bonnaffon type; the best early yellow to date; October 15.

CHAS. RAGER.

Large, pure white, incurved, ivory form, fine stem and foliage; one of the best whites in cultivation; October 25.

PRICE: Each, 25c.; dozen, \$2.50; 100, \$15.00. Equal proportion of each at dozen and 100 rates.

ADDRESS

JOHN FREIS, 54 Highland Ave., FORT THOMAS, KY.

Mention the Florists' Exchange when writing.

DREER'S UNRIVALED STRAIN

—OF—

DOUBLE PETUNIAS

ROOTED CUTTINGS BY MAIL

- White, pink, red, crimson and variegated... \$1.25
- Petunia Grandiflora, single, 10 varieties... 1.25
- Cuphea (Cigar Plant)... .75
- Abutilon, New French Dwarf, R. C. 1.50
- Ageratum, 4 varieties... .75
- Strobilanthes Dyeriana... 1.25
- Heliotrope, Dark... 1.00
- Hibiscus, R. C. 1.50
- Lantana, dwarf, 6 varieties... 1.25
- Lantana, trailing... 1.25
- Moon Vine, Smith's Hybrid Seedlings... 2.00
- Scarlet Sage, tall and dwarf... 1.00

PLANTS

- Shasta Daisy, 3 in. 3.00

Cash with order please.

GEO. J. HUGHES, BERLIN, N. J.

Mention the Florists' Exchange when writing.

Decorative Plants.

GESNERAS when well grown from start to finish are very handsome plants and useful in many ways; but if, on the other hand, they are grown with the idea that they can stand rough treatment either in course of cultivation or when put to use, they will not be found profitable. There are so many other kinds of plants very similar to gesneras in their resentment of rough treatment and carelessness, when the opposite course in either would be just as convenient and cost no more, that I venture to say that very soon all of these will be grown as they should be and will be found profitable in consequence. But few other plants grown have such beautiful foliage combined with very pretty and attractive flowers as gesneras. Without good healthy foliage the plants are, however, of little value, hence the reason why great care should be taken to keep the foliage healthy. Thrips are deadly pests growers of these plants have to contend with; and since it is well known that the foliage is very tender destructive measures when the pests gets a hold are almost out of the question. The safest way is to watch carefully, and if there is any sign of thrips fumigate mildly, but always mildly, otherwise the cure will be as bad if not worse than the disease. Gesneras should be rested much the same way as gloxinias, that is, the plants after flowering are allowed to dry partially but should never be permitted to get so dry that the soil in the pots, flats or pans gets like dust because if it does the chances are that a great many of the bulbs will be shriveled up and not a few die. In early Spring, when it is desired to start gesneras into growth, they should be examined carefully, and those on the dry side should be watered with rather tepid water and then the pots or pans containing the bulbs plunged in some kind of material over bottom heat until shoots make their appearance when they

may be taken up and the bulbs separated and repotted. In repotting the number of bulbs put in each pot or pan should depend upon the use to which the plants are intended to be put; but for a 6-inch pot or pan three good bulbs are enough. For large pots or pans bulbs in proportion will succeed. It is a mistake, however, to crowd too many bulbs, meaning eventually too many plants, into one receptacle.

A good compost for gesneras is made up of about equal parts leaf-mold and fibrous loam with the addition of a little well-rotted manure and sand. After being potted the bulbs in the pots or pans should be again plunged for about a week, and the glass over them should be lightly shaded. When removing them from the material in which they are plunged they should be placed near the glass, which still should be lightly shaded but allowing a diffused light to fall on the plants.

The foliage of gesneras is so constituted that it will not stand applications of water; there is always quite enough water in the downy substance on the leaves to make an application of more highly injurious. For this reason water should be given under the foliage or right on to the soil. Mechanical watering would hardly do here, would it? Gesneras when growing like a warm temperature, as warm in fact as any of the other things grown by a florist. They are delightful subjects for the decoration of dinner tables when occasion calls for something out of the ordinary run. In baskets or vases they are also equally valuable for the exquisite and delicate ornamentation of draw-rooms.

Gesneras are propagated easily from seed and by cuttings as well as by division. D. M.

Here is some good stock, all ready to ship, with prices that are right:

- Geraniums as fine a lot as was ever offered for sale at \$18.00 per 1000. S. A. Nutt, Poitevine, La Favorite, Perkins, Bruantii, Breit, Vaud, Doyle, and several other varieties, out of 2 1-4 in. pots with or without soil.
- Fuchsias, 2 1-2 in. pots, \$3.00 per 100.
- Heliotrope, 2 1-2 in. pots, out splendidly stock, but short growing and well bushed, \$2.50 per 100.
- Sweet Alyssum, 2 1-4 in. pots, \$2.00 per 100.
- Lobelia, 2 1-4 in. pots, \$2.00 per 100.
- Ageratum, 2 1-4 in. pots, \$1.50 per 100.
- Asparagus Plumosus, 3 in. pots, \$6.00 per 100.
- Springer, 3 in. pots, \$6.00 per 100.

Cash with order.

J. E. FELTHOUSEN,
154 VAN VRANCKEN AVE., SCHENECTADY, N. Y.
Mention the Florists' Exchange when writing.

SACRIFICING PLANTS

To make room for Easter stock. All large, healthy plants in bud and bloom.

- Azaleas, 50c. to \$1.00 each.
- Primula Obconica, 4 in., 6c.; 5 in., 10c.
- Primroses, 4 in., 10c.
- Cinerarias, 4 in., 8c.; 5 in., 10c.
- Cyclamen, 4 in., 10c.; 4 1-2 in., 12c.
- Rooted Carnation Cuttings, Admiral Cervara, \$12.00 per 1000. Cash please.

F. B. RINE, LEWISBURG, PA
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

White Shaw, the very best second early 'Mum' takes place of Robinson. No grower should be without it. \$4.00 per 100, rooted cuttings; unrooted, \$2.00.

GARNATIONS
Mrs. W. T. Omwake (Embossed Sport), Pink Patten and Mikado, \$4.00 per 100, rooted cuttings; \$2.00 per 100, unrooted, CASH.

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

ROOTED CUTTINGS Repaid per 100. Ageratum Guiney, Talline, 80c. Alternanthera, best red and yellow. 60c. Hardy Pinks, Abbottsford, red 76c. Heliotrope, blue, 86c. Seedlings, prepaid per 100. Salvia Splendens, 35c., \$3.00 per 1000, express. Verbenas Mammoth, mixed, Drees's, 35c., \$3.00 per 1000, express, Cash. SHIPPENSBURG FLORAL CO., SHIPPENSBURG, PA. Mention the Florists' Exchange when writing.

IMPORTANT ANNOUNCEMENT

To FLORISTS and GARDENERS

Our Wholesale Catalogue for 1907

has been revised and many important tables included

This valuable book has now been mailed only to our customers of 1903, '04, '05 and '06

If interested send for copy

NATHAN SMITH & SON
ADRIAN, MICH.

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THE AMERICAN GARNATION

Price, \$3.50

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PLANT CULTURE PRICE \$1.00

THE BEST BOOK FOR THE PLANT GROWER.
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 Telephone: 3559 Madison Square
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 Mention The Florists' Exchange when writing.

SCHULTHEIS' SUPERIOR STOCK

Arancaria Excelsa, 5 1/2 in. to 6 in. pots, \$1.00, \$1.25, 4 to 5 tiers; 7-in. pots, \$1.50, \$2.00 and \$2.50; 8 in. pots, 3 1/2 ft. tall, \$3.00.
Azaleas, beautifully flowered, just right, 50c., 75c., \$1.25, \$1.50, \$2.00, \$2.50 and \$3.00 each. Miniature azaleas, \$4.00 and \$5.00 per doz. Also pyramids in quantity from 4 in. 5 in. and 6 in., \$7.00 each.
Begonia Gloire de Lorraine, \$9.00, \$12.00 per doz. Wire hanging baskets, \$1.25, \$1.60 each, can be planted to order.
Pyramid Box, 3 ft. high, \$2.50 to \$3.00 a pair; 3 1/2 ft. high, \$4.00 a pair; 4 ft. high, \$4.50 and \$5.00 a pair; 4 1/2 ft. high, \$6.00 and \$7.00 a pair; 5 ft. high, \$8.00 a pair; 5 1/2 ft. and over, perfect specimens, \$9.00 a pair.
Boston Ferns, 5 in. pots, \$3.00 per doz.; 8 in., \$2.00 each; 9 in., \$2.50 each. Specimens in 12 in. pots, \$5.00, \$6.00 and \$7.00 each; 14 in. pots, \$16.00 a pair.
N. Eleganssima, 5 1/2 in. pots, \$4.00 per doz.; 5 in. pots, \$6.00 per doz.
Scott's Ferns, 5 in. pots, \$4.00 per doz.
N. Whitman's, 4 1/2 in. pots, \$9.00 per doz.
N. Parsons, 8 in. pots, \$15.00 per doz.
Lilacs, white and purple, in pots, \$2.00; also larger plants.
Tulips, in pans, \$6c., 50c., 75c. and \$1.00 each.
Tulips, in flats, \$2.00, \$2.50 each, 50 in a flat.

Hyacinths, doz., \$2.00.
Crocus, blue, white and yellow, 35c. per pan.
Snowdrops, 25c. a pot.

COMING ON FOR EASTER!

3 Houses Crimson Ramblers, Dorothy Perkins, in all shapes; Baby Rambler, Lilac, Heather, yellow, pink, white, shell-pink; Boronia, Accacia, Oranges, Azaleas, and two houses of Lilies.
Aspidistra green, 5 1/2 in., \$9.00 per doz.; 6 in. pots, \$12.00 per doz.; 5 1/2 in. pots, \$18.00 per doz.
Daisies, English, \$12.00, \$18.00 and \$24.00 per doz.
English Ivy, 4 1/2 in. pots, \$2.00 per doz.; \$15.00 per 100; 3 to 4 ft. high.
Kentia Forsteriana, combinations, 3 and 4 plants in an 8 in. pot, \$2.50 to \$3.00; 9 in. pots, \$5.00 each; 10 in. pots, \$6.00 and \$7.00 each.
Kentia Belmoreana and **Forsteriana**, all sizes, single and combinations, from 5 1/2 in. pots, 75c., \$1.00 to \$10.00 each. Give us a trial.
Livistona Sinensis, superior to **Lantana Borbonica**, 5 1/2 in. pots, \$9.00 per doz.; 7 in. pots, \$12.00 per doz.; 8 in. pots, \$18.00 per doz.
Pandanus Veitchii, 4 in. pots, \$3.00 per doz.; 5 in. pots, \$4.50 per doz.; 8 in. pots, \$2.50 each.
 Cash or satisfactory New York reference. When sending orders, please state whether plants are to be shipped with or without pots.

ANTON SCHULTHEIS

19th Street and 4th Ave., COLLEGE POINT, N. Y.

Mention the Florists' Exchange when writing.

AZALEAS FOR EASTER

Now is the time to get Azaleas. Our plants are shapely and well budded. We offer the following varieties:

Mme. Van der Cruyssen, Deutsche Perle, Mme. C. Van Langenhove, Vervaeana, Empress of India, Bernhard Andrea Alba, Helen Thielman, and Simon Mardner. A fair proportion only of Mme. Van der Cruyssen and white sorts supplied with each order.

Prices (f. o. b. New York). 10 to 12 inch heads, \$6.00 per doz., \$45.00 per 100; 12 to 14 inch heads, \$7.00 per doz., \$55.00 per 100; 14 to 16 inch heads, \$10.00 per doz., \$75.00 per 100.

Peter Henderson & Co., 35 & 37 CORTLANDT ST. NEW YORK

Mention the Florists' Exchange when writing.

Decorative Plants

Lantana Borbonica, 1 in., \$3.00; 3 in., \$6.00; 4 in., \$15.00 per 100.
Kentia Belmoreana and **Forsteriana**, 2 1/2 in., \$3.00; 3 in., \$15.00; 4 in., \$25.00; 5 in., \$30.00 per 100. **Whitman's**, 2 1/2 in., \$12.00; 3 in., \$25.00; 4 in., \$30.00; 5 in., \$75.00 per 100.
 10,000 Azaleas, for Easter. Write for prices. Fine lot of Genistas, Tulips, Narcissus, Lilies, etc., for Easter. Write for prices.
JOHN BADER, Troy Hill, Allegheny, Pa.
 Mention the Florists' Exchange when writing.

A Few Good Things You Want

Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100.
Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.
Geraniums, S. A. Nutt, John Doyle, Perkins, Richard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellane, Poitevine and Viand, 2 in. pots, \$3.00 per 100.
Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100.
Boston Ferns, 5 in., 30c. each.
Vines Var., 2 in., \$2.00 per 100.
Gladiolus, blooming bulbs, extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.
 Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.; properly packed in good order.
GEO. M. EMMANS, Newton, N. J.
Rooted Cuttings HELIOTROPES (dark), good stock strong and well rooted, 80c. per 100; \$5.00 per 1000. AGERATUM, PRINCESS PAULINE, well rooted, 50c. per 100; \$4.00 per 1000. Cash.
 J. P. CANNATA, Mt. Freedom, N. J.

New York.

News of the Week.

The annual dinner of the New York Florists' Club takes place this evening (Saturday), at the St. Denis hotel, corner of Eleventh street and Broadway. It goes without saying that every member who attends this function will have a very enjoyable evening.

The Huntington Horticultural and Agricultural Society will hold its annual carnation exhibition in the Trade School Building, Huntington, L. I., on Tuesday next, February 26. The society has distributed a schedule of prizes and in addition to those offered for carnations, there are premiums offered for roses, violets and miscellaneous plants, also greenhouse grown vegetables.

Alex. McConnell, florist, 571 Fifth avenue, has sent out a neat little booklet treating upon how to cultivate and care for decorative plants in the home.

The Lord & Burnham Company has secured the contract to furnish the material and labor for the eighteen new greenhouses of the United States Cut Flower Company at Elmira, N. Y. The greenhouses will be finished by the early part of the coming Summer.

The monthly meeting of the Nassau County Horticultural Society was held on Wednesday evening, February 13. A prize of \$2 for the best vase of carnations was awarded to Valentine Cleres. Felix Mense received a certificate of culture for a bunch of violets. C. F. Bertanzel of Roslyn, L. I., staged a beautiful collection of carnations.

On Thursday, February 14, the greenhouse of Thomas Waneh of the Old South road, Woodhaven, was completely destroyed by fire. Total damages are estimated at \$500.

The J. M. Keller Company, Jordan & Appel, proprietors, have their usual supply of Easter stock coming along in nice shape. This firm blooms about 6,000 azaleas, together with a large collection of lilies, bougainvilleas, hawthorns, acacias, genistas and ericas.

Dr. and Mrs. N. L. Britton of the Botanical Garden Bronx Park, have left for the Bahama Islands, where they will be joined by Dr. Chas. F. Millsbaugh, curator of botany in the Field Museum of Natural History in Chicago, and will proceed to explore the islands. This is the fourth trip that Dr. Britton has made to the Bahamas, and it is the intention of the party to complete the survey of this archipelago this Spring, with the exception of one or two islands.

A. T. Boddington seedsman, of 342 West Fourteenth street, is much gratified over his increasing business. Mr. Boddington is making a specialty of English varieties of culinary peas, and notes with pleasure the great demand this year for such peas as he introduced to his customers during 1906. Two varieties that he is introducing this year are Senator and Alderman, two kinds which he feels sure will prove a boon to all who grow them. Among some of the peas he introduced last year were Sherwood and King Edward VII, for which there has been a very heavy demand this Spring from those who tried them in a small way last year.

The New York Times of Sunday last devoted a full page almost to orchid flowers as used in this city, accompanied with an illustration of a table decoration done with orchids by Chas. Thorley for a dinner given to General Horace Porter. It is a good thing to see the daily press devoting space to the flower business; it makes good advertising for the trade.

From present indications it would seem that the price of lily bulbs for the coming season, both for the Japanese and Hirisil, will be somewhat in advance over last year's figures. Growers who handle cannaes in quantity are of the opinion that there will be a shortage in the varieties Alphonse Bouvier and Queen Char-

lotte. These two sorts do not seem to have kept very well through the Winter from some cause or other.

Armin B. Kretschmar, son of Herman Kretschmar, who with his brother is operating greenhouses at West Nyack, N. Y., was married on Wednesday to Miss Vyvie M. Kolesch. The ceremony took place at the bride's home, Van Siclen avenue, Brooklyn, following which the newly married couple left for a trip to Washington, D. C.

Edward Behar, who is running the McMann greenhouses at Nyack, N. Y., is growing roses and sweet peas only, and has been quite successful even since taking hold of that place last June.

C. E. Gullett of W. H. Gullett & Sons, Lincoln, Ill., was in town this week. Fred. Breitmeyer, Detroit, Mich., was also a visitor.

CINERARIAS

CINERARIAS, best strain, 6 in., fine plants ready to bloom, most in buds, \$2.00 per doz. \$15.00 per 100.
 AGERATUMS, (limitable); these Giant varieties are the best in cultivation. R. C., \$1.00 per 100; 2 1/2 in., \$2.50 per 100.

J. C. SCHMIDT CO., BRISTOL, PA.

Mention the Florists' Exchange when writing.

GERANIUMS

All rooted cuttings booked for February.

PETER BROWN, Lancaster, Pa.
 Mention the Florists' Exchange when writing.

GERANIUMS

25,000 bushy, 3 in., \$40.00 per 1000; Double Grant, \$35.00 per 1000; ready now. Standard varieties. 20,000 transplanted Evergreens, trees, etc. Come and see stock and get a bargain for cash. \$5.00 standard, 5 in. pots, \$1.00 per 100; \$3.00 per 1000.

Extra fine leaf mould 75c. per bag; \$14 per ton.
WM. S. HERZOG, MORRIS PLAINS, N. J.

GERANIUMS

Rooted in sand, then grown in pots a month. Sent free of soil.

Dbl. Grant, Buchner, Poitevine, Richard, Perkins, Viand, Nutt, Doyle, La Croix and Mixed, \$1.50 per 100. Rooted Cuttings of Nutt and Grant, \$1.20 per 100.
COLEUS Versch., G. Bedder, and brightest Fancy mixed, strong, 60c. per 100. Giant, many kinds, finest of all Coleus, 80c. per 100.
GLADIOLI Groff's Hybrids, blooming size, 50c. per 100. Write Geraniums and Coleus orders before order is sent.
DANIEL K. HERR, Lancaster Pa.
 Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

FUCHSIAS, best varieties	100	1000
HELIOTROPES	\$1.50	\$14.00
LOBELIA COMPACTA, blue	1.00	
COLEUS, Golden Bedder and Mixed	.60	5.00
COLEUS, Giant Fancy leaved	.80	
VINCA, Var., 2 in. pots	1.00	2.00

CANNA-Dormant
 QUEEN CHARLOTTE, FLORENCE 100
 VAUGHAN 100
 DUKE OF MARLBOROUGH, MCKINLEY 2.50
 EGANDALE, bronze leaved 2.00
 Cash with order.

ERNEST HARRIS Delanson N. Y.
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VEGETABLE PLANTS

CABBAGE New Early and Successioo \$1.50 per 1000; 10,000 and over \$1.25 per 1000.
LETTUCE Grand Rapida, Big Boston, Boston Market and Tennis Ball, \$1.00 per 1000.
PARSLEY Moss Curled, \$1.25 per 1000.

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

in good varieties 2 1/2 in. pots, ready March 1 1907.
WM. J. CHINNICK, Trenton, N. J.
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Wholesale Commission Dealer in **Cut Flowers**
106 West 28th St., NEW YORK
Open at 6 a. m. every day.
Telephone, 167 Madison Square.
Consignments Solicited.
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Commission Merchants in **CUT FLOWERS**
ORCHIDS AT ALL SEASONS
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Consignments solicited. Out-of-town orders carefully attended to. Give us a trial.
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Sixth Ave. and 26th St.
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Open every Morning at Six o'clock for the Sale of Cut Flowers.
Wall Space for advertising purposes to Rent.
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GROWERS, ATTENTION!
Always Ready to Receive Fine Stock
GUNTHER BROTHERS
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Violets, Roses, Carnations, Orchids
Established 1888.
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A. M. HENSHAW
Wholesale Commission Florist.
Consignments of first class stock solicited.
Prompt returns.
THE SQUARE DEAL
Guaranteed to all who trade here.
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EMERSON C. McFADDEN
Wholesale Grower
Asparagus Plumosus Nanus, Etc.
Short Hills, N. J.
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ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES, CARNATIONS.
JAMES McMANUS, Telephone 750 Mad. Sq. 42 W. 28th St., New York.

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Wholesale Commission Dealer in
CUT FLOWERS
28 Willoughby St.,
Telephone 4591 Main BROOKLYN, N. Y.
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THE WHOLESALE FLORIST OF NEW YORK
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PHONES. 1664-1665 MADISON SQUARE
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ALFRED H. LANGJAHR
55 WEST 28th STREET, NEW YORK
Telephone, 4626-4627 Madison Square Established 1891
SPECIAL VALLEY AND TOP GRADE ASPARAGUS
Consignments of First Class Stock Solicited.

Horace E. Froment
SUCCESSOR TO
W. GHORMLEY WHOLESALE COMMISSION FLORIST
Receiver and Shipper of all varieties of Cut Flowers
Telephones, 2200 and 2201 Madison Square. 157 West 28th St., NEW YORK

Wholesale Prices of Cut Flowers, New York, Feb. 21, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	60.00 to 75.00	Carnations	Inf'r grades, all colors.....	1.50 to 2.00
	" extra.....	35.00 to 40.00		STANDARD White.....	2.00 to 3.00
	" No. 1.....	15.00 to 20.00		VARIETIES Pink.....	2.00 to 3.00
	" No. 2.....	8.00 to 12.00		" Red.....	2.00 to 3.00
	" No. 3.....	6.00 to 8.00		" Yel. & Var.....	2.00 to 3.00
	Bride, Maid fancy-special.....	8.00 to 12.00		" White.....	3.00 to 4.00
	" extra.....	5.00 to 6.00		*FANCY— Pink.....	3.00 to 4.00
	" No. 1.....	4.00 to 5.00		" grades of Red.....	3.00 to 4.00
	" No. 2.....	3.00 to 4.00		(standard var) Yel. & Var.....	3.00 to 4.00
	Golden Gate.....	4.00 to 4.00		NOVELTIES.....	4.00 to 6.00
RICHMOND.....	4.00 to 20.00	GARDENIAS, per doz.....	2.00 to 4.00		
Mme. Ahel Chatenay.....	4.00 to 15.00	LILAC, per bunch.....	.50 to .60		
ADIANTUM.....	1.00 to 1.00	LILIES.....	12.00 to 15.00		
CROWEANUM.....	1.00 to 1.50	LILY OF THE VALLEY.....	1.00 to 2.00		
ASPARAGUS.....	25.00 to 50.00	MIGNONETTE.....	2.00 to 6.00		
" Plumosus, bunches.....	8.00 to 15.00	NARCISSUS, Paper White.....	1.00 to 2.00		
" Sprenger, bunches.....	8.00 to 15.00	" Yellow.....	.50 to 2.00		
CALLAS.....	10.00 to 15.00	ROMAN HYACINTHS.....	1.00 to 2.00		
CATLEYAS.....	40.00 to 50.00	SMILAX.....	8.00 to 15.00		
CYPRIPEDIUMS.....	12.00 to 15.00	TULIPS.....	.50 to 2.00		
DAISIES.....	1.00 to 3.00	VIOLETS.....	.30 to .75		
		 to		
		 to		

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Acacia Pubescens
Cut sprays, \$2.50 per bunch.
Cattleyas 6oc. each
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Attractive prices in quantities.

Open from 7 a. m. to 8 p. m.

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Wholesale Prices of Cut Flowers—Per 100

Boston Feb. 18, 1907	Buffalo Feb. 18, 1907	Detroit Feb. 4, 1907	Cincinnati Feb. 18, 1907	Baltimore Feb. 4, 1907	Names and Varieties	Milwaukee Feb. 11, 1907	Philadelphia Feb. 20, 1907	Pittsburg Feb. 18, 1907	St. Louis Feb. 18, 1907
50.00 to 100.00	60.00 to 80.00	to 100.00	to 100.00	to 100.00	A. BEAUTY , fancy-special	25.00 to 85.00	75.00 to 90.00	50.00 to 60.00	30.00 to 40.00
40.00 to 50.00	to 30.00	to 30.00	to 30.00	to 25.00	" extra	18.00 to 25.00	50.00 to 60.00	20.00 to 40.00	20.00 to 25.00
20.00 to 40.00	to 20.00	to 70.00	to 70.00	to 20.00	" No. 1	15.00 to 18.00	25.00 to 40.00	10.00 to 12.00	10.00 to 20.00
to 5.00	to 7.00	to 30.00	to 30.00	to 5.00	" Culls and ordinary	6.00 to 10.00	5.00 to 15.00	5.00 to 6.00	5.00 to 8.00
10.00 to 16.00	12.00 to 15.00	6.00 to 15.00	10.00 to 12.00	to 5.00	BRIDE, 'MAID , fancy-special	to 12.00	18.00 to 20.00	to 18.00	12.50 to 15.00
8.00 to 10.00	10.00 to 15.00	to 4.00	6.00 to 8.00	to 4.00	" extra	to 10.00	12.00 to 15.00	12.00 to 15.00	8.00 to 10.00
6.00 to 8.00	8.00 to 10.00	to 4.00	4.00 to 6.00	to 3.00	" No. 1	to 8.00	8.00 to 10.00	8.00 to 10.00	4.00 to 6.00
to 5.00	4.00 to 8.00	to 3.00	3.00 to 4.00	to 2.00	" No. 2	to 6.00	5.00 to 6.00	5.00 to 6.00	to 6.00
to 5.00	to 10.00	to 5.00	to 5.00	to 3.00	GOLDEN GATE	4.00 to 12.00	6.00 to 15.00	to 4.00	4.00 to 8.00
10.00 to 35.00	5.00 to 20.00	to 2.00	to 2.00	to 2.00	K. A. VICTORIA	4.00 to 12.00	to 5.00	to 5.00	to 4.00
to 5.00	to 8.00	to 2.00	to 2.00	to 2.00	LIBERTY	to 5.00	to 25.00	5.00 to 16.00	to 4.00
to 5.00	to 8.00	to 2.00	to 2.00	to 4.00	METEOR	to 5.00	to 25.00	to 16.00	to 4.00
to 5.00	to 8.00	to 2.00	to 2.00	to 4.00	PERLE	6.00 to 8.00	to 5.00	5.00 to 10.00	4.00 to 6.00
to 2.00	to 2.00	to 60.00	to 60.00	to 1.50	ROSES	to 2.00	to 50.00	to 2.00	to 2.00
1.50 to 2.00	2.00 to 3.00	3.00 to 8.00	2.00 to 3.00	1.50 to 2.00	ORCHIDS—Cattleyas	to 2.00	to 3.00	to 2.00	1.50 to 2.00
1.50 to 2.00	2.00 to 3.00	to 2.00	2.00 to 3.00	1.50 to 2.00	inferior grades, all colors	to 2.00	to 3.00	to 4.00	to 3.00
1.50 to 2.00	2.00 to 3.00	to 2.00	2.00 to 3.00	1.50 to 2.00	Standard	to 2.00	to 3.00	to 4.00	to 3.00
1.50 to 2.00	2.00 to 3.00	to 2.00	2.00 to 3.00	1.50 to 2.00	Varieties	to 2.00	to 3.00	to 4.00	to 3.00
1.50 to 2.00	2.00 to 3.00	to 2.00	2.00 to 3.00	1.50 to 2.00	White	to 2.00	to 3.00	to 4.00	to 3.00
3.00 to 4.00	8.00 to 5.00	to 3.00	3.00 to 4.00	2.50 to 3.00	Red	3.00 to 5.00	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00
3.00 to 4.00	4.00 to 5.00	to 3.00	3.00 to 4.00	2.50 to 3.00	Yellow and var.	3.00 to 5.00	4.00 to 6.00	4.00 to 5.00	3.00 to 4.00
3.00 to 4.00	4.00 to 5.00	to 3.00	3.00 to 4.00	2.50 to 3.00	Fancy Varieties	3.00 to 5.00	4.00 to 6.00	4.00 to 5.00	3.00 to 4.00
5.00 to 6.00	to 5.00	to 3.00	3.00 to 4.00	to 3.00	Novelties	3.00 to 5.00	4.00 to 6.00	4.00 to 5.00	3.00 to 4.00
.75 to 1.00	to 1.00	to 1.00	to 1.00	to 1.00	CARNATIONS	to 1.00	to 1.50	to 1.75	to 1.00
to 50.00	to 25.00	to 60.00	to 60.00	to 25.00	ASPIRANTUM	to 1.00	to 1.50	to 1.75	to 1.00
to 20.00	to 30.00	to 30.00	to 35.00	to 25.00	ASPARAGUS , Plum. and Tea	20.00 to 30.00	50.00 to 75.00	20.00 to 30.00	50.00 to 75.00
to 12.50	10.00 to 12.50	to 15.00	to 12.00	to 10.00	Sprengeri, bunches..	12.50 to 15.00	12.50 to 15.00	to 12.50	to 15.00
to 4.00	to 4.00	to 25.00	to 4.00	to 25.00	CALLAS	to 4.00	to 25.00	to 4.00	to 25.00
to 4.00	to 4.00	to 25.00	to 4.00	to 25.00	CHRYSANTHEMUMS	to 4.00	to 25.00	to 4.00	to 25.00
10.00 to 12.50	15.00 to 20.00	to 15.00	15.00 to 20.00	to 12.50	DAISIES	to .75	1.50 to 3.00	2.00 to 4.00	to 4.00
4.00 to 5.00	3.00 to 5.00	3.00 to 5.00	to 4.00	to 4.00	LILIES	to 3.00	2.00 to 5.00	3.00 to 5.00	3.00 to 4.00
3.00 to 4.00	to 5.00	to 15.00	to 5.00	to 5.00	LILY OF THE VALLEY	to 3.00	3.00 to 6.00	2.00 to 4.00	to 4.00
to 15.00	to 15.00	to 15.00	to 15.00	to 15.00	MIGNONETTE , ordinary	to 5.00	to 8.00	to 6.00	5.00 to 6.00
to .35	to .75	to 1.00	to 1.00	to .50	fancy	to 25.00	15.00 to 20.00	12.50 to 15.00	12.50 to 15.00
to .60	to 1.00	to .60	to .60	to .60	SMILAX	to .75	1.50 to 1.00	.50 to .75	.30 to .35
to .15	1.25 to 1.50	to .15	to .15	to .60	VIOLETS , ordinary	to 1.00	.75 to 1.25	1.00 to 1.25	.40 to .50
					fancy	to 1.00	.75 to 1.25	1.00 to 1.25	.40 to .50
					GALAX LEAVES	to	to	to	to

PHILADELPHIA CUT FLOWER CO. Wholesale Florists
1516-18 SANSON STREET
High Grade Cut Flowers
Open Evenings until 8.
Mention the Florists' Exchange when writing.

Kalamazoo, Mich.
Trade Notes.
St. Valentine's Day shows yearly an increasing demand for florists goods. Quite a considerable business in pot plants was done for that day and such stock as lily of the valley in pots, primulas, hyacinths, and other Spring flowers at prices ranging from 25c. to \$1 seemed to fill the bill nicely. Of course, violets were extremely popular, yet a nice trade was done in other kinds of cut flowers also. Funeral work has been in considerable evidence, and a number of out-of-town orders have been received of late. I noticed last week Van Bochoves were shipping several large designs to Wisconsin.
The brighter weather now prevailing helps to put better color and stem in both roses and carnations, although there is no likelihood of either being over-abundant before Easter. Lilies show many signs of disease and the prospects for cheap lilies for Easter are decidedly small; some growers being of opinion that the once prospective profits on these goods have already vanished no matter what values are realized on them for Easter.
Among the carnation men Lady Bountiful and Boston Market have been noted as the most satisfactory producers during this dull Winter, opening up regularly and few splits noticed. Mrs. Lawson is not doing so well with some as hitherto, while Enchantress has split badly this season. Nearly all of the growers are trying Winsor, as the need of a good pink has been felt for some years. Victory will also be more in evidence next Winter, as it seems to have "made good."
S. B.

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CITY HALL CUT FLOWER MARKET
226 Devonshire Street.
Asparagus Plumosus
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Brides, 'Maids
American Beauties
Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268

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Wholesale Growers of Roses and Carnations
18,000 assorted GERANIUMS in 2 1/2 in pots, \$2.50 per 100; \$20.00 per 1000.
Also rooted cuttings of all the leading carnations.
WORCESTER, MASS.

Headquarters in Western New York
For ROSES, CARNATIONS
And all kinds of Seasonable Flowers.
WM. F. KASTING
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Also dealer in Florists' Supplies and Wire Designs
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CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00
Bountiful. Per 100 \$2.75, per 1000 \$25.00.
Enchantress. Per 100 \$2.00, per 1000 \$18.00.

Nelson Fisher. Per 100 \$2.25, per 1000 \$20.00.
Mrs. T. W. Lawson. Per 100 \$1.75, per 1000 \$15.00.
Boston Market. Per 100 \$1.35, per 1000 \$12.00.

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E. F. WINTERSON & CO. Wholesale Cut Flowers and Florists' Supplies
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THE FLOWER GROWERS' MARKET
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J. B. DEAMUD CO.
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 FANCY VALLEY, ROSES, CARNATIONS,
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 WESTERN HEADQUARTERS FOR
DOUBLE AND SINGLE
VIOLETS
 Valley, Carnations and Roses
58-60 WABASH AV., CHICAGO
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Wholesale Prices of Cut Flowers, Chicago, Feb. 19th, 1907

Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		STANDARD	
36-inch stems..... per doz.	8.00 to 8.00	White.....	1.00 to 2.00
30-inch stems.....	4.00 to 5.00	Pink.....	1.00 to 2.00
24-inch stems.....	..... to 3.00	Red.....	1.00 to 2.00
20-inch stems.....	..... to 2.00	Yellow & var.....	1.00 to 2.00
18-inch stems.....	..... to 1.50	*FANCY	White..... 3.00 to 4.00
12-inch stems.....	..... to 1.00	(The high	Pink..... 3.00 to 4.00
8-inch stems and shorts	..... to .75	set grades	Red..... 3.00 to 4.00
Bride Maid, fancy special.....	10.00 to 12.00	of Standard var.	Yellow & var..... 3.00 to 4.00
..... extra.....	6.00 to 8.00	NOVELTIES	..... to 1.00
" No. 1.....	..... to 5.00	ADIANTUM.....	..... to 1.00
" No. 2.....	3.00 to 4.00	ASPARGUS Plum. & Tan.....	.85 to .50
Golden Gats.....	5.00 to 12.00	" Sprenger, bunches.....	.85 to .50
Uncle John.....	5.00 to 12.00	LILIES, Longiflorum.....	15.00 to 20.00
Liberty.....	5.00 to 12.00	HARRISH.....	15.00 to 20.00
Richmond.....	5.00 to 12.00	Orchids—Castleys.....	15.00 to 50.00
Killarnsy.....	8.00 to 12.00	SMILAX.....	2.00 to 2.00
" extra.....	15.00 to 20.00	LILY OF THE VALLEY.....	2.00 to 4.00
Perle.....	5.00 to 10.00	VIOLETS.....	.50 to .75
Obstansy.....	5.00 to 10.00	" single.....	.50 to .75
Callas	12.00 to 16.00	HARDY FERNS per 1000.....	2.00 to 3.00
HYACINTHS, Roman.....	2.00 to 3.00	GALAX.....	1.00 to 1.25
Narc. Single Yellow.....	..... to 2.00	VARESESS, Paper Whites.....	2.00 to 3.00
Tulps, White.....	2.00 to 4.00	JONQUILS.....	2.00 to 3.00
" Yellow.....	2.00 to 4.00	FREE-IA.....	2.00 to 4.10
Mig onette.....	2.00 to 6.00	SWEET PEAS.....	1.00 to 1.50
	 to to

J. A. BUDLONG
 37-39 Randolph Street, CHICAGO.
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CUT FLOWERS
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 Western Headquarters for
 Up-to-Date Florists' Supplies
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The Old Reliable
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CUT FLOWERS AND SUPPLIES
 76-78 Wabash Avenue, CHICAGO.

Poehlmann Bros. Co.
 Wholesale Growers of
 and
Dealers in Cut Flowers.
 All telegraph and telephone orders
 given prompt attention.
 Greenhouses: 35-37 Randolph St.,
 MORTON GROVE, ILL. CHICAGO.

FAIRVIEW, ILL.—J. W. Lyon, vice-president and manager of the J. W. Lyon Company, florists has resigned as manager of the greenhouses in Fairview, and retired from that position February 15. Mr. Lyon will retain his interest in the company, and be succeeded as manager by W. Williams, who has been in charge for several years of B. Eldredge's greenhouses at the premises on West Pleasant street. Herbert Anderson has also regained his position at the Lyon Company greenhouses and goes to Rockford, Ill., to take charge of the Soper greenhouses.

Chicago.
News Notes.
 The Coliseum annex, so well remembered by the florists of the country who have visited the Chicago flower shows of the past two years, was burned down on Monday night, last week, but owing to the protection of a two-foot fire wall and the energies of the firemen and twenty-five engines the main building, where a hardware show was about to open, was unharmed. The cause of the fire is unknown. The loss is placed at \$50,000, and the structure will immediately be replaced.
 Messrs. J. A. Valentine and Emil Glauber were recent visitors on business and a sight-seeing expedition among the growers of this vicinity.
 J. P. Brooks of Morton Grove is one of the growers who has made a decided success in cultivating the Queen carnation in this vicinity and now has upwards of thirty thousand cuttings in the sand.
 Robert Hand of the Poehlmann Brothers Company's greenhouse force, who was seriously injured by being hit by a locomotive when a companion was killed, as with another associate the trio were returning in a fog on the railroad track from a dance on last Thanksgiving morning, after a long siege in the hospital is at last able with the aid of one crutch to be about the greenhouses.

F. Stellow of Niles Center is quite contented, as he may well be, with his range of carnation houses, and E. Blameuser of the same suburb makes a fine showing along the same line, Rose-Pink Enchantress, Helen Goddard, White Perfection and Queen being his favorites. Of the latter he has a choice strain which he has perfected by selection.

J. M. Smely of Aurora, Ill., was in town last week.
 John Bruckner has leased quarters and moved his business to 639 West Sixty-ninth street where he will, in connection with his office and salesroom, erect a small conservatory.

The rose range of the Albert Leis houses at Niles Center, which are constructed on the Dietsch plan are in fine shape and show a marked improvement under the management of D. J. Murphy who took charge of them a few months since.

J. A. Peterson of Cincinnati, accompanied by his son, was a recent visitor.

As a rule there is a marked similarity in trade conditions at a given time, but Valentine's Day this year produced an exception, as among the wholesalers the following were some of the answers to the query as to the state of the market. "Bum" "The worst Valentine's Day we ever saw," "fair" "with the exception of last Christmas the best day we ever saw" and so on while the variation in the "day after" reports of the retailers from different sections was equally noticeable.

J. C. Vaughan, accompanied by Mrs. Vaughan, is in the East.
 Henry Wietor returned last Friday from a trip around the circle, having visited St. Louis, points in Texas and Louisiana taking in the Mardi Gras at New Orleans.

The John C. Moninger Company has issued a booklet containing instructions for constructing greenhouses which must prove of value to anyone who is erecting or about to erect a greenhouse. It contains twenty pages of valuable information, and is said to be the only book of its kind ever issued by a manufacturer of greenhouse roof construction material, and will be sent to members of the trade upon application, who forward ten cents in stamps.

The first few days of Lent certainly showed no diminution in shipping orders, though the welcome prevalence of sunshine and moderate weather so increased the supply, especially of carnations and bulbous stock, that prices for these lines eased off considerably by Saturday afternoon.

Sam Graff of Graff Brothers, Columbus, Ohio arrived in town last Saturday and was followed the first of the week by his brother William, they having been busy since reaching here with the arrangements for the wedding of their sister, Miss Maida, which will take place on Sunday, February 24 the groom being Herman Landfield, both contracting parties belonging in Chicago.

SOUTHERN WILD SMILAX

Now ready in any quantity

Book orders now for future delivery. Beaven's Fadeless Sheet Moss, \$3.50 per bag, delivered. Send for samples. Also Fancy Holly for Xmas trade. Satisfaction guaranteed. Write for prices.

E. A. BEAVEN
EVERGREEN, ALA.

Mention The Florists' Exchange when writing.



CALDWELL THE WOODSMAN
Introducer of the Wild Smilax

Wild Smilax \$2.50 Per Case

The only place where you can always get it. Long Needle Pines, \$1.00 per doz.; Palm Crowns, \$2.50 per doz.; extra nice long stemmed Palmetto leaves, \$2.50 per 100; Magnolia, \$2.50 16 cubic ft. cases. Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000

SPEED A SPECIALTY Write for Catalogue

CALDWELL THE WOODSMAN DECORATING CO., Evergreen, Ala.

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Fancy or Dagger Ferns



\$1.25 per 1000
Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
Boxwood, No. 1 Stock, 50 lb. cases, \$8.50
Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
Laurel Wreaths, \$3.00 per doz. Obcaper grades if wanted
Southern Smilax, fancy stock, 50 lb. cases \$5.50
Laurel Branches, 35c. per bundle

Telegraph Office: New Salem, Mass. Long distance telephone connections

CROWL FERN CO., MILLINGTON, MASS.

HEADQUARTERS FOR HARDY CUT GREENS AND FLORIST'S SUPPLIES



Fancy & Dagger Ferns. Fine Quality \$1.50 per 1000.
New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.
Southern Wild Smilax \$3.50 and \$7.00 per case.
Laurel Festooning, good and full, 5c. and 6c. per yard.
Branch Laurel, 50c. per bundle.
Leucothoe Sprays, \$1.00 per 100.
Sphagnum Moss, 50c. per bag; five bags \$2.00.
Green Moss, \$1.00 per bbl.

FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes cut flower boxes, immortella, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.

15 Province St.—9 Chapman Pl.
BOSTON, MASS.

TEL. MAIN 2617-2618

EXTRA FINE FANCY AND DAGGER FERNS

\$1.75 per 1000. Discount on large orders. Leucothoe Sprays \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE WILLIAM DILGER, Manager.

Let us have your standing order for Ferns; we will make Price right all through the season.
38 & 40 Broadway. Formerly Miami Ave., DETROIT, MICH.
Send for our weekly price list on Cut Flowers.
Mention The Florists' Exchange when writing.

REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of **FLORIST'S SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Farlor Brand Smilax.

THE BEST WAY to collect an account is to place it with the **National Florists' Board of Trade** 56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.
Mention the Florists' Exchange when writing.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

N. LEGAKES & CO.

53 W. 28th St., NEW YORK



STANDS AT FLOWER EXCHANGE COOGAN BLDG., W. 28th Street & 34th Street Out Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Leucothoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves

Mention The Florists' Exchange when writing.

BRILLIANT Galax and Leucothoe SPRAYS

Wholesale Trade Solicited
J. L. BANNER & CO., Montezuma, N. C.
Mention the Florists' Exchange when writing.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25
MANUFACTURED BY
W. J. COWEE, BERLIN, N. Y.
Samples free. For sale by dealers.
Mention The Florists' Exchange when writing.

USE THE BEST.
Economy Greenhouse Brackets
are used by leading growers everywhere. Sent for price list and descriptive circular.
BUXTON & ALLARD, Dept. C, Nashua, N. H.

Mention the Florists' Exchange when writing.

The wire business is particularly good and in this department the E. F. Winterson Company has found it necessary to put on additional hands. The writer who penned the line, "He kissed her under the silent stars," was somewhat amazed to see in print that, "He kicked her under the cellar stairs," and no less surprised was the Chicago representative of this paper to see in the last week's issue that an enterprising young concern of this city was meeting with success in its "rotted cutting department" while as a matter of fact the rooted cuttings are in the best of condition. The error was too apparent, however, to cause trouble.

The delegation of members of the Illinois State Florists' Association from Chicago and their friends took an early morning train over the Illinois Central railroad to Bloomington, where the second annual convention of the organization was held on Tuesday and Wednesday last.
C. C. Pollworth and Mrs. Pollworth of Milwaukee celebrated the anniversary

of their nuptials in Chicago. P. Reinberg forwarded some remarkably handsome roses, Uncle John, Bride, Bridesmaid and Richmond, to the exhibition held in connection with the State Association's convention at Bloomington.

E. Blameuser of Niles Centre was drawn on the jury a few days ago, but being a member of the volunteer fire department was excused.

C. H. Washburn is enthusiastic over their No. 20 scarlet seedling carnation saying he has never seen a bursted calyx on one and he is confident that it will become a commercial flower of universal popularity.

Dutch hyacinths have made their appearance in small quantities, realizing about 6c. each.

Ernest Oeschliel received severe cuts in the head and was otherwise considerably bruised by being thrown from a buggy drawn by a spirited horse that became unmanageable while being exercised on Saturday last. W. K. WOOD.

Philadelphia.

News Items. Most of the retail stores did a very good business on St. Valentine's Day, but this week trade is very quiet.

The finance committee of the Florists' Club met on Monday and took action on matters pertaining to the convention of next August.

Word has been received from Secretary Hauswirth of the S. A. F. O. H. that the board of directors of the S. A. F. O. H. will meet in this city on March 11.

The Baltimore Gardeners and Florists' Club have offered a silver cup for a bowling contest between teams representing Baltimore, Washington and Philadelphia. The first game will be played in Washington on March 15; the second in this city on March 20, and the third game in Baltimore on a date to be selected.

J. B. Keller, Rochester, N. Y., was here on Tuesday. Patrick O'Mara of New York was also a visitor this week.

The Pennsylvania Horticultural Society held its regular meeting on Tuesday, when amendments to the by-laws were presented. Mr. C. G. Roebling, Trenton, N. J., (James Goodier, gardener) exhibited Dendrobium nobile, pure white, for which a silver medal was awarded; Cypridium W. H. Harrison (Calypso Oakwoodense×villosum giganteum) certificate of merit awarded. Other exhibits from Mr. Roebling of which special mention was made were: Cypridium calypso (Spicerianum×Boxalli), cut flowers of Dendrobium nobile nobiliss the original Rollinson type; Dendrobium nobile ordinary type and Dendrobium nobile albiflorum. Mr. P. A. B. Widener (Wm. Kleinheinz, gardener) staged a grand lot of flowers of John E. Haines carnation, also fine spikes of antirrhinum. In answer to questions Mr. Kleinheinz stated that he propagated his carnations after Christmas; when rooted, potted them into thumb pots, being always careful not to allow them to become pot-bound before shifting into 3-inch; pinched any straggling growths to make bushy plants; shifted on into 4-inch pots when ready, and kept them in a house with ample ventilation. Planted out into benches the first week in July, syringing every clear day, and giving all possible air. He advised not to pinch too close, let the shoots grow and pinch before the buds form. Under this cultivation last year he cut 29,989 flowers from 2,300 plants, and this year he is doing even better.

DAVID RUST.

SPRINGFIELD, MASS.—The Republican of Sunday, February 10, contains an illustrated write-up of the florist business of this city, mentioning particularly the firms of Mark Aitken, E. Beals, N. F. Higgins, and William Schlatter. The total greenhouse area in Springfield is 75,000 square feet of glass.

Minneapolis.

News Notes.

Carlson & Sandberg have been very fortunate so far this season in cutting some of the finest roses on the market.

Will & Son are now cutting some Mme. Abel Chateaux roses which would be indeed hard to improve on; the blooms are perfect and the stems very strong. Their carnations are also coming in nicely; for white they have The Belle and Lady Bountiful.

The New York Floral Company has opened another store on Nicollet avenue, between Fourth and Fifth streets which is one of the finest locations in the city. Business at their Washington avenue store has been very good during the season; apparently they dispose of more carnations than any of the other dealers.

The Whitted Floral Company was favored with the largest St. Valentine's Day trade it has ever experienced; between seven and ten thousand violets were sold by this firm.

Amundson & Kirschner seem to be establishing a heavy trade for funeral designs; orders from outside towns have been quite heavy during the week.

PAUL.

St. Paul.

News Notes.

About every florist in the city had all the funeral work he could turn out last Thursday on account of the death of Postmaster Plowen of the city. It is estimated that the value of the floral emblems and flat bunches would amount to between \$1,000 and \$1,500. Every conceivable design was there from the plain wreath to the most artistic broken column. A large number of American Beauty sprays, in some cases as many as three and four dozen flowers in each, were delivered by L. L. May & Company, also a number of wreaths, broken wheels and pillows. Holm & Olson furnished a mammoth wreath, fully 6 feet in diameter. C. F. Vogt sent a large crescent wreath from the mailing department at the post-offices. In all there were 38 sprays from different florists both in St. Paul and Minneapolis.

Colberg & Lemke appear to be doing a good business; funeral work has kept them busy. Stock has been somewhat scarce and orders sent to the East have proved not very reliable on account of delayed trains. Express trains due here at 7:30 and 8 a. m. have not arrived until 2 and 3 o'clock in the afternoon.

The Ramaley Floral Company has turned out a number of large designs of late; sales of loose flowers they report as being quite heavy.

L. L. May & Company have had a very busy week. While they missed a large number of orders for outside towns on account of the late arrival of trains, their city business has been unusually heavy.

PAUL.

Cincinnati, O.

News Notes.

Stock is still scarce, with business good. There is quite a lot of funeral work which is using up quantities of flowers.

Burglars entered the Walnut Hill Floral Bazaar store one night last week, but were disturbed before any harm was done.

Charles Dieterich, Maysville, Ky., was married to Miss Johnson of Linton, Ky., Thursday evening. We wish them all the happiness possible.

Lent is cutting no figure with business so far, and the supply of stock will necessarily increase with the sunshine.

E. G. G.

New Orleans, La.

News Notes.

C. Eble will move into temporary quarters at 116 Baronne street on the first of March during the rebuilding of his present store which the contractor has promised to have ready by October 1.

Mr. Cook's Sons have renewed the lease of their present store for five years. This store is very desirably located.

James A. Newsham was receiving congratulations during the convention; another girl.

CRESCENT CITY.



The Whilldin Pottery Co.

STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.



"THE KING OVER ALL"

APHICIDE

NICOTINE PAPER

Costs less per effectual fumigation than any other made. If it does not we will refund your money. We sell direct to the grower. The jobbers' 33 1/3 per cent. profit we put in the quality of the paper.

Trial Boxes for house 100x20, 25 cents postpaid.
Boxes 24 sheets 65 cents post paid.
Boxes 144 sheets \$3.50, Boxes 288 sheets \$6.50.
Express prepaid to all points East of Mississippi River.

THE H. A. STOOHOFF CO., 118 WEST ST., NEW YORK,
Sole Sellers and Makers.

Mention the Florists' Exchange when writing.

Rochester, N. Y.

Trade Notes.

A visit to several greenhouse plants shows unusual activity preparing for Easter. Those growing lilies have experienced considerable loss, owing to diseased bulbs, and on account of the early Easter plants in bloom will be very scarce here.

Salter Brothers are cutting some fine Richmond roses, also stocks and sweet peas.

J. B. Keller Sons have had a fine display in their store of lilacs, flowering crabapple trees, some plants of the new rose pink deutzia, which as a plant for florists' trade is very desirable, being easily forced, and the color pleasing. This should also make an excellent shrub for outdoor planting, giving change of color to the border in early Spring. This firm has also some Chinese wistarias in blossom, which are a sight to behold, with their long panicles of bloom; they find a ready sale among those who can afford them. Another plant used by them for forcing is bleeding heart (*Dielytra spectabilis*), this too being easy to bring into flower. Plants of it find a ready sale, both at St. Valentine's Day and at Easter. The forcing of these hardy plants and shrubs has had its effect in past years, in inducing people to buy them for planting in the Spring.

The weather here for the past week has had many sudden changes, the thermometer rising 36 degrees in 14 hours, next day down to zero again, so one is kept guessing as to what is coming next. Business for the past few days has been all that could be desired, especially on St. Valentine's Day. A great deal of material was disposed of then, especially heart-shaped boxes of red color, containing cut Spring flowers, and tied with red ribbon. Several dinners given by society folk used azaleas, daffodils, tulips, etc., that otherwise would have been left over.

The store men—R. Salter, F. J. Keller and others—have gone to New York and other cities in order to look up Easter novelties and plants.

George Hart reports business brisk with wholesale prices fair at this Lenten season. He has been successful in devising a very handy and economical appliance whereby plants



THE BEST
Bug Killer and
Bloom Saver

For PROOF

Write to

P. R. PALETHORPE CO.
LOUISVILLE, KY.

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20		
1800 2 1/4 " " " " 5.56	60 8 " " " " 8.00		
1500 2 3/4 " " " " 6.10		HAND MADE	
1000 3 " " " " 5.00	48 8 in. pots in crate, \$8.00		
800 3 1/4 " " " " 5.30			
500 4 " " " " 4.60	24 11 " " " 3.50		
225 5 " " " " 4.50	12 14 " " " 4.80		
144 6 " " " " 3.16	6 18 " " " 4.30		
	3 24 " " " 4.50		

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Roiker & Sons, Agts., 81 Barclay St., N. Y. City

Sheep Manure

Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.

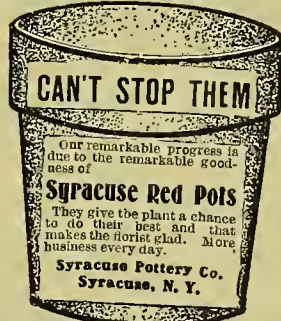
Mention the Florists' Exchange when writing.

are transferred into basket shape without any trouble.

The firm of Jas. Vick's Sons, have decided (so report says) to abandon their seed farm located at Despatch, N. Y. The soil there being of sandy nature considerable difficulty has been experienced the past few years in getting seed to germinate, on account of heat and winds affecting the soil. They have now secured a 90-acre farm in Greece, N. Y., and have secured the services of George Arnold, aster specialist, to take care of same. This firm makes quite a specialty of asters. COCKNEY.



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All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscription to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION

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IDEAL PLANT FOOD

Put up in 10^{1/2} of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.
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Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

GEORGE RIPPERGER,
LONG ISLAND CITY N. Y.
Mention The Florists' Exchange when writing.



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HOUSES WITH THE "SHAKES"

You have seen that kind of houses, with loosened putty, gapping glass, letting the cold in and the heat out—houses that lack rigidity—houses erected on wood-pile carpenter theories. If you want that kind of a house and like to spend your money that way, then you are bound to be at continual repair expense, increased heating cost. We sell the snug fit, solid as a rock house. Every detail carefully worked out—and carried out. You will have the house of economy and be sure of pleasant dealing. Write us.

Hitchings & Company

Greenhouse Designers and Builders
Manufacturers of Heating and Ventilating Apparatus
1170 BROADWAY : NEW YORK



IT WILL AFFORD YOU

Supreme Satisfaction

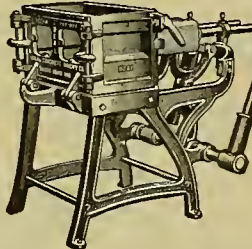
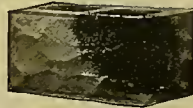
to know that all of the material for your new houses is of strictly first-class grade—even if you do not scrutinize it—and that the construction is in accordance with the latest approved style.

Such is the material we furnish and we can prove it by our many satisfied Customers.

A. DIETSCH CO. LA. CYPRESS AND GREENHOUSE MATERIAL
615 Sheffield Ave., Chicago, Ill.

FROST-PROOF ECONOMY

Ideal Hollow Concrete Block construction will protect your greenhouse from frost and secure greatest economy in fuel. The illustration of hollow block explains its resistance to frost.



With the Ideal Concrete Machine you can yourself make these blocks from sand, gravel and cement at little cost—far below the cost of brick, stone or lumber. Ideal Blocks not only give frost protection, but are absolutely fire-proof, and effect a perpetual saving in insurance.

IDEAL Concrete Machines

May be operated by any man without previous experience. The process of making blocks is simple as making mortar. Blocks for every building purpose, with plain, tooled, ornamental face or natural stone effect made with the same machine. Simple, durable and adaptable to any size block within capacity.

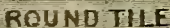
Our catalogue will show you how to secure frost protection and fuel economy, as well as initial saving over cost of other materials. Write for it and it is freely yours.

IDEAL CONCRETE MACHINERY CO., Dept. Z, South Bend, Ind.

MUSSENS, Limited, Montreal, Canada, Sole Agents for Canada.

TILE DRAINED LAND IS MORE PRODUCTIVE

Earliest and easiest worked. Carries off surplus water; admits air to the soil; increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Encaustic Side Walk Tile, etc. Write for what you want and prices. **JOHN H. JACKSON,** 50 Third Ave., Albany, N. Y.



GREENHOUSE GLASS

- 10x12
- 10x14
- 10x16
- 10x18
- 12x12
- 12x14
- 12x16
- 12x18
- 14x16
- 14x18
- 14x20
- 14x24
- 16x18
- 16x20
- 16x24

C. S. WEBER & Co.,
10 Desbrosses St., New York

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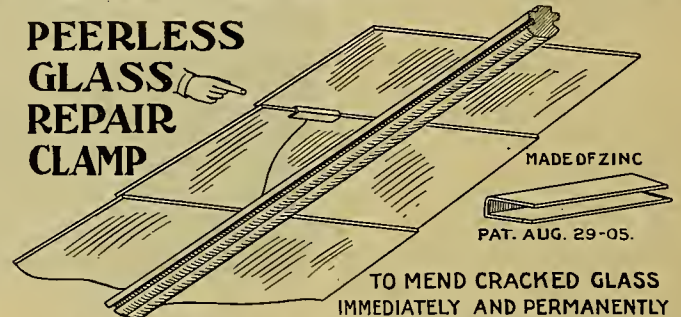
For Greenhouses, Graperies, Hot beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given

GLASS

N. COWEN'S SON,
14 & 16 Wooster Street, NEW YORK

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PEERLESS GLASS REPAIR CLAMP



TO MEND CRACKED GLASS IMMEDIATELY AND PERMANENTLY

For Sale by Dealers—or address **A. KLOKNER,** Wauwatosa, Wis.

NEW BEDFORD, MASS.—The wife of Wm. P. Pierce, florist, was buried on Sunday, February 10. Death resulted from pneumonia. She was 41 years of age. Many of the florists sent beautiful floral tributes.

A. B. Hathaway, on Court street, is picking some fine violets, which find ready sale.

One of the florists here is advertising funeral wreaths at \$1.50, 12-inch frames 20-inch pillows at \$5. At the present cost of flowers, it is difficult to see how he can do that.

Carnation Fair Maid is a grand seller these days; it grows more popular every day.

During last week's snowstorm, the roof of one of Richard E. Nofitz's greenhouses fell in. He seems to be up against hard luck. Only the week previous he buried his wife, who was a great help to him in his business.

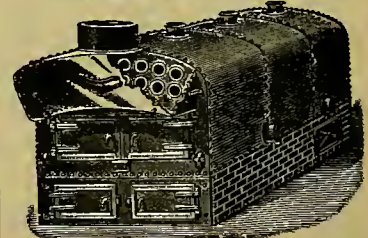
A meeting of the creditors of Wm. G. Kroeber was held February 21 to adjust matters. **HORTICO.**

READING, PA.—The Board of Water Commissioners held its semi-monthly meeting on Tuesday afternoon of last week. Bids for floral decorations at the various reservoir grounds were opened. In each instance, the contract was awarded to the cheapest of the three bidders, as follows: Fall planting, Penn street reservoir grounds, John H. Giles, for \$335.75. Spring planting at the Penn street reservoir grounds, the G. H. Hoskin Company, \$1,148.07. Spring planting, Hampden reservoir grounds, H. J. Huesman, for \$176.28. Spring planting Engelman reservoir grounds, the G. H. Hoskin Company, for \$139.69. Spring planting, Antietam filter grounds, H. J. Huesman, for \$156.79.

KROESCHELL BROS. CO. IMPROVED

Greenhouse Boiler

33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information. Mention the Florists' Exchange when writing.

Evans Improved Challenge

Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
RICHMOND, INO.

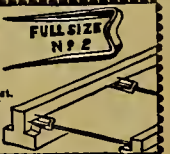
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Holds Glass Firmly See the Point

PEERLESS

Glasing Points are the best. No rights or jobs. Box of 1,000 points 15 cts. postpaid.

HENRY A. DREER,
714 Chestnut St., Phila., Pa.



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FREE HOSE

trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipe. Send for Free catalogue "Key" Boilers, Ventilating apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY COMPANY,
244 Fulton Street, - - New York City

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WE want our florist friends to speak about us to their private customers because U-Bar Greenhouses are the best greenhouses built. Built with all the iron on the inside—all the wood on the outside. The only greenhouse with the curved eaves. The lightest, best looking, most productive. Send for Catalog. Pierson U-Bar Co., Designers and Builders of U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23d St., New York.

Mention the Florists' Exchange when writing.



STANDARD Pumping Engines
Are built to produce results—and they do it. Correspondence Invited.

The Standard Pump & Engine Co.
CLEVELAND, O.

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WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses
Greenhouse Heating and Ventilating Apparatus.
**P. O. Address, Box 789,
New York City.**

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Cold Facts

are hard things to get around. There are some facts about our material which we would like to tell you about. These facts are not only hard to get around but they

Are Interesting

to everyone who intends to purchase greenhouse material of any kind. You should know that our material is the best made before you place an order for your next house. Write us to-day for figures.

JOHN C. MONINGER CO.

CHICAGO

115 E. Blackhawk Street.

Mention the Florists' Exchange when writing.

SAVE TIME AND MONEY

OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING,
VENTILATING APPARATUS, HOT-BED SASH

Putty--**GREENHOUSE GLASS**--Points

AT WHOLESALE

S. JACOBS & SONS,

GREENHOUSE CONSTRUCTION MATERIAL

1365-79 Flushing Ave.,

BROOKLYN, N. Y.

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FRANK VAN ASSCHE

Formerly Supt. for Weathered
GREENHOUSE BUILDER

Private or Commercial. Iron or Wood.
Factory and Yards: Fulton and Rose Ave.
and Dwight St., Jersey City, N. J.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.

SUN DRIED CYPRESS
GREENHOUSE MATERIAL
IS THE BEST.
WRITE
FOLEY MFG. CO.
471 W. 22ND ST.
- CHICAGO -
FOR FREE CATALOGUE
"VENTILATING APPARATUS, FITTINGS, HOT-BED SASH."
WE MAKE SKETCHES AND ESTIMATES-

Mention the Florists' Exchange when writing.



The **STANDARD VENTILATING MACHINERY**

The original machine with self oiling cups; the most powerful, least complicated very compact, with ease of operation.

The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market.

The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

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GOING TO Build a Greenhouse?

Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.

The A. T. STEARNS LUMBER CO.
Boston, Mass.



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WHOLESALE TRADE LIST

ASPARAGUS PLUMOSUS, 2½ inch pots, \$3.00 per 100.
BOSTON FERNS, 6 inch pots, 25c.
CARNATIONS: R. C. Enchantress, Lawson, White Lawson, Red Sport, Boston Market, and Vesper. Price on application.
CLEMATIS PANICULATA, 4 inch pots, \$1.50 per doz., \$10.00 per 100; 3 inch pots, 75c. per doz.; \$5.00 per 100.
DRACAENA INDIVISA, 5 in. pots, \$2.00 per doz.
FUCHSIAS, Heliotrope, yellow Daisies, from 2½ in. pots 50c. per doz., \$3.00 per 100.
GERANIUMS, best varieties from 3 inch pots, \$1.00 per 100.
IVY, Hardy English, 3 in. pots, \$5.00 per 100; 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
MOONVINES, the true variety, 3 in. pots, 75c. per doz.; \$5.00 per 100.
SANSEVIERA (Zebra plant), 4 in. pots, strong, \$1.50 per doz.; 3 in. pots, \$1.00 per doz.
ROOTED CUTTINGS: Heliotrope, dark blue; Fuchsias, Elm City; Salvia Bonfire, Cuphaas, Parlor Ivy, Ageratum, blue and white, \$1.00 per 100.
SEEDLINGS from flats: Asparagus Sprangari and Asparagus Plumosus, \$1.00 per 100.
C. EISELE, 11th & Roy Streets, PHILADELPHIA, PA.
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I Manufacture and Erect

Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your requirements.

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Horticultural Architect and Builder
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 Sash opening apparatus and all kinds of greenhouse structural material.

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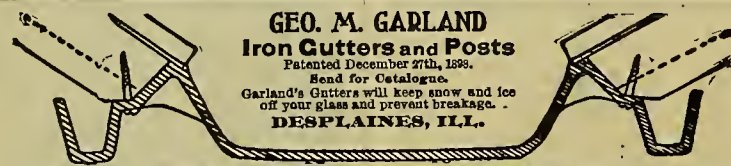
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A sample of this gutter is on exhibition at Chicago Flower Growers' Market.

Are You Contemplating Building?

IF so, now is the time to take up this important question. **I**T is only to your own interests to let me figure on your requirements.

YOUR work will be designed and erected by practical mechanics.

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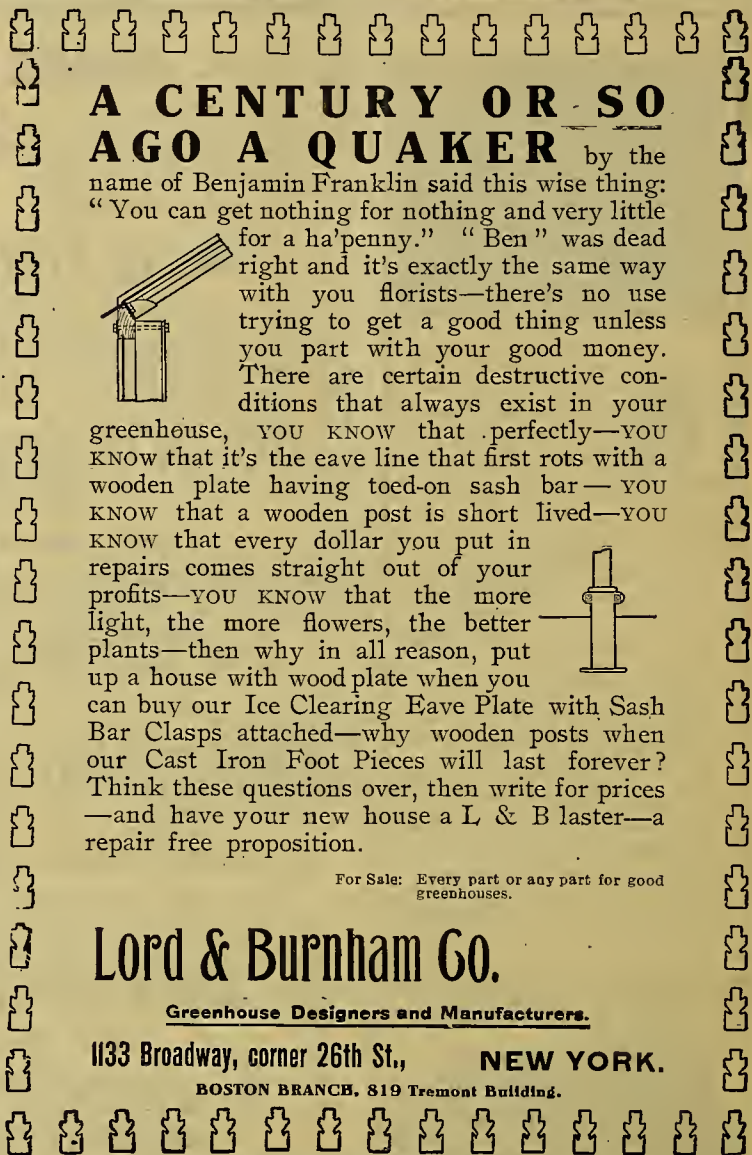
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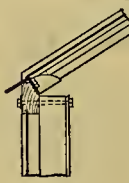
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A CENTURY OR SO AGO A QUAKER

by the name of Benjamin Franklin said this wise thing: "You can get nothing for nothing and very little for a ha'penny." "Ben" was dead right and it's exactly the same way with you florists—there's no use trying to get a good thing unless you part with your good money. There are certain destructive conditions that always exist in your

greenhouse, **YOU KNOW** that perfectly—**YOU KNOW** that it's the eave line that first rots with a wooden plate having toed-on sash bar—**YOU KNOW** that a wooden post is short lived—**YOU KNOW** that every dollar you put in repairs comes straight out of your profits—**YOU KNOW** that the more light, the more flowers, the better plants—then why in all reason, put up a house with wood plate when you can buy our Ice Clearing Eave Plate with Sash Bar Clasps attached—why wooden posts when our Cast Iron Foot Pieces will last forever? Think these questions over, then write for prices—and have your new house a L. & B. laster—a repair free proposition.



For Sale: Every part or any part for good greenhouses.

Lord & Burnham Co.

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For Green House heating. Standard Cast Iron Green House Pipe and Fittings.

We are Headquarters for all sizes wrought iron pipe and fittings.

It will pay you to get our special quotation: We also contract for and erect Steam and Hot Water Heating apparatus in all parts of the country.

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EASTER BASKETS
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THE FLORISTS' EXCHANGE

6 E Stone
11th Floor
Chicago, Ill.

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

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

Vol. XXIII. No. 9

NEW YORK AND CHICAGO, MARCH 2, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention. Won first prize for best 100 pink

We have not advertised Winsor until now because we have not had to. It is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise, for the present, February delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time do-

ing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Eucharist and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Eucharist is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. February delivery, \$12.00 per 100, \$100.00 per 1000.

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

Mention the Florists' Exchange when writing.



WE are now booking orders for early delivery of *Richmond, Killarney, Bride, Bridesmaid, Wellesley, Liberty, Kaiserin, Carnot, Bon Silene, Mrs. Oliver Ames and Safiana.*

Now is the time to get *Kaiserin Augusta Victoria* for early summer flowering. I have a large quantity of 2 1/4 inch grafted and own root stock now ready for shipment.

Have a splendid stock of *Asparagus Plumosus Nanus* seedlings, seed saved from my own plants.

SEND FOR PRICES

W. H. ELLIOTT, Brighton, Mass.

Mention the Florists' Exchange when writing.

Tuberose

DWARF EXCELSIOR PEARL

Well cured stock. Now ready. F. o. b. N. Y.
First size, 4-6 Per 1000, \$9.50
Medium size, 3-4 Per 1000, 4.50
Add 56c. per 1000 if shipped from Chicago.

Gladiolus

	Per 100	1000
Mrs. Francis King.....	\$ 4.50	\$40.00
Princess, large bulbs.....	10.00	90.00
Princess, medium bulbs.....	7.50	70.00
Princess, small bulbs.....	5.50	50.00
Augusta.....	2.50	20.00
May.....	1.75	14.00
Shakespeare.....	3.75	35.00

Caladiums

(Elephant's Ear)

Sound Bulbs; Live Center Shoots.

5 to 7 inches in circumference.....	Per 100, \$ 1.80
7 to 9 inches in circumference.....	Per 100, 3.15
9 to 12 inches in circumference.....	Per 100, 5.40
12 inches and up.....	Per 100, 12.60

Add 10 per cent. if shipped from Chicago.

For a complete list Florists' Flower Seeds, all summer Bulbs, etc., send for VAUGHAN'S BOOK FOR FLORISTS.



VAUGHAN'S SEED STORE

14 BARCLAY ST., NEW YORK Tel. 1676
Cortland

CHICAGO, 84-86 Randolph Street. Greenhouses, Western Springs, Ill.

CACTUS GERANIUMS

A very unique and strikingly beautiful distinct type which, originating in England but a few years ago, at once won a place in great popular favor as a pot plant, for the conservatory and window boxes, for which they are unusually pleasing and attractive, on account of their remarkably handsome and thrifty but dwarf growth, small foliage, and marvelous profusion of bloom.

The Cactus has by common consent been recognized as a distinctive term applied to certain type of Dahlias, Cinerarias, etc., but none deserve the appellation more so than the Cactus Geraniums, with their admirable elegance of form, exquisite graceful narrow petals, similar to those of the Cactus Dahlia.

We offer a collection of four varieties, and to introduce them into every collection, we will for a short time send one dozen by mail post paid for \$1.50.

PELARGONIUM PELTATO ZONAL

ALLIANCE, (Lemoine 1905)

An exquisitely beautiful novelty of the highest order. A Hybrid between an Ivy and a Zonal and which has retained all the good points of both parents, including the beautiful soft finish of the Ivy and the hardy constitution of the Zonal.

It is therefore, not an ordinary variety but an extraordinary variety in all the good points that go to make up an attractive geranium. Its color is the most exquisite shade of delicate lilac white, upper petals feathered and blotched beautiful bright crimson rose. Flowers semi-double, abundantly produced in fine large trusses on long stems.

Habit is excellent, robust, strong, close-jointed; for vases or as a pot plant it is unequalled.

25 cts. each, \$2.50 per doz.; to introduce we will send postpaid for a short time.

IVY-LEAVED GERANIUM

CAESAR FRANCK, (Lemoine 1905)

This is unquestionably destined to become the most popular Ivy Geranium yet introduced; the color is the most magnificent shade of soft crimson, with an exquisite shading of tender rose at the base of petals. The flowers are about as double as those of the Crimson Rambler Rose—which they resemble—only much richer in color and finish, produced on long stems in enormous trusses. Habit, vigorous, quick-growing and pleasing, with a strong constitution. For baskets and vases it is all that could be desired.

Considering its general good behavior, being in keeping with its other good points, we are convinced that it is a most desirable sort.

25 cts. each, \$2.50 per doz.; to introduce it everywhere we will send post paid for a short time.

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

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EXTRA FRESH SEED



BEGONIA VERNON Mxd., tr. pkt. 25c., oz. \$2.00

Asters Queen of the Market... tr. pkt. 15c., oz. 50c.
Asparagus Plumosus Nanus... 1000 seeds \$4.50
Sprenger!... 1000 seeds 75c.
Bellis Perennis, double... trade pkt. 25c.
Candytuft Impress... per oz. 20c.
Centaurea Gyrocampa... per oz. 35c.
Golden Feather, dwarf selected... per oz. 40c.
Lohelia Crystal Palace Compacta... trade pkt. 25c.
Petunia, grand superb fringed, mixed, tr. pkt., \$1.00.
Phlox, choice mixed... per oz. 40c.
Dwarf... per oz. \$1.25
Salvia Bonfire... per oz. \$2.50
Stocks, Tan Week, dwarf, large flowering, mixed trade pkt. 25c.
Verbena Mammoth white... trade pkt. 15c.
scarlet... trade pkt. 10c

STERILIZED SHEEP MANURE

Grand natural stimulant for vegetation. 100 lbs. \$1.25 Half tons \$11.00. Tons \$20.00.

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

RAWSON'S ASTERS

are just a little superior to anybody else's

The product of our seeds can always demand a better price than those grown from seeds obtained elsewhere. The following is an extract from a letter received last fall from a most critical grower:

"Your Midsummer Aster has been a great money-maker for me. For every flower that I have brought into the Boston Market I have received from \$1.00 to \$1.50 per hundred more than for any other variety raised from seeds purchased elsewhere." J. W. Simpson.

Delicate Shell Pink and Bright Rose at \$2.00 per oz., 60c. per 1/2 oz.

RAWSON'S LATE BRANCHING: in White, Shell Light Blue, Dark Blue, Scarlet and Crimson at \$1.00 per oz.; 30c. per 1/2 oz.

No Florist knows what fresh Aster seed means unless he has tried "RAWSON'S SEED." The crop of Aster seed has been extremely short last season and it is advisable to buy at once.

RAWSON'S TWO GREAT QUALITY ASTERS
RAWSON'S NEW MIDSUMMER:
in White, Delicate Lavender,



W. W. RAWSON & CO.
5 UNION STREET, BOSTON, MASS.

P. S. We are now Sole Distributors for Boston for Carman's Antipest, if you wish to know what it is, send for a circular. Mention The Florists' Exchange when writing.

PACIFIC SEED GROWERS' CO.

109 MARKET STREET
SAN FRANCISCO, CAL.
Specialties:

Onion, Carrot, Lettuce, Sweet Peas



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New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

COLD STORAGE
Lily of the Valley Pips
BEST POSSIBLE GRADE
1000 in case, @ \$12.00 per 1000.
J. M. THORBURN & CO.
33 Barclay St., through to
38 Park Place, New York.

Asparagus Plumosus Nanus Seed

Greenhouse grown, 1000 seeds, \$4.00; 5000 or more, write for prices.

CHRYSANTHEMUMS, 2 1/2 in.; 1000 Major Bonaffon now ready; 20,000 in five varieties ready soon, \$2.00 per 100; \$17.50 per 1000. Cash with order please.

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VERBENA MAMMOTH

COLORS or MIXED... oz. \$.75
Petunia Double Large Fl. Fringed... 1.00
Single Large Fl. Fringed... .50
Salvia Splendens... oz. 1.00
Stocks Large Fl. 10 Weeks... t. pkt. .25
Dwarf Snowflake... " " .25
Begonia Dwarf Vernon... " " .25
Vulcan... " " .25
Erfordii... " " .25

W. C. BECKERT,
Allegheny, Pa.

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Sow Now The True Thing!

Agaratum, Blue Star, the best of all for pots. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Alyssum, Carpet Queen, fine extra dwarf strain. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Begonia, Erfordii for pots the best rose pink. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Begonia, Gracilis Lumbosa, a fine Bedder, new with large bright scarlet flowers and ball-shaped habit, unexcelled for pots and outdoors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
Cyclamen, Giant flow, separate colors, 1000 seeds \$8.00. Trade Pkt. \$1.00.
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Petunia, Californian single Giants, extra strain. 6 Trade Pkts. \$4.00; Trade Pkt. 75c.
Petunia, double fringed Giants. 6 Trade Pkts. \$5.00; Trade Pkt. \$1.00.
Phlox New Cashy, the very best large flowered, real dwarf, compact, Drum. Phlox for pots, mixed colors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
Salvia, Bonfire. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
Salvia, Fireball, this is a new, real dwarf compact early flowering, fine variety and there is hardly a better one for pots. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
Verbena, Mammoth, unexcelled strains; an Auricula flowered, Scarlet Striped, Pink, Purple, White, each, separate. Oz. \$1.50; Trade Pkt. 25c.
For larger quantities special quotations.
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GOLD MEDAL STRAINS BEGONIAS & GLOXINIAS

BEGONIAS		GLOXINIAS		
	Per doz.	Per 100		
Double Rose	\$.65	\$5.00	Single, Scarlet	Per doz. Per 100
Orange	.65	5.00	Dark Red	.40 \$2.50
Red	.65	5.00	Pink	.40 2.50
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Yellow	.65	5.00	Yellow	.40 2.50
Mixed	.50	4.00	Nankeen	.40 2.50
NEW VARIETIES.			Orange	.40 2.50
Duke of Zepplin	1.50	11.00	Salmon	.40 2.50
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Seedsmen and Florists Supplied at the shortest notice and at right prices.
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THIS MEANS LANDRETHS' SEEDS GROW AND ARE GOOD
THAT ARE GOOD

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Seedsmen
ROCHESTER, N. Y.

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List free on application.

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The very best strains, true to name and of high germinating quality.

	oz.	1/2 lb.	1 lb.
Acme	\$.20	\$0.60	\$2.00
Beauly	.25	.70	2.25
Chalk's Early			
Jewell	.40	1.25	4.00
Early Michigan	.25	.70	2.25
Favorite	.25	.70	2.25
Matchless	.25	.70	2.25
Ponderosa	.40	1.25	4.00
Paragon			
Select'd	.25	.70	2.25
Perfection	.20	.60	2.00
Royal R d	.25	.70	2.25
Stone Select'd	.25	.70	2.25
Spark's Ear'l-ana	.40	1.25	4.00
S. & W. Co.'s			
Earliest of All	.40	1.25	4.00
Trophy Selected	.25	.70	2.25

These prices include delivery anywhere in the U. S. and our stock of Tomato Seed is the very best there is to be had. We would appreciate a trial order.

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50 Barclay St., New York

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Price, \$3.50
A. T. DE LA MARE PTB. & PUB. CO. LTD.
2-8 Duane Street, New York

JAPAN LILIES HIGH GRADE BULBS

AURATUM Per doz. Per 100	MELPOMENE (Spec.) Per doz. Per 100
8-9 (130 bulbs to case).....\$0.70 \$5.00	8-9.....\$1.00 \$7.00
9-11 (100 bulbs to case).....1.50 8.00	
RUBRUM (Spec.) Per doz. Per 100	(ALBUM Spec.) Per doz. Per 100
8-9.....1.00 6.00	8-9.....1.00 7.00

TUBEROUS ROOTED BEGONIA BULBS.	SPLENDID BULBS.
Single, separate colors, Scarlet, Crimson, Rose, White and Orange..\$0.35 \$2.50 \$23.00	Per doz. Per 100 Per 1000
Single, choice mixed......30 2.25 22.00	
Double, separate colors, same as above colors......40 4.25 38.00	
Double, choice mixed......50 4.60 35.00	

GIANT FLOWERING GLOXINIAS. EXCEPTIONAL QUALITY.
Separate colors, Spotted, Red, White, Blue, Red with white border, and Blue with white border or mixed.....\$0.50 \$4.00 \$35.00
Send for our list of up-to-date Sweet Peas. Headquarters for Mushroom Spawns. Write for prices. Send for our Florists' Wholesale List.

JOHNSON SEED COMPANY, 217 Market St., Philadelphia, Pa.
Herbert W. Johnson, of the late firm of Johnson & Stokes, President
Mention the Florists' Exchange when writing.

GIANT FLOWERING BEGONIAS TUBEROUS ROOTED

Single, white, red, yellow, rose, orange, copper color, scarlet, separate 1-2 in.....\$0.40 \$2.50 \$22.00	CANNAS, strong, plump roots..... 12 100
Single, all colors mixed 0.35 2.25 20.00	Named sorts in red, scarlet, yellow rose or white flowering; our choice.....\$0.30 \$2.00
Double, white, rose, scarlet, yellow, orange.....0.65 4.50 40.00	Dark or Bronze Foliage sorts.....0.35 2.50
Double, all colors mixed...0.60 4.00 37.00	Orchid Flowering.....0.30 2.00
CALADIUM (Elephant's Ear), sound center shoots 7-9.....0.50 3.00	GLADIOLI , white and light.....0.30 2.00
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Extra monsters.....1.50 10.00	GLADIOLI , American hybrids.....0.20 1.00
CALADIUMS , fancy leaved, in choice named sorts.....1.25 10.00	GLOXINIAS , in separate colors, white, red, blue, violet, tiger-red. All colors mixed...0.60 4.00
Mixed.....1.00 8.00	0.50 3.00

SEEDS	100 1000
Asparagus Sprengeri.....\$0.15 \$0.75	
Kentia Belmorcana.....0.75 6.00	
Latania Borbonica.....0.40 2.50	
Phoenix Canariensis.....0.30 2.00	

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We Handle Finest Valley Only

If you need fine Lily of the Valley for early or late forcing, delivery next Fall or later, then please send order at once.

Excellentia.....	1000
Superior.....	\$10.50
Excellentia Prtmer.....	12.00
	14.00

Goods can be returned at our expense if not satisfactory

John Scheepers & Co.
4 @ 6 Old Slip
NEW YORK

LILIES S. M. ISBELL & CO. JACKSON, MICH.

Auratum, 9-11.....	Per doz. 100	\$1.00	\$8.00
Speciosum Album, 7-9.....	.85	6.50	
" " 9-11.....	1.25	10.00	
" " Rubrum, 7-9.....	.75	5.50	
" " " 9-11.....	1.00	8.00	

PERENNIAL GARDENS CO., TOLEDO, O.
Mention the Florists' Exchange when writing.

S. M. ISBELL & CO. JACKSON, MICH.
Seed Growers for the Trade
BEANS, CUCUMBER, TOMATO, Radish, Peas, Muskmelon, Squash, Watermelon, Sweet Corn.
We are now booking orders for 1907, Fall delivery. Send for Contract Prices also surplus List.
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ASTER SEED

Our descriptive price list of High Grade Aster Seed is now ready and will be sent free on application. Try our new varieties: **CARDINAL, SUNSET and ROSY CARMINE BRANCHING**; they are winners. Price per packet, 25c.; two packets for 40c. Pointers on how to grow **ASTERS** successfully sent free with every order.

VICK & HILL CO.
P. O. Box 613 ROCHESTER, N. Y.
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TRUE STOCK Aquilegia Coerulea

Rocky Mountain Columbine
From the Rockies
SEED—1 oz. \$1.00; 1/4 lb., \$3.50; lb., \$12.00 by mail.
ROOTS—4 and 5 year old, doz. \$1.25; 100 \$8.00, by express.
Order from headquarters.

THE BARTELDES SEED CO., DENVER COLO.
Mention the Florists' Exchange when writing.

SEED PANSY PLANTS

THE JENNINGS STRAIN
25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, in bud and bloom \$1.00 and \$1.50 per 100; by express only. Second size, strong plants, 100 by mail, 60c.; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

E. B. JENNINGS, Southport, Conn.
Lock Box 254
Grower of the Finest Pansies
Mention the Florists' Exchange when writing.

To The Trade

Just issued—our special price list giving our position on
ONION SEED

We shall send this to the Trade, being unable to make the personal visit contemplated. Please write for it.

A. J. Pieters Seed Co., Hollister, Cal.
Mention The Florists' Exchange when writing.

ASPARAGUS SEED 1906 CROP

Plumosus Nanus, True.....	100 1000	50c. \$3.50
Sprengeri.....	15c.	.75
Cycas Revoluta Seed.....	\$2.50	22.50

Headquarters for all the best flower seeds. 100-page seed buyer's guide free.
MOORE & SIMON, Seed Growers, 339 Market St., Philadelphia
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ASTER SEED

Vick's Branching, Late White Aster, \$1.00 per oz., \$12.00 per lb.
The above seed is from carefully selected stock and should give good satisfaction.

WHITE BROS., Gasport, N. Y.
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C. C. Morse & Co. SEED GROWERS
171-173 Clay St., San Francisco, Cal.
ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
Warehouses, Santa Clara, Farms and Farm Headquarters, Carmadero, near Gilroy
Mention The Florists' Exchange when writing.

75,000 AZALEA AMENA
From 5ct. to \$3.00 each.
Privot 2 1/2 to 3 ft. 3 yr. transpl'ted @ \$25.00 pr 1000
3 to 4 ft. 30.00 pr 1000
3 to 4 ft. XX heavy 35.00 pr 1000
4 to 5 ft. 40.00 pr 1000
5 to 6 ft. 50.00 pr 1000
5 to 6 ft. XX heavy 90.00 pr 1000
See wholesale list for other stock.
ELIZABETH NURSERY CO., ELIZABETH, N. J.
Mention The Florists' Exchange when writing.

ASPARAGUS PLUMOSUS NANUS (Greenhouse Growth)
FINE PLUMP SEED
\$5.00 per 1000
ESTABLISHED 1824
Bridgeman's Seed Warehouse
Rickards Bros., Props.
37 EAST 19TH ST. Near Broadway
NEW YORK CITY
Telephone: 4235 Gramercy
Mention the Florists' Exchange when writing.

W. & D.'s Specialties for Forcing
Mignonette "New York Market"
Sweet Peas "True" Christmas Flowering (Pink and White)
Tomato "The Do" Tomato "Sirllog Castle"
Mushroom Spawa "English" and "Pure Culture"
Send for 1907 Catalogue.
WEEBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK
Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. E. McWay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

WELLINGTON, O.—J. O. Johnson has moved his seed store into the basement of the Reserve Block.
The total value of seeds exported from the United States during the year 1906 was \$14,259,421 against \$3,347,024 in 1905. The value of the seeds imported in 1906 was \$5,563,019 against \$4,207,743 in 1905.

Consul H. J. Harvey, of Fort Erie, Can., reports that last Winter large quantities of clover and grass seed were sent to the United States, but this Winter there will be scarcely any exported. On account of the drought last Summer the second crop of clover from which seed is gathered, was a failure.

COLUMBUS, O.—The seedsmen are getting busier every day; at present the heavy orders of the market gardeners and small dealers are being filled. Every indication is for a great year's trade; the only drawback will be that stocks may not prove adequate to the enormous volume of business that is just ahead. F. W.

ASPARAGUS SEED.—In the protest of Peck & Velsor against the assessment of duty by the collector of customs at the port of New York. Before Board 3, General Appraisers, February 15, 1907, opinion by Waite, G. A. The protest related to asparagus seed which was claimed to be free of duty under paragraph 548, tariff act of 1897, as crude drugs. Protest overruled on the authority of Abstract 12933 (T. D. 27636).

WATERING POTS.—In the protests of George Borgfeldt & Company against the assessment of duty by the collector of customs at the port of Philadelphia. Before Board 2, General Appraisers February 14, 1907. Opinion by Fisher, G. A.: The merchandise consisted of watering pots with long spouts, such as are ordinarily used in flower gardens. The Board overruled the importers' contention that they should have been classified as toys under paragraph 418 tariff act of 1897.

FARMINGDALE, L. I.—Nostrand Brothers report a considerable increase in sales of cabbage, cucumber and other specialties for which that section is noted.
WASHINGTON, D. C.—F. W. Bolgiano reports business opening up better than usual, and there is every indication of active trade.

CAMBRIDGE, N. Y.—Edward L. Coy, who has been growing seeds in Washington County, N. Y., for over half a century, has been compelled to abandon that work on account of his age, and physical disability resulting therefrom. Mr. Coy is 76. He has arranged with Jerome B. Rice Seed Company to succeed him, and has turned over to them his stock seeds (with the exception of such special stocks as have been entrusted to him), as well as his growers and the good will of his business. Mr. Coy, in announcing his retirement from active work says:

"My successors do not need any introduction to the seed trade, nor are they new in the cucumber growing business. For many years Jerome B. Rice and I have worked side by side in Washington County, and in the same territory, without conflicting or clashing. Several years ago we united in opposing the introduction of cucumber seed machines into Washington County, and succeeded; so that all the seed grown there is carefully harvested by hand, which makes the seed white and very much superior in appearance to machine cleaned stock.

"I consider Washington County, N. Y., the very best locality in the United States for the uniformly successful growing of cucumber seed. Many other seeds are grown there successfully, but cucumber seed. Many other seeds are grown there successfully, but cucumber has been my specialty for several years, and the demand for same has been so great as to give me about all I could do."

LARAMIE, WYO.—The Wyoming Plant and Seed Breeding Company has been incorporated and has as its incorporators and directors Ora Haley, Dr. V. T. Cooke of dry farming fame and Professor E. C. Buffum, the director of the experiment station here. One of the objects for which the company has been formed is, as stated in the articles of incorporation: "By scientific plant breeding we will establish varieties more suitable and profitable than those now grown in the inter-mountain region of arid America for irrigated farms and for dry farming—supply home grown acclimated, improved, hardy and prolific shade and fruit trees, small fruits, or-

namental shrubs and flowers and best pedigreed farm and garden seeds both of our own growing and those which are grown for us and which we can recommend."

The principal place of business of the company and the principal farm will be situated at Laramie, but there is to be a branch office and farm at Worland, Wyo. The company will also begin operations at once on the Shoshone reservation, opened to settlement last July and upon the lands to be reclaimed by the big Government irrigation works.

Dr. Buffum and Dr. Cooke are men who for the past twenty years have been studying and experimenting with the problems of the arid region.

The company is to be capitalized at \$100,000 divided into 100 shares of \$100 each.

CUMMIN SEED.—Consul John H. Grant, of Valetta, reports that Malta raises a very fine grade of cummin seed, for which those islands have been noted for many years. He writes: "As far back as 1745 a noted French writer upon agricultural topics referred to Malta as being an exporter of one of the best grades of cummin seed. At the present day the seed is raised solely for exportation, not being in demand for local use. Much of it is consumed in Germany, France, and England. Two-thirds of the quantity exported goes to Germany. Occasionally fair-sized orders are filled here for the United States, being obtained through German houses. The principal grade exported is that known as the clean seed, which seems to give so much satisfaction that it is constantly in demand. American houses using cummin seed might deal to better advantage if business were done directly with the Maltese merchants. The past season Morocco has not produced either in grade or quantity anywhere near its normal amount of cummin seed. As prices in that market for this article are high, purchasers must, at least for the present, look elsewhere for their supplies. On the

Stokes' Standard Aster Seed



Stokes' Late Branching Aster—Choice, American-grown stocks in separate colors, 75c. per oz., mixed, 60c. per oz.

Truffaut's Paecy Perfection Aster—A splendid florist Aster, long-stemmed sort, in separate colors, \$1.50 per oz., mixed, \$1.25 per oz.

NEW CROP ASPARAGUS PLUMOSUS NANUS
Greenhouse Grown, 1 er 100 seeds, 50c., per 1000 seeds, \$3.50, per 5000 seeds, \$15.00

SALVIA BONFIRE
The best Dwarf Salvia, my own "Floracraft" grown seed, trade pkt. 25c., per oz. \$1.50, per 1/2 lb. \$5.00

RAFFIATAPE



Try it on your Easter plants; pleasing, bright green color; stronger and cheaper and better in every way than string or Raffia.

Sample Free—It is put up in coils and on reels. In handling it the coil is placed in the pocket and the tape drawn from the middle. The brass reels are hung from the vest buttonhole.

Price—Coils (enough for tying up 150 plants) 5c. each, 50c. per doz. (by mail). Reels (250 yards), 75c. each, \$8.00 per doz. (by express).

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

Mention the Florists' Exchange when writing.

other hand the Malta crop is above normal conditions, and local farmers are about to take advantage of the decrease elsewhere by planting larger crops for the coming season. It is said that the price per cantara (175 pounds) in the market of Morocco at present is \$34.06. The price is much less in Malta."

A SERIOUS INJURY to the seed trade, but more particularly to the retailer who does a small jobbing business, is to be found in the "surplus lists," that are now flooding the country to an extent that is demoralizing. When the jobber makes up a list of varieties that have not had as great a run as in former years, and sends it to the trade, but little harm is done. But when a grower takes contracts and puts out a much greater acreage than is necessary, with an average yield, to fill his contracts and then sends "surplus lists," to all the smallest dealers, making prices much below his regular contract rates, he is doing his customers great injustice. Such lists come to the writer as often as the day, and they go into the waste basket as fast as received. By the early mail this day, a "great inducement" was offered in the line of vine seeds, that might seem attractive, as the price is quoted, "for any required amount" at 8c. per pound less than any responsible grower would take a contract at.

The worst feature of this system is that, one or more houses, very well known in the trade, make a business of encouraging the smaller growers to put in a large acreage, expressly to buy up the surplus at much lower prices than could be contracted for. Fortunately, the last class have overdone this business, and begin to find themselves outwitted, as the growers were as anxious to sell as they were to buy, and a vine seed order for a number of varieties would be filled from the same bin, with the results following

IMPORTS OF SEEDS, ETC.—February 16 and 17.—American Express Company, 200 bags clover seed; D. C. Frost, 112 bags seed; A. W. Fenton, Jr., 28 packages seed; R. J. Godwin's Sons 11 bags field seed, one case flower seeds, Hensel, Bruckman & Lorbacher, 20 bags mangel beet seed, 4 bags seed, 58 bags beet seed; Maltus & Ware, 22 bags field seed, one bag mangel beet seed; Phillips & Company, 32 packages seed; A. Stillwell & Company, 66 bags seed; Springfield Seed Company, four bags field seed; J. M. Thorburn & Company, 15 bags seed; Vaughan's Seed Store, one bag seeds; S. W. Gould & Brothers, 10 bushels seed.

February 20, 1907.—Stumpff & Walter Company nine cases bulbous roots.

February 18, 1907.—Union Pacific Ry. Company, 12 bags seed; Brown Bros. & Company 25 cases pine seed.

TREE SEEDS

Send to-day for our Trade Price List and our Illustrated, Descriptive Catalog Otto Kattzenstein & Co., Atlanta, Ga

If you have not received our florist list, write us; we will mail it.

H. E. FISKE SEED CO.,
12 & 13 Faneuil Hall Sq.
BOSTON, MASS.

February 20, 1907.—P. H. Petry & Co., two bags seed; Wm. Elliot & Sons nine cases plants; Maltus & Ware, two cases flower roots, 29 cases bulbous roots, 20 cases plants, 13 cases trees and shrubs; H. Nungesser & Company, 25 bags grass seed; J. M. Thorburn & Company, six barrels garden seed.

FLORAL PARK, N. Y.—John Lewis Childs returned last week from a business and pleasure trip South and found, to his surprise, business here surprisingly good, in fact better than for several years past, both in the wholesale and retail departments. He expects to visit his California branch next month.

J. Roscoe Fuller is having the best trade in years, and, not having any remarkable novelties to offer it shows a marked improvement in staple vegetable and flower seeds.

The trucking business, that seemed doomed a few months ago, has assumed an active life recently, as the farmers find more land to rent than they thought possible a short time ago. The speculators show a disposition now to rent the farms bought for residential purposes. Some of the dealers in peas, beans, and seed potatoes say sales are fairly good.

RICHMOND VA.—This is a large business center for almost every branch of the seed trade. T. W. Wood & Sons, who do an immense grass seed trade, and are leaders in the crimson clover business, report a fine trade along all lines.

T. J. King & Company say business never before was as good. This house does a business on a plan peculiarly its own, having agents in every village in the South and Southwest.

Diggs & Beadle have every promise of a successful trade, which is largely among the truckers. Mr. Diggs has been confined to the house from a severe illness, but will be at the helm again in a few days.

The Ontario Seed Company reports a most satisfactory condition of trade.

MICHELL'S SPRING BULBS

A Large Complete Stock of all the Important Varieties

BEGONIAS

	Doz.	100
Single, Separate colors	\$2.75	\$23.50
Single, Mixed colors	2.50	22.00
Double, Separate colors	3.00	40.00
Double, Mixed colors	4.00	30.00

CALADIUM ESCULENTUM (Elephant's Ear)

	Doz.	100	1000
Mammoth Bulbs	\$1.35	\$10.00	\$95.00
First Size	1.00	7.25	70.00
Second Size	.75	5.00	47.50
Third Size	.40	3.00	27.50

CALADIUMS, Fancy Leaved

	Doz.	100
Named Sorts	\$1.35	\$10.00
Mixed	1.00	8.00

CANNAS

Large Bulbs, with two and three eyes. We offer below a few of the most important.

	100	1000
Alphonse Bouvier, Crimson	\$3.50	\$30.00
Allemanina, Salmon	3.50	30.00
Austria, Yellow	3.50	30.00
Chas. Henderson, Crimson	3.50	30.00
Egandale, Cherry Red	4.00	35.00
Florence Vaughan, Yellow, Spotted Red	3.50	30.00
J. D. Eisele, Crimson, Yellow		
Throat	3.00	47.50
Madame Crozy	4.00	37.50
Pres. McKinley, Scarlet, Also all other varieties	3.50	30.00

CINNAMON VINES

	100	1000
Strong Tubers	\$2.50	\$20.00

GLOXINIAS

	Doz.	100	1000
Mixed, all colors	\$0.50	\$4.00	\$35.00
Separate Colors	.60	4.00	35.00

GLADIOLUS

	100	1000
Scarlet and Crimson	\$1.00	\$9.00
Pink and Variegated	1.25	12.00
Striped and Variegated	2.00	19.00
White and Light	1.75	15.00
Yellow	2.50	24.00
Fine Mixed	1.00	8.00
Very Choice Mixed	1.25	10.00
Groff's Hybrids	1.50	14.00

JAPANESE HARDY LILIES

	Doz.	100	1000
Auratum, 8 to 9 inch	\$0.75	\$5.25	\$47.50
Auratum, 4 to 11 inch	1.10	7.50	70.00
Album, 8 to 9 inch	1.00	7.00	65.00
Rubrum, 8 to 9 inch	.85	5.75	52.50
Rubrum, 9 to 11 inch	1.10	8.00	76.00
Melpomene, 8 to 9 inch	1.00	7.25	65.00
Magnificum, 8 to 9 inch	1.00	7.00	65.00
Magnificum, 9 to 11 inch	1.20	8.00	76.00

MEXICAN VINES

Strong Tubers	\$0.30	\$2.00	\$17.50
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SEND for our Florists' Wholesale Catalogue. It will pay you.

HENRY F. MICHELL CO., 1018 Market St., Phila., Pa.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Scager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

The total value of the plants, trees, shrubs, and vines imported into the United States for the year 1906 was \$1,750,160 as against \$1,574,477 in 1905.

Wants to Grow Fruit.

Having eight acres of land attached to my greenhouses, I would like to ask Mr. Meehan to suggest a list of fruits that might prove profitable to grow for market. The ground is a shallow clay loam with clay subsoil undulating enough to drain off surplus water. Pears are said to do well on such land. Does this apply to dwarf pears on quince stock or only to standards on pear stock? Are dwarf apples on Paradise stock obtainable in this country and would they succeed on clay loam?

Standard pears and plums would be suited in such soil as you describe. Neither apples, cherries nor peaches would thrive in it, nor would dwarf pears. The last named are worked on quince roots, rendering them quite unfit for such a situation as yours. Late fruits are valued for market, and in pears, commission men here say the most valued are the Lawrence, Sheldon and Kieffer, but the earlier one, Bartlett, would surely pay as well.

The Japanese plums, Abundance and Burbank, are very popular, bearing well and selling well. Among other sorts Reine Claude is popular and Lombard, Jefferson and Germau Prune are good; and there are others.

Horticultural Notes.

Thuja gigantea—*Thuja Lobii* of our English friends—is much the superior of *Thuja occidentalis* in the bright green of its foliage, but it is not sufficiently hardy to endure our Northern Winters, unless in a well-protected place.

Salisburia is found to be one of the hardiest of trees flourishing in Canada as well as in nearly all the Northern States. It is an error to suppose that no tree of it bears perfect flowers. Some do, and they fruit abundantly, as many an isolated specimen attests.

Mitchella repens, the partridge berry, is seldom seen in cultivation. As found in its wild state it is often hanging down the side of rocks. Being classed as a diocious plant accounts for its being often met with devoid of its berries.

Cotoneasters have numerous red berries in the Fall and Winter seasons. This makes them favorites with planters in Europe, as they should be here. They are quite hardy in the Middle States.

Hemlock spruce trees are far less numerous in their wild state than they were. Even in Canada, where there were acres on acres of them, they are not now as abundant as formerly. Seed collectors have difficulty in securing seeds of these trees.

When plants are frozen the sun must be kept from them, the plants sprinkled with cold water and then placed where the thawing will be gradual, such as will be the case in a temperature just above freezing. It is highly important that the thawing out be in the dark.

Kalmias transplant fairly well when taken up carefully from their wild homes. If root pruned a year or two in advance they can be moved without feeling the disturbance at all. It is the frequent removal that insures the safety of very large plants.

If the *Cedrela sinensis* has all the good qualities of the *ailanthus* as it is said to have, it will quite take its place in many plantings, the flowers having no disagreeable odor at all. The male flowers of the *ailanthus* are so sickening that windows of dwellings have often to be closed when a tree of it is near and in bloom.

Of the dozens or more of varieties of currants nurserymen find the best sellers to be the Versailles among the reds, and the White Versailles for white. These two are reliable always, bear well and regularly. The black currant is rarely planted by anyone although it does very well in our climate.

Evergreen Grafting

There is such a demand for the rarer evergreens of pines, firs, spruces and other sorts that to increase them grafting is resorted to in the case of many difficult to be had through any other system of propagation. Seedlings desired for stocks do much better when grown in pots a year or so before they are used. They should be placed in pots in Spring, the pots then plunged to their rims in the ground, where they can remain until Fall, when they should be removed to a cold frame or greenhouse, to be on hand when needed for grafting. If to be grafted during Winter, as they are by most operators, the plants should be given a warm temperature for two or three weeks in advance of grafting, that the sap may be in good circulation when the cion is inserted. After grafting, heat should be continuous through the Winter, until such time as

the natural heat is sufficient, in order that the growth of the grafted plants may continue unchecked.

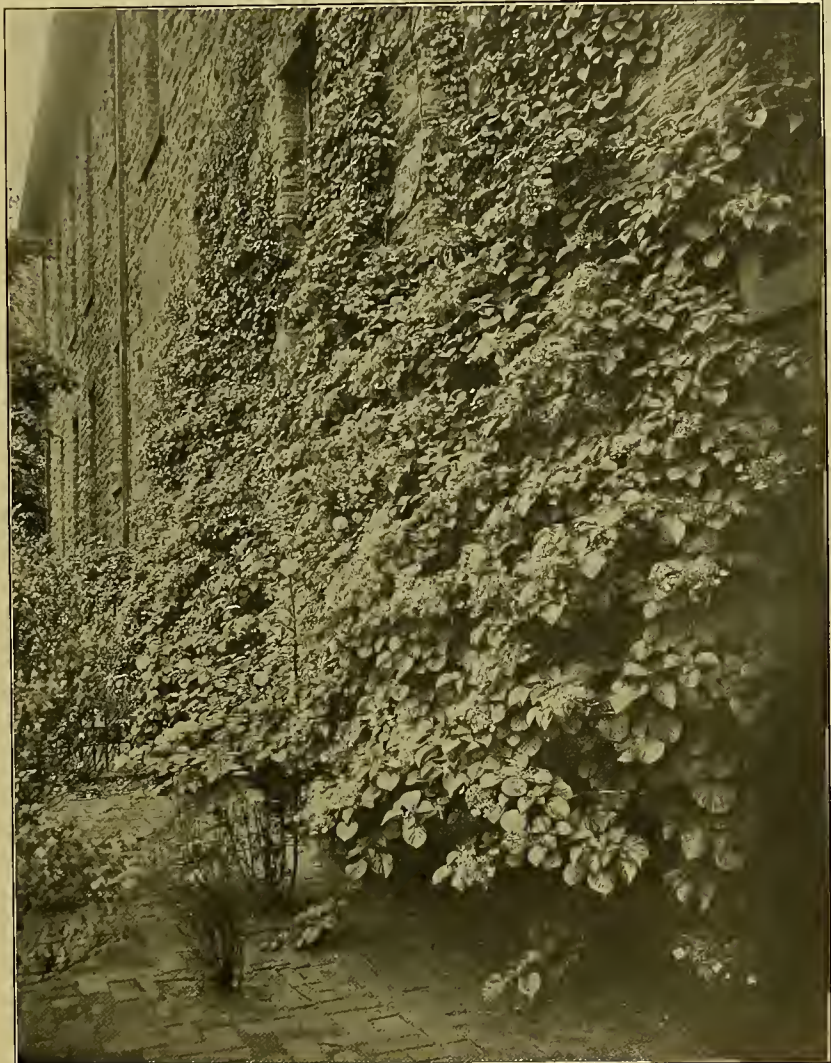
There must be considered the proper placing of the roots of the plants when potting the stocks. Many of the stunted specimens on lawns owe their ill-doing to curling or twisting of their roots in the pots when first potted. Sometimes plants with roots admitting of being set in a straight position can be obtained; at any rate, bear in mind that an evergreen that has had its roots coiled in a pot is not one likely to make a satisfactory growth when planted out. The roots are apt to continue their growth in the same way; and in the case of some of the heavy topped kinds, such as the Austrian and the red pine, they are then quite liable to be blown over in gales of winds.

Norway spruce make a good stock for all the piceas; the European silver fir for the firs, and the Austrian or Scotch pine for the pines. The nearer one gets to the relationship of the cion and the stock the better is the result.

convinces one of its being a splendid subject for such a position as that of a wall of a tall building.

Somehow the idea got abroad that the plant is slow of growth. This is far from the fact. It is slow to start when young, but in a few years, when it has made good roots, it pushes ahead vigorously; and this vine on the school wall grows as fast as any other good vine that could be planted there.

The very large green leaves this hydrangea has, for a vine, are in themselves a strong recommendation; and then it clings tightly, just as ivy does. It is not in the same class as ivy, of course, not being evergreen; but in place of this can be added its desirability as a flowering vine. The flowers are not as well displayed as they would have been had it been possible to have taken a good front illustration of it, but there is view enough to show the beauty of the picture it presents. It is the large sterile flowers that attract attention, as is the case with so many hydrangeas. Its time of flowering is soon after it has made its first unfolding of leaves, which in this vicinity is toward the close of May.



Hydrangea Petiolaris (Scandens), Climbing Hydrangea

Hydrangea Petiolaris (Scandens.)

The subject of these notes, *Hydrangea petiolaris*, is better known under the name of scandens, the appellation it has been disseminated under in our country, but properly it is petiolaris. Its common name, climbing hydrangea, is well applied, the plant being of a climbing habit, and one as well not afraid to catch hold of a wall, as some vines show a reluctance to do. To Japan we owe the introduction of this vine, as we do that of so many of our hydrangeas. It is there esteemed very highly, as it makes a great display when in flower, as may be gleaned by the appearance of some fine specimens of it in this country. Our illustration is of a plant growing to the wall of the Keyser School, one of the public schools in Germantown, and it interests many of the residents of the vicinity and the writer as well on account of its having been presented to the school by the late Thomas Meehan.

To get a position, our photographer had to take a side view of the vine, a front one not being practicable; still, the picture shows the vine to fair advantage, and

A little shrub in the yard will be recognized as the Japanese snowball, and being in flower it serves to fix the date of the hydrangea's flowering, as the snowball always is in bloom toward the close of May.

Many persons have expressed their opinion that this hydrangea and another vine, *Schizophragma hydrangeoides*, are one and the same thing. They are not at all the same, despite all that may be said to the contrary. We are acquainted with both vines, and cordially endorse what Nicholson says of this hydrangea in his Dictionary of Gardening viz, "Now and then met with in gardens under the name of *Schizophragma hydrangeoides*, a very different plant."

The propagation of this hydrangea by cuttings is slow, but by allowing the shoots to run along the ground as ivy does a number of young plants may be had. Young plants raised in this way are a long time "taking hold," but when they become well rooted they grow faster, and, as aforesaid, in the end the vines keep pace in growth with almost any other species of vine. At the rate our school house vine is growing it will be but a few years before it reaches the top of the building.

JOSEPH MEEHAN.

Flowering Magnolia
 Althæas
 Spiræa Van Houtte
 Tamarix
 Pyramidal Tree Box $\frac{1}{2}$ ft.
 Tartarian Honeysuckle
 Barberry Thunbergii

Nursery Stock for Florists' Trade

General List

of
Fruit and Ornamental Trees, Roses, Shrubs, Clematis, Hedge Plants

Write for our Spring Wholesale Trade List

W. & T. Smith Co. 61 Years' Experience
 600 Acres **Geneva, N. Y.**

Crimson Rambler
 Baby Rambler
 General Jack Rose
 Soleil d'Or Rose
 Lilac, Purple and White
 Lilac, Rubra de Marley
 Deutzia Gracilis

Mention the Florists' Exchange when writing.

ROSES
 STRONG DORMANT PLANTS

American Beauty, Clothilde Soupert, Gloire de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., etc., suitable for forcing immediate delivery. Prices Right General Catalog and Price List ready

BAY STATE NURSERIES, North Abington, Mass.
 Mention The Florists' Exchange when writing.

F. & F. NURSERIES SPRINGFIELD NEW JERSEY
 Wholesale Growers **TREES AND PLANTS** in full assortment. Trade Catalogue Free
 Mention the Florists' Exchange when writing.

AMERICAN BEAUTY ROSES!!!

A Fine Lot!

Two years, field-grown, budded on Manetti; all of our own growing; strong, sturdy, well-ripened, hard-wooded, American-grown stock.

Price.....\$15.00 per 100: (Write for prices on large lots.)
 Send for our *Spring Price List, now ready*; largest stock and completest assortment of Roses in the country, leading kinds, either budded or on own roots; list showing varieties, quantities available, and prices, sent, on request, to those in the Trade.

Send for our Wholesale Price List of Roses, Clematis, Flowering Shrubs, Conifers, Etc.

JACKSON & PERKINS CO., NEWARK, NEW YORK.
 (Wayne County.)
 Mention The Florists' Exchange when writing.

EVERGREENS

All known varieties of **HARDY EVERGREENS** are grown and offered for sale. We make a specialty of growing **HARDY EVERGREENS** from seed. Write for our latest price sheets. Evergreen and Deciduous Tree Seeds for sale in quantities.

D. HILL, Evergreen Specialist, DUNDEE, ILLINOIS
 Mention the Florists' Exchange when writing.

P. OUWERKERK
 216 Jane Street
WEEHAWKEN HEIGHTS, N. J.

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

JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiræa Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Mention the Florists' Exchange when writing.

50,000 Sugar Maple Seedlings

6-12 in., \$5.00 per 1000.

20,000 Sugar Maple Seedlings, 2-3 ft., \$25.00 per 1000.

5,000 Tulip Trees, 4-6 ft., \$6.00 per 100; \$50.00 per 1000.

5,000 Catalpa Speciosa, 4-5 ft., \$3.00 per 100 \$25.00 per 1000.

2,000 Sweet Gum, 6-8 ft., \$10.00 per 100; \$90.00 per 1000.

5,000 Ilx Opaca (American Holly), \$4.00 per 100; \$25.00 per 1000.

10,000 Novae Angliae Asier, strong, \$3.00 per 100; \$25.00 per 1000.

Send for our special surplus list of bargains.

ELLSWORTH BROWN & CO.
 SEABROOK, N. H.

Mention The Florists' Exchange when writing.

Rhododendron Maximums and Kalmia Latifolia

Finest stock in America, any size from one foot to ten feet high, well furnished from top to bottom. Special prices will be quoted on large orders. Also a full line of fruit trees, vines and plants, large quantity of Rock or Sugar maple 8 to 20 feet high, 1 to 3 inches in caliper.

Illustrated catalogue and price list of Rhododendrons free for the asking. Can furnish any quantity of Rhododendrons of any size. Write Us.

The Riverside Nursery Co.
 CONFLUENCE, PENNA.
 Mention the Florists' Exchange when writing.

Trees and Shrubs

Immense quantities, low prices. Price list on application. Peonies a specialty.

PETERSON NURSERY

108 LA SALLE ST. CHICAGO, ILL.
 Mention the Florists' Exchange when writing.

Specimen Nursery Stock

DECIDUOUS TREES AND SHRUBS, EVERGREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties. Send for price list.

COTTAGE GARDENS COMPANY
 QUEENS LONG ISLAND, N. Y.
 Mention the Florists' Exchange when writing.

10,000 RETINOSPORAS GOLDEN and SILVER FORMS

Splendid sheared specimens for lawn planting or for tubs and vases, smaller sizes for planting in nursery rows and for hedges.

Retinospora plumosa, var aurea (Golden Retinospora)		Retinospora Squarrosa Veitchii, SILVER RETINOSPORA.	
	Price per 10	per 100	
12-18 in., transplanted once	\$2.00	\$18.00	3-4 ft., trans. thrice sheared specimens
18-24 in., " twice	3.00	25.00	4-4 1/2 ft., trans. thrice sheared specimens
24-30 in., " "	6.00	50.00	5-6 ft., trans. frequently sheared specimens
30-36 in., " "	9.00	75.00	
12-18 in., transplanted once	\$1.75	\$15.00	2-1-2 3 ft., trans. thrice sheared specimens
1-1-1 2 ft., " twice	3.50	25.00	3-1-2 ft., trans. thrice sheared specimens
2-1-2 2 ft., " thrice sheared	7.50	60.00	

25 or more plants at the hundred rate. Above prices for dealers only.
 Mention this paper when writing.

THE WM. H. MOON CO. Morrisville, Pa.

Mention the Florists' Exchange when writing.

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Hollandia BOSKOOP, HOLLAND
 Nursery
 Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.

Pot-Grown Plants for Forcing.
 RHODODENDRONS, H. P. ROSES, Etc.

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Ask for Our Catalogue. It will interest you.

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LARGE TREES OAKS AND MAPLES PINES AND HEMLOCKS ANDORRA NURSERIES

WM. WARNER HARPER, PROPRIETOR
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47,960 Low-Budded Roses

in 26 varieties being the entire surplus of the Heikes-Bill stock. Delivery February—from my cellar's here. No. 1 at \$95.00 per 1000. No. 1 1/2 at \$65.00 per 1000. Privet cuttings \$1.25 per 1000—10,000 for \$10.00. Correspondence promptly answered.

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

Large Stock of PEONIES, M. L. RHUBARB LUCRETIA DEWBERRY

Write for Prices
GILBERT H. WILD, Sarcoxie, Mo
 Mention the Florists' Exchange when writing.

CANNA ROOTS

Allemania, Shenandoah, Anstris, Henderson, Pennsylvania, Italia, Mills, Berat, F. Vaughan, \$2.00 per 10; \$17.50 per 1000. West Virginia, Mrs. Kate Gray, \$3.00 per 100; \$25.00 per 1000. Rubens, 4 in., \$3.00 per doz; 5 in., \$4.00 per doz. Asparagus Sprengeri, 3 in., \$4.00 per 100. Hibleone, 2 in., \$2.50 per 100, in variety. Ferns, 2 in. Boston, \$3.00, 2 in. Scott's, \$3.00, 2 in. Tarrytown, \$3.00 per 100. Coleus Outings, 60c. per 100, \$5.00 per 1000.
THE NATIONAL PLANT CO., Dayton, Ohio
 Mention the Florists' Exchange when writing.

150,000 CANNAS

TRUE TO NAME
 ALL WITH TWO TO THREE GOOD EYES.
 Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

RED CANNAS	100	1000
A. Bouvier, 5 ft.	\$2.00	\$17.50
Beanta Poltava, 3 1/2 ft.	2.25	20.00
Chas. Henderson, 4 ft.	2.00	17.50
Crimson Bedder, 3 ft.	2.00	27.50
J. D. Eisele, 6 ft.	2.25	20.00
Explorateur Crampell, 6 1/2 ft.	2.00	17.50
Flamingo, 4 1/2 ft.	2.00	17.50
PINK CANNAS		
L. Patry, 4 1/2 ft.	2.00	17.50
Martha Washington, 3 1/2 ft.	2.00	17.50
Mlle. Berat, 4 1/2 ft.	2.25	20.00
Paul Marquant, 4 1/2 ft.	1.75	15.00

ORANGE CANNAS		
Admiral Avallan, 4 1/2 ft.	1.75	15.00
J. D. Cabos, 4 1/2 ft.	2.00	17.50
President Cleveland, 4 ft.	3.00	27.50
Queen of Holland, 4 ft.	2.75	26.00
Secretary Chabanna, 4 ft.	2.00	17.50
GOLD EDGED CANNAS		
Mad. Crozy, 3 1/2 ft.	2.75	25.00
Queen Charlotte, 4 ft.	2.75	25.00
Soav. ds A. Crozy, 4 ft.	2.75	25.00

YELLOW CANNAS		
Buttercup, 3 1/2 ft.	6.50	60.00
Combs de Boichard, 4 1/2 ft.	2.75	25.00
Florence Vaughan, 5 ft.	2.00	17.50
L. E. Ballys, 4 1/2 ft.	2.00	17.50

WHITE CANNAS		
Alsace, 3 1/2 ft.	2.00	17.50
Peachblow, 3 ft.	1.75	15.00

BRONZE CANNAS		
Black Beauty, 5 ft.	5.00	50.00
David Barrum, 3 1/2 ft.	3.25	30.00
Eggsdale, 4 ft.	3.25	30.00
Grand Honga, 8 ft.	1.75	15.00
Massolia, 8 ft.	2.75	25.00
Robusta, 6 to 8 ft.	1.75	15.00
Shenandoah, 6 ft.	2.25	18.00

ORCHID CANNAS		
Allamania, 4 to 5 ft.	2.25	18.00
Anstris, 5 ft.	1.75	15.00
Italia, 4 1/2 ft.	2.25	18.00
Kronus, 5 ft.	2.75	25.00
Mrs. Kate Gray, 6 ft.	2.75	25.00
Pennsylvania, 5 ft.	2.25	20.00
King Humbert, 4 ft., 12, \$2, 16 00		

Full descriptions of above and fifty other varieties of Cannas mailed free.

ELEPHANT EARS (Caladium Esculentum)

All sound and with eyes.	100	1000
6-8 inches in circumference	\$1.50	\$10.00
8-10 " " "	3.50	30.00
10-12 " " "	5.50	50.00
12 inches and up in circumference	10.00	90.00

ARTHUR T. BODDINGTON
 342 W. 14th St., New York.

Mention the Florists' Exchange when writing.

CHARLESTON, S. C.—The Southern Fruit Company has developed a large trade in seeds used by the truckers in that section, and is now preparing for a general local business.

AUGUSTA, GA.—N. S. Willet Seed Company, who do a large business in seeds, grown and used exclusively in the South, besides a general jobbing trade, and dealing in cabbage plants, report an increasing and satisfactory trade.

The Alexander Seed Company, formerly managed by Mr. Durban, is doing a fine local trade on a conservative plan.

ATLANTA, GA.—H. G. Hastings & Company, who are largely interested in cotton seed and have extensive trial grounds for testing new types, as well as doing a general seed trade through the South, report a most satisfactory business. Their cotton seed trade is simply immense, covering the whole cotton belt.

BIRMINGHAM, ALA.—Mr. McVay of the Amzi-Godden Seed Company says the Spring trade is opening up gradually, but very satisfactory. Mr. Durban is looking after the local trade.

MEMPHIS, TENN.—Otto Schwill & Company report an active Spring trade; choice seeds for the truckers and private gardeners being their specialty.

R. G. Craig & Company, who are almost exclusively in the box trade, have their consignments all made, and are awaiting returns.

The Ullathorne Seed Company, which does a large business along all lines, is seemingly satisfied with the outlook. Mr. Ullathorne, who alone is authorized to speak for the company, being away, our correspondent could not get details.

Southern Seed Company.—This firm is noted for the push they show along all lines in which they are interested—seeds, implements and fertilizers. An increasing and wholly satisfactory trade is reported.

LOUISVILLE, KY.—Wood, Stubbs & Company, who are doing a fine local, as well as a general wholesale and retail trade, say business is very good. They do a fine trade in onion sets, their soil and situation being seemingly well adapted for their production.

ST. LOUIS, MO.—The Schisler-Cornell Seed Company say Spring trade opens up well, in fact, an improvement along all lines over previous years.

The Tinsley Seed Company is pushing its trade with a determination that knows no failure, and success seems to crown its efforts.

D. I. Bushnell & Company, who are perhaps as well known as any seed house in the country, have nothing but good words to say regarding the business outlook. The problem of where to buy, and how to sell has long since been solved.

KBOKUK, IA.—A. Talbot & Company, who have added the seed trade to their extensive elevator business, and have a box as well as counter trade, report an increase of business—boxes all out; prospects favorable.

CHICAGO, ILL.—W. W. Barnard & Company say business is good, and that means that it is good. Their trade barometer is never misleading.

At Vaughan's Seed Store the prospects are all that could be desired. This house is conspicuous for its many departments which makes business at all seasons. No idleness here.

Peter Hollenback, the pioneer of the onion set industry, says trade is good. This house comes as near doing a safe business in sets as it is possible to do. Their gardeners' trade is a steadily increasing one.

CABBAGES FOR STOCK FEEDING.—This is the subject discussed by Samuel Fraser in Bulletin 242 of the Cornell University Agricultural Experiment Station. As to varieties Volga leads in the proportion of head to total plant, and is better than Surehead or Autumn King. The latter seemed to be better suited to clay loam soil than to gravel loam. Surehead did better than Autumn King in 1904 on gravel loam. Danish Ballhead is the lowest in yield, but has compact head. Insects and diseases, storing, marketing, etc., are all treated upon in the bulletin.

European Notes.

The following extract from one of the London daily newspapers will be read with much interest by seekers after novelties:—"A very interesting plant and one which is probably a forerunner of a new race of vegetables is the cabbage-sprout (too young as yet even to be christened), a very promising hybrid, the result of a cross between the Cambridge Champion Brussels sprout and the Winnigstadt cabbage. A new and striking vegetable is thus evolved, partaking of the qualities of both parents, the stem being studded with tight sprouts, and surmounted by a large cabbage-like head. Carter and Company hold the stock."

The late George Taber raised a very promising hybrid between the Brussels sprout and a fine strain of red cabbage, supposing that it would be freely used for pickling. In this he was much disappointed and as the plant required a lot of selection to keep it true to color and no one seemed eager to buy it, it was allowed to die out like the Albert and Dalmeny sprouts which had preceded and pre-deceased it. Another hybrid named Chou de Burghley, which is a cross between a cabbage and broccoli, has been more successful, principally on account of its extreme hardness.

To come down to more solid matters, the bloom in red clover has only been of a temporary nature and the rush of new seed on to the market has brought prices down to the old level once more. One small dealer was offered more than 200 tons on the market recently, but as there is at present no outlet, the seed remains unsold. White clover is not so abundant, but trefoil is, in Germany especially, a perfect glut. Lucerne remains firm and will go higher when the demand sets in.

The potato trade simply needs decent burial; all the life has been out of it since the season started. By the way Thorburn's Noroton Beauty has proved a great success in Sweden, where in a field test with 13 of the most highly esteemed European varieties it proved to be the earliest of all and the heaviest cropper. The average per acre was 13 English tons, the popular English Up-to-Date being second with a crop of 10½ tons per acre. It was, however, the lowest in starch production, the percentage being 13.7 per cent. but on account of the heavy crop the total product was only exceeded by the German champion, Bund der Lanwirthe.

In London the usual magnificent display of Primula sinensis varieties was to the front at the annual meeting of the Royal Horticultural Society. Several of the blooms in Cannell's collection measured 2½ inches in diameter and looked as full of substance as if they had been modeled in wax. The deep blue Czar and the rich carmine-zoned Duchess were the most striking features in the display of Sutton & Sons. A pale salmon-colored form of P. stellata attracted a good deal of attention, but the giant sinensis varieties overshadowed it. Low's salmon cyclamen improves on acquaintance and as the seed can be bought at a moderate price it deserves to find a ready sale. Winter-flowering sweet peas fell flat.

The Florists' Exchange just received, and we learn that the American Government has resolved to perpetuate the free seed farce and has voted the sum of \$230,000 for this purpose. Not being an American politician (to his great regret), the writer may be in error in the statement, but he has read somewhere that this is more than the U. S. A. pays to its worthy and able President. Why it hath been permitted to King Boodle thus to magnify himself passeth the understanding of

EUROPEAN SEEDS.

A recent consular report states that, among other things, garden tools could find a good market in the Argentine Republic.

Sphagnum Moss and Cedar Poles
Moss, 5 barrel bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Poles, 2 in. butt, 14 ft. long, \$15.00 per 1000; 2½ in. butt, 10 to 12 ft. long, \$25.50 per 1000; 1½ in. butt, 5 to 7 ft. long, \$10.00.

R. H. AKERS, Chatsworth, N. J.

CATALOGUES RECEIVED.

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

D. GUIHENNEUF, Paris, France.—Trade Price List of French Bulbs and Plants.

JAMES KING NURSERY, Elmhurst, Ill.—Price List of Peonies; a large collection.

JOHN R. CLARKE & COMPANY, West Roxbury, Mass.—Catalogue of Plants, Bulbs, Shrubs, and Trees.

FRANK E. RUE, Peoria, Ill.—General Catalogue of Seeds, Plants, Bulbs, and Nursery Stock, etc. Illustrated.

AL. K. FEIGLY, Skiatook, I. T.—Circular concerning the Feigly Nursery Tree Digger; a machine highly spoken of by those who have used it.

S. BIDE & SONS, Farnham, Surrey.—Descriptive Circular of new Hybrid Tea Rose "Queen of Spain," a seedling from Antoine Rivoire and an H. P.; color pale flesh, darker in center, also colored plate.

MORRIS & SNOW SEED COMPANY, Los Angeles, Cal.—Illustrated Catalogue of Vegetable, Flower, Tree and Shrub Seeds, etc. This is a new firm, and the present is its first catalogue, on which it is to be congratulated.

ARCHIAS SEED STORE, Sedalla, Mo.—Catalogue of Field, Garden, and Flower Seeds, Poultry and Bee Supplies, etc. A list of cash prizes is offered for products from Archias's "Sure Seeds."

FANCHER CREEK NURSERIES, Fresno, Cal.—Illustrated Catalogue of Fruit and Forest Trees, Vines, Shrubs, Palms, Roses, etc.; a very comprehensive catalogue. Also "New Products of the Trees," being a Treatise on Luther Burbank's late introductions, including the Santa Rosa Plum, the Rutland Plumcot, the Paradox Walnut, the Royal (Black) Walnut. Illustrated.

ARTHUR COWEE, Berlin, N. Y.—Catalogue of Groff's New Hybrid Gladioli, with other Domestic and Foreign Gladioli of acknowledged merit. Mr. Cowee remarks: "It is only the simple truth to say that in this catalogue are presented the most valuable varieties, collections and mixtures of Gladioli offered in the world." The catalogue is profusely illustrated, including a colored plate, representing six named varieties. Practical cultural directions are provided. A useful and attractive catalogue.

THE GREENHOUSE STRUCTURAL COMPANY, Cincinnati, O.—Catalogue of Structural Iron Work for Greenhouses, Ventilating Machinery, Iron Fittings, Pipe, Gutters, Iron Bench Frames, etc. The firm's specialty is light iron frame greenhouses, with concrete "post and board" walls.

Both the manager and secretary of this company were formerly with the Lockland Lumber Company, Mr. Lecher having had full charge of the greenhouse department of the Lockland Lumber Company for some five years.

DAHLIAS AND THE DAHLIA MANUAL



An illustrated up-to-date work covering the whole field of Dahlia Culture. Price 35c. Send for catalogue of Dahlias, Hollyhocks and Hardy Plants. I handle only the cream of varieties. W. W. Wilmor, Wm. Doel, No.

vajo, Dainly Kriomhilde, etc. My Dahlias have long been celebrated as prize winners.

W. W. WILMOR

Dahlia Specialist, Box 382, DENVER, COLO.

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,

Successors to L. K. PEACOCK, Inc.
ATCO N. J.

JEANNE CHARMET

An enormously large Decorative Dahlia, imported from France; color, a beautiful lilac; one of the finest Novelties of recent introduction. Send for my Pocket Catalogue and Dahlia Guide for 1907.

EDWIN S. MANUEL, 19 Walnut Street, Newport, R. I.

Mention the Florists' Exchange when writing.

Brockton Dahlia Farm

Has the largest and finest collection of Dahlias in the United States, with prices that will suit the trade.

SEND FOR PRICE LIST!

W. P. LOTHROP, Prop., East Bridgewater, Mass.

600,000 ASPARAGUS ROOTS

	Per 100	Per 1000
2 Years Palmetto, heavy	\$.50	\$3.50
2 " Palmetto, strong	.40	3.00
2 " Cowley's Colonial	.35	2.75
2 " Barr's Mammoth, strong	.46	3.00
2 " Donald's Elmira	.49	3.00
2 " Giant Argentea	.43	3.00
2 " Columbian White	.50	3.50

On 50,000 or over good discount given. On other Nursery Stock, send for Trade List.

RIVER VIEW NURSERIES

J. H. O'HAGAN, Prop'r. Little Silver, N. J.

SEASONABLE STOCK

CANNAS—Alsace, Austria, Charles Henderson, David Harum, Duke of Marlborough, Italia, Mlle. Berat, Shenandoah, \$2.00 per 100, \$17.00 per 1000.

Beante Poltevine, Crimson Bedder, Egandale, Florence Vaughan, Queen Charlotte, Souv. de Antoine Crozy, \$3.00 per 100, \$25.00 per 1000.

(See catalog No. 5 for complete list)

AZALEA MOLLIS, Grand for forcing, bushy and full of buds. 12 to 15 in. high, \$25.00 per 100; 15 to 18 in. high, \$35.00 per 100.

RHODOENDRONS, Bushy, bright foliage, full of buds. Forcing Varieties. 18 to 20 in. high, \$9.00 per doz.; 20 to 24 in. high, \$12.00 per doz.

TUBEROUS ROOTED BEGONIAS—White, Pink, Scarlet, Crimson and Yellow. Single Flowered, \$2.50 per 100; Double Flowered, \$4.50 per 100.

GLOXINIA BULBS—Separate Colors, White, Red, Violet, Violet Bordered White, and Red Bordered White, \$4.00 per 100.

The STORRS & HARRISON CO., PAINESVILLE, OHIO.

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing GROFF'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM, BERLIN, N. Y.

PLANT CULTURE

PRICE \$1.00

THE BEST BOOK FOR THE PLANT GROWER.

A. T. DE LA MARE PTC. 2 PUB. CO. LTD., 2-8 DUANE STREET, NEW YORK

PRIZE-WINNING

ROSES AND CARNATIONS

ROSES

The New Rose "Morton Grove," winner of the Silver Cup at Chicago Flower Show, 1906, for best new rose, will be disseminated in 1908.

	R. C.	2 1/2-in.	2 1/2-in.	3 1/2-in.
	Per 1000	100	Per 1000	Per 1000
Maids.....	\$18.00	\$4.50	\$40.00	\$55.00
Brides.....	18.00	4.50	40.00	55.00
Gates.....	18.00	4.50	40.00	55.00
Uncle John.....	18.00	4.50	40.00	55.00
Chatenay.....	18.00	4.50	40.00	55.00
Richmond.....	20.00	4.50	40.00	55.00
Rosalind Orr English.....	20.00	5.00	45.00	60.00
Kaiserin Augusta Victoria.....	4.50	40.00	55.00	

CARNATIONS

	Rooted Cuttings 2 1/2-in. per 100 per 1000 per 100		
White Perfection.....	\$6.00	\$55.00	\$7.50
Rose Pink Enchantress.....	3.00	25.00	4.00
White Lawson.....	3.00	25.00	4.00
L. Peary.....	3.00	25.00	4.00
Gov. Wolcott.....	2.50	20.00	3.50
Pink Lawson.....	2.00	17.50	3.00
Enchantress.....	3.00	25.00	4.00
Victory.....	6.00	50.00	7.00
Cardinal.....	3.00	25.00	5.00
Red Lawson.....	4.00	35.00	5.00
Prosperity.....	2.50	20.00	3.50
Patten.....	2.00	17.50	3.00
Variegated Lawson.....	4.00	35.00	5.00
Glendale.....	5.00	40.00	6.00
Craig.....	5.00	40.00	6.00

FROM HEALTHY STOCK

We are now rooting all the commercial varieties of Chrysanthemums. Ask for price list.

POEHLMANN BROS. COMPANY, MORTON GROVE, ILL.

Mention the Florists' Exchange when writing.

During 1906 we furnished to the trade over One Hundred Thousand of the below described leaflets.

CULTURAL DIRECTIONS

Specially written for the use of your amateur customers. Send Twenty-five cents for complete sample set, which amount will be deducted from order for first thousand.

The universal favor in which these Directions are held, as shown by the many orders received therefor, encourages us in the belief that these Leaflets are just the neat little factor to help promote business and establish better relations between the dealer and his customer.

TRY SOME!

BIG BUSINESS ASSISTANT

TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE YOUR CUSTOMER, WE HAVE PREPARED

Cultural Directions

COVERING A NUMBER OF THOSE PLANTS AND BULBS MOST LARGELY IN DEMAND

THE "CULTURALS" have been written by experts; they are fuller, and contain more detailed directions than it is possible to embrace in a catalogue. Equipped with these, just hand one out with each sale, and save yourself considerable present and future trouble, as the customer will then be able to consult the directions, grow his plants, seeds or bulbs intelligently, and so receive satisfactory results, without having to continually resort to you for advice.

The following "Culturals" are now ready:

AMARYLLIS(Hippeastrum)	CROCUS, Snowdrop and Scilla Sibirica	MUSHROOM CULTURE ONIONS
ANNUALS FROM SEED	DAHLIA	PALMS, House Culture of
ASPARAGUS	PERNS	PANSY
ASTERS	FERESIA	PEONIES
BEGONIA, TUBEROUS	GERANIUM	PERENNIALS, Hardy
BULBS	GLADIOLUS	PRIMULA
CABBAGE and CAULIFLOWER	GLOXINIA	ROSE CULTURE
CANNA	HOT BEDS and FRAMES	SWEET PEA, The
CARNATIONS, MONTHLY	HOUSE PLANTS, Care of	TOMATOES
CELEBRITY	HYACINTHS, Dutch and Roman	TUBEROSE
CHINESE SACRED LILY	IRIS AND TRITOMA	TULIP
CHRYSANTHEMUM	LAWNS	VEGETABLES
CLIMBING PLANTS, Hardy	LILY CULTURE for House and Garden	VIOLETS
COLEUS, and other bedders		WATER GARDEN, How to make and Manage a

PRICE LIST

500 Cultural Directions for \$1.50 (Printed on white paper, clear type, size 6 x 9 1/4 inches, in an assortment, your selection of not less than 100 of each, delivered carriage paid.)
1,000 - - - - - 2.50

Sufficient space will be left at the bottom of each leaflet for your name, address, etc. If you desire this imprint (3 lines) we will put same on for you at 60 cents for 500, 75 cents for 1000. Special quotations will be made on quantities of 2500 "CULTURALS" or over.

A. T. De La Mare Ptg. and Pub. Co. Ltd.
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GRAND NEW CANNAS

William Saunders

The flowers are large, of splendid form, and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson. Foliage is that of Wm. Saunders is decidedly the most perfect canna of this type that has been introduced. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Ottawa

is a strong grower, very robust and 5 to 6 feet high. The flowers are large and beautifully formed, color is carmine with tints of old rose and deep coral, add to this the silken sheen and you can imagine the effect a few plants will produce.

Note:—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert: Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 coming in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size." 50c. each; \$5.00 per doz.; \$35.00 per 100.

New York

Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of cannas. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

ROSES

Are our great specialty, 2 1/2 and 4 in. pot plants we have in great variety. Teas, Hybrid Teas and H. P. Roses on their own roots. Philadelphia Rambler, Crimson Rambler, Dorothy Perkins and other climbers in strong field plants.

Shrubbery

in variety. Viburnum Plicatum, Spireas, Altheas, Deutzias, Weigelas, Barberry Thunbergii, Hydrangea Pan. Grandiflora, Honeysuckles, etc.

THE CONARD & JONES CO., WEST GROVE, PA.

Mention the Florists' Exchange when writing.

20,000 PEONIES

FOR EARLY SPRING PLANTING.

This list comprises a great many choice and rare varieties, some of which have never before been offered to the trade in quantities. The stock is now in our storage sheds and can be shipped as soon as the weather will permit. Nothing but selected three to six eye divisions will be sent out.

1000 Achillea, blush white, \$8.00 per 100.	500 Lady Bramwell, silvery pink, \$12.00 per 100.
500 Alice de Julvecourt, salmon pink, \$12.00 per 100.	50 La Roslere, straw yellow, \$30.00 per 100.
*200 Beaute Francaise, flesh pink spotted carmine, \$15.00 per 100.	100 Louis Van Houtte, violaceous red, \$20.00 per 100.
*200 Bell Dousisienne, flesh, fading to white, \$20.00 per 100.	500 Mme. Breon, flesh, centre creamy white, \$10.00 per 100.
200 Beranger, mauve pink with bright centre, \$30.00 per 100.	250 Mme. Coste, rose, \$20.00 per 100.
200 Charlemagne, creamy white, centre lilac flesh, \$25.00 per 100.	50 Mme. Rosa Bendatier, glossy pink, lilac reflex, \$30.00 per 100.
500 Charles Verdier, carmine, \$8.00 per 100.	250 Mme. Failet, violaceous pink, shaded lilac, \$10.00 per 100.
200 Czarina, deep rose pink, \$30.00 per 100.	1000 Mont Blanc, lemon yellow, \$20.00 per 100.
500 Duke of Wellington, sulphur white, \$20.00 per 100.	250 Ne Plus Ultra, bright rose, \$12.00 per 100.
500 Festiva, white, \$20.00 per 100.	250 Paganini, rose, centre white and yellow, \$15.00 per 100.
1000 Festiva Maxima, white, \$30.00 per 100.	500 Orl. Kubra, deep crimson, \$8.00 per 100.
200 Golden Harvest, tri-color, \$25.00 per 100.	500 Queen Victoria, white, \$8.00 per 100.
1000 Humei Carne, cherry pink, \$8.00 per 100.	250 Triomphe du Nord, violaceous pink, \$12.00 per 100.
100 Jeanne d'Arc, sulphur white, pink centre, \$30.00 per 100.	1000 Double Pinks, \$7.00 per 100.
500 Jenny Lind, bright pink, silvery reflex, \$25.00 per 100.	500 Double Whites, \$10.00 per 100.
	250 Double Crimson, \$8.00 per 100.
	500 Double Mixed, \$6.00 per 100.

COTTAGE GARDENS COMPANY QUEENS, N. Y.

Mention the Florists' Exchange when writing.

Summer-Flowering Bulbs

German or Japan Iris, write us for prices. We have the stock and can give you satisfaction.
JOHN LEWIS CHILDS, Floral Park, N. Y. Mention The Florists' Exchange when writing.



Lambert's Pure Culture Mushroom Spawn. Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized. Has never failed to run. Mailed free on application. Sold by leading seedsmen. Practical instructions on "Mushroom Culture" mailed free on application. **American Spawn Co.** St. Paul, Minn.

75,000 Gladiolus Bulbs

to 1 1/2 inches \$2.00 per 1000; Larger sizes at proportionate prices; all very fine light mixed Lemoines and Gandavensis. Cash with order.
I. & J. L. Leonard, Iona, N. J. Mention The Florists' Exchange when writing.

Gladioli—NOTHING BETTER ANYWHERE.
Cannas—VERY BEST SORTS.
Carnations—THE MONEY MAKERS.
Peonies—1200 sorts, finest sorts in liberal supply.
Send for a list of our offers.

C. BETSCHER, Canal Dover, Ohio. Mention The Florists' Exchange when writing.

CANNAS

Crimson Bedder a superb CANNA. Very handsome for bedding. \$1.00 per 100. Cash.
A. CORLIN, Elberon, N. J.

A Good Investment. Referring to a full page advertisement he recently used in The Florists' Exchange, S. S. Skidelsky says: "I am well satisfied with the results and consider the advertisement a good investment."

March 2, 1907

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NEW BEDFORD, MASS.—The wife of A. Ashley is reported very ill; her condition is alarming. Napoleon Le May says that practically all of the orders he received for his carnation cuttings came from his advertisement in The Florists' Exchange—one more good word for your valuable paper. Most of the stores closed in the afternoon on Washington's Birthday. This has been an unusually hard winter on the coal bins. Our growers will get their lilies in on time for Easter with a little maneuvering. Peter Murray has purchased four acres of land in Fairhaven, Mass., and it is said, will erect some modern greenhouses upon it. HORTICO.

FOR SALE Ready now in Excellent Condition; Choice Colored Dracenas TERMINALIS, large plants, 50-75c. Regina, Hybrida, Amabilis, Stricta-grandis, Kneekii, 75c. to \$1.00. Lindenii, Messangeana, Gladstonii, Imperialis, \$1.00 to \$1.50. FRAGRANS and BRAZILIENSIS, 75c. Ficus Pandurata, 7 in. pots, 7-10 leaves, \$2.50; also large specimens. ROSE HILL NURSERIES, New Rochelle, N. Y. Mention the Florists' Exchange when writing.

PETUNIA "THE QUEEN" This is something new to the Petunia order, a new double, extra fine, that requires no staking, 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100. Colors, Golden Bador, and other varieties, rooted outling, 1,000 per 100; \$5.00 per 1000. Verschaffeltii, rooted cuttings, 70c. per 100; \$6.00 per 1000. Petunias in variety, 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Euchsias, in variety, 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Heliotrope, in variety, 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000. Sweet Alyssum, 2 1/2 in. pots, \$2.00 per 100. Little Gem, \$2.00 per 100. Lobelia, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.00 per 100. Rose Geranium, in variety, \$1.50 per 100; R. C., \$1.50 per 100. Happy Thought Geranium, \$2.00 per 100. German Ivy, R. C., \$1.50 per 100. English Ivy, R. C., \$1.50 per 100. Lobelia, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.50 per 100. Alternanthera, R. C., 9c. per 100. Cash with order. J. E. FELTHOUSEN, 154 Van Vranken Ave. SCHENECTADY, N. Y. Mention the Florists' Exchange when writing.

HEADQUARTERS FOR The Genuine Irish Shamrock 1/2 in. pots \$4.00 per 100; 2 in. pots \$5.00 per 100; \$1.00 per dozen. WILLIAM NICHOLSON Framingham, Mass. Mention the Florists' Exchange when writing.

Trade Notes. Business has been good the past two weeks, but owing to the scarcity of stock prices have advanced. St. Valentine's Day was an ideal one—very pleasant with the temperature about 33 above zero. This brought out many people, and business was exceedingly good. Violets were mostly in demand; one of our local florists sold 25,000 at retail. The death of former Governor Frank W. Higgins called for many flowers from our city as well as from other sections of the country. President Roosevelt sent a wreath of hyacinths, white carnations and Killarney roses. Governor Hughes sent a wreath of galax, cattleyas and ribbon. The Governor and Legislature sent the largest piece—a standing wreath five feet in diameter made of pink roses clustered with lily of the valley, orchids and violets, the base a huge mass of Harrisii lilies. W. J. Palmer made the wreath. Both Mr. Palmer and S. A. Anderson sent artists to Olean to fill their orders. Wm. Scott is rapidly recovering from his recent illness. Arthur Zirkman of M. Rice & Company, Mr. Keller of Reed & Keller, E. Hancock of S. S. Pennock-Meehan Company, and Jas. Barnett of Reed & Keller called on the trade recently. All report business very good. W. H. G. DAVENPORT, IA.—The Tri-City Florists' Club held a very delightful meeting last week in the home of William Knees in Moline. About 20 of the members were present. The discussion was on hotbeds and their care. A social time followed. The florists are planning for their annual banquet, which will be held some time in March. A committee of three, one from each city, has been appointed to arrange the details. Adolph Aird of Davenport, H. Staeps of Rock Island and Wm. Knees of Moline constitute the committee.

FOR SALE—Boilers, No. 18 Hitchings, \$50.00; 11 Sectional and Porcupine. Cheap. C. D. Zimmerman, 181 Norwood avenue, Buffalo, N. Y.

CONSTANTLY on hand, second-hand pipe with new threads and couplings; also boiler tubes without scale, ends cut square. Fraft & Kendall, Foundry Street, Newark, N. J. FOR SALE—Greenhouse material and hot bed sash milled from Gulf Cypress, to hot detail furnished. Oxford patty, specially made for greenhouse and hot bed sash. V. E. Reisch, 1429 Metropolitan Avenue, Brooklyn, N. Y.

SEVERAL good second-hand boilers of standard make on hand, thoroughly tested, complete in every detail. William H. Water, boiler & slide Avenue Station, C. R. R. of N. J., Jersey City N. J.

FOR SALE CHEAP—Florists' refrigerator, 6 ft., 3 in. high; 4 ft. wide; 2 ft., 3 in. deep. Bird's eye maple, trimmed with cherry. Three sides entirely plate glass and mirrors. Large mirror inside of back. New; never been used. Write for price. E. E. Wheeler, Box 152, Bridgeport, Conn.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. KROESCHELL BROS. CO., 33 Erie St. Chicago.

FOR SALE

Boilers No. 8 Weathered, round, \$60.00. One 8 section Snaray hot water sectional boiler, grade 3 by 3. Price \$150.00. New Henderson boilers; send for price on size wanted. One No. 387 Ford & Burham hot water boiler 7 and 10 in. 38 in. grate, heat 8,000 sq. ft. of glass, used one season, price \$150.00, guaranteed. PIPE Good serviceable second hand, No. 10 Jank, with new threads. 2 in. 70; 1 1/2 in. 50c; 1 1/4 in. 40; 1 in. 30; 3/4 in. 10c; 3/8 in. 10c; 1/2 in. 10c. 4 in. cast iron and all sizes wrought iron.

STOCKS AND LIES New Economy, easy work—No. 1 and No. 2 sizes. No. 1 cuts 1 1/2 in. \$3.00; No. 2 cuts 1 1/2-2 in. \$4.00; Armstrong No. 2 cuts 1 1/2-2 in. \$4.00; No. 3 cuts 1 1/2-2 in. \$3.50.

PIPE CUTTERS Sanders, No. 1 cuts to 1 in. \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed, 12 in. gripe 1 1/2 in. \$1.50; 24 in. gripe 2 1/2 in. \$2.25; 36 in. gripe 3 1/2 in. \$4.50.

PIPE VISES Reed's Best Hinged Vise, No. 1 gripe 2 in. \$1.75; No. 2 gripe 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 1/2 in., guaranteed; 3/4 in. for heavy work, guaranteed; 1 1/2 in. New; Gulf Cypress, 3 ft. x 8 ft. 80c.; glazed complete \$1.80 ap. Hand each glazed \$1.00 and \$1.25, good condition.

GLASS New Economy 50 ft. to the box. 10x12 single \$1.80; 10x12 10x15 B double \$2.65. 12x14 to 12x20 and 12x14 to 14x20 B double \$2.85. 16x20 and 16x18 B double \$3.00. 16x20 to 18 x 24 double \$3.25 per box. 18x24, 18x10 old, single \$1.50. 8 x 10 old, double \$1.85. 12 x 14 old, single \$1.75.

Get our prices on second hand wood material. We can furnish everything in new material to meet any size house. Get our prices. METROPOLITAN METROPOL CO. Greenhouse Wreckers 1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

SEEDLINGS VERBENAS (6 colors), PHLOX DRUMMONDI, ALLYSUMS, (Little Gem), STOLBS, (3 colors), 35c. per 100; \$2.50 per 1000. SALVIA, (3 colors), 35c. per 100; \$2.50 per 1000. \$3.00 per 1000. Grown from the best seed. CINERARIA, 6 in., 6pc plants, ready to bloom, \$2.00 per doz.; \$15.00 per 100. AGERATUMS, (3 colors), 6 in. old, \$1.00 per 100; \$2.50 per 100. J. C. Schmidt Co., Bristol, Pa.

MISS KATE MOULTON

What Richmond Is in Red
Kate Is in Pink

YOU WILL NOT MAKE ANY MISTAKE IN PLANTING
A LARGE STOCK OF THIS BEAUTIFUL ROSE

Rooted Cuttings All Sold Out

Plants in 2½ inch pots for late March delivery will be ready.
Order direct from Headquarters. Write for Prices

MINNEAPOLIS FLORAL CO., MINNEAPOLIS, Minn.

WELL ROOTED HEALTHY STOCK

CARNATIONS

Well Rooted Cuttings

	Per 100	Per 1000
PINK		
Lawson.....	\$1.50	\$10.00
Nelson.....	1.50	10.00
Nelson Fisher (cerise).....	2.50	22.50
LIGHT PINK		
Enchantress.....	2.50	22.50
VARIEGATED		
Mrs. Patten.....	2.50	22.50
WHITE		
Boston Market.....	1.25	10.00
White Lawson.....	3.00	25.00
RED		
Robert Craig.....	6.00	50.00
Cardinal.....	2.50	20.00
Estelle.....	2.00	17.50

ROSES

Strong and Well Rooted Cuttings

	Per 100	Per 1000
Richmond.....	\$1.50	\$12.50
Liberty.....	2.00	17.50
Bridesmaid.....	1.50	12.50
Bride.....	1.50	12.50
Sunrise.....	3.00	25.00
Uncle John.....	1.50	12.50
Chatenay.....	1.50	12.50
Ivory.....	1.50	12.50
Perle.....	2.00	17.50

ROSE PLANTS

From 2½ inch Pots.
Ready for Shipment.

Richmond.....	\$3.00 per hundred
Bridesmaid.....	
Uncle John.....	
Chatenay.....	\$25.00 per thousand
Bride.....	
Ivory.....	
Liberty.....	\$4.00 per hundred
Perle.....	\$35.00 per thousand
Sunrise.....	\$5.00 per hundred
	\$40.00 per thousand

Killarney 2½ inch pots Grafted Stock. \$10.00 per Hundred
BENCH PLANTS

One year old plants from Benches, Liberty, Ivory, and Perle, ready now. \$5.00 per hundred, \$40.00 per thousand.
AMERICAN BEAUTY, March Delivery, \$10.00 per hundred, \$75.00 per thousand

PETER REINBERG, NO. 51 WABASH AVENUE, CHICAGO

Mention the Florists' Exchange when writing.

GRAFTED ROSES

Our roses are the finest and best grown. Liberty, Richmond, La France, Killarney, rose pots, \$15.00 per 100. 3½ inch pots, \$18.00 per 100. Bride, Bridesmaid, Golden Gate, Kaiserin, rose pots, \$10.00 per 100. 3½ inch pots, \$15.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

GRAFTED ROSES

On Dicksons' Irish Manetti.
We are now booking orders for March delivery.
KAISERIN, BRIDE, BRIDESMAID,
KILLARNEY & RICHMOND; \$120 per 1000.
Order Now

ROBERT SCOTT & SON,
SHARON HILL, DEL. CO. PA.

Mention the Florists' Exchange when writing.

ROSES, pot grown, own roots, dormant, easy to force, 2 and 3 year old. Hybrids and Moos in good mixture. MONTHLIES; Agrippina, Bride, Bon Silence, Brabant, C. Cook, Hermosa, Kaiserin, L. Philip, La France, Liberty, Malmesbury, M. Krueger, Cochet, M. J. Schwarz, Marie Van Houtte, M. Chatenay, Pink Fairy, Safrano, etc. CLIMBERS; Abel Carriere, Baltimore Belle, Dorothy Perkins, M. Niel, Meteor, Mary Washington, Macrophylis, Philadelphia Crimson Rambler, Pink and Yellow Rambler, Queen of the Prairie, etc., \$1.60 per doz.; \$3.00 per 100, in not less than eight varieties, Summer struck, well rooted, dormant cuttings of above, \$1.50 per 100. GERANIUMS. Double Grant, La Favorite, 2 and 3 in. pots \$2.00 and \$3.00 per 100. FERNS, the best single carlet, 2 and 4 in. pots, \$1.00 and \$2.00 per doz. Lantanas, dwarf varieties, \$2.00 per 100, from 2 in. pots. DRACAENAS, Terminalia, Fragrans and Braziliensis, 2, 3 and 4 in. pots, \$1.00, \$1.60 and \$2.00 per doz. FERNS, Boston, 3 and 6 in. pots, \$1.00 and \$3.00 per doz.; Malden, 3 in., \$1.00 per doz. ASPERAGNA Plumosa, 3 in., \$5.00 per 100. PALMS, Lantanias, 6 in., 60c.; Phoenix Canariensis, 6 in., 70c.; Kentia Belmoreana, 4 in., and Chamerops Excelsa, 6 in., 25c. each, or two each varieties (8 palm), \$3.00. Cash with order please. Extras added.
N. STUDER, ANACOSTIA, D. C.
Mention the Florists' Exchange when writing.

2 year old **ROSES** 4 in. pots

P. & W. Cochet and Crimson Rambler, 70c.; La France, Meteor, Hermosa and Soupart, 8c.; Diebach, Dinmore, Charte and Laing, 9c.; Gen. Jacqueminot and Paul Neyron, 10c.; Marchal Niel, 16c.; Baby Rambler, 18c.
101 choice sorts in 2½ in. pots,

THE LEEDLE FLORAL COMPANY -
SPRINGFIELD-OHIO

Mention the Florists' Exchange when writing.

GRAFTED ROSES

Brides and Bridesmaids.
EDW. J. TAYLOR
Southport, Conn.

Mention the Florists' Exchange when writing.

Beautiful New Pink Rose
"Aurora"

See announcement and full description in Florists' Exchange, Dec. 8 issue.
PAUL NIEHOFF, Lehighton, Pa.



PLANT FOR NAME.—I enclose portion of a greenhouse shrub that is in flower at the present time. It grows about two feet high. Can you tell me the name of the same?
New York. J. W.

—The greenhouse shrub sent for name is *Rhynchospermum jasmuinoides* (sometimes called *Trachelospermum*)

Sweet Peas for Memorial Day.

(50) When should sweet peas be sown outdoors to be in full bloom for Memorial Day? What varieties, in all colors, should be sown?

MEMORIAL DAY.

—We think it will be quite impossible to have sweet peas in bloom outdoors for Memorial Day, as to attain that object one would have to sow the seed early in March, and then have fine weather from that time right along. For a list of good varieties, consult some seedman's catalogue.

Sterilizing Soil for Violets.

(51) Is the sterilization of soil by steam practiced by the best violet growers and what is the effect upon the growth of the plants and upon diseases that are communicated to the violet through the soil—so-called root disease, etc.?
Wash. H. E. S.

—The sterilization of soil is not practiced to any extent by violet growers so far as we know. Perhaps some violet grower who has sterilized his soil will kindly supply the desired information.

Bulbous Flowers for Easter.

(52) I have still outdoors Dutch Roman hyacinths and tulips. When should they be brought in? What temperature and treatment will they require to be in for Easter?
New Jersey. INQUIRER.

—The bulbs mentioned should be brought in at once and given a temperature of about 50 degrees at night for the first few days, and should also be shaded from direct sunlight. In a few days the shade can be removed and the plants may be given a few degrees warmer temperature through the night. This will bring them in in nice time for Easter delivery.

Adding Ammonia to Manure.

(53) Kindly inform me whether 20 per cent. ammonia added to liquid manure is advantageous for Easter lilies and spiraea. I have used it and find that it turns the leaves yellow, and then they dry up.
Pa. L. K.

—It is very unwise to use ammonia with liquid manure, as one does not know the exact portion of the different ingredients of plant food con-

DREER'S SPECIAL OFFER of Decorative Plants for Easter

KENTIA FORSTERIANA.		
6-inch pots, 6 leaves, 24 to 28 inches high.....		\$1.00
6-inch pots, 6 leaves, 23 to 30 inches high.....		1.25
6-inch pots, 6 leaves, 20 to 32 inches high.....		1.50
7-inch pots, 6 leaves, 24 to 36 inches high.....		2.00
7-inch pots, 6 to 7 leaves, 36 to 40 inches high.....		2.50
9-inch pots, 6 to 7 leaves, 46 to 48 inches high.....		3.50
10-inch tubs, 6 to 7 leaves, 8½ to 9 feet high.....		15.00
KENTIA BELMOREANA.		
6-inch pots, 6 leaves, 20 to 24 inches high.....		1.00
6-inch pots, 6 leaves, 24 to 26 inches high.....		1.25
6-inch pots, 6 to 7 leaves, 26 to 28 inches high.....		1.50
7-inch pots, 6 to 7 leaves, 30 to 32 inches high.....		2.00
7-inch pots, 6 to 7 leaves, 34 to 36 inches high.....		2.50
9-inch tubs, 6 to 7 leaves, 46 to 48 inches high.....		7.50
KENTIA FORSTERIANA—MADE-UP-PLANTS.		
12-inch tubs, 4 plants in a tub, 6½ to 7 feet high.....		15.00
LATANIA BORBONICA.		
8-inch pots, 6 to 7 leaves, 20 inches high.....		1.00
PHOENIX ROEBELENI.		
8-inch pots, 18 inches high. Rare and beautiful.....		3.50
PHOENIX CANARIENSIS.		
2½ feet high in small tubs.....		2.00
3½ feet high in small tubs.....		3.50
4 to 4½ feet high in small tubs.....		5.00
4½ to 5 feet high in small tubs.....		6.00
PYRAMID-SHAPED BOX-WOOD. In Neat Green Tubs.		
30 to 36 inches high, 15 inches in diam. at base.....		2.00
40 to 42 inches high, 16 to 18 inches in diam. at base.....		2.50
48 to 50 inches high, 18 to 20 inches in diam. at base.....		4.00
STANDARD OR TREE-SHAPED BOX. In Neat Green Tubs.		
Stems 20 to 24 inches high, crowns 12 to 14 inches in diam.		1.25
Stems 20 to 24 inches high, crowns 14 to 16 inches in diam.		1.50
Stems 22 to 24 inches high, crowns 22 to 24 inches in diam.		3.50
BAY TREES, PYRAMIDS AND STANDARDS.		
A full line of sizes. For description and price, see our current wholesale list.		



Phoenix Roebelenii

HENRY A. DREER

714 Chestnut Street,

PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

tained in the liquid manure. In the future we would leave out the ammonia altogether, and by sticking to either well-rotted barnyard manure to mix with the soil or to liquid made from barnyard manure there will be no danger of spoiling the plants in any way.

Grafted Roses

We offer this year the following assortment: **Bride, Bridesmaid, Bon Silene, Etoile de France, Franz Deegen, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Mme. Abel Chatenay, Mme. Caroline Testout, Mme. Hosts, Mrs. Pierpont Morgan, Maman Cochet, Marshal Niel, Perle Des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.**

The above grafted from 2½ inch pots \$15.00 per 100; \$120.00 per 1,000 for A. No. 1 Stock; nothing else will be sent out. On their own roots, from 2½ inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.

AMERICAN BEAUTY

On own roots, from 2½ inch pots, \$3.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

OUR GUARANTEE GOES WITH EVERY PLANT.

A. N. PIERSON, Cromwell, Conn.

FOR EASTER 1907 Oranges, perfect fruited and ripe, \$1.00, \$1.25 each. Large plants, \$5.00 each. Fruit, per pair \$5c. 60c., 75c., \$1.00 each. Flats, \$2.00 and \$2.50 each, all colors. **Dorothy Perkins, Rambler, (pink) Buhae, \$2.00 to \$5.00; Baskets, \$3.00 to \$10.00; Horsaehoe, \$5.00 to \$7.00; Crowns, \$5.00 to \$15.00; Orans, \$10.00 and up. Wreaths, wheelbarrow, chairs, etc. Genistas, small, \$3.00 to \$4.00 per doz. Buhae, \$1.00, \$1.50, \$2.00, \$2.50 and \$5.00. 8 Standards at \$3.00. Boronia Elatior, \$12.00 to \$18.00 per doz., Pink Bell.**

ANTON SCHULTZ

19th Street and 4th Ave., College Point, N. Y. Mention the Florists' Exchange when writing.

AZALEAS FOR EASTER

Now is the time to get Azaleas. Our plants are shapely and well budded. We offer the following varieties:

Mme. Van der Cruyssen, Deutsche Perle, Mme. C. Van Langenhove, Vervaeana, Empress of India, Bernhard Andrea Alba, Helen Thielman, and Simon Mardner.

A fair proportion only of Mme. Van der Cruyssen and white sorts supplied with each order.

Prices (f. o. b. New York). 10 to 12 inch heads, \$6.00 per doz., \$45.00 per 100; 12 to 14 inch heads, \$7.00 per doz., \$55.00 per 100; 14 to 16 inch heads, \$10.00 per doz., \$75.00 per 100.

Peter Henderson & Co., 35 & 37 CORTLANDT ST. NEW YORK

Rooted Cuttings of ROSES

Riehmood.....	per 100, \$1.50	per 1000, \$12.50
Kaiserin.....	" 2.50	" 20.00
Perle.....	" 2.50	" 20.00
Bride.....	" 1.50	" 12.50
Bridesmaid.....	" 1.50	" 12.50
Chatenay.....	" 1.50	" 12.50

Rooted Cuttings of CARNATIONS

Enchantress.....	per 100, \$2.50	per 1000, \$25.00
Lady Bountiful.....	" 2.50	" 25.00
Lawsan.....	" 1.50	" 15.00
Gov. Wolcott.....	" 1.50	" 15.00
Prosperity.....	" 2.00	" 15.00
Harlowden.....	" 2.00	" 15.00

OUR CUTTINGS ARE ALL STRONG, HEALTHY AND WELL ROOTED. We sell 500 at 1000 rate. All cuttings shipped from HINSDALE, ILLINOIS.

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Office, 76 Wabash Ave., Chicago

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GERANIUMS

All rooted cuttings booked for February.

PETER BROWN, Lancaster, Pa.

ROOTED CUTTINGS Prepared per 100. *Ageratum Alternanthera*, best red and yellow, 60c. *Hardy Pinka*, Abbottford, red 75c. *Heliotropia*, blue, 85c. **SHIPPENSBURG FLORAL CO., SHIPPENSBURG, PA.**

GERANIUMS

Rooted in sand, then grown in pots a month. Sent free of Soil.

Dbl. Grant, Buchner, Polterine, Beard, Perkins, Vland, Nutt, Postle, La Croix and Mixed. \$1.50 per 100. Geraniums and Coleus are sold up to Mar. 15th.

COLEUS

Versich, G. Bedder, and brightest. Fancy mixed, strong, 60c. per 100. Giant, many kinds, finest of all Coleus, 80c. per 100.

GLADIOLI (Groot's) Hybrids, blooming size, 50c. per 100. **SAGE**, Ball of Fire, best in every way, 4c. 50c. per 100.

DANIEL K. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

Easter Plants

Cineraria Hybrid Grandiflora. Extra fine in bud and in bloom from 5 in. pots \$2.50 per doz., \$20.00 per 100; from 4 in. pots in bud \$10.00 per 100; from 2½ in. pots \$2.50 per 100.

Primula Obconica Grandiflora. The celebrated Ranon-dorfer and Laitmans Hybrids in bud and bloom from 5 in. pot \$2.50 per doz., \$20.00 p 100.

Primula Chinesis. Chinese Primroses, in bud and bloom from 4 in. pots \$1.50 per doz., \$10.00 per 100.

Cyclamen Splendens Giganteum Hybrids. This strain has no equal or better, in five colors including the fringed varieties twice transplanted from flats \$3.00 per 100, \$25.00 per 1000.

Asparagus Plumosus Nanus. From 2½ in. pots \$2.50 from 3 in. \$4.00; from 3½ in. pots \$8.00 per 100.

Cannes. Pres. McKinley, Queen Charlotte, Chicago, Papa, Florence Vaughan, Alphonse Bouvier, J. D. Cabos, fine tubers, \$17.50 per 1000, \$2.00 per 100.

PAUL MADER,

East Stroudsburg, Pa.

FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsman and the Trade in General

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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



C. F. W. Gentemann.

C. F. William Gentemann, the well-known florist, of Eleventh and Payson avenue, Quincy, Ill., passed away Saturday afternoon, February 16, at Miami, Fla., where for the past three years he spent the Winter. He was afflicted with rheumatism, which became aggravated during the Winter months. By going South until Spring and spending the Summer there he kept in good health. He left Quincy November 1 last Fall and was planning for his return when his death came.

Mr. Gentemann was born in Germany, March 15, 1837. He went to Quincy at the age of fifteen years and later, being a trained florist, secured a position as such with Governor John Wood. A few years later he went into business for himself. He was very successful and five years ago retired, turning the business over to his sons, Herman and Philip and his daughter, Miss Minnie. Besides these three he leaves his widow, two sons, two daughters and three sisters. Mr. Gentemann was held in the highest regard by all who knew him.

Ferdinand Tschupp.

Ferdinand Tschupp, a well known florist of North Bergen, N. J., died at his home on Sunday, February 24, at the age of 66 years.

Mr. Tschupp was well known in the trade as a grower of ferns and General Jacqueminot roses, disposing of his output direct to the retailers, usually. He had been ill for several weeks before his death and the end was not unexpected.

Funeral services were held on Thursday, February 28, interment being in Weehawken Cemetery, a large attendance from various clubs and societies, of which deceased was a member, being present at the obsequies.

Rose Night at Philadelphia.

At the meeting of the Florists' Club of Philadelphia to be held Tuesday evening, March 5, 1907 P. J. Lynch, secretary and treasurer of the Dinee & Conard Company, West Grove, Pa., has kindly consented to deliver a paper on "Rose Plants by Mail," and in this connection it was decided to invite novelties among roses to be exhibited the same evening. All those who have novelties among roses will kindly ship same in care of David Rust, Horticultural Hall, Broad street, above Spruce, Philadelphia, Pa., sufficiently early so that the exhibits may reach destination in ample time to be examined by the members and friends of the club.

EDWIN LONSDALE, Secretary.

OUR READERS' VIEWS

Reflections on Job's Reflections.

Editor Florists' Exchange:

After so long a period of rest it was only natural to suppose that when Job reappeared to adorn the pages of The Florists' Exchange it would be with renewed vigor and a full consciousness of what might under the circumstances be reasonably expected from him. That the matter as well as the form of Job's polished reflections lend color to the suspicion that his effusions are the result as much of inspiration as of an inborn desire to bring about horticultural regularity, may only be the envious thoughts of the poor victims of his pitiless lash. And that being so (if it is so), the more credit is due Job for his unaided accomplishment of a task as arduous in execution as it is excellent in its finished state. If there exists even the most remote possibility of further improvement in the literary efforts of Job, we can only hope that they will be shown in a still closer attention to personal details and a more exclusive use of unadulterated billingsgate in his application of original as well as borrowed epithets; because only along these lines will any deviation from his already well-marked course be conducive to the furtherance of the interests of Job himself and the numberless readers whose views he expresses so delicately yet so vigorously. To some people it may appear superfluous to thus enlarge upon the already well-known reputation of the author of "Reflections on Current Topics," but an acknowledgment of sincere gratitude and appreciation is but a cheap price (and it ought to be paid ungrudgingly) for the intellectual feast so cheerfully served by one owing us nothing unless it be a grudge, and the mere suggestion of such a thought—banish it, even John Birnie. Job is above yielding to a resort to revenge, even in the event of the existence of what might to some minds be justification.

F. D.

Mixing Carnation Pollen.

Editor Florists' Exchange:

I have frequently used two to four different varieties of pollen upon the same flower. I did not mix the pollen, but where I used two varieties I usually fertilized one pistil only with a variety, using the other variety on the other pistil. Again where I use four varieties of pollen I will fertilize the upper half of one pistil with one variety and the lower half with another variety, and use the two remaining varieties of pollen in the same way upon the other pistil. Now, I do this only where I have a limited number of flowers upon a seedling plant and wish to make quite a large number of crosses. It has this disadvantage that in the pedigree of any seedling which may be produced from this polygamous hybridizing you will not be certain as to which variety is the pollen parent of your seedling.

Again, as to whether any two varieties of pollen could possibly influence one particular seed at the same time I would say that this might be very difficult to determine. It may be possible that the pistil on some varieties of flowers may be sufficiently large and coarse and the tubes which lead from the hair-like growths on the pistil down through the pistil and connect with the embryonic seed might be sufficiently large to allow of two grains of pollen germinating and seeding the mycelum-like rootlets down through the tubes, fertilizing the embryo at one and the same time; but this is hardly likely. What might occur is this: I am quite certain that the pollen grain upon the point of one of the tubes would fertilize the seed connected with that particular tube. Consequently different grains of pollen from different varieties, each resting upon its own individual tube, would fertilize the seed connected with that tube so that it would be decidedly possible for different individual seed growing in the same seed pod to be fertilized by several different varieties of pollen.

Now, as to whether any plant grown from any one seed produced in a pod fertilized in that way, would show characteristics of the several different varieties of pollen used, I am inclined to think that it might be possible. In order to consider this proposition it will be necessary for us to review some of the phenomena connected with the reproduction of the animal species. It is a well known fact in the reproduction of the human species that where a woman has given birth to children by a first husband and becomes a widow and marries again, the earlier children of the second husband generally show traits and characteristics undoubtedly inherited from the first husband, and in many instances they will resemble the first husband fully as strongly as the second, thus proving that characteristics common to both husbands have been blended in the offspring by the second husband through the impression which has been left upon the ova of the mother through her bearing children by the first husband. Again, in the case of breeding blooded trotting horses, the breeders of trotting horses or of any hooded stock are particularly careful not to allow their thorough blood mares to become foaled by any mongrel stock, for the simple reason that once a thoroughbred has borne a mongrel, she will never produce thoroughbreds thereafter, no matter if sired with thoroughbreds. Now, if characteristics can be blended in offspring produced from separate and distinct conceptions taking place at widely varying

times, could not characteristics be blended in the ovule contained in a carnation pod where a number of seeds were produced each having been separately and distinctly fertilized at the same time by separate varieties of pollen? While I have no proof or data that would enable me to demonstrate that this could be a possibility, I am not yet prepared to deny that it could be accomplished.

C. W. WARD.

Queens, N. Y.

Editor Florists' Exchange:

To my knowledge and experience, when pollen of two or more varieties is used in pollinating a flower, no mixture is effected, and can not have any influence on the progeny, as only one of the varieties from which the pollen is used can be the pollen parent. Pollen grains are individual, the same as the grains of seed grown from that flower. In our work we are very careful not to get any pollen mixed, as we wish to preserve a true record. In mixing the pollen a true record is certainly lost.

Lafayette, Ind.

FRED. DORNER, SR.

CLUB AND SOCIETY DOINGS.

American Rose Society.

The Annual Proceedings and Bulletin for 1906 has been distributed by Secretary Hammond. It is a document of some 48 pages and contains a report of last year's Boston meeting and exhibition, with the exception of the special essays prepared for that occasion, reference being given as to where those interested may find these papers published. A chapter on "The Rose from 'A Woman's Hardy Garden'" is also included, as well as a copy of the constitution and by-laws of the society, a brief record of its organization, lists of officers, life and annual members, etc. A portrait of President Robert Simpson forms a frontispiece, and several illustrations appear throughout the pages of the pamphlet.

The society seems to be working along right lines in the matter of distributing its literature; and with proper support will be in a better position than it now is to furnish reading matter that will be of service and interest both to the professional and amateur rose grower. The present publication reflects much credit on the ability of Secretary Hammond, as well as testifying to his enthusiasm in the work of the organization.

The next annual meeting and exhibition will be held at Washington, D. C., March 13 to 15, 1907, inclusive.

Illinois State Florists' Association.

About one hundred representatives of the craft and its allied trades and professions, nearly all members of the organization, met at Bloomington, Ill., on Tuesday and Wednesday of last week on the occasion of the second annual convention of the Illinois State Florists' Association, which had its initial meeting at Peoria on March 9 last year. The delegations from the various sections of the State were thoroughly representative of the trade; the local members of the profession were in every detail equal to the occasion, and whenever opportunity presented itself successfully ministered to the pleasure, comfort and general wellbeing of the visitors.

The gathering was called to order on Tuesday afternoon by President J. F. Ammann of Edwardsville and the address of welcome made by H. H. Green, President of the Business Men's Association, who heartily greeted the visitors on behalf of the city. A pleasant response was delivered by W. N. Rudd.

In the president's address he alluded to the healthy condition of the organization as it approached the close of the first year of its existence, to the purposes for which it was created, to what has been done and what remains to be accomplished and in closing, paid a deserved and touching tribute to the memory of the late James Hartsborne, one of the founders and leading spirits of the association and the presiding officer at the first meeting last year.

The reports of the secretary and the treasurer were read and approved and the following essays were delivered: Willis N. Rudd, Mt. Greenwood, "Carnations at the Toronto Show;" A. C. Beal, University of Illinois, "The Florists and the Experiment Station;" H. Hasselbring, University of Chicago, "The Effect of Light and Shade on Plants;" Professor J. C. Blair, Champaign, "The Development of Floriculture in Illinois."

Springfield, the State Capital, was chosen as the meeting place for 1908; and the following officers were elected: President, Albert T. Hey, Springfield; vice-presidents, J. F. Ammann, Edwardsville; Wilbur Gullett, Lincoln; Charles Loveridge, Peoria; William Hehl, Jacksonville; August Poehlmann, Morton Grove; H. Hasselbring, Chicago; A. S. Halstead, Belleville; secretary, A. C. Beal, Champaign; treasurer, George A. Kuhl, Pekin.

The Bloomington Florists' Club tendered a banquet at the Illinois Hotel at 9:30 o'clock on the opening evening to the members of the association, which proved to be one of the brilliant features of the gathering. The menu embraced quite an elaborate list of epicurean delights and the post-prandial exercises with W. N. Rudd in one of his hap-

plest moods as toastmaster, included the following toasts and responses, "The State Society and its Object," Professor A. C. Beal; "Our Hoosier Neighbors," J. D. Carmody; "The S. A. F. and Florists' Clubs," P. J. Hauswirth; "The Sunny Side of the Florists' Business," W. J. Gullett; "Why Isn't a Florist as Good as Any Other Man?" H. Hasselbring. George Asmus, J. F. Ammann, Professor J. C. Blair and several others aided to the enjoyment of the occasion with pertinent remarks on divers subjects pertaining to the interests of the assemblage.

The success of this convention will undoubtedly stimulate the interest in the association and its future importance and stability seem assured.

The Exhibition.

The trade exhibit was very creditable and was on the whole considerably more extensive and comprehensive than was generally anticipated. The exhibition hall was open to the public from 6 to 9 p. m., and was well filled with interested spectators. I. L. Pillsbury, P. J. Hauswirth, and C. Loveridge acted as judges, and reported as follows:

We find the display in general very good and we wish to commend all the exhibitors to your society. We wish to make special mention of the following: Aristocrat, White Perfection, and Red Riding Hood, by the Chicago Carnation Company, all of which were very fine; red seedling Number 20 by Bassett & Washburn, good size and color; Killarney and Morton Grove roses, the latter a sport of Mme. Abel Chateau, by Pochlmann Brothers Company, both of fine color and showed well; Governor Deneen carnation, a royal purple of large size, by A. C. Brown; Whitmani ferns, splendidly grown specimens, by George A. Kuhl.

And we wish to mention the following: Chicago Carnation Company, Joliet, six vases of carnations, two of Aristocrat, Red Riding Hood, White Perfection, Enchantress and Melody;

Bassett & Washburn, Chicago, two vases of red seedling carnation Number 20.

W. H. Gullett & Sons, Lincoln, two vases, one of Bride and one of Bridesmaid roses, of very high quality; three vases of carnations.

Pochlmann Brothers Company, Chicago, vases of Richmond, Killarney, Bride, Bridesmaid, Morton Grove, and Uncle John roses all very good.

Peter Reinberg, Chicago, vases of Richmond, Bride, Bridesmaid, and Uncle John roses, a good display.

Swan Peterson, Gibson City, Ill., a fine vase of Nelson Fisher, vase of white seedling Number 127 and dark crimson Number 103.

John E. Haines, Bethlehem, Pa., vases of Imperial and Pink Imperial; did not show to good advantage as they arrived in bad shape.

Erant & Noe Floral Company, Chicago, five vases of carnations.

Henry Baer, Peoria, Ill., vases of Lady Bountiful, Robert Craig, Enchantress, Mrs. M. A. Patten carnations, and vase of mignonette, all of which showed to good advantage.

W. C. Hill Floral Company, Streator, Ill., a vase of carnation Melody.

Baur & Smith, Indianapolis, Ind., vase of May, a light pink, which showed well.

W. N. Rike, Le Roy, Ill., a vase of Enchantress.

A. C. Brown, Springfield, Ill., vases of carnation Governor Deneen, seedling pink Number 202, Mrs. Lawson, Nelson Fisher, and three vases of mixed seedlings.

J. W. Schrader, Mattoon, Ill., vases of Enchantress and Rose-pink Enchantress.

George A. Kuhl, Pekin, Ill., a display of well-grown plants, including cyclamen, Primula obconica, Whitmani, Boston, and other ferns and begonias, all of which showed good cultivation.

Vaughan's Seed Store, Chicago, a general line of bulbs, Whitmani ferns, h. p. roses, fern balls, dracaenas, etc.

Davis Brothers, Morrison, Ill., Whitmani fern.

A. L. Randall Company, Chicago, a fine and large display of florists' supplies, including baskets, chiffons, ribbons, imported novelties in vases and baskets, boxes, wheat sheaves, etc.

B. P. Winterson Company, Chicago, display of florists' supplies.

Bombayreed Manufacturing Company, Columbia, S. C., display of Bombayreed jardiniere.

Advance Company, Richmond, Ind., ventilating apparatus for greenhouses.

A. Dietsch Company, Chicago, gutters and gutter supports with iron posts.

Ionia Pottery Company, Ionia, Mich., flower pots, lawn vases, hanging baskets, etc.

Geo. Kellar & Son, Chicago, flower pots, fern pans, hanging baskets.

G. M. Garland Company, Desplaines, Ill., iron gutters for greenhouses.

W. K. W.



PAUL ABELE,
Secretary Society of Southern Florists.

tist. The efforts of these entertainers throughout the evening were highly appreciated and many encores were demanded from them.

About fifty of the club members participated in the proceedings, and the dinner committee was highly complimented upon the efficient manner in which they had brought this annual gathering to such a successful culmination.

When the cigars and coffee had been reached Toastmaster Patrick O'Mara arose and addressed the assemblage in his usual sparkling manner. He referred to the aesthetic side of the florist's business, and said that in a gathering like this there always had to be a certain amount of hot air emitted. There was no one in the business but what had periods of thought and moments when he thinks, or when he thinks he thinks. The divine spark of feeling and a love for nature, he said, was highly developed in members of our trade, and they yield to no man in aestheticism. The speaker also referred briefly to our national society and the New York Florists' Club, and drew attention to the fact that there has never been a man better fitted to be at the head of our club than the present president, Charles H. Totty. (Applause.) He called upon that gentleman to respond to the toast: "The New York Florists' Club."

Mr. Totty replied briefly and made a reference to the good work that had been done along horticultural lines recently by pricking the bubble of Burbankism.

J. C. Vaughan was called upon to respond for the S. A. F. O. H., and made an urgent plea for the coming national show to be held under the auspices of

that society. Mr. Vaughan said, in part, that unity and organization must be the keynote if success is to be achieved. He asked that every firm or individual that was in any way connected with the business be present, and also exhibit at this show. He referred to the great growth that had been made in our business during the last twenty years, and particularly to the development along cut flower lines during that period. Less than twenty years ago, he said, one of our present largest growers was a market gardener, was digging potatoes and selling them for 50c. per bushel; to-day that gentleman is worth three-quarters of a million dollars, all of which has been made in the cut flower business within the last twenty years. We should be interested in all of the many sides of horticulture, and the present time really demands such a show as has been planned by the national organization. Mr. Vaughan also referred to the fact that the newspapers were now glad to get horticultural matter and use it in their columns. This feature is one that promotes our interests and gives us a needed opportunity, as every branch of the business was helped materially by the publication of horticultural matter in the daily press. The speaker hoped that every one would be so impressed by the importance of this national show that they would be determined to grow something for it, to exhibit there, and also be present in person.

Harry Turner, superintendent of Castle Gould, L. I., replied to the toast "State Development," following which the guest of the evening, Senator F. Minturn, spoke on agriculture and her fairest daughter, horticulture. The senator is an accomplished orator and his words were listened to with the greatest interest. Referring to the Jersey agriculturists, he said they always knew a good thing when they saw it, and that was the reason he was present, though he could not see why or what relevancy and consistency there was in asking a lawyer to come and talk about flowers. The senator gave a brief but glowing description of the mightiness of other nations, particularly the Romans, and showed during his remarks that that nation began to fail just as soon as the reins of government were taken hold of by those the farthest away from the land—that is, the dwellers in cities. He said that it was the farmers' sons and daughters that the prosperity, the success and the continuation of self-government must be relied upon. All the greatest men have come from the country. The environments that surround the farmer, the agriculturist and the horticulturist, are necessary for the bringing out of great characters, and whenever a country has been subdued by some other nation and has been made to grovel at the feet of some conqueror, it has only been because the crop of men had failed. The speaker was cheered immensely at the close of his remarks, after which W. F. Sheridan was called upon to respond to the toast "Our Night," which he did in a most acceptable manner.

J. E. Lager responded to the toast "The Explorer," recounting some of his thrilling adventures while collecting orchids in the mountain ranges of South America.

John Birnie responded to the toast "Exhibitions as Educators." J. A. Shaw spoke for "The Ladies," and S. S. Butterfield for the "Horticultural Press," by which time it was past 1 o'clock, Sunday morning, and the 1907 dinner of the New York Florists' Club passed into history.

THE ST. LOUIS HORTICULTURAL SOCIETY.—

Tuesday afternoon, February 19, the executive committee of this society held its regular monthly meeting at the Hamilton Hotel with all members present, except Theo. Miller and F. H. Meinhardt, both having for excuse that their wives had the grip. Nineteen new members were enrolled. The Spring flower show committee made report and after a few minor changes the rules and premium schedule were approved and adopted. The exhibition will be held in the Masonic Temple Hall, where a successful show was held some years back. In addition to the regular exhibits some of the most prominent florists will make up booths and exhibit attractions in floral art. Professor Dillwyn M. Hazlett has been engaged to give illustrated lectures, which fact alone will attract immense attention. Moreover, the committee is still working hard on the finer points of the show, which will be given by and for the upper set, and will present something worthy of the attention of those who are invited as well as being creditable to the society, under whose auspices it is held. Entries or inquiries for information should be addressed to the undersigned.

OTTO G. KOENIG, Secretary.

THE ELBERON (N. J.) HORTICULTURAL SOCIETY

held its regular meeting on February 18 with President Robertson in the chair. James Kennedy, superintendent for G. W. Young, Esq., read a very interesting and instructive paper on "Outdoor Roses." The exhibition table was covered with cut flowers, and it was conceded by all that it was the finest exhibit that has yet been staged at the meeting. The exhibitors were: P. Murray, who scored highest with a vase of Eresia Purity; W. D. Robertson, a vase of gardenias; A. Bauer, Beauty of Nice stocks, and carnation Victory; A. Greib, a bouquet of violet Princess of Wales; H. Wood, a vase of callas; F. Dettlinger, a bouquet of California violet; E. Petzel, a vase of white carnations; W. Swain, a collection of cut flowers, and J. Kennedy, a vase of tulips, Yellow Pottebakker; W. Kennedy, of Redhank, showed a vase of seedling carnations.



ALBERT T. HEY,
Pres.-Elect Ill. State Florists' Assn.

NEW YORK FLORISTS' CLUB DINNER.—The annual dinner of The New York Florists' Club took place on Saturday evening last, February 23, in the St. Denis Hotel, corner of Eleventh street and Broadway. The committee of arrangements was composed of W. F. Sheridan, chairman; John Birnie and John Scott. The management of the St. Denis Hotel provided a most agreeable menu, and the dinner, from the first course to the end, passed off very smoothly, every one who sat down being more than satisfied with the many good things placed before them. The tables were decorated profusely with carnations and narcissus, and a boutonniere of Dendrobium nobilis was laid at each plate. A beautiful vase of Alma Ward carnations, donated by the Cottage Gardens Company, Queens, N. Y., graced the table at which the officers sat, and there were also vases of carnation, Welcome from Dailedouze Brothers, Flatbush, N. Y., and carnation Winsor from F. R. Pierson Company, Tarrytown, N. Y., together with Narcissus Princeps from Secretary John Young. The orchid boutonnières from presented by Lager & Hurrell of Summit, N. J.

The committee also provided a first-class entertainment, the musical part of which was under the direction of Professor Charles Hirst, and included instrumental music, a good vocalist and a monologue ar-

CARNATIONS

Carnation Culture in the South.

(Paper read by W. B. Patterson, Jr., Montgomery, Ala., before the Society of Southern Florists at its New Orleans meeting.)

I have been asked to write a paper on "Carnation Culture in the South." It strikes me that this is quite a broad subject, for we have a very large area when we take in what is known as "the South." In fact, I am sure there are just as wide differences as to climate, soil, etc., as there are between the New England and the Western States. My knowledge being limited to my own and adjoining states, I will endeavor to give my personal experience and those facts which I have picked up from neighboring growers, rather than to attempt a broader scope. I believe that we growers in the South have a far more difficult problem in growing carnations than our Northern brethren. Our long hot Summers and lack of good soil are our most serious handicaps.

Treatment of Cuttings.

I will now endeavor to give you my personal experience step by step. In selecting the cuttings I am always careful to take them from the healthiest and strongest plants, using side cuttings from the blooming stem always, except when we wish to work up the stock of a certain variety, then we use top cuttings also. But we have found the side cuttings root better and make the strongest and best shaped plants.

We use fine, clean sand. It does not make very much difference about the sand, just so it is clean and entirely free from decayed matter of any kind.

We use a little bottom heat, about 56 to 58 degrees, with a top or outside temperature of 48 to 50 degrees. With too much bottom heat the vitality of the plant is injured. Our first effort six years ago to root carnations was a total failure, due entirely to too little water. For the first two weeks you cannot give the cuttings too much water, then afterward, very lightly, until after three weeks none at all. In thirty days most varieties will be rooted well. If you can so arrange it that the cuttings can get full sun after two weeks, then they will make better stock. The more light the better after the cuttings are struck. We transplant them into a bench in about two-and-one-half inches of soil; planting them one-and-one-half inches apart in the row, the rows about two-and-a-half inches apart. We find this method better than pots, for then the cuttings are not liable to become stunted or pot-bound and do not dry as when they are planted in pots. When the time comes to plant them in the field then we cut them out with a flat trowel.

Field Culture.

We always try to plant in the field the first good weather we get after March 25, believing in an early start and early planting in the houses afterward. In our locality this date is not too early, for we never have cold weather enough to injure the plants after March 25. Probably this date would be somewhat early for those north of our latitude. After getting them planted we keep the cultivator and hoes going once or twice a week; in fact, as often as the weather will permit. We cultivate shallow and often, keeping a light loose layer of soil on top all the time. By the second week in July we are ready to plant indoors again. But before taking up this, I will take up the soil.

Soil.

Here we have our most vexing problem. We have been using just ordinary red clay subsoil mixed with manure in the proportion of three parts clay to one part manure. This soil is made up one year before using. In fact, this soil is the only kind used by the majority of growers in Alabama, Georgia and Mississippi. The top soil in most of these localities is too light and sandy.

We have just this year invested in thirty-two acres of an old pasture. This soil is what is known as black prairie soil, and this is the best farming soil in the State. It can be found in all degrees of stiffness, to a sandy loam. It closely resembles the prairie soil of the Western States, and is found in limited areas in Georgia, Alabama and Mississippi, the belt of it in Alabama running just south of Montgomery.

Removing from Field.

We use about four to five inches of soil on benches and give the plants a distance of ten to twelve inches, depending on the size of plant and variety planted. We have an experienced man in the field to dig the plants, being careful to get as many roots as possible and to injure as few as possible. Just before planting we give the soil a light dressing of bone meal. We are careful not to give too much, for I believe too much of it retards the early taking hold of the soil by the plants. After planting, being careful not to plant too deep, we give the plants a thorough soaking. When the soil becomes dry enough, we keep one half inch of the top scratched and loose so that the air is admitted freely to the soil. We are careful not to give the plants too much water to start with, but keep them rather on the dry side for the first month or six weeks. As the plants take a firmer hold they require more water.

Staking.

After the plants have begun to grow nicely then we stake them, getting the lanky growing varieties staked first. We use the Model carnation support, but believe a combination of this support and string and wire is just as good, using the rings to support the body of the plant and the wire and string to support the shoots.

After Treatment.

We always spray our carnations on bright sunny days, trying to get as much force as possible, and using judgment as to varieties more subject to rust, being sure that the day will be clear. We are always able to keep down the red spider and have no trouble with the rust, except where some varieties have contracted it before housing, especially during a wet Summer which we sometimes have. A solution of this, I believe, is early housing or indoor culture, about which I will have more to say a little later.

The first feeding is given about the middle of November or the first of December, in the form of one-half inch of well-decayed cow manure, with light dressing of hard wood ashes and bone meal. By the first of January the roots are all through this mulch, then we begin feeding liquid manure, using it weak at the first, giving three or four applications and making it a little stronger each watering. We give the plants a watering with this once a week. We use all wood ashes and a little bone



Single Bloom of Carnation Winsome

meal about twice a month, mixing it with a little rotted manure, affording it to the plants in the form of a light dressing, letting the water wash it into the soil. Toward the first of April, when the sun gets hotter and the soil begins to crack lightly, especially along the edges of the benches, we give them another mulch, a little heavier than the one applied in the early Winter.

Insects.

Our most dangerous enemy is the thrips, in fact it is very hard to get entirely rid of them, for you can find them on every plant out of doors during the Summer. Our best remedy is fumigating with tobacco dust and red pepper. Spraying with Tobakine with a fine spray pump is also a very effective remedy. We find the latter a little more expensive than tobacco dust, but I believe it has a quicker effect in that it reaches the insects quicker and more readily than the smoke. We keep a close lookout for this insect, for it soon ruins the plants. In fact, after the plants have taken good hold of the soil, I think it a good plan to spray them with Tobakine once a week, even if we do not see signs of thrips present, or fumigate with tobacco and red pepper as soon as the houses are closed in.

The aphid is very easily handled; we get rid of all of them in trying to keep down thrips. With careful spraying we never have much trouble with red spider.

Diseases.

The most dreaded and the only disease that has given us any trouble is stem rot. This was due mostly in planting the carnations in the same field more than one year in succession. I think it a good plan never to plant carnations in the same plot of ground the succeeding year; carrying this plan out

strictly, and being sure that no kindred disease, as wilt or stem rot in other plants, has been in the field we intend to plant, I am sure this disease will give us no trouble. Sometimes when the Summers are very rainy we usually have trouble with rust; but by housing early in July this is usually avoided, for we generally have this rainy spell in August.

Indoor Culture Entirely.

I would like to say here a little about indoor culture entirely. From the little experience that I have had in this line, and what I have seen from greenhouses in adjoining cities, I am sure it can be made a success. Mrs. Lawson, Enchantress and kindred types have already proved adaptable to indoor culture and I think with more experience as to the care and growing of the plants indoors it will supplant field culture, and I feel sure that I will be able to say more about this next year.

Varieties.

The following are the varieties grown by us. For white our mainstays are Boston Market and White Cloud. We also grow Governor Wolcott, Moonlight, Fred. Burki, White Perfection, Lieutenant Peary and the Queen. White Perfection is undoubtedly the best commercial white to date.

For pink we grow mostly Mrs. E. A. Nelson and Mrs. Lawson. We also grow Mrs. Frances Joost, Nelson Fisher and Helen Goddard in limited numbers. For light pink we grow Enchantress only. What is the use of growing others in this shade when you have Enchantress? We have a rose-pink sport of Enchantress which is a good one; probably the same thing that is on the market elsewhere.

For red we grow Crusader and Cardinal as the best. We also grow Red Lawson and America.

For maroon shades we grow Harlowarden and Glow Worm. The last named I consider better than Harlowarden.

We have invested in some of the newer varieties, namely Winsor, Helen Gould, White Enchantress, Aristocrat, Victory, Red Chief and Beacon, which we cannot say much about until they have had a thorough trial.

I feel very much encouraged that we Southern florists and growers are now able to organize as a body and can get together and talk over our experiences, and I believe that this first convention marks an epoch in our growth. It means that the South is to come forward soon in the introduction of new varieties of carnations, roses and other greenhouse and garden plants, and I believe that in this way we will be able to get varieties specially adapted to our soil and climate, etc.

John Reimels's New Carnations.

WINSOME is a seedling of 1901 and is a cross between Mrs. James Dean and Prosperity. The flowers are of the William Scott shade of pink and somewhat resemble that variety in form, but are much larger, averaging about 3½ inches in diameter. It has a good stem and is a good bloomer all the year round. Toward Spring, flowers can be picked with stems up to 42 inches in length. It blooms late in the Spring and has proven the best Summer flower we have, producing blooms, until thrown out in July, that are fully as large as they are in the Winter, consequently sell for three to four times as much as other varieties that become smaller just as soon as the hot weather comes.

SEEDLING NO. 32 is of a brilliant scarlet color, and is in its fifth year. It is a cross of G. H. Crane and Maude Adams. It is a free bloomer, comparing favorably with Victory in this respect. This seedling is a vigorous grower and is very healthy, having very long, stiff stems. At present we are cutting flowers with stems about 30 inches in length. The blooms average about 3 inches in diameter, and they keep well and have proven good sellers.

JOHN REIMELS.

Woodhaven L. I.

Trumpet Vines.

The best known of the trumpet vines is the native one, Tecoma radicans, and its varieties. There is a variety with a dark crimson flower, and another with a yellow flower, the typical one being considered a red. Formerly the crimson one went under the name of Fortune, but this is now considered a decided mistake. The yellow one is comparatively new and a decided acquisition. It originated in Texas, whether as a sport in cultivation or not, is not stated, but it is a most desirable vine.

Another Tecoma now fairly well known is T. grandiflora, a Chinese species. The flowers are larger than those of the others named and are of an orange-crimson color. It is a more attractive sort than the others and although it has been in cultivation in these parts for over 50 years at least it is still classed as uncommon.

All the above named Tecomas are easily raised from root cuttings, made in Spring, or through the Winter, and set out in rows or in a bed as soon as the season opens. Owing to its scarcity in collections T. grandiflora is often propagated by grafting on roots of T. radicans. They grow well in this way; but in cases of a desire to propagate it from roots care must be taken that the plant is on its own roots.

The evergreen trumpet vine, known as Bignonia capreolata, is a Southern species, hardy at Philadelphia. It can be increased both by cuttings of the half ripened wood or by seeds, and probably also by root cuttings.

J. M.

The Development of Illinois Floriculture.

(Paper read by J. C. Blair, Chief in Horticulture, University of Illinois, before the Illinois State Florists' Association at its Bloomington meeting, February 19, 1907.)

It has been my privilege to speak before other gatherings upon the development of Illinois horticulture and the development of landscape gardening. I turn from these subjects to my present one with great pleasure. Lest I be misinterpreted here, let me explain—I have watched for eleven years the growth of Illinois along general horticultural lines. I have seen spraying and sprayers laughed at by fruit growers throughout the fruit growing section of the state. I have seen clean cultivation and so on most conspicuous by their absence, but I have lived to see not only the conversion of these mockers, but their adoption of the latest devices for orchard treatment. I have seen the Department of Horticulture of the State University grow from one man power to a staff numbering fourteen individuals each equipped by special training for his own particular work. I have seen landscape gardening developing gradually into its rightful prominence, but up to the present time I have not seen just the advance of floricultural interests which I had hoped for—hence my pleasure in meeting with you to-day to discuss the development of this industry.

Floriculture's Drawback.

If it be true that floricultural interests have not gone forward hand in hand with other lines of work it is due in large measure to the fact that our equipment and appropriations have not been sufficient to enable us to go to any length in matters pertaining to floriculture. If you refer to Page 303 of The Florists' Exchange for March 1901, you will find some statements relative to the then existing relations between the experiment stations and the florists' trade. Those reports show that the florists are receiving far too slight assistance when taking into consideration the importance of the industry. Going back a step further then, it is equally true that the fault lies in large measure with the florists themselves in that they have not demanded state appropriations for the carrying on of this work. It is a fact, too, that the florists of Illinois were not so organized that they were in a position to seek specific appropriations until two years ago. With the birth of this organization which is here assembled, in its second annual convention, there was put on foot a movement which, if rightly directed, will perpetuate for all time the leadership of our state in all matters pertaining to floriculture. Of course, I would not belittle the good work which has been done by the several local florists' organizations within the state. All of these are necessary but their work should be co-ordinated with some general organization, preferably the state association which you now have.

Praise for the Association.

Perhaps I may be pardoned for saying that your organization is so new that the novelty of its newness has not yet worn off and that it is hardly to be expected that you would have gotten down to much serious business by this time. I want to say though, that I am delighted not only with the large membership which you have but with the business-like methods with which you are pursuing your work. Certainly, too, the exhibition which you have put before us is a noteworthy one. I only wish that each one of our leading citizens throughout the state could feast their eyes upon the many fine specimens which you are showing. The appropriation which your organization is now asking of the state would then be assured. At least their curiosity would be so aroused that they would seek information with regard to the accomplishments of floriculture not only during the past years of its life but they would be even more eager to learn something of its probable future development.

Floriculture's Progress.

I wish I had the power to adequately convey to the minds of all my hearers or readers just what a wonderful evolution has been taking place in the world of floriculture. If this were done, it would leave no room for question with regard to the future development of the industry and there would be no need to lay the lash on and tell you what is your present duty as an organization. However, I am not going to attempt to tell you anything with regard to the past of Illinois floriculture. At least what I have to say touching this point will be in general terms and that only so far as it will suit my purpose in dealing with what I conceive to be the gist of this paper, namely—a correct interpretation of the present status of Illinois floriculture. When this is done we may fairly and fearlessly speculate as to the future development of the industry.

Where Illinois Stands.

Floriculture as we find it in Illinois to-day concerns itself with two more or less clearly defined branches, commercial floriculture and amateur floriculture, the former flourishing near the larger centers of population and the latter being more or less general over the state. The interests of both commercial and amateur floriculture are large. The cut flower trade of Illinois is probably to-day greater than that of any other state in the Union. In 1900 it ranked second, but its growth since that time has been phenomenal and the authorities in

the Department of Agriculture at Washington are now inclined to place Illinois first in rank. It is very difficult to obtain reliable figures on the extent of the flower-raising industry in the state. In the best figures at our command only the produce of the commercial florists, of course, considered,

glass for different counties, it appears at once that there is considerable range in the returns per square foot. For instance La Salle county reports a return of \$10,470 from 29,250 square feet of glass whereas Logan county reports slightly less, \$10,375 from 70,000 feet of glass; Champaign county reports \$9,776 from 22,200 feet of glass and Ford county \$9,955 from 70,665 feet of glass; Grundy county reports \$8,565 from 29,400 feet of glass; whereas Peoria county reports \$8,122 from 86,509 feet of glass. In fact, the returns from various counties per square foot of glass run from 13 cents or less to nearly \$1, a discrepancy hard to account for.

(To be continued)

What a Southern Florist Can Produce for the Northern Trade.

(Paper read before the Society of Southern Florists' on February 15, 1907, at New Orleans, La., by B. M. Wickers, of Gretna, La.)

This embraces a very large field, and I think myself hardly able to cover it, as there are such a large variety to take up. I will divide the subject into five classes as follows: Ferns, palms, aquatics, bulbs and roots, and foliage and flowering plants.

Ferns.

Ferns are my specialty and so I will make a few remarks on them first. The Nephrolepis in all its old and new varieties is the most profitable for the Southern florist to grow. My attention was first called to these ferns some twenty-five years ago when I lived in South Florida, where there were hundreds of acres of *N. exaltata* growing wild. I started advertising and sold thousands of them all over the United States and Canada. In 1893 I returned to Louisiana and saw that very little effort was made here to supply the North with ferns. I at once made them my specialty. Very little artificial heat is needed here to grow them. I generally begin the first of April to move the plants outside, either in pots or plant them in the open field without any protection from the sun but a careful watch has to be kept over them all Summer to keep them well watered. The varieties I grow in the full sun are: *N. exaltata*, *N. compacta*, *N. tuberosa*, *N. bostoniensis*, *N. Piersoni*, *N. elegantissima*, *N. Barrowsii*, *N. Whitmani*, *N. Wittholdi*, and *N. Washingtoniensis*.

N. Scottii and *N. davalliodes* and all adiantums and other ferns need slight protection from the sun. A lattice shade giving $\frac{1}{4}$ shade and $\frac{3}{4}$ sun will make a good protection. By the middle of November they all should be in the house at about that time, as we generally have a light frost. Plants grown in this way will be full and stocky, and far superior to the Northern-grown greenhouse stock, either as decorative plants or for cutting.

Last Summer I kept a record of a batch of *N. Whitmani* and they averaged 40 runners to a plant in six months. I have shipped them by freight and had them three weeks on the road and they arrived in perfect condition.

Palms.

The palm is our next plant of great importance. All varieties can be produced here cheaper than in any other State. Some can be kept the entire year outside, while others need a little protection by cold frame, and only a few kinds need a greenhouse for three or four months in the year. In the Summer almost all palms need a lattice shade to protect them against the hot sun.

Bulbs and Roots.

Now as to the bulb and root industry, it is very inviting for the Southern florist. I will only mention a few which are well adapted to one or another of the Southern States. All amaryllis and crinum, hedychium, curcuma, alpinia, phrynum, cooperias, zephyranthes, pancratium, white Roman hyacinths, narcissus, tuberoses, fancy and other calladiums and alocasias and many other bulbs grow here to perfection.

Aquatics.

Next in order are the aquatics. All tender and hardy water lilies can be grown here the year round outside with the least attention.

If I could sell, for instance, all the tender water lilies I could produce at \$4 per hundred, I would grow nothing else.

Plants in General.

To close I will make a few remarks on plants in general. There are many good plants you don't see catalogued, because it costs too much to keep a sufficient number of stock plants to propagate from, in the North. In the South it is different, the florists have no trouble to Winter over a lot of stock plants and can make cuttings the entire year; and the plants here are often far superior to the Northern product. For instance, a *Clerodendron Balfourii* rooted in the South from a hard wood cutting will produce large bunches of flowers in a 2-inch pot, where a plant from a soft cutting growing in the North will not produce a flower under ordinary circumstances for two years.

There are also some plants that are not grown in this country at all which could be produced in some of the Southern States, such as the *Laurus nobilis*, the azalea and others.

In conclusion I will say that 99 per cent. of all plants grown in the North, the South should produce.



Carnation Winsome

Originator John Reimels

and it is questionable if in the realm of floriculture the amateur interests are not of an importance that compares favorably with those of the commercial grower. It becomes necessary then to deal with the commercial and the amateur phases of Illinois floriculture separately and to estimate their importance by somewhat different standards and from somewhat different view points.

A Few Figures.

Taking then the phase of commercial floriculture, it will be noted that such statistics as we have are suggestive and helpful in arriving at an estimation of its importance in the state. The area of glass reported in the florists' establishments in 1900, according to the United States census for that year was 8,414,541 square feet. The sales amounted to \$1,894,960, mostly wholesale. The value of the property was \$4,468,056 and the amount expended for labor was estimated at \$420,538.



Reimels' Seedling, No. 32

It is hard to check these figures by any means at our disposal. Data of this kind had never been gathered at any preceding census (excepting the year 1890); and even if it had been, the industry is of such recent growth that comparisons with preceding reports would mean nothing. In comparing the amount of sales with the number of square feet of

FOR THE RETAILER

Funeral Work.

We all admit this is rather a gloomy subject but ever an important one with the retail florist, especially at this season of the year when any kind of work is welcome. It is something we must expect at any time and all the time; it comes when we least expect it, and sometimes, as during holiday rushes, when we least require it. But whether it comes the day before Christmas or on the Fourth of July, it has to be attended to.

Funeral work, as with everything else in the florist business, admits of no delays. The general acceptance of colors in the designing of funeral pieces has been a great help to the florist, and often assists in cleaning up stock that would otherwise go to waste. And the occasion is rare nowadays where all white flowers are used without the addition of some color. I have often heard the remark from customers in giving their orders: "I want something that will not be too funeral," which really sounds odd when they are ordering for that purpose. Years ago, to use colors in making up funeral designs would have been little short of sacrilege.

I gained my first experience with funeral work in a small town in the south of England, where we never dreamed of using anything but white flowers; nowadays there are few colors that are not employed for this purpose, a wreath of Narcissus Golden Spur being the subject for a wreath which was described in a recent number of this paper, showing that even yellow is used on some occasions. It would seem that scarlet carnations would be rather out of place for work of this kind, but I saw them utilized recently, in depicting the emblem of the "bleeding heart."

Funeral designs are not as fashionable in New York City as in former years, and it is only on rare occasions that one will see a first-class store making anything more elaborate than a wreath or a cross, although among the poorer classes there is still a large demand for fancy designs, especially in provincial towns, and out West, to which region large shipments of fancy wirework are made every week from New York.

There is, also, almost a total absence of lettering, or words, in first-class work, which is really as it should be, as they certainly have a tendency to cheapen the look of otherwise artistic work. There are very few things that the wireworker has not been called upon to make at some time or other, either emblematical of a trade or profession, but more often of a secret society; yet there is nothing handsomer, or that carries more dignity, than a really beautiful wreath or cross. And so many and varied are the styles, and there are so many beautiful combinations of flowers, that anything else in the way of design seems superfluous.

The flat or funeral bunch is also in great demand in the higher class of funeral work, and, of course, the floral pall, or casket cover, is no doubt here to stay.

The introduction of the galax leaf did much to revolutionize funeral work, both the bronze and green leaves now being a necessity. They practically have driven out the beautiful ivy leaf, which seems so appropriate and is really hard to beat.

One of the best casket covers I have seen was formed entirely of ivy leaves, and covered the whole casket, top and sides. A wire mosquito netting frame was used; this was covered with smilax in a thick layer, the leaves being stemmed on wires in bunches of three and four. Every leaf had been cleaned and rubbed over with sweet oil to give a lustre. They were attached to the frame in such a manner that each individual leaf stood out and showed to the best advantage, the effect obtained being that of ivy growing naturally. The only adornment in the way of flowers was a large cross the full length of the casket, made of *Colegyne cristata*, the pure white of the orchid forming a beautiful contrast.

Galax leaves, however, have two advantages over ivy, one being that they can be had in unlimited supply; the other, their cheapness. There is nothing to take their place so far, and it is doubtful if there ever will be.

Leucothoe sprays, both bronze and green, which came some time after galax, are also very good, and a great time-saver where large effects are to be obtained, as all that is necessary in their case is to sharpen the ends, and push them in the moss.

A very handsome wreath was made of bronze leucothoe sprays; it was in crescent form, about two-thirds being of the sprays and the remaining third a cluster of cattleyas and lily of the valley. The base was made entirely of the latter, and the stem, which had been mossed, was filled with the same flower, stemmed quite short to form a column.

Some varieties of *herberis* are very good for funeral work and are sometimes so employed. The best lot I have seen came from near Seattle, Wash., and were imported by a retail florist.

Variegated foliage of all sorts is very good, especially croton leaves which make handsome designs when combined with violets, lilies, etc.

Orchids are a great factor with the high-grade florist, and have become an almost indispensable commodity; entire casket covers are often made of orchids several hundreds being used in one order. One of the most elaborate designs that has come under my notice was made up as follows: The main portion of the casket cover was composed of *Cattleya Trianae* and *Adiantum Farleyense*; a small cross of gardenias rested at the foot, its length being about thirty inches. A fringe of lily of the valley was attached to the lower part of the pall, extending all the way around. At the same funeral was a wreath made of *Colegyne cristata*, with a large spray cluster of *Phalenopsis Schilleriana*.

A florists' supply house in New York is showing a new casket top that will doubtless prove very useful. It has very much the appearance of the old style mosquito netting wire frame cover; but it has the advantage of being adjustable when the piece is made up. Every retail florist will at once see the advantage of this, as it is most annoying to arrive at a house and find the casket cover too large or too small, as the case may be.

Cycas leaves are still used in large quantities. The fresh cut ones are usually to be obtained in this market, and are much handsomer than the dried and painted product. An immense wreath of cycas leaves was the "piece de resistance" at a recent funeral; it stood nine

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unexcelled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1708 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South, Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

feet high from the base to the top, and was tied with purple ribbon twelve inches wide. The base was filled with the immense leaves of *Cycas circinalis*, some of them being six feet in length and fourteen inches wide. The effect was colossal. The *Cycas circinalis* leaves are imported from Trinidad and others of the West India group of islands, but are seldom to be had even in this market. They are undeniably handsome, and splendid for large effects. D. RAYBUN.

Peonies for Oregon for Memorial Day.

Editor Florists' Exchange:

Replying to the inquiry relative to "Peonies for Memorial Day in Oregon" L'Esperance Peony is always in bloom before that day, and continues to flower a week after. It is one that can be depended on, besides the official ones which are generally a week ahead. L'Esperance is not the correct name, but the variety has been sold pretty generally in this country by that designation. *Edulis superba* is most likely the right name, while some growers think *Duchess de Nemours* (Gusar. 1840) the correct one. We hope to have this straightened out at Ithaca, N. Y., next June. The above named early peony is a most valuable variety. J. F. ROSEFIELD.

West Point, Neb.

Editor Florists' Exchange:

Referring to question Number 33, page 215, I have been trying to get several growers to keep a record of dates without success. The coming season we will make a note of date of blooming, height, etc. Several of my customers will record dates; I can then advise inquirer. The late midseason sorts should about fill his requirements.

Canal Dover, O.

C. BETSCHER.



Floral Pillow

The Eighteenth Annual
Spring Number
OF
THE FLORISTS' EXCHANGE

WILL BE PUBLISHED ON

Saturday, March 23, 1907

and all advertisements intended for that issue should reach us on or before **WEDNESDAY, MARCH 20.**

IN drawing attention to this announcement, we would state that firms who have placed their advertisements in our **SPRING NUMBERS** of previous years have invariably found them pre-eminently successful as business bringers; so much so, in fact, that with each succeeding year the demand for space becomes more pronounced.

The date of publication of our 1907 **SPRING NUMBER** has been selected after careful consideration of the many phases attendant on the *Florist, Nursery and Seed Trade* and allied industries.

As a means of offering your trade specialties to the greatest number of possible buyers at a time when these purchasers are actually looking for supplies, we submit that **THE FLORISTS' EXCHANGE**, through its **SPRING NUMBER**, presents an unequalled opportunity, *and at much less expense than any other method affords.*

There will be no advance in our advertising rates. Our schedule of charges never varies, and no one advertiser is favored at the expense of another advertiser.

Our paid-up circulation more than adequately covers the entire country, a fact that assures advertisers finding customers for their offerings in every City, Town or Village where a Florist, Seed or Nursery business has been established.

THE FLORISTS' EXCHANGE has, ever since its inception, borne the reputation of being the representative business medium of the trade; thus it is that advertisers continue to give it the cream of their business.

THE FLORISTS' EXCHANGE is, we assert, the best and cheapest medium in its class for advertisers; not that the cost per inch is cheap, but because of the fact, as already stated, that it is the representative trade paper, and has, in addition, the largest number of readers who are the biggest buyers. It stands to reason that it therefore must create a large purchasing clientele for the advertiser.

The question with the progressive, up-to-date merchant is not one of the cost per inch of space, but, Will my advertisement in that paper sell my goods?

Think it over.



Three Grand Commercial CHRYSANTHEMUMS

HAVING raised thousands of seedlings in the last twenty years, I have three of the very best seedlings—considering fine form, color and stem for commercial purposes—in cultivation, and will offer a limited number at reasonable prices; nothing better in their season (all are certificated.)

MRS. R. N. BIRD.

Fine glistening white, incurved, outer petals reflexed; good form and stem; mid-season.

MRS. JOHN FREIS.

Large, early, incurved yellow, Bonnafon type; the best early yellow to date; October 15.

CHAS. RAGER.

Large, pure white, incurved, ivory form, fine stem and foliage; one of the best whites in cultivation; October 25.

PRICE: Each, 25c.; dozen, \$2.50; 100, \$15.00. Equal proportion of each at dozen and 100 rates.

ADDRESS

JOHN FREIS, 54 Highland Ave., FORT THOMAS, KY.

Mention the Florists' Exchange when writing.

Now Ready For Delivery

New Chrysanthemums

Miss Clay Frick (the white sport of Wm. Duckham), Winter Cheer and Buttercup; all good commercial sorts. Price, 2 1/2 in., pots, 50c. each; \$35.00 per 100.

American Beauty

7,000 plants in superb condition, ready to pot from 2 1/2 in. Every plant unconditionally guaranteed by me. Price, \$8.00 per 100; \$75.00 per 1000. Samples mailed.

New Carnations

Pierson's Winsor; the all-around good thing. Easy to grow; hard to do without. Also Helen Miller Gould, Imperial and Pink Imperial, all at \$12.00 per 100; \$100.00 per 1000; pots 2 1/2 in., \$14.00 per 100. A splendid lot of White Perfection, in 2 1/2 in. pots, \$10.00 per 100.

CHARLES H. TOTTY, MADISON, N. J.

Mention The Florists' Exchange when writing.

VERBENAS 60 Finest Varieties Perfectly Healthy

Rooted Cuttings. Our selection..... \$.75 per 100 \$ 6.00 per 1000
Plants..... 2.50 per 100 20.00 per 1000
Rooted Cuttings. Purchaser's selection..... .90 per 100 8.00 per 1000
Plants..... 3.00 per 100 25.00 per 1000

CARNATIONS Choice Rooted Cuttings Free From Disease

Robert Craig, scarlet, very productive; My Maryland, pure white, good stems. Cardinal, scarlet, good flowers; Jessica, white, penciled with scarlet. Price \$8.00 per 100, \$50.00 per 1000.
Crisis, Lady Beautiful, Enchantress. Price \$3.00 per 100; \$25.00 per 1000.
Mrs. M. A. Patten, Judge Hinsdale, Flamingo, Buttercup. Price \$2.50 per 100; \$20.00 per 1000.
Mrs. Thomas Lawson, The Queen. Price \$2.00 per 100; \$17.50 per 1000.
Golden Beauty, Prosperity, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000.
Mrs. E. A. Nelson, Dorothy, Wm. Scott, Flora Hill, Ethel Crocker, Eldorado, Mrs. Joost, Portia. Price \$1.50 per 100; \$12.00 per 1000.

J. L. DILLON, BLOOMSBURG, PA.

Mention The Florists' Exchange when writing.

GERANIUMS

Per 100 Per 1000
10 varieties, 2 and 2 1/2 in. pots, my selection..... \$3.00
10 varieties, 3 1/2 in. pots, my selection..... 4.00
Alternantheras, red and yellow..... 2.00
Pansy Plants, April 1..... 1.50
Pansy Seed, Giant flowering, oz., \$4.00

CANNAS

Per 100
10 varieties, 1 and 3 eyes, my selection..... 2.00
Colesus..... 2.00
Double Petunias, mixed..... 3.00
Vinca, variegated, 2 in. pots..... 3.00
Verbenas, April 1..... 2.00

CASH

JOS. H. CUNNINGHAM, Delaware, O.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUM

Rooted Cuttings, Strong. Per 100 Per 1000
Glory of the Pacific and Polly..... \$1.50 \$13.50
Rose..... 1.25
Heliotrope, R. O..... 2.50
Heliotrope, 2 1/2 in. pots very strong..... 2.50
Cash with order please.

PATERSON ROSE CO., PATERSON, N. J.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

White Shaw, the very best second early 'Mum' takes place of Robinson. No grower should be without it. \$4.00 per 100, rooted cuttings; unrooted, \$2.00.
CARNATIONS
Mrs. W. T. Omwake (Enchantress Sport), Pink Patten and Mikado, \$4.00 per 100, rooted cuttings; \$2.00 per 100, unrooted. CASH.

HENRY EICHHOLZ, Waynesboro, Pa.

Mention the Florists' Exchange when writing.

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Price \$6.00 43 W. 28th St. per 100. \$50.00 per 1000. NEW YORK.

Grower, LYNBROOK, L. I.

Britannia. Bright scarlet of large size, similar but better in every point than Victory. Premier vases of scarlet W. F. C. S. £5 per 100 for plants in pots; 25 at 100 rate.

Dutton's White Lawson Improved. This variety sported at Bexley Heath; quite distinct from American sport; has improved Lawson habit longer stem, greater perfume, and if possible freer in flower. The best market white size, equal to White Perfection; for all round points has no equal. £5 per 100 for plants in pots; 25 at 100 rate. The best two English novelties for 1907.

A. F. Dutton, The Nurseries, Iver, Bucks, England

Rooted Carnation Cuttings CLEAN, HEALTHY STOCK FOR IMMEDIATE DELIVERY.

Table with columns for WHITE, SCARLET, and PINK carnation cuttings, listing varieties like White Perfection, Cardinal, and Daybreak Lawson with prices per 100 and per 1000.

ROSES

Rooted Cuttings, March 15. \$2.00 per 100, \$15.00 per 1000 BRIDES, MAIDS, GOLDEN GATES, UNCLE JOHN, CHATENAY and RICHMOND

CHRYSANTHEMUMS

Table listing chrysanthemum varieties such as Mrs. Mary Mann, Adalia, and Touseit with prices per 100 and per 1000.

CHICAGO CARNATION CO. A. T. PYFER, Mgr. JOLIET, ILL.

Mention the Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS NOW READY

Table listing carnation varieties like PINK LAWSON, WHITE LAWSON, and RED LAWSON with prices per 100 and per 1000.

CASH WITH ORDER.

WENDEL BIEAR, PALMER AVE., YONKERS, N. Y. Mention the Florists' Exchange when writing.

MABELLE--New Pink Carnation for 1907

Color--A peculiar shade of lovely pink, with a faint yellowish cast, several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size--Three to four inches in diameter when established. Odor--Pleasant, but not strong. Stems--Invariably strong, but always graceful, ranging from 12 to 20 inches during the season. Habit, etc.--A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness--Prodigious is the best word we know of to describe here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. No discounts. First class certificates Madison and Indianapolis. Delivery Jan. 6th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD. Mention the Florists' Exchange when writing.

CARNATIONS

Table listing carnation varieties like Victory, Abundance, and Enchantress with prices per 100 and per 1000.

KRAMER BROS., Farmingdale, L. I. Mention The Florists' Exchange when writing.

ROOTED CUTTINGS

Table listing rooted carnation cuttings like WHITE-Queens and PINK-Lawson with prices per 100 and per 1000.

QUIDNICK GREENHOUSES

J. H. CUSHING Prop., QUIDNICK, ANTHONY, P. O. R. I. Mention the Florists' Exchange when writing.

ROOTED CUTTINGS February and March Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices.

ALBERT M. HERR, LANCASTER, PA.

S. J. GODDARD Framingham, Mass.

Rooted Carnation Cuttings a Specialty. Correspondence Solicited.

CARNATIONS

Rooted cuttings Victory, \$8 00 per 100; \$60.00 per 1000; Enchantress, Bonitifol, White Lawson, Var. Lawson, Parton, \$2.50 per 100; \$25.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Fenn, and Fair Maid, \$2.00 per 100; \$18 00 per 1000. 5 per cent. discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass. Mention the Florists' Exchange when writing.

Save Your Pinks Before Splitting! Don't try to patch them up with wire that would do for the 19th. but not for the 20th Century. A Perfect Flower guaranteed. \$1.76 per hundred, \$16.00 per thousand, 250 at thousand rates.

Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock WINSON and HELEN M. GOULD, \$12.00 per 100, \$100.00 per 1000. ROBERT CRAIG, VICTORY, HELEN GODDARD, \$8.00 per 100, \$80.00 per 1000. RED LAWSON and VARIEGATED LAWSON, \$4.00 per 100, \$30.00 per 1000. ENCHANTRESS, LADY BOUNTIFUL, NELSON FISHER and WHITE LAWSON, \$3.00 per 100, \$25.00 per 1000. BOSTON MARKET, GENERAL MACEO, MRS. T. W. LAWSON, PINK ARMAZINDY; MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

Table listing various carnation varieties like VERBENAS, AGRACIUM, and P. PAULINE with prices per 100 and per 1000.

ASPARAGUS

Table listing asparagus varieties like PLUMOSUS MANUS and SPRENGERI with prices per 100 and per 1000.

CANNAS

Strong dormant roots in 30 fine varieties \$2.00 and \$3.00 per 100; \$18.00 and \$26.00 per 1000.

Grafted ROSES Own Roots

Orders booked for early delivery. KILLARNEY, RICHMOND, JOE HILL, KAISERIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, FERLE, SUNRISE, SUNSET, etc.

MANETTI STOCKS

\$1.25 per 100; \$10.00 per 1000.

Send for List.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS

Table listing carnation varieties like Lawson, pink, Roosevelt, Queen Louise, and Smilax with prices per 100 and per 1000.

Cash with order. HIKE & JONES, Cortland, N.Y.

CARNATION CUTTINGS

READY FOR IMMEDIATE OR LATER DELIVERY Victory, \$6.00 per 100; \$50.00 per 1000 Lady Bonitifol, \$3.00 per 100; \$25.00 per 1000 Variegated Lawson, \$4.00 per 100; \$30.00 per 1000 Pink Parton, \$5.00 per 100; \$40.00 per 1000 Enchantress, \$2.50 per 100; \$20.00 per 1000 Boston Market, \$1.50 per 100; \$12.50 per 1000 Carnation Specialists, JENSEN & DEKEMA 674 West Foster Ave., Chicago, Ill. Mention the Florists' Exchange when writing.

FIRST CLASS ROOTED CUTTINGS OF

ROBERT CRAIG

\$8 00 per 100; \$50.00 per 1000. These cuttings are sand rooted and free from disease. Write for our price list on other varieties.

VALLEY VIEW GREENHOUSES,

VILLIE EROS, Props., Marlborough, N. Y. Mention the Florists' Exchange when writing.

UNROOTED

CARNATION CUTTINGS LARCHMONT NURSERIES, - Larchmont, N. Y. Mention The Florists' Exchange when writing.

CARNATIONS

FINE, STRONG PLANTS

Table listing carnation varieties like Robert Craig, Variegated Lawson, and Victory with prices per 100 and per 1000.

ROBT. C. PYE, NYACK-ON-HUDSON, N. Y. Mention the Florists' Exchange when writing.

ABUNDANCE

Rooted cuttings of the most prolific white carnation will be ready for delivery in January. Price, \$5.00 per 100; \$40.00 per 1000; 260 at 1000 rate; 6 per cent. discount for cash with order.

RUDOLPH FISCHER, Great Neck, L.I., N.Y. Mention the Florists' Exchange when writing.

CARNATIONS

F. DORNER & SONS CO. LA FAYETTE, IND. Mention The Florists' Exchange when writing.

JOHN E. HAINES

The leading scarlet, Liliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place. ROOTED CUTTINGS, \$6.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa. Mention the Florists' Exchange when writing.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa. Mention the Florists' Exchange when writing.

Cincinnati, O.

There is no special change in business from last week's report, with the exception that more stock is coming in and prices are easing somewhat. Joe Hill and Fred Lemon were in town Saturday. Paul Berkowitz was also a caller a few days since. B. P. Critchell had the decorations at the Scottish Rite Reunion last week. E. G. G.

SOUTH BEND, IND.--The South Bend Floral Company, which has a retail establishment on North Main street, opposite the Oliver hotel, is installing very fine new equipment. A refrigerator display window in plate glass is being put in. A large case for the display of fancy baskets and another for the display of jardinières, chiffons, ribbons, etc., have just been completed and are finished in pure white enamel. A large store refrigerator is also being built in Chicago and will be installed in time for the Spring trade. Walter Tapper, an expert rose grower of the Philadelphia, Pa. region, has been secured to take charge of the conservatories at 304 East Dubail avenue.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties
 Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

A. J. GUTTMAN,
 The Wholesale Florist of New York.
 43 WEST 28TH STREET.

JOHN E. HAINES,
 BETHLEHEM, PA.

ANNOUNCEMENT.

AS we have not made all the deliveries for **Aristocrat** as promised we beg to announce to our patrons that all orders are being filled strictly in rotation and all orders will be completed by the 20th of March as we have 50,000 cuttings in the sand nearly rooted and 150,000 cuttings that have been put in the past ten days. These will be ready for delivery before the end of March, which is not too late for **Aristocrat** as it is a very rapid grower, free from disease and will do as well as earlier cuttings when benched in the fall. The variety is an easy rooter but owing to the very unfavorable weather, cuttings did not root as quickly as we expected, besides we are growing them cool which takes a little longer. All of the stock we have sent out has given the best of satisfaction, as it is our aim to see that every cutting is first class in every respect.

We wish to thank our patrons for their patience and assuring you of our very best attention and that your order will be filled by time stated.

CHICAGO CARNATION CO., A. T. PYFER, Mgr. JOLIET, ILL.

Mention the Florists' Exchange when writing.

ROOTED

CARNATION CUTTINGS

Ready for Delivery

	100	1000		100	1000
Enchantress	\$2.50	\$20.00	Victory	\$6.00	\$50.00
Lawson, pink	2.00	15.00	Cardinal	3.50	30.00
Genevieve Lord	2.00	15.00	Lady Bountiful	3.00	25.00
Helen Goddard	5.00	45.00	Boston Market	2.00	15.00
Robert Craig	6.00	50.00	Queen	2.00	15.00

We can furnish cuttings of all the Standard Varieties
 Send for Price List

THE LEO NIESSEN CO.

1217 Arch Street, Philadelphia

LOOK HERE

ROOTED CARNATION CUTTINGS

250 at 1000 rate

LADY BOUNTIFUL, WHITE LAWSON, VARI-GATED LAWSON, \$3.00 per 100; \$25.00 per 1000.

MRS. PATTEN, ENCHANTRESS, \$2.50 per 100, \$20.00 per 1000.

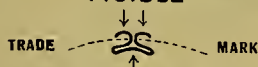
BOSTON MARKET, FAIR MAID, QUEEN LOUISE, HARLOWARDEN, PROSPERITY, MRS. LAWSON, \$2.00 per 100; \$15.00 per 1000.

HELEN GODDARD, \$5.00 per 100.

WILSON MARSHALL, Red Seedling, \$5.00 per 100; \$45.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE BRIDGEPORT, CONN.

VISIBLE



INVISIBLE

SAVE YOUR SPLIT CARNATIONS

The Baur Clip and Plyer will do it in a reasonable manner at a minimum of time and expense, saves lots of money. Inexpensive instantaneous applied and Practically Invisible. The Clips are made of galvanized wire and are colored green just the color of the calyx and can hardly be detected. Thoroughly UP-TO-DATE in every particular.

Plyer \$3.00 1000; Clips \$1.00; postage prepaid. All the leading dealers in Florists' Supplies, or direct from

BAUR FLORAL CO., Erie, Pa.
 Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

	Per 100	Per 1000
WHITE PERFECTION	\$6.00	\$50.00
LIGHT PINK LAWSON	6.00	50.00
GLENDALE	6.00	50.00
VICTORY	6.00	50.00
ROBERT CRAIG	6.00	50.00
CARDINAL	4.00	35.00
FIANCEE	3.50	30.00
LADY BOUNTIFUL	2.50	20.00
THE BELLE	2.50	20.00
WHITE LAWSON	2.50	20.00
ENCHANTRESS	2.50	20.00
NELSON FISHER	2.50	20.00
HARRY FENN	2.00	15.00
MRS. T. W. LAWSON	2.00	15.00
ESTELLE	2.00	15.00
BOSTON MARKET	1.50	12.00
WHITE CLOUD	1.00	8.00

600 at 1000 RATES.
ASPARAGUS Strong, ready for ship
ASPARAGUS SPENGERI, 3 in. at \$4.00; 4 in. at \$6.00 per 100; 5 in. at \$20.00.
ASPARAGUS PLUMOSUS, 3 in. \$5.00; 4 in. \$8.00; 5 in. \$25.00 per 100.
W. J. & M. S. VESEY, Fort Wayne, Ind.

CARNATIONS

Strong, healthy, well rooted stock

	per 100	per 1000	from pots
White Perfection	\$6.00	\$50.00	\$8.50
White Lawson	3.00	25.00	3.50
Bountiful	3.00	25.00	3.50
Cardinal	2.50	22.50	3.00
Enchantress	2.50	22.50	3.00
Lawson	2.00	15.00	2.50
Harlowarden	2.00	15.00	2.50
Boston Market	1.50	12.50	2.00

Cash with Order. Satisfaction guaranteed.

SMITH & GANNETT
 Geneva, New York

Beacon Carnation

An early bloomer and very free flowering will rank with the best yet introduced in this respect.

Orange Scarlet

Has been proved to be the Most Profitable Commercial Scarlet.

Needs no special Culture. A night temperature of 50 to 52 degrees suits it admirably.

PRICES:

Per 100, \$12.00,.....50 at 100 rate	Per 5000.....\$90.00 per 1000
Per 1000, 100.00,.....250 at 1000 rate	Per 10,000..... 80.00 per 1000
Per 2500, 95.00,.....Per 1000	In lots of 20,000 or more, cash with order.....\$75.00 per 1000

March Delivery.

Cottage Gardens Peter Fisher,
 Company, (Originator)
 Queens, N. Y. Ellis, Mass.

ROOTED CARNATION CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
MRS. LAWSON	\$2.00	\$15.00	WHITE CLOUD	\$1.25	\$10.00
GUARDIAN ANGEL	1.50	10.00	FRED BURKI	2.50	20.00
ENCHANTRESS	2.50	20.00	HARLOWARDEN	2.00	15.00
LIEUT. PEARY	3.00	25.00	CHICAGO	1.50	12.50
BOSTON MARKET	1.50	11.00	ESTELLE	2.00	15.00
			RED SPORT (MACEO)	2.00	15.00

CHRYSANTHEMUMS

CLEMENTINE TOUSET (Early Chadwick), finest early white, \$2.50 per 100. R. C. ready now. We have the largest stock in the country of this fine variety.

WIETOR BROS.

Wholesale Growers of Cut Flowers

51 Wabash Avenue, CHICAGO

ROOTED CARNATION CUTTINGS READY NOW

Strong, Healthy and Thoroughly Rooted Cuttings of the following varieties:

	100	1000		100	1000
Victory (scarlet)	\$6.00	\$50.00	Lieut Peary (white)	\$3.50	\$30.00
Robt. Craig	6.00	50.00	Lady Bountiful	3.00	25.00
Red Sport	3.00	25.00	White Lawson	2.50	20.00
Enchantress (pink)	2.50	20.00	Boston Market	2.00	15.00
Lawson	2.00	15.00	Queen	2.00	15.00
Mrs. M. A. Patten var.	2.50	20.00	Queen Louise	2.00	12.50

Remember we guarantee satisfaction.

250 of any one variety at 1000 rate. Write for discount on large orders.

J.D. COCKCROFT, Northport, Long Island, N. Y.
 Mention the Florists' Exchange when writing.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 WEST 28th STREET, NEW YORK
Telephone: 3559 Madison Square
CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL
Mention The Florists' Exchange when writing.

REVIEW OF THE MARKET

NEW YORK.—The weather continues very cold; traffic is much impeded by a heavy fall of snow on Sunday last, and the flower business is suffering to some extent from this combination of circumstances. Prices along all lines are inclining to be weaker, and supplies, while not yet very plentiful, excepting in bulbous stock, are more than ample for what demand there is. Violets particularly have been dragging in an unsatisfactory manner since Washington's Birthday; in fact, there were supplies in hand on Tuesday that had been in the market ever since that holiday. Had the weather been more propitious these violets would have been cleared out to the street merchants at some price or other.

Narcissus Princeps is a glut just now, and upon asking one prominent dealer, who is carrying a lot of this variety of narcissus this season what the prevailing price was, we were informed that he would gladly clear out the entire stock for twenty-five cents a hundred. Narcissus Horsfieldi is meeting with a somewhat better reception from the buyers, still prices are anything but satisfactory. Tulips are not quite so plentiful as they were a few days ago, yet there are plenty to fill all wants. Freesia and sweet peas are coming in in heavier supply as the season advances. There are so many different grades of these flowers, however, that fixed prices are unknown; values range anywhere from 5c. to 20c. per bunch.

Lily of the valley is still held at low figures and there is a big supply on hand constantly. Gardenias were never before so plentiful, and as only a few of the longer stemmed flowers can be disposed of, the result can easily be imagined.

Carnations are plentiful enough so that a first-class grade in select varieties can be obtained at \$3 per 100; ordinary stock is going at much lower figures.

Roses, while not having become plentiful as at yet, have to be cut in price to quite an extent in order to effect clearances; number two grades may be said to be holding fairly firm, in fact, the short stock is the only kind that is clearing out satisfactorily.

Lilac is selling poorly, lilies remain fairly firm because they do not get plentiful. Daisies, forget-me-not and wall-flowers are not meeting with the same brisk call that has been experienced for them in former recent years.

What with the Lenten season, and present weather conditions, it may safely be said that business just now is rather heavily handicapped.

CHICAGO.—While roses continue to be good property with increased supply, a healthy demand, and a somewhat reduced price, other lines of cut flowers have been constantly increasing in supply beyond the demands of the market, and the latter part of last and the first of the present week have developed what might be termed a very strong tendency toward a glut in certain stocks, notably carnations, narcissus in variety, tulips of the commoner sorts, callas, freesias and violets, the latter having been in decided over-supply at times.

The favorable weather has not only greatly increased the cut sent in by the growers from all directions but a very perceptible improvement in quality is noticeable so that the price has not only dropped but the grade improved, much to the consolation of the retailer who is fortunate enough to be booking a goodly list of orders.

All kinds of green are moving freely and at good prices. The local trade is generally reported rather quiet, with shipping holding up fairly well. W. K. W.

PHILADELPHIA.—The cut flower market this week is in very poor condition—lots of stock and but little business. The very best flowers are quoted as follows: American Beauty roses, \$9 per dozen; tea roses, \$15 per 100 for a few; general stock \$6 and upwards. Carnations, \$2 per 100 up with sales poor. Violets have to be very good to bring 75c. per 100.

Bulbous stock goes very slowly. There is a complete glut of it; daffodils can scarcely be given away. Sweet peas are quoted at \$1 and \$1.50 per 100 for extra choice fresh stock, but these prices are hard to obtain; the flowers are offered by the 1000 at from \$4 to \$7.

Cattleyas are scarce; prices have advanced to 75c. per flower. Good Asparagus plumosus is also scarce and wanted. DAVID RUST.

BOSTON.—The surplus of all kinds of flowers seems to increase daily. Roses are the best selling stock but this is on account of their scarcity. American Beauty have dropped in price and are more plentiful than they have been. Some fine flowers of other varieties are now to be seen.

Carnations have increased in quantity, consequently prices have been reduced. Enchantress is the best selling variety at the present time. Lilies are getting more plentiful; heretofore there has only been a limited quantity but now there seems to be abundance of them.

Violets are very plentiful, in fact so much so as to be druggery. Bulbous stock of all kinds is now in abundance and prices have been reduced; in fact, it is sometimes difficult to move these flowers at any price. J. W. D.

ST. LOUIS.—There is little complaint heard as to very dull business among the retail florists. As to stock at the commission houses, we find extra fine quality roses still scarce. Everybody expected to see a glut by this time. Bride, Bridesmaid, Richmond and Killarney are in good demand, with orders only half filled. Prices on fancies run from \$8 to \$10 per 100; \$5 and \$6 for shorts. American Beauty, too, are very scarce, with top price at \$6 per dozen.

Carnations are selling well and there are many more coming in than the demand calls for. Enchantress, Mrs. T. W. Lawson, Nelson Fisher, White Perfection and Lady Bountiful have the call. Some extra fine Robert Craig are in the market. There are more Enchantress arriving than of any of the other varieties; \$4 per 100 for extra fancy, \$2 and \$3 for firsts and \$1.50 for common are the prices, and we look for a drop in these before the end of the week.

Bulbous stock as a rule cleans up pretty well each day, except in Von Sion narcissus and lily of the valley which are selling slowly. Dutch hyacinths sell well at from \$3 to \$4 per 100; good Roman hyacinths bring \$2. Paper White narcissus are scarce this week. Violets are becoming druggery, with the price down to \$3 per 100 and 40c. in single bunch lots. Lilies are scarce, but many are expected soon to come in from all quarters. A great many extra quality sweet peas are arriving now, which sell at \$1 per 100. In greens, smilax goes slowly; plenty of it is in the market at \$12.50 per 100 strings. Other greens are abundant. ST. PATRICK.

INDIANAPOLIS, IND.—The ease with which an average business has been conducted makes it evident that counter trade has been heavy, as funeral work or decorations always make more or less haste. Stock is being cut in heavy quantities, but so far none has been lost. Washington's Birthday did not affect this market materially; a few natural cherry trees adorned with artificial fruit or flowers met with favor.

Bulbous stock is not bringing the prices of a week ago; \$3 to \$3.50 per hundred for tulips, jonquils, Paper White narcissus and Roman hyacinths is the price generally paid. Trouble is experienced in obtaining regular lots of high grade violets, which wholesale at 75c. to \$1 a hundred. Well-grown sweet peas are plentiful at 75c. to \$1 a hundred.

Carnations are certainly elegant and the demand brisk considering the masses of carnations by the growers each day at \$2 to \$3.50 a hundred. Prices for roses are considerably lower and will probably continue so. Select Bridesmaid and Bride bring \$7 to \$8 a hundred; \$1.50 to \$2 a dozen is the usual retail price. Fine Richmond are plentiful at \$10 to \$12 per hundred. American Beauty are selling slowly at 5c. to \$50 a hundred.

Spring is already with the florist when it comes to the plant line. Rhododendrons, azaleas, forget-me-nots, lilacs and camellias inspire even the busy retailer to hold communion with nature's visible forms from a sentimental standpoint. I. B.

MINNEAPOLIS.—The Lenten season does not appear to affect trade to any great extent, as the retailers report a good week's business; practically all of them have had considerable funeral work and as we are now having nice sunshiny weather the demand for cut flowers is quite large. Stock is again plentiful. Roses with nearly all of the growers are in crop and some very fine. Richmond, Kate Moulton, Mme. Abel Chatenay, Bride and Bridesmaid are on the market. With some of the grow-

1000 Ideas

are contained in that little booklet of ours and you will find it a gold mine of information. It tells in a simple, plain way all about greenhouse erecting, how to build benches, how to glaze, all about painting and just how every piece is nailed. It will show you how to have a perfect greenhouse and is worth its weight in gold to every florist who has greenhouses or ever intends to build one. There are only a few of these booklets and you should get one now—they can be used with any kind of material but if you use ours we will send you one free. Write for one to-day enclosing ten cents in stamps to cover cost of mailing, postage, etc. Address

JOHN C. MONINGER CO., Chicago, Dept. F.

THE METAIRIE RIDGE NURSERY COMPANY LTD.
NEW ORLEANS, LA.
GROWERS OF CHOICE CUT FLOWERS
Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.

ers Mme. Abel Chatenay has done remarkably well and appears to be in heavy demand, especially so when good stock is offered. The price does not seem to cut any figure for the best stock; in some places they are sold at \$3 and \$4 per dozen. Kate Moniton command a good price and are eagerly sought after by some who apparently have worked up a trade on this variety. Carnations are now quite plentiful. The stock is fine, especially Enchantress. Robert Craig has not done as well as was expected, consequently we are a little short on red.

Bulbous stock is plentiful and is offered at close prices, especially tulips. The fine weather has created a heavy demand for violets; a great many are cut by the different growers, but the price has not declined to any great extent; the growers are getting \$1.25. Easter stock looks fine, and every indication points to a good supply of all plants. PAUL.

NEW BEDFORD, MASS.—The cut flower trade is very active, with stock quite scarce. Prices remain the same as usual: 60c. and 75c. for carnations; roses, \$3 per dozen; violets, \$1 and \$1.50 per 100; bulbous stock, 50c. and 60c. per dozen. Sweet peas bring \$1 per 100 for the best. HORTICO.

CHANGES IN BUSINESS.

MONROE, MICH.—Mr. and Mrs. Vandergift will conduct a florist business here.

FINDLAY, O.—J. J. Waaland has purchased the stock of plants of S. M. Hartman, at Van Buren, and will bring it to Findlay and place it with his large stock here. There were about two thousand plants in the lot purchased.

GREENSBORO, N. C.—Jas. Duffy has sold his entire stock to Messrs. F. B. Duffy (his son), W. C. Porter, and D. Earle Powell. Mr. Porter has had about ten years experience in the seed business and the new concern, namely, the Greensboro Floral & Seed Company, is doing business in wholesale and retail seeds, and also carry a full line of flowers, plants, etc.

SALEM, O.—V. A. Cowgill, of Alliance, has closed a lease with Joseph E. Bonsall, of this city, for that portion of his greenhouses lying east of Garfield avenue. Mr. Cowgill will conduct a retail business in cut flowers and potted plants. O. W. Bundry, who has been with Mr. Bonsall, will remain with the new firm. Mr. Bonsall retains the greenhouses on the west of Garfield avenue, and will continue to conduct a wholesale business.

Marie Louise Violets

Will have a fine crop of blooms for Easter from houses that have been run cold. Write for prices.

C. LAWRTZEN, Box 261, Rhinebeck, N. Y.
Mention the Florists' Exchange when writing.

FIRMS WHO ARE BUILDING.

ALBION, MICH.—A. H. Dew will shortly erect a new range of greenhouses here.

TUSLA, IND. TER.—T. A. Butler, formerly of Shawnee, Okla., in all probability will establish here a modern greenhouse and nursery in a short time. The new institution will be put in at a cost of \$15,000.

WINONA, MINN.—Kirchner & Son are preparing to enlarge their present greenhouses at the corner of Minnesota and West King streets, and when the work is completed the capacity of the houses will be doubled. A larger boiler will also be installed.

BATAVIA, ILL.—A company headed by a Mr. Powell, of Chicago, will build three greenhouses on the Rhutal farm, southwest of town. They have purchased the property and will build this Spring. The houses will be 27 by 90 feet in dimensions.

WILBESBARRE, PA.—Ira G. Marvin has leased the Beck greenhouse and grounds surrounding it located on North Main street and filed plans for the erection of a new greenhouse. When completed the structure will be used as a storage house for palms and lilies.

SPRINGFIELD, ILL.—A committee of the Illinois Florists' Association, composed of J. F. Ammann of Edwardsville, president; J. G. Vaughan and P. J. Hauswirth of Chicago, secretary of the national association, Prof. J. C. Beal of Urbana, and others were in Springfield the past week in the interest of a bill introduced in the legislature, calling for an appropriation to create a branch of the work at the State experimental station to deal with flowers and vegetables. A sum of \$10,000 is asked for the investigation of insects and diseases, affecting hot-house plants. Judge C. J. Lindley of Greenville has fathered the bill, and the committee has hopes of its passage.

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 Prompt returns.
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Wholesale Grower
 Asparagus Plumosus Nanus, Etc.
 Short Hills, N. J.
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ORCHIDS A SPECIALTY
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
 CARDENIAS, DAISIES, ROSES, CARNATIONS.
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SPECIAL VALLEY AND TOP GRADE ASPARAGUS
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Wholesale Prices of Cut Flowers, New York, Feb. 28, 1907

Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	50.00 to 60.00	Carnations	Inf'r grades, all colors.....	1.50 to 2.00	
	extra.....	35.00 to 40.00		STANDARD	White.....	2.00 to 3.00
	No. 1.....	15.00 to 20.00		VARITIES	Pink.....	2.00 to 3.00
	No. 2.....	8.00 to 12.00			Red.....	2.00 to 3.00
	No. 3.....	6.00 to 8.00			Yel. & Var.....	2.00 to 3.00
	Bride, Maid fancy-special.....	8.00 to 10.00			White.....	3.00 to 4.00
	extra.....	5.00 to 6.00		*FANCY—	Pink.....	3.00 to 4.00
	No. 1.....	4.00 to 5.00		(The highest grades of	Red.....	3.00 to 4.00
	No. 2.....	4.00 to 5.00		standard var)	Yel. & Var.....	3.00 to 4.00
	Golden Gate.....	4.00 to 10.00		NOVELTIES		
RICHMOND.....	4.00 to 20.00	GARDENIAS, per doz.....		4.00 to 6.00		
Mme. Abel Chatensy.....	4.00 to 15.00	LILAC, per bunch.....		2.00 to 4.00		
ADIANTHUM.....	.50 to 1.00	LILIES.....		12.00 to 15.00		
CROWNEANUM.....	1.00 to 1.50	LILY OF THE VALLEY.....		1.00 to 2.00		
ASPARAGUS.....	25.00 to 50.00	MIKONETTE.....		2.00 to 6.00		
Plumosis, bunches.....	15.00 to 20.00	NARCISSUS, Paper White.....		1.00 to 2.00		
Sprenger, bunches.....	15.00 to 20.00	" Yellow.....		.50 to 2.00		
CALLAS.....	16.00 to 12.00	ROMAN HYACINTHS.....		1.00 to 2.00		
CATLEYAS.....	40.00 to 50.00	SMILAX.....		8.00 to 15.00		
CYPRIPEDIUMS.....	12.00 to 15.00	TULIPS.....		.50 to 2.00		
DAISIES.....	1.00 to 3.00	VIOLETS.....		.30 to .50		

WALTER F. SHERIDAN

Wholesale Florist
 39 WEST 28TH ST., NEW YORK
 Tel. 3532-3533 Mad. Sq.
 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty,
 Lilies, Lily of the Valley, Carnations
 Telephone, 1993
 Madison Square **JOHN I. RAYNOR, 49 West 28th St., NEW YORK**

Edw. C. Horan

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 TELEPHONE, 1462-1463 MADISON SQUARE
CUT FLOWERS AT WHOLESALE
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J. Seligman Joseph J. Levy

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 SPECIALTIES—Violets, Carnations and Roses
 Shipping orders receive prompt attention. Con-
 signments Solicited.
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Wholesale Florist and Plantsman
 Tel. No. 4532 Madison Sq. 52 W. 29th St.
 Between Broadway and 6th Ave., New York
 Shipments of Plants made to any part of the
 country. A trial order solicited.
SATISFACTION GUARANTEED.
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TRAENDLY & SCHENCK

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 43 West 28th Street, NEW YORK
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 Consignments of Choice Flowers solicited
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Minneapolis.

News Notes.
 A visit to the Minneapolis Floral Company finds their place in the finest condition. Heavy cuts of roses are made daily, but not in sufficient numbers to supply the trade. In addition to their own product, they have contracted to take the cut of another plant of about 50,000 feet of glass. Their lilies are better this year than they have been for some time—all of about a uniform height with every appearance of turning out remarkably well. They have been cutting some very nice white lilac, which seems to have taken well with the trade.
 Ralph Latham intends enlarging his place of business considerably.
PAUL.

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

STORE CLOSSES AT 8 P.M.

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Acacia Pubescens

Cut sprays, \$2.50 per bunch.

Headquarters for the best Valley in the country at best prices.

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Open from 7 a. m. to 8 p. m.

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Carnations, Roses, Novelties
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Valley American Beauties, Brides and Maids; Sprengeri, Asparagus Plumosus, Carnations and Violets, all seasonable flowers.
Large stock of Stevia on hand, can supply you at lowest market prices at short notice.
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W. E. McKISSICK, Wholesale and Commission Florist

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1221 FILBERT ST., PHILA., PA.

Wholesale Prices of Cut Flowers—Per 100

Boston Feb. 26, 1907	Buffalo Feb. 25, 1907	Detroit Feb. 4, 1907	Cincinnati Feb. 25, 1907	Baltimore Feb. 4, 1907	Milwaukee Feb. 23, 1907	Phil'delphia Feb. 20, 1907	Pittsburg Feb. 25, 1907	St. Louis Feb. 27, 1907
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20.00 to 40.00	18.00 to 30.00to 80.00to	12.50 to 20.00to	25.00 to 30.00	25.00 to 30.00	25.00 to 30.00
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12.00 to 15.00	12.00 to 15.00	12.50 to 15.00tototo	1.00 to 1.50	1.25 to 1.50	1.00 to 1.50
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1516-18 Sanson Street
High Grade Cut Flowers
Open Evenings until 8.
Mention the Florists' Exchange when writing.

Philadelphia.

Business is unusually quiet. There is generally a revival the second week of Lent, but it has not come this year. The inclement weather has hurt transient trade very much, even the street flower sellers very sparingly, as the streets have been in bad condition. The wholesale houses are loaded down with bulbous stock; daffodils being thrown away. Bayersdorfer & Company are very busy on orders for Easter goods; they have an unusually large supply of baskets and Easter novelties this year.

Stockton & Howe, rose growers of Princeton, N. J., were in town Tuesday. This firm shipped about the only white roses in quantity that came to this city during the past two months.

Walter Yates says their loss in Harrisii lilies this season was only 18 per cent.; other growers report 30 and 40 per cent. loss. In the case of Yates & Company they began cutting for Thanksgiving and have kept it up right along, so probably if the Harrisii lily is kept going all the time, results would be better—at least their experience would so indicate.

We are sorry to report that Miss Annie H. Lonsdale, the only daughter of Edwin Lonsdale, is very sick with pneumonia. DAVID RUST.

Only Two Regrets.

Another year has rolled around and another dollar is due for the florists' best paper. The only regrets are that the Carnation Society's certificate question has not been settled, and John Birnie has not told us how to raise 5,000 geranium plants from 50 stock plants.

Wishing you continued success.
Illinois. F. R. THORNTON.

BOSTON, MASS.

Asparagus Plumosus
Mignonette
Lil. Harrisii
Bridea, Maids
American Beauties

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Cheapest Stock Always on Hand
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Wholesale Growers of Roses and Carnations
18,000 assorted GERANIUMS in 2 1/2 in pots, \$2.50 per 100; \$20.00 per 1000.
Also rooted cuttings of all the leading carnations.
WORCESTER, MASS.

Headquarters:

Western " York

For ROSES,
CARNATIONS

And all kinds of Seasonable Flowers.



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Wholesale Commission Florist
Also dealer in Florists' Supplies and Wire Designs
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Give us a trial. We can please you.

CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS, White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00. Bountiful. Per 100 \$2.75, per 1000 \$25.00. Enchantress. Per 100 \$2.00, per 1000 \$18.00.

FOR IMMEDIATE OR LATER DELIVERY
Nelson Fisher. Per 100 \$2.25, per 1000 \$20.00.
Mrs. T. W. Lawson. Per 100 \$1.75, per 1000 \$15.00.
Boston Market. Per 100 \$1.35, per 1000 \$12.00.

Book orders now. Quality guaranteed. If you don't like them we may express both ways. Catalogue Free.

E. F. WINTERSON & CO. Wholesale Cut-Flowers and Florists' Supplies
45-47-49 Wabash Ave., Chicago, Ill.

Be your own Commission Man
THE
FLOWER GROWERS' MARKET
furnishes the facilities
See **PERCY JONES, Mgr.**
60 Wabash Ave., CHICAGO.
Mention the Florists' Exchange when writing

THE BUSIEST HOUSE IN CHICAGO
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Wholesale Cut Flowers
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Consignments Solicited

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Wholesale Growers of
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All telegraph and telephone orders
given prompt attention.
51 Wabash Ave., CHICAGO

E. G. HILL CO.
Wholesale Florists
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Chicago Rose Co.
Rose Growers
and Commission Handlers
of Cut Flowers
FLORISTS' SUPPLIES
Wire Work our Specialty.
**56-58 Wabash Avenue,
CHICAGO.**

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Wholesale Growers and Shippers of
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All Leading
Varieties of
PETER REINBERG
Wholesale Cut Flowers
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Headquarters for American Beauty Rose
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SINER BROS.
WHOLESALE CUT FLOWERS
60 Wabash Ave., Chicago.
Careful attention to all
SHIPPING ORDERS.
Mention the Florists' Exchange when writing.

ST. PAUL, MINN.
Send us your Orders for delivery in the
Northwest, which will have our best
attention.
**L. L. MAY & CO.,
Florists, St. Paul, Minn.**

Mention the Florists' Exchange when writing.

GEO. REINBERG
Wholesale
Grower of **Cut Flowers**
CHOICE AMERICAN BEAUTY ROSES
We will take care of your orders at reasonable prices.
Prompt Attention.
35 Randolph Street, CHICAGO, ILL.
Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers, Chicago, Feb. 26th, 1907

Prices quoted are by the hundred unless otherwise noted

ROSES		American Beauty	
38-inch stems.....	par doz.	..... to	6.00
30-inch stems.....	"	..... to	5.00
24-inch stems.....	"	..... to	3.00
20-inch stems.....	"	..... to	2.00
18-inch stems.....	"	..... to	1.50
12-inch stems.....	"	..... to	1.00
8-inch stems and shorte	"	..... to	.75
Bride Maid, fancy special.....	8.00 to	16.00	
" extra.....	5.00 to	6.00	
" No. 1.....	..... to	4.00	
" No. 2.....	..... to	3.00	
Golden Gate.....	5.00 to	10.00	
Uncle John.....	5.00 to	10.00	
Liberty.....	5.00 to	10.00	
Richmond.....	5.00 to	10.00	
Killarney.....	8.00 to	10.00	
" extra.....	12.00 to	16.00	
Perla.....	5.00 to	10.00	
Chafarby.....	5.00 to	10.00	
Callas	8.00 to	12.00	
Hyacinths, Roman.....	2.00 to	3.00	
Narc. Single Yellow.....	1.00 to	2.00	
Tulips, White.....	2.00 to	3.00	
" Yellow.....	2.00 to	4.00	
Mignonette.....	2.00 to	6.00	
FORGET-ME-NOT.....	1.50 to	2.00	

CHAS. W. MCKELLAR
Orchids
FANCY VALLEY, ROSES, CARNATIONS,
and all CUT FLOWERS and GREENS
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Valley, Carnations and Roses
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CARNATIONS			
STANDARD	White.....	1.00 to	2.00
VARIETIES	Pink.....	1.00 to	2.00
	Red.....	1.00 to	2.00
	Yellow & var.....	1.00 to	2.00
*FANCY	White.....	3.00 to	4.00
(Tall high)	Pink.....	3.00 to	4.00
est grade	Red.....	3.00 to	4.00
of Sta'd var.	Yellow & var.....	3.00 to	4.00
NOVELTIES.....	..... to	..... to	.....
ADIANTUM.....	..... to	.75 to	1.00
ASPARAGUS, Plum & Ten	..... to	.35 to	.50
" Spranger, bunches	..... to	.85 to	.50
LILIES, Longiflorum.....	..... to	15.00 to	20.00
HARRISII.....	..... to	15.00 to	20.00
Orchids—Cattleyas.....	..... to	..... to	50.00
SMILAX.....	..... to	15.00 to	20.00
LILY OF THE VALLEY.....	..... to	2.00 to	4.00
VIOLETS	single.....	.50 to	.75
" double.....	..... to	..... to	.50
HARDY FERNS per 1000.....	..... to	2.00 to	3.00
GALAX.....	..... to	1.00 to	1.25
NARCISSES, Paper White.....	..... to	2.00 to	3.00
JONQUILS..... to	2.00 to	3.00
FRESEIA..... to	2.00 to	4.00
SWEET PEAS..... to	1.00 to	1.50
SNAPDRAGON..... to	6.00 to	8.00

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Roses and WHOLESALE
Carnations CUT FLOWERS
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Wholesale Growers of
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given prompt attention.
Greenhouses: **35-37 Randolph St.,
MORTON GROVE, ILL. CHICAGO.**
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New Orleans, La.
News Notes.
At the meeting of New Orleans Horticultural Society, held on February 21, the committee having in charge the Fall flower show, adopted the premium list, after making some changes in the classification.
Mr. Panter made a most important suggestion, which met with the approval of the committee, namely, that prizes be offered for different classes of plants and flowers, grown by school children. C. W. Eichling was the first to offer a prize for this class of exhibits, and gave some valuable suggestions as to classifying the plants and flowers sent by the children.
J. A. Newsham has on the way from his collector his first consignment of orchids, consisting of Cattleyas Dowiana and Skinneri.
CRESCENT CITY.

Chicago.
The Week's News.
E. J. Murchie, of Sharon, Pa., passed through this city last week on his way to Wisconsin, where he will visit friends.
Even in Lent there appears to be something going on all the time here to produce the necessary aid to the florists. The contributory features last week, gave a heading from a daily paper were, "Grand Opera, Grover and George." Every little helps.
H. K. Hughes has made a marked success of his original advertising features. Besides his unique list of neatly executed folders, specially adapted to particular lines of goods or floral events, his genius crops out in many ways about his Van Buren street store. Upward of ninety feet of plate glass frontage are artistically arranged with cork bark, many colored electric lights, plants, cut flowers, rural scenes, symbolization of the seasons, gold fish tanks, etc., while back of the office and conservatory he has fenced in a good-sized area, facing on Lincoln street, giving ample room for the disporting of three young deer, that attract many people into the store to ask questions, and this indirectly helps along the good work of the establishment.
Mrs. John Simpson, the Ogden avenue florist, has been seriously ill with tonsillitis and a touch of pneumonia.
Presence of mind and of person at the opportune moment, won for J. P. Foley, while at Bloomington last week, what should be the ever enduring thanks of a young mother of that place, who, while piloting a perambulator, left the vehicle and its occupant for the purpose of studying the charms of an attractive show window, when suddenly, the sidewalk being on an incline, the baby carriage attained impetus, upset and deposited the infant among the feet of a horse, which became frightened at the disturbance and would undoubtedly have crushed the life out of the child, but for Mr. Foley, who rescued it from its hazardous position.
The Jackson boulevard branch store of Schiller, the florist, was completely consumed by fire on the afternoon of Washington's birthday, the fire starting at half-past five, by the explosion of an oil stove. The entire stock and fixtures were destroyed, entailing a loss of about \$2,000 which was covered by insurance. Miss Bailey, a clerk, had but just left the immediate vicinity of the stove, thus fortunately avoiding what might have been a serious casualty. Work will commence immediately on rebuilding and will be pushed to the utmost, hopes being expressed that Easter will find the new building occupied.
Mr. Keller, of Reed & Keller, New York, spent a few days in town last week.
Kennicott Brothers Company take up the undertaking of moving to their new store 48 to 50 Wabash avenue immediately after Easter.
J. A. Budlong reports a continued activity especially in shipping, with ample stock of fine quality.
The Poehlmann Brothers Company are receiving from their houses excellent cuts in all their reasonable lines.
J. B. Deamud Company are consignees of a fine line of the favorite Murillo tulips.
At Vaughan's Seed Store the mail order business is reported to be 25 per cent. in advance of the same date a year ago.
At Peter Reinberg's salesroom the management claim a full crop of everything on the place. Especially mentionable in addition to a complete list of roses and carnations is a fine run of lily of the valley and L. Harrisii.
C. W. McKellar has in a stock of the Easter folding eggs and has also just received an attractive line of new ribbons including shades to harmonize with orchids and Killarney, Marechal Niel and American Beauty roses.
The Gloede Floral Company of Evans-ton have a large stock of their new geraniums Mrs. R. F. Gloede and Kenilworth which they are disseminating this season.
Wietor Brothers are making a satisfactory cut in all lines and report a fair market with the best prospect for an Easter crop they have ever had five weeks ahead.
At George Reinberg's it is said that the bright weather is bringing in steadily a good showing of stock, and the market cleaning up the roses well.
W. K. WOOD.

ADVERTISING IN THE FLORISTS' EXCHANGE
- - - IS SURE TO BRING RESULTS - - -

SOUTHERN WILD SMILAX

Now ready in any quantity

Book orders now for future delivery. Beavon's Fadeless Shoot Moss, \$3.50 per bag, delivered. Send for samples. Also Fancy Holly for Xmas trade. Satisfaction guaranteed. Write for prices.

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EVERGREEN, ALA.

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Introducer of the Wild Smilax

Wild Smilax \$2.50 Per Case

The only place where you can **always** get it. Long Needle Pines, \$1.00 per doz.; Palm Crowns, \$2.50 per doz.; extra nice long stemmed Palmetto leaves, \$2.50 per 100; Magnolia, \$2.50 16 cubic ft. cases. Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000

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CALDWELL THE WOODSMAN DECORATING CO., Evergreen, Ala.

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USE THE BEST.
Economy Greenhouse Brackets
are used by leading growers everywhere. Send for price list and descriptive circular.
GUXTON & ALLARD, Dept. C Washus, N. H.
Mention the Florists' Exchange when writing.

St. Louis, Mo.

News Notes.

The St. Louis Horticultural Society held its regular monthly meeting on Tuesday of last week, President Harry Young in the chair with a good attendance. The exhibition committee, composed of Messrs. Miller, Koenig and Meinhardt, reported on the premium list which was revised and ordered printed. The society will hold its first Spring flower show in the Odeon Building, Masonic Temple, March 5, 6, 7. There will be no charge for admission, which will be only by invitation card. About \$500 will be offered in prizes. The members are looking forward to a successful show and a boom for the society. All the members are hard workers and success is assured.

George M. Kellogg, of Pleasant Hill, Mo., who conducts a large wholesale and retail store in Kansas City, spent Friday in the city on his way to Hot Springs for a few weeks rest. Mr. Kellogg reports that he will build one of the finest retail establishments in the West this Spring. Talking of his business, he says it has doubled itself this season, with plenty of first-class stock at all times.

Chairman F. H. Weber called a meeting of the flower show committee and it was decided to return to the subscribers the amount of their subscriptions, thanking them for their interest and stating the reasons why the flower show fell through. The committee will make its final report at the March meeting of the Florists' Club.

James Young, president of the C. Young & Sons Company, reports the seed and plant trade opening well, and that preparations have been made to handle their big Spring business. James Arata, who has charge of the cut flower department, says his department has been kept busy all through the month with plenty of funeral work.

Superintendent Irish of the Missouri Botanical Garden reports that the three vacancies for scholarships at the Garden will be filled, one by the Missouri Horticultural Society and the other two by the director of the Garden. Any worthy young man wishing a scholarship should communicate with any one connected with the Garden.

ST. PATRICK.

Indianapolis.

News Notes.

Tomlinson Hall market men have been augmented by two dealers who were previously connected with the trade. H. Demperley, one of them, was formerly with the Indianapolis Plant & Floral Company. Business has been most satisfactory, as the retail trade consumed about everything not taken by the store men earlier in the day.

John Grande has fine Harrisii lilies for this market. His reserve for Easter is larger than usual.

St. Patrick's Day coming on Sunday should make the green carnation business holier than ever.

Messrs. Henry Rieman, Herman Junge and Carl Sonnenschmidt are to visit the Richmond florists this week.

The Indiana State Florists' Association will hold its monthly meeting on Tuesday, March 5. Arrangements for a Spring show will be completed.

Wm. Don intends renting his greenhouses on College avenue so he may study medicine.

John Heidenreich has about completed a new house for Summer roses. I. B.

The State Board of Horticulture of Utah reports to Governor Cutler that \$25,000 worth of cut flowers were imported into the State during the year 1906.

Fancy or Dagger Ferns



- Dagger Ferns, \$1.25 per 1000.
- Fancy Ferns, \$1.50 per 1000.
- Galax, Bronze or Green. New Crop 75c. per 1000, or \$6.50 per 10000 lots.
- Boxwood, No. 1 Stock, 50 lb. cases, \$3.50
- Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
- Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
- Southern Smilax, fancy stock, 50 lb. cases \$5.50
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- Fancy & Dagger Ferns. Fine Quality \$1.50 per 1000.
- New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.
- Southern Wild Smilax \$3.50 and \$7.00 per case.
- Laurel Festooning, good

- and full, 5c. and 6c. per yard.
- Branch Laurel, 50c. per bundle.
- Leucothoe Sprays, \$1.00 per 100.
- Sphagnum Moss, 50c. per bag; five bags \$2.00.
- Green Moss, \$1.00 per bbl.



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes cut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

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\$1.75 per 1000. Discount on large orders. Leucothoe Sprays \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

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Let us have your standing order for Ferns; we will make price right all through the season. 38 & 40 Broadway. Formerly Miami Ave. DETROIT, MICH. Send for our weekly price list on Cut Flowers. Mention The Florists' Exchange when writing.

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Fancy or dagger, now \$1.35 per 1000. Galax, green or bronze, fine quality. Sphagnum Moss, 60c. per bbl. Trees for Spring planting, all kinds. Cash with order or no goods shipped. All orders by mail or dispatch promptly attended to.

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The American Carnation Price \$3.50

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Club News.

Pittsburg.

The night of the last meeting of the Florists' Club was a cold one and not as many members were present as usual. It was carnation night, and a good display of blooms was made. F. R. Pierson Company of Tarrytown N. Y., showed a nice bunch of the famous Winsor which was pronounced the best of its kind and admired by all present, also White Enchantress, fine blooms. The Bakerstown Rose and Carnation Company staged 14 vases of nice flowers, among them White Perfection, Lady Bountiful, white, pink and red Lawson, Lieutenant Peary, Pink Enchantress, Fred Burki's Flamingo and red and pink seedlings of Murchie, from Sharon. Both of the latter seemed good sorts and a suggestion was made by Mr. Falconer that one should be named in honor of our President Jones T. Jenkinson, gardener to Mr. F. R. Peacock, one of the finest private places in the city, showed a fine bunch of well grown carnations. Albert Lorch had white and pink Lawson; E. C. Ludwig staged blooms such as he gets from his growers daily. The Florists' Exchange showed flowers from their growers. J. Wyland had nice blooms of Lady Bountiful, Mrs. Lawson, Enchantress and Rose-pink Enchantress.

Messrs. Burki and Wyland, who were in attendance at the Carnation Society's convention, stated that the meeting and exhibition were equal to any heretofore. The sessions were better attended and more interesting than for some time. The best and most talked of carnation was the Winsor and each thought it so good that they placed nice orders for it. Other varieties were also shown from our best growers. The Canadian blooms were as good as our own.

A lively discussion took place as to outdoor and under-glass cultivation of carnations. Mr. Wyland thought the time was coming when all plants will be cultivated under glass, and his experience was that it was the best way to grow good stock and the safest. Mr. Burki and several other growers contended that the old way was the best and most profitable, as the blooming plants would have to be thrown out too soon to plant new stock, thereby losing thousands of flowers when there is a fair demand for them.

Mr. Burki, a member of the Carnation Society, suggested that the Florists' Club extend an invitation to that society to hold its convention in Pittsburg, and the secretary was instructed to send an invitation for the year 1909 unless Indianapolis wants it at that time, then the following year.

The Baur Floral Company, Erie, Pa., exhibited their carnation mender showing bloom with calyx wired very neatly, the clip being hardly perceptible. The Maxfield and Diamond Manufacturing Company, Warren, R. I., also showed a device for saving splits, an artificial calyx to slip over the natural one until the flowers are fully developed.

The treasurer's report showed a nice balance in bank and a membership of over 150. Two new members were elected and one proposed. The election of officers resulted in the old ticket being re-elected for the year. The secretary's salary for the new year was raised.

For the next meeting in March, Mr. Falconer was asked to get some one to give a talk on some subject of interest to the members.

The Pittsburg wholesale florists' employees held a dance in the Cyclorama Parlors, Allegheny, last week.

C. Rieger, florists' wire design manufacturer, had a narrow escape from fire last week the building across the street from him was destroyed by fire and the heat broke many lights of glass in his building.

E. C. REINEMAN.

SCRANTON, PA.—The Florists' Club is planning for a flower show, which will take place in the large hall in the Guernsey building, Friday, March 15. This will be the first of its kind that the club has undertaken and it is expected that there will be a beautiful exhibit. Admission will be by invitation only.



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Our Stock is always Large and Complete

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POT MAKERS FOR 140 YEARS
A. H. HEWES & Co., Inc. CAMBRIDGE, MASS.
KIND OF EVEREST WARE FLOREST

Boston.

News Notes.

Active preparations are now making by the exhibition committee of the Massachusetts Horticultural Society for the annual Spring show on March 22, 23 and 24. This exhibition promises to be up to the usual standard. The committee also announces many special features for the chrysanthemum show next Fall, when about \$700 in special prizes will be offered. A special circular will be issued in the near future.

State Forester Wm. F. Rane was the lecturer at Horticultural Hall on Saturday, his subject being "Forestry from a Commercial Standpoint."

Wm. H. Elliott is planning the erection of another enormous greenhouse at his Madbury establishment, and expects to begin taking out the foundation as soon as the frost will permit. Mr. Elliott is now on his annual trip in Cuba, but is expected home in about ten days.

W. A. Manda, South Orange, N. J., was in town the past week, bringing with him a bunch of a new seedling carnation of a fine pink color, which he intended exhibiting at the meeting of the Gardeners and Florists' Club Unfortunately, W. A. does not read the up-to-date trade papers, and so was a day late in getting to Boston. His blooms were exhibited to good advantage in Welch Brothers' store for several days, nevertheless.

W. W. Rawson & Company are sending out this week two booklets entitled "Guide for Vegetable Growing," and "Guide for Flowers," which will be found pertinent and practical by many of their customers and especially amateurs for whom the pamphlets are mainly written.

The meeting of the Gardeners and Florists' Club on March 19, will be devoted especially to carnations and some interesting exhibits are expected.

J. W. D.

Detroit, Mich.

News Notes.

The Detroit Florists' Club gave an entertainment for the ladies on Wednesday, February 20, which was largely attended, there being present about one hundred couples. The committee did themselves proud, as was shown by the program, and consisted of Wm. Brown, Robert Rahaley and Wm. E. Hielscher. They had several talented singers, nearly all of whom had had experience behind the footlights. Master Lewis of Pontiac, a son of one of the members, rendered several popular ballads, which met with great favor and much applause. Refreshments were served.

George Brown, who has become a carnation enthusiast, showed an elegant vase of white Enchantress.

E. A. Fetters has returned to Detroit.
HARRY.

OKLAHOMA CITY, OKLA.—At its recent annual meeting the Oklahoma Nurserymen's Association resolved to support any movement for the inauguration of uniform inspection laws of nursery stock in the United States. The following officers were elected: President, J. A. Lopeman, Enid; vice-president, J. W. Teterick, Blackwell; secretary and treasurer, C. E. Garee, Noble, Okla.



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Bloom Saver

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In Bag, \$18.00 per Ton.

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Price per crate		Price per crate	
1500 2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20		
1600 2 1/2 " " " 6.25	60 8 " " " 3.00		
1600 2 1/2 " " " 6.40		HAND MADE	
1000 8 " " " 6.00	48 9 in. pots in crate, \$3.60		
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500 4 " " " 4.50	24 11 " " " 3.60		
820 5 " " " 4.51	24 12 " " " 4.80		
144 6 " " " 3.16	12 14 " " " 4.30		
	6 18 " " " 4.50		

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

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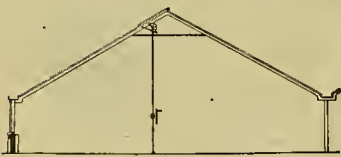
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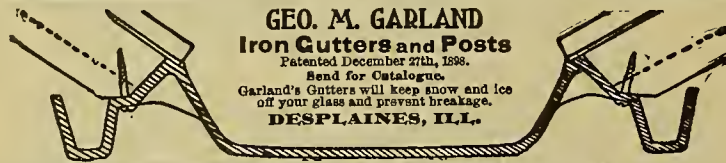


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Manufacturers of **IRON FRAME GREENHOUSES**
Re-enforcing for Concrete "Post and Board" Walls, Ventilating Machinery, Iron Fittings, Iron Purlins and Gutters for wood houses, etc., etc.

Send for catalogue and designs.

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GEO. M. GARLAND
Iron Gutters and Posts

Patented December 27th, 1898.

Send for Catalogue.
Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.

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Standard Greenhouse Boilers

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Holds Glass Firmly
See the Point of PEERLESS
FULL SIZE N.P.
Glassing Points are the best. No rights or lifts. Box of 1,000 points 75 cts. postpaid.
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714 Chestnut St., Philadelphia, Pa.

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New York.

News Gittings.

The reference in this column a few weeks ago to a reported organization of Greek flower buyers has called forth a meaningless sermon from a Boston editor. The subject had become passe, however before the labored editorial appeared, so what was the use of trying to instigate discord and incite factional feeling? It was too late, full explanations had been made, and everybody was happy.

The question most often asked just now is: Why were there not more members of the Florists' Club in attendance at the annual dinner last Saturday night? Out of a membership of over 200, only 50 sat down to the dinner. Surely we ought to do better than that! Those who were present had the time of their lives. The dinner was good, the speechmaking was appropriate to the occasion, and most enjoyable, and the jokes fired at us by the monologue artist were all of the latest vintage—all new and brimful of laughter. With all due respect to the toast-master we think there were one or two slight omissions and that several gentlemen present were disappointed at not being called upon. Ex-president F. H. Traendly should have had an opportunity to speak on the use and abuse of iron and porcelain in modern floral art. Secretary John Young, if called upon, could have given us a most interesting talk on the North American Indian, and whether that aborigine was or was not a detriment to the progress of civilization. Of course, everybody could not be called upon to speak; there was not time, but next year, well, perhaps we can start the dinner earlier.

Fire broke out in the store of A. T. Boddington, seedsman, 342 West Fourteenth street on Sunday morning last, but aside from the breaking of the glass in the front door, little damage was done, as the fire was soon discovered after its start, and was quickly extinguished.

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trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipe. Send for Free catalogue "Key" Boilers, Ventilating apparatus, Tools, Valves and Fittings.

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E. HIPPARD, Youngstown, O.

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J. B. Kidd, who for some time has been with the firm of Wm. Elliott & Sons, has secured the appointment of customs inspector in the seed, bulb and plant department, for the Port of New York, and commenced his duties on Friday, March 1. Mr. Kidd is well known to the trade and his many friends will be glad to hear of his success in securing this appointment, one, by the way, for which he is eminently fitted.

Early in March the plant auction season will be commenced at Wm. Elliott & Sons' mart, 201 Fulton street.

H. O. May, Summit, N. J., with his aunt, left on Friday, March 1, for a trip to Florida.

Visitors this week included J. C. Vaughan, Chicago, Ill.; Mr. Goodwin, of W. W. Barnard & Company, also of Chicago, and W. C. Hall, Montreal.

Myer, the retail florist at 611 Madison avenue, used miniature Japanese landscapes at a dinner decoration one day this week. Twelve of these gardens were used, they being placed through the center of the table. The general effect was pronounced most charming by those who were present.

The H. H. Berger Company, seed and bulb merchants at 47 Barclay street, will move on the first of May to more commodious quarters at 70 Warren street, first floor, near West Broadway.

Grand Rapids, Mich.

The Florists' Club met on February 18, twenty-six being present. This gives lots of hope for the future of the new club. At this meeting the vegetable growers held sway for the most part. Many interesting discussions took place and lots of useful information changed hands. The club decided to have a small exhibition the third Monday in April in their rooms. The show will consist of Spring bedding stock and various vases of cut blooms, also exhibits of choice vegetables made by the vegetable men. A committee was appointed to look after the details and solicit prizes from the business men in town.

G. F. Crabb is now on the road to recovery from his severe attack of pneumonia, and entertains hopes of being around in two weeks.

A number of prominent vegetable growers of this city have formed a stock company to more easily facilitate the marketing of their goods. The name of this new company is the Grand Rapids Greenhouse Company, Ltd., and it is capitalized at \$160,000 with a paid in capital of \$90,000. The officers are, president, F. M. Strong; vice-president, Frank J. Cook; treasurer, Wm. G. Taylor; manager, S. A. Perry. The company will confine itself for the present to vegetables, but in the Fall will grow chrysanthemums, most of which will be marketed in Chicago. The greenhouses of each member will be run as before, but will act as a feeder for a large central plant, which will be erected as soon as a desirable place with good shipping facilities is found. A newspaper report gave Alfred Hanna, of the Grand Rapids Floral Company, as a member, but this Mr. Hanna denies. The company expects to sell the balance of its stock in and about Grand Rapids.

A. F. CRABB.

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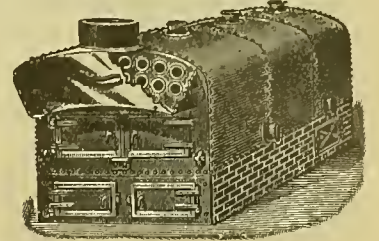


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The A. T. STEARNS LUMBER CO.
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ASPARAGUS PLUMOSUS, 2½ inch pots, \$3.00 per 100.
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CLEMATIS PANICULATA, 4 inch pots, \$1.50 per doz., \$10.00 per 100; 3 inch pots, 75c. per doz.; \$5.00 per 100.
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GERANIUMS, best varieties from 3 inch pots, \$4.00 per 100.
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ROOTED CUTTINGS: Heliotrope, dark blue; Fuchsias, Elm City, Cupheas, Parlar Ivy, Agaratum, blue and white, \$1.00 per 100.
SEEDLINGS from flats: Asparagus Sprangeri \$1.00 per 100.
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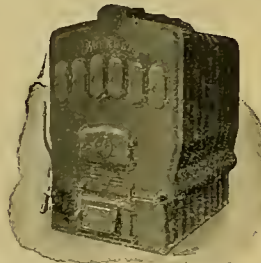
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1908

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

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

Vol. XXIII. No. 10

NEW YORK AND CHICAGO, MARCH 9, 1907

One Dollar Per Year

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If you have not already purchased a stock of this, you should lose no time do-

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Eochantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enochantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR. We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. February delivery, \$12.00 per 100, \$100.00 per 1000.

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Now is the time to get *Kaiserin Augusta Victoria* for early summer flowering. I have a large quantity of 2 1/4 inch grafted and own root stock now ready for shipment.

Have a splendid stock of *Asparagus Plumosus Nanus* seedlings, seed saved from my own plants.

SEND FOR PRICES

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First size, 4-6 } Write for prices
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Variegated Leaved Per 100, \$1.25
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Priniceps, medium bulbs	7.50	70.00
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Augusta	2.50	20.00
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Sound Bulbs; Live Center Shoots.

5 to 7 inches in circumference	Write for	\$1.80
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Add 10 per cent. if shipped from Chicago.

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Large flowering or Aster Varieties.
50c. per doz., \$3.00 per 100.

Arabella, Crimson Salmon; very dwarf.
Ashbury, Sulphur-white.
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Ethel, Exquisite violet-red; long sprays.
Findon, Violet rose.
Fred J., Red orange.
Gladya, Flushed pearl.
Gertrude, Pure white, open center.
Hester, Pearl-white, shaded flesh.
Hijoa, Beautiful primrose pink.
Jerry, Rose, lilac.
Julia Lagravere, Crimson maroon.
King Henry, Rich rose pink.
Lady Naylor, White.
Louisa, Large white, long stem.
Mrs. Porter, Bright bronze.
Mrs. Snyder, Splendid early yellow.
Penelopa, Large-white, tall.
Peto, Rich bronze.
Paragon, Early white, open center.
Prince of Wales, Best pure white.
Queen of Bnl, Violet rose.
Salem, Silver rose, long quilled.
Sir Michael, Silver rose, quilled petals.
The Hub, Fine white, open center.
Willie, Lilac and white.

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Small flowering or Button Varieties.
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Ermine, Bright orange-scarlet.
Golden Pheasant, Deep orange-yellow.
Henrietta, Bronze yellow edge.
Jamaa Boon, Pure white.
Jeannetta, Silver bronze and rose.
Little Pet, Rich violet red.
Rhoda, Pink shaded white.
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ANEMONE VARIETIES

50c. per doz., \$3.00 per 100.
Earl, Pearl-white, silver-rose, center dwarf.
Lady Olivia, Beautiful white.
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50c. per doz., \$3.00 per 100.
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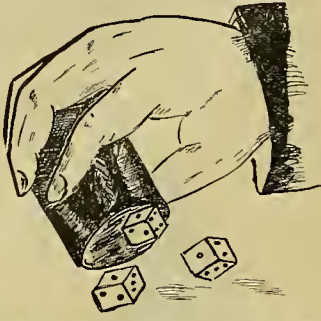
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"Your Midsummer Aster has been a great money-maker for me. For every flower that I have brought into the Boston Market I have received from \$1.00 to \$1.50 per hundred more than for any other variety raised from seeds purchased elsewhere". J. W. Simpson.

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1000 in case, @ \$12.00 per 1000.

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ASPARAGUS PLUMOSUS NANUS

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From the Rockies

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ROOTS—4 and 5 year old, doz. \$1.25; 100 \$3.00, by express.

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Royal Red.....	.25	.70	2.25			
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ana.....	.40	1.25	4.00			
S. & W. Co.'s						
Earliest of All	.40	1.25	4.00			
Trophy Selected	.25	.70	2.25			

These prices include delivery anywhere in the U. S. and our stock of Tomato Seed is the very best there is to be had. We would appreciate a trial order.

STUMPP & WALTER CO., 50 Barclay St., N. Y.

LEONARD SEED CO.

Growers and Wholesalers of Superior Garden Seeds

Seedsman and Florists Supplied at the shortest notice and at right prices.

Our Catalogues are now ready and are mailed upon request.

Flower Seeds—Onion Sets 79 East Kinzie St., CHICAGO

145 W. Randolph St.

Mention the Florists' Exchange when writing.

SEEDS WHICH SUCCEED

THIS MEANS LANDRETHS' SEEDS GROW AND ARE GOOD

Mention this paper when you write.

ADDRESS, BRISTOL, PA.

LAWN GRASS SEED

In Bulk and Packages

Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

THE ALBERT DICKINSON CO. CHICAGO

NEW STOCKS

FLOWER SEEDS FOR FLORISTS

Wholesale Catalog Ready

Send for it today. But first read our advertisement on page 125 in the Florists' Exchange for January 26th, 1917. It is worth reading.

JAMES VICK'S SONS

Seedsman

ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices

mailed only to those who plant for profit.

Mention the Florists' Exchange when writing.

W. & D.'s Specialties for Forcing

- Mignonette "New York Market"
- Sweet Pea "True" Christmas Flowering
- Ing (Pink and White)
- Tomato "The Doc" Tomato "Siding Castle"
- Mushroom Spaw "English" and "Pure Culture"

Send for 1917 Catalogue.

WEEBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

VERBENA MAMMOTH

COLORS or MIXED.....	oz.	\$	.75
Petunia Double Large Fl. Fringed, t. pkt.			1.00
Single Large Fl. Fringed.....			.50
Salvia Splendans.....	oz.		1.00
Stocks Large Fl. 10 Weeks.....	t. pkt.		.25
Dwarf Snowflake.....	"		.25
Begonia Dwarf Vernon.....	"		.25
Vulcan.....	"		.25
Erfordii.....	"		.25

W. C. BECKERT, Allegheny, Pa.

Mention the Florists' Exchange when writing.

If you have not received our florist list, write us; we will mail it.

H. E. FISKE SEED CO.,

12 & 13 Faneuil Hall Sq.
BOSTON, MASS.

ASTER SEED

Our descriptive price list of High Grade Aster Seed is now ready and will be sent free on application. Try our new varieties: **CARDINAL, SUNSET and ROSY CARMINE BRANCHING**; they are winners. Price per packet, 25c.; two packets for 40c. Pointers on how to grow ASTERS successfully sent free with every order

VICK & HILL CO.

P. O. Box 613 ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

March 9, 1907

FRESH IMPORTATION Mushroom Spawn

Absolutely Reliable—Used by the Most Critical Growers



English Millitank, 10 lbs. 75c.; 25 lbs. \$1.50; 100 lbs. \$6.00; 1000 lbs. \$55.00
 Pure Culture, Per 10 bricks \$1.50; 25 bricks \$3.50; 50 bricks \$6.50; 100 bricks \$12.00
 Write for quotations on large lots. Cultural directions sent with every order.

HIGH GRADE Lily of the Valley Pips

None Better Offered to the Trade
 Selected Hamburg for Forcing, per 100 \$1.25; per 1000 \$11.00; per case, 2500 Pips \$25.00.
 Selected Berlin, Unsurpassed Quality, per 100 \$1.50; per 1000 \$14.00; per case 2000 Pips \$27.00.

New Crop Asparagus Plumosus Nanus (Northern Greenhouse Grown). Selected Seed, per 100 seeds 50c.; per 1000 seeds \$3.50; per 5000 seeds \$16.00.
 Asparagus Sprenger, per 250 seeds 25c.; per 1000 seeds 75c.; per 5000 seeds \$3.00. See our Begonia and Gloxinia offer in last issue.

JOHNSON SEED COMPANY, 217 Market St., Philadelphia, Pa.

Herbert Johnson of the late firm of Johnson & Stokes, President.
 Mention the Florists' Exchange when writing.

BULBS BEGONIA TUBEROUS ROOTED GIANT STRAIN

Single, separate colors, six varieties.....	12 100 1000	\$0.40 \$2.50 \$22.50
Single, mixed.....		.35 2.25 20.00
Double, Tuberosus Begonias, separate colors.....		.60 4.50 40.00
Double Tuberosus Begonias, mixed.....		.55 4.00 38.00

GLOXINIAS Giant Flowering

Separate colors, fine sorts.....		.60 3.75 35.00
Gloxinias, mixed.....		.50 3.00 28.00

CALADIUM ESCULENTUM

Caladium Esculentum, with fine center shoots.		
	12 100 1000	
5 to 7 inch.....		\$0.30 \$2.00 \$15.00
7-9 inch.....		.50 3.00 28.00
9-12 inch.....		.75 5.00 48.00
Monsters.....		1.75 12.00
Fancy Leaved Caladlums; 30 choice named sorts.....		1.50 10.00
Fancy Leaved Caladlums, mixed.....		1.25 8.00

TUBEROSES

Tuberose, Dbl. Pearl, 4 x 6 inch	100 1000	\$1.10 \$9.00
Tuberose, Dbl. Pearl 3 x 4 inch		.60 4.00

Send for complete Flower Seed Catalogue.

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

Mention The Florists' Exchange when writing.

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing GROFF'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM BERLIN, N. Y.

SEED PANSY PLANTS

THE JENNINGS STRAIN
 25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted, and first-class in every respect. First size, large plants, in bud and bloom \$1.00 and \$1.50 per 100; by express only. Second size, strong plants, 100 by mail, 80c.; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

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

75,000 Gladiolus Bulbs

1 to 1 1/2 inches \$2.00 per 1000; Larger sizes at proportionate prices; all very fine light mixed Lemoines and Gaudavensis. Cash with order.

I. & J. L. Leonard, Iona, N. J.
 Mention The Florists' Exchange when writing.

CANNAS FOR PRESENT STARTING

ROSE AND SALMON		
Mlle. Berat.....	12	100
Louise, the finest rose grown 5 to 6 ft.....	50.35	\$2.25
Merrith Washington, 5 feet.....	.40	3.00
RED AND SCARLET		
A. Bouvier, 5 to 6 feet.....	.35	2.25
Chas Henderson, 4 feet.....	.30	2.00
Beaute Polveine, 4 feet.....	.35	2.25
Crimson Badder, 4 ft.....	.45	3.00
SCARLET AND YELLOW		
Mme. Crozy, 5 feet.....	.40	2.75
Souvenir d'A. Crozy, 6 feet.....	.45	3.00
Florence Vaughan, 5 feet.....	.30	2.00

ORCHID CANNAS		
Allemania, 6 feet.....	.35	2.50
Austria, yellow, 5 feet.....	.30	2.00
Italia, 5 feet.....	.30	2.00
Kato Gray, finest Orchid flowering, 5 to 6 feet.....	.40	2.50

BRONZE FOLIAGE		
Egandale, 4 feet.....	.50	3.50
Shanadoah, 5 feet.....	.35	2.50
Blisk Beauty, 4 to 5 feet.....	1.00	6.00
Bronze, foliage mixed.....	.40	2.50

SEEDS

Asparagus Plumosus Nanus, greenhouse grown.....	100 1000	.50 3.50
Asparagus Plumosus Nanus, open air crop, ready March 15th.....		.25 1.75
Asparagus Sprenger.....		.15 .70
Letania Borbonica.....		.30 2.00
Kontis Belmoreana.....		.75 6.00

We are the sole proprietors and handlers of the famous

"Excellent" LILY OF THE VALLEY.

Order at once if you wish any next season at \$13 per thousand, f. o. b. New York.

JOHN SCHEEPERS & CO., 4 and 6 Old Slip, New York.

IF YOU NEED

Summer-Flowering Bulbs

German or Japan Iris, write us for prices. We have the stock and can give you satisfaction.

JOHN LEWIS CHILDS, Floral Park, N. Y.

TREES, SHRUBS and PRIVET

Large Lindens, Birch, Catalpas, Oaks, Maples, Etc.

One of the largest stocks of evergreens in this country.
 75,000 AZALEA AMOENA of all sizes, 6c. to \$3.00 each.
 BERBERIS THUNBERGII, 12 to 18 in., \$5.00 per 100; 18 to 24 in., \$8.00 per 100; 2 ft., \$10.00 per 100; 2 to 3 ft., \$12.00 per 100.
SPECIAL PRICES on Spiraea Van Houttei and Viburnum Pilcatum in quantities.
 JAPAN MAPLES 6 to 6 ft. See wholesale list.
 DEUTZIA LEMOINE extra heavy at \$7.00 per 100.

Caryopteris Mastacanthis field grown at \$6.00 per 100.
 PRIVET, 3 to 4 ft., \$30.00 per 1000; 4 to 6 ft., \$40.00 per 1000; 5 to 6 ft., \$50.00 per 1000.
 PRIVET Regellana, 18 to 24 in., \$8.00 per 100; 2 to 3 ft., \$6.50 per 100; 2 to 3 ft. high and 2 to 3 ft. across, \$10.00 per 100.
 600,000 HERBACEOUS PLANTS. Send for our wholesale list.
 LARGE WISTARIA, 6-year-old, \$20.00 per 100.
 DOGWOOD of all sizes.
 CATALPA BUNGEII of all sizes.

ELIZABETH NURSERY COMPANY, Elizabeth, N. J.

Mention the Florists' Exchange when writing.

Onion Sets AT RIGHT PRICES

VAUGHAN'S SEED STORE, 14 Barclay St., N. Y.
 Mention the Florists' Exchange when writing.

C. C. Morse & Co. SEED GROWERS

171-173 Clay St., San Francisco, Cal.
ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
 Warehouses, Santa Clara. Farms and Farm Headquarters, Carnadero, near Gilroy
 Mention the Florists' Exchange when writing.

ASTER SEED

New Comet Express, new early Aster, as early or earlier than Queen of the Market; flowers much larger. White, 1/2 oz., 25c.; 1 oz., \$1.50. Queen of the Market White, Rose, Crimson, Purple 1/2 oz., 15c.; 1 oz., 50c. Branching Aster, White, Shell pink, Lavender, Crimson, 1/2 oz., 25c.; 1 oz., 80c. Above are best Covent Garden strains, imported direct from Watkins and Simpson London.
MONADNOCK GREENHOUSES, Keene, N. H.
 Mention the Florists' Exchange when writing.

ASPARAGUS SEED

1906 CROP		
Plumosus Nanus, True.....	100 1000	50c. \$3.50
Sprenger.....		15c. .75
Cycas Revoluta Seed.....		\$2.50 22.50

Headquarters for all the best flower seeds. 100-page seed buyer's guide free.

MOORE & SIMON, Seed Growers, 339 Market St., Philadelphia
 Mention the Florists' Exchange when writing.

To The Trade

Just issued—our special price list giving our position on

ONION SEED

We shall send this to the Trade, being unable to make the personal visit contemplated. Please write for it.

A. J. Pieters Seed Co., Hollister, Cal.
 Mention the Florists' Exchange when writing.

S. M. ISBELL & CO. JACKSON, MICH.
 Seed Growers for the Trade

BEANS, CUCUMBER, TOMATO, Radish, Peas, Muskmelon,

Squash, Watermelon, Sweet Corn.
 We are now booking orders for 1907. Fall delivery. Send for Contract Prices also surplus list.

Mention the Florists' Exchange when writing.

HOW TO GROW MUSHROOMS

Price, . . . 10 cents.

A. T. De La Mare Ptg. & Pub. Co. 2-8 Duane St. New York.

TREE SEEDS

Send to-day for our Trade Price List and our Illustrated, Descriptive Catalog
Otto Kattenstein & Co., Atlanta, Ga

Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

The Australasian tariff imposes a duty of one shilling and sixpence per cental on canary, hemp, and rape seed; and on cotton seed four shillings.

All agricultural products imported into Egypt are subject to an ad valorem rate of 8 per cent.

YOKOHAMA, JAPAN.—The Shanghai (China) branch of L. Boehmer & Company has been acquired by Theo. Eckardt, who will continue the business under the name of the Shanghai Nurseries, with officers at 103 avenue, Paul Brunat, as before.

BULLETIN 25 of the University of Nebraska Agricultural Experiment Station, at Lincoln, deals with the subject of "The Seed of Cheat, Meadow Fescue and Brome Grass." It is stated that cheat, or ches, seed is being largely used as an adulterant. The bulletin contains illustrations showing seeds and spikelets of cheat, brome grass, and meadow fescue.

THE COLORADO GRAIN AND SEED GROWERS' ASSOCIATION has been organized to encourage the general use of improved seed with a view to largely increasing the yield and improving the quality of the grain crops of Colorado. Those interested in this movement should write F. Knorr, Secretary of the State Association, Fort Collins, Colorado, for rules and regulations which have just been issued, enclosing stamp to prepay postage.

LOS ANGELES, CAL.—An effort is making by seedmen and growers of ornamental stock to form a society for mutual protection in the trade. Charles Winsel has been elected president and Theodore Payne, secretary. The Morris & Snow Seed Company has sent out of its initial catalogue 25,000 copies which contain some original illustrations of trees as they grow on this coast.

The California Seed-Growing Company of Westminster, has planted 2,800 pounds of onion seed this season. Last year this firm shipped 1,000 tons of onion sets to Texas; how many were sold in this State the writer does not know. Mr. Murdoch, who is considered an authority on vegetable growing in this part of the state, is superintendent of the seed farm.
 P. D. B.

IMPORTS OF SEEDS, BULBS, ETC.—February 26, 1907.—J. M. Thorburn & Co., four bags and three packages seed; Stump & Walter Company, six cases seeds; J. M. Thorburn & Co., 13 bags grass seed; Vaughan's Seed Store, one case seed. February 27, 1907.—Aug. Rhotert, two packages seed; H. Frank Darrow, 22 boxes seeds; McHutchinson & Company, two cases plants; H. M. Baker, 150 packages seed; H. Frank Darrow 22 packages seed; A. Rolker & Sons, 21 packages plants; L. J. Spence 42 packages plants; F. B. Vandegriff & Company, 44 packages plants; Wm. Elliott & Sons, one case plants; Holland-American Line, 10 barrels garden seeds; Reed & Keller, nine cases.

February 28, 1907—Maltus & Ware, 16 cases plants.

EXPORTS OF SEEDS, BULBS, ETC.—February 25, 1907.—To Darmstadt, one barrel seeds, value, \$209 and five packages seeds, value, \$218. To Hamburg, 3,305 bags grass seed, value, \$20,053, 20 bags seed, value, \$5.184 and 371 bags clover seed, value, \$5.184. February 26, 1907.—To Copenhagen, 19 barrels bulbs, value, \$100; 283 bags grass seed, value, \$1-325. February 27, 1907.—To Buenos Ayres, 38 bags of seed, value, \$648; to Calcutta nine packages seeds, value \$116.

February 28, 1907.—To Buenos Ayres, 16 bags grass seed, value, \$120; to Bremen, two cases seeds, value, \$525; to Cartagena, 20 packages seeds, value \$225; to Hamburg, 1514 bags grass seed, value \$6768; to London, 50 bags grass seed, value \$310; to Ystad, 125 bags grass seed, value \$2,000.

March 2, 1907.—To Glasgow, 34 bags clover seed, value, \$570; to Havre, three packages seeds, value, \$121; to Liverpool, two cases seeds, value, \$173; to London, 231 bags grass seed, value, \$1,550; 50 bags clover seed, value, \$815; 19 bags seed, value, \$140.

Free Seeds.

The bloated trusts they may restrain, The railroads they may fetter, Make common grafters howl with pain And promise to do better. Keep most disbursements to our needs, But still we'll have our garden seeds.

Economy may be the cry, But still the mails will carry The seeds they might prefer to buy To Tom and Dick and Harry. Meanwhile the prudent farmer feeds His chickens with those garden seeds.

Hard wheat they send to Maryland And rice to North Dakota, With cotton for the strong demand In northern Minnesota. No sense of fitness e'er impedes The distribution of the seeds.

But anything you want to grow You only need to mention, Your congressman is glad to show Constituents attention. In lieu of other acts and deeds He'll send a sack of garden seeds. —KENNETH HARRIS, in Chicago Daily News.

Free Seeds Continued.

The Bucks County, (Pa.) Gazette of March 1 contains the following information concerning a bill which Congress may have to consider in the not far distant future:

As the almost peremptory demand on Congress for Free Seeds by the entire people of the United States, without regard to section, sex, color or condition, is irresistible, it is under consideration not only to continue for all time the Congressional Free Seed Distribution, but to increase the issue in the future up to 500 millions of packets that each individual man, woman and child, and even the down-trodden emigrant, his wife and children newly arrived from Sicilia, Romania or elsewhere, can have as many as six packets apiece, our Legislators and the Honorable Secretary of Agriculture believing that in no other way can be promoted the great interests of agriculture.

Congress with its paternal foresight realizes that this free distribution of garden seeds of ten times the value of any past issue will so completely satisfy the nation's want for garden seeds that it will result in the drying up of the business of nearly all seed sellers, whether wholesale or retail. Consequently, the following bill it is said, at the instigation of the big hearted Secretary of Agriculture, is believed will be passed: 63d Congress 2nd Session,

H. R. 4-11-44

In the House of Representatives John Wesley Golt introduced the following Bill:

A BILL for the erection of National Homes exclusively for broken down Seedsmen.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled.

As the contemplated increase of the Congressional Free Seed Distribution to 500 millions of packets will result, it is assumed, in the shutting up of many private Seed Establishments, the proprietor of which should in view of Congress be taken care of as having been forced out of their established business, Congress in line with its established policy will assume proper measures of relief.

To this end the Honorable Secretary of Agriculture is authorized and empowered to purchase three sites of proper size and location respectively in the neighborhoods of Atlantic City, Chicago and St. Louis, none of which pieces of land shall exceed the purchase price of \$100,000.

The Honorable Secretary of Agriculture after the purchase of the three properties is authorized and empowered to erect of proper dimensions upon each tract a building of sufficient size and appointments to accommodate five hundred families of broken down seedsmen, each family estimated in number of five persons.

When these structures are completed and ready for occupancy, the Honorable Secretary of Agriculture is authorized and empowered to appoint a Commission to examine applicants for accommodation, only those being admitted who can prove that they were once engaged in the business of either wholesaling or retailing seeds.

When these National Homes are completed, if the applicants be in excess of the accommodations, the excess number shall be accommodated in the outlying sheds; but if in any one of the locations of Atlantic City, Chicago or St. Louis there be not sufficient applicants to fill

BEGONIA BULBS

These should be planted more extensively by florists as the plants are very salable and bring good prices.

	SINGLE FLOWERING		DOUBLE FLOWERING	
	Doz.	Per 100	Doz.	100
Crimson.....	\$0.40	\$2.75	\$23.50	\$5.00
Orange.....	0.40	2.75	23.50	5.00
Scarlet.....	0.40	2.75	23.50	5.00
Pink.....	0.40	2.75	23.50	5.00
White.....	0.40	2.75	23.50	5.00
Yellow.....	0.40	2.75	23.50	5.00
Mixed.....	0.35	2.50	22.00	4.00

Asparagus Plumosa Seed

Fine, plump seeds, carefully harvested under cover, sure to germinate.

	100	1000	5000
Extra quality.....	\$0.50	\$4.00	\$19.00
Good.....	0.40	3.00	13.75

Carnation Bands

Add largely to the value of carnations which are burst. Everyone can be made salable.

1000, 15c.; 2000, 25c.; 4500, 50c.; 7000, 75c.; 10,000, \$1.00. All postpaid.

Send for our Florist's Wholesale and General Catalogue. Every florist should have a copy.

HENRY F. MICHELL CO., 1018 Market St., Phila., Pa

Mention the Florists' Exchange when writing.



Stokes' Standard Aster Seed

Stokes' Late Branching Aster—Choice, American-grown stocks in separate colors, 75¢ per oz., mixed, 60¢ per oz.

Truffaut's Panony Perfection Aster—A splendid florist Aster, long-stemmed sort, in separate colors, \$1.50 per oz., mixed, \$1.25 per oz.

NEW CROP ASPARAGUS PLUMOSUS NANUS
Greenhouse Grown, per 100 set ds, 50c., per 1000 seeds, \$3.50, per 5000 seeds, \$15.00

SALVIA BONIFRE
The best Dwarf Salvia, my own "Fluoracrot" grown seed, trade pkt. 25c., per oz., \$1.50, per 1/2 lb. \$5.00

A NEW TYING MATERIAL

Try it on your Easter plants; pleasing, bright green color; stronger and cheaper and better in every way than string or Raffia.

Sample Free—It is put up in coils and on reels. In handling it the coil is placed in the pocket and the tape drawn from the middle. The brass reels are hung from the vest buttonhole.

Price—Coils (enough for tying up 150 plants) 5c. each. 50c. per doz. (by mail). Reels (250 yards), 75c. each, \$8.00 per doz. (by express).



Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

Mention the Florists' Exchange when writing.

the structure, the Honorable Secretary of Agriculture is authorized and empowered to at once stop the sale of Seeds in that locality under injunction processes and cast any recalcitrant seedsmen into those Houses which a paternal nation has provided for them.

European Notes.

The rush of the past few days, the result of mild open weather, has been checked by a return of Winter, and with 15 degrees of frost. Spring sowings are at a standstill. As we have no snow to protect our growing plants, and midday is fine and warm, it looks rather bad for the ragged remnant that decorates (?) our fields. We shall see.

EUROPEAN SEEDS.

CATALOGUES RECEIVED.

J. T. LOVETT, Little Silver, N. J.—Trade List of the Monmouth Nursery.

PETER HENDERSON & COMPANY, New York.—Farmers' Manual for 1907. Illustrated.

JOHN D. IMLAY, Zanesville, O.—Illustrated Catalogue of Seeds, Bulbs, Plants, etc.

MRS. H. A. JAHN, New Bedford, Mass.—Catalogue and Price List of Dahlias; all the classes are represented.

WILFRED WHEELER, Concord, Mass.—Catalogue of Northern grown Strawberry Plants, Asparagus Roots, Small Fruits, etc. Illustrated.

JOHN H. SIEVERS & COMPANY, San Francisco, Cal.—Catalogue of Carnations, Begonias, Pelargoniums, Palms, etc., including all the latest novelties and best standard varieties.

SHANGHAI NURSERIES (Theo. Eckardt, proprietor), Shanghai, China.—Catalogue of Shrubs, Ornamental Plants, Herbaceous Plants, Fruit Trees, Roses, Palms, Japanese Plants, Bulbs, Etc.

ELLWANGER & BARRY, Rochester, N. Y.—List of Novelties and Specialties. Illustrated, including colored plate of Rose Frau Karl Druschki. A very interesting and valuable catalogue.

RENNE & THOMPSON, Providence, R. I.—Illustrated Catalogue of Field, Garden, and Flower Seeds, Hardy Perennial Plants, etc. This is the initial catalogue issued by this new concern, and reflects great credit on their ability and good judgment.

THE WILLIAM H. MOON COMPANY, Morrisville, Pa.—Catalogue of Trees, Shrubs, Roses, Ornamental Vines, Reeds and Grasses, Perennial Plants, Hardy Fruits, etc. A beautifully illustrated catalogue, giving full descriptions of the subjects enumerated; the offerings in the different sections being very extensive and comprehensive.

THE COTTAGE GARDENS COMPANY, Queens, N. Y.—Nursery Book for 1907—A beautifully gotten up catalogue of Specimen Ornamental Trees, Evergreens and Shrubs, Vines, Climbers, Hardy Herbaceous Plants, Peonies, Fruits, Etc. This firm has over one hundred acres devoted to specimen nursery stock. The lists of offerings in every section are most complete and comprehensive, and great care has been exercised in the nomenclature and descriptions furnished. Valuable planting instructions as well

LILIES

	Per doz.	10
Auratum, 9-11.....	\$1.00	\$8. 00
Speciosum Album, 7-9.....	.85	6.50
" " 9-11.....	1.25	10.00
" " Rubrum, 7-9.....	.75	5.50
" " 9-11.....	1.00	8.00

PERENNIAL GARDENS CO., TOLEDO, O.
Mention the Florists' Exchange when writing.

Gladioli—NOTHING BETTER ANYWHERE.

Cannas—VERY BEST SORTS.
Carnations—THE MONEY MAKERS.
Paeonias—1200 sorts, finest sorts in liberal supply.

Send for a list of our offers.
C. BETSCHER, Canal Dover, Ohio.

Mention the Florists' Exchange when writing.



MUSHROOMS

Grown Profitably Under Greenhouse Benches
Use the waste space you are now heating to pay your coal bill! Being the largest grower in the United States and having had ten years of practical experience, here is an opportunity to acquire a thorough practical knowledge of this paying business. Send for free book giving particulars and information, how to start, cost, etc. Address JACKSON MUSHROOM FARM 3243 N. Western Avenue, Chicago, Ill. Mention the Florists' Exchange when writing.



Lambert's Pure Culture Mushroom Spawn.
Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized.
Has never failed to run. Sold by Leading Seedmen.
Practical instructions on "Mushroom Culture" mailed free on application. American Spawn Co. St. Paul, Minn.

as cultural notes are provided, and the catalogue is profusely and handsomely illustrated by half tone engravings. The cover designs—blue spruce in color, and a view of the company's general offices and grounds—are neat and attractive. The catalogue is excellently printed, and its general get up and the complete and interesting character of its contents reflect much credit on this enterprising concern.

NURSERY DEPARTMENT.

Conducted by Joseph Mehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yate, Rochester, N. Y., treasurer.

The Lime-Sulphur-Salt Wash and its Substitutes is the subject discussed by J. K. Haywood, Chief of Miscellaneous Laboratory, in collaboration with the Bureau of Entomology, Department of Agriculture, in Bulletin No. 101, Bureau of Chemistry.

AMERICAN POMOLOGICAL SOCIETY.

The executive committee of the American Pomological Society have decided to hold the thirtieth biennial meeting of this national organization on the grounds of the Jamestown Exposition Company, September 25-26 1907. The desirability of this as a meeting place was very thoroughly canvassed. Invitations from various cities were very carefully considered, and the agreement to call the next meeting of the society at Jamestown is practically unanimous. While it is conceded that expositions do not, as a rule, furnish the most favorable conditions for business conventions, yet there are sufficiently cogent reasons why the policy of the society favors Jamestown at this time. The exposition, more than any of its kind, will bear upon the historical and the educational—features always promoted by the American Pomological Society. Again, the next meeting of the society should go to the South. It is a long time since the society met in that region, and this seems an auspicious time for returning to it. The horticultural associations of the immediate section promise to unite in making the convention one of the most memorable in its history.

A number of important matters will come before the society at this time. Reports on the grading and inspection of fruits for home distribution and export purposes are due, and the members of the committee having this matter in hand have been working earnestly for the purpose of making a report which will record substantial progress. The committee on judging and score cards will add to the excellent reports already presented and include a number of fruits not yet dealt with.

The history of fruit growing in this, one of the oldest sections of the country, is exceedingly interesting and carries with it many important lessons. This will be presented by competent authorities as time permits. In addition various matters bearing upon the technical phases of fruit growing will be presented and discussed. It is not the intention of the executive to hold three sessions each day, but rather to confine the work to morning and afternoon sessions, allowing the evening to be free for such other recreations or duties as may offer themselves.

The exposition authorities have met us fully half way in the matter, and we shall have ample facilities for holding our meetings and for making a creditable exhibit. The sessions will be held in the convention hall, and the exhibit will be staged in the interior court of the States Exhibit building.

The latter part of September will be a desirable time to visit the exposition. The many natural attractions of the region, and the adequate hotel facilities all promise a pleasant and agreeable time. Later circulars will give hotel facilities and transportation arrangements, and additional particulars. At the present moment, we are to bear in mind that this meeting will be the most important pomological event of the coming year, and we must plan to attend it.

The Society for Horticultural Science, (Dean L. H. Bailey of the Cornell College of Agriculture, Ithaca, N. Y., president, and Professor V. A. Clark of the Arizona Experiment Station, Tucson, Ariz., secretary, will meet in joint session with the American Pomological Society this year. This general announcement is made under the authority of the executive committee—Captain C. L. Watrous, Des Moines, Ia., chairman, L. A. Goodman, 4000 Warwick boulevard, Kansas City, Mo., president of the society, and John Craig, Ithaca, N. Y., secretary.

Horticultural Notes.

Hyacinthus candicans is one of our hardest perennials not requiring the care of a cold frame in Winter, as one of our European horticultural journals says it does.

Convolvulus arvensis, the European bindweed, is a great pest wherever it gets a foothold, as every bit of its roots will make a plant. Constant hoeing it off as soon as seen above ground is the only way to exterminate it.

Gladiolus communis is a pretty, hardy species. It flowers in June, bearing spikes of purple blossoms, of a lighter color inside the segments.

There are several heaths quite hardy in the Middle States, notably the *Erica vagans*, *E. carnea*, *E. stricta* and the common heather, *Calluna vulgaris*. But though hardy they miss the moist air of their native countries, and so are thankful for a little protection from the dry winds of our Winters—protection which a little brush scattered over them gives.

Nurserymen find a growing demand for black walnut seedlings. It comes from the use of the lumber for so many purposes. Although the English say they prefer their own walnut, *Juglans regia*, it is known that great quantities of the black walnut are used for gun stocks there, as here; and seedlings of it are now exported to that country. A manufacturer of gun stocks here states that he uses our black walnut for nine-tenths of all he makes.

A Bristol, Pa., correspondent mentions that the rose *Gloire de Dijon* is quite hardy there, as it is here in Philadelphia. It is the only hardy climbing

Then every year or so one of these shoots should be cut back to where it started from, that a fresh shoot may develop from it. Unless this is done such roses will soon become bare of shoots at the base, all being at the top, and often out of reach and close contact. In this respect they are like a grape vine; and both need pruning in the same way.

Chamaecyparis (Cupressus) Lawsoniana.

Our old friend, *Cupressus Lawsoniana*, is now recognized as being properly *Chamaecyparis Lawsoniana*, but in general practice its common name, Lawson's cypress, still holds good, and this name, like the Douglas spruce for the old *Abies Douglasii*, is too endeared to many to be changed for any other.

The photograph we had taken of a specimen growing at Philadelphia does not represent the illustrations of the tree as usually seen, and for the reason that the tree was made of bushy growth when young by pruning back the central shoot, causing a growth of several strong shoots as leaders instead of but one, as is generally seen. When with but a single leader and the tree is in vigorous health, a specimen of broad conical outline results, of great beauty. Our illustration represents but a moderate tree, but it pleases us to present it to our readers to prove that this cypress can be grown in this latitude, so many persons believing that it is not of sufficient hardiness for the purpose. Because of this belief not many of it have been set out, and really, this is the only nice one we know of in this vicinity. It is growing at Chestnut Hill, the highest point in Philadelphia County, and a glance at it will be sufficient, we think, to satisfy any one as to its hardiness; and it has to be said, too, that it has been in its present position for nearly ten years.

There is no question that there are varieties of trees much hardier than others, for such examples are met with frequently, and probably this one specimen represents a hardy type of the Lawson's cypress; and it is the one to be propagated from. We are satisfied our readers will be pleased to see this picture and to know from it that it is quite possible to grow this tree in this vicinity.

The Lawson's cypress is a native of Northern California and Washington and vicinity, and in its wilds is not subject to great cold, but evidently, it does not mind zero occasionally, for the one pictured has stood several degrees below zero more than once.

In its native home the Lawson cypress grows to a height of nearly 100 feet. Its timber is considered very valuable, and for this reason the seeds are in demand in countries the climates of which suit it. The seeds are very light, and are always composed of both full and hollow ones; it seems that all are never perfect. Seedlings are preferred for forestry purposes, but when it is a question of hardiness, as it is here, it is better to rely on plants raised from cuttings of some hardy subject, such as the one we illustrate. Time and again imported trees have died out; even, the well-rooted large plants.

There are many lovely varieties of this cypress to be found in English collections, some with silver variegations, others golden tipped; some of extremely erect habit and vivid green foliage, and anywhere South from Philadelphia these, the type and all, would thrive, and by their grace of growth would add very much to the beauty of lawns. JOSEPH MECHAN.

Nursery Notes from Newport, R. I.

Norway maples lead all other varieties in demand for planting on private estates. The specimen sizes of this tree are especially hard to obtain and good prices are therefore offered by those requiring them.

English lindens are also scarce in the medium and large sizes.

White spruce is one of the most satisfactory trees for seashore planting, but nurserymen when opportunity offers should advise planting in groups, when such planting is at all possible, because in that way one tree is able to be of material help in the way of shelter to the other; and then when they get used to the weather and other conditions of their surroundings, thinning may be with advantage resorted to, affording in addition material for planting on other portions of the estate.

English ivy got killed early in the Winter in considerable numbers in New England—a fact likely to cause a demand brisker than usual in the Spring.

Specimen box and box for edging will be called for in more or less larger quantities than usual this Spring by reason of the fashion for gardening effects produced by plants of the character of box.

The market in New England for privet in sizes fit for immediate effect will be strong; there is plenty of small stock but the larger sizes are not in over-supply. D. M.



Chamaecyparis (Cupressus) Lawsoniana

tea rose we have; and its ever-blooming character, with its fragrance, making it unrivaled.

Many cactuses are called night-blooming but the true night-blooming cereus is named *C. grandiflorus*. There are few plants preferring the night for blooming, which fact adds interest to those that do.

Pruning Shrubs, Roses, Etc.

The closing of Winter brings the time to hand to prune shrubs, roses, and whatever else needs pruning before the Spring season opens. Besides the pruning to give flowers there is the good shape of the bushes to be considered, and this can be given them by careful pruning now as well as by judicious Summer pruning.

It is well understood among gardeners that in pruning there are two kinds of shrubs to be considered—those that flower in Spring or early Summer, and those that bloom in late Summer or Autumn. Those in the first class flower on the shoots made the previous season, and therefore these shoots must not be cut away. There may be a shortening of some shoots, to give shape to the bushes, but it must be kept in mind that all shoots of the previous year are those that bear the flowers. The second class of shrubs, those that flower later in the season, should be well pruned, for flowery come from strong new shoots, and strong shoots follow close pruning. *Hydrangea paniculata grandiflora* is in this class, and the closer it is pruned back the larger the head of flowers it produces. *Althæas*, *caryopteris* and *vibex* are also in this class.

The same rule holds good with roses. Just consider when they bloom, and how to prune them will be known at once. The June roses, so called, are largely of the hybrid perpetual class, and these flower on the last season's shoots. Still, when these shoots are very long and slim at the upper end they may be cut back partly to advantage, to increase the size of bloom that follows. Tea roses, China, Bourbon and the numerous intermediate varieties should be well cut back. Though flowering earlier than Autumn to some extent the best show of blossoms is made later; often the very best display of all is that of very late Autumn. Climbing roses of all classes require good, strong shoots of the previous season to give good flowers. In order to get these shoots and from near the ground, such roses should be so pruned when young as to start off from the base with two or three shoots.

Flowering Magnolia
 Althæas
 Spiræa Van Houtte
 Tamarix
 Pyramidal Tree Box $\frac{1}{6}$ ft.
 Tartarian Honeysuckle
 Barberry Thunbergii

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of
Fruit and Ornamental Trees, Roses, Shrubs, Clematis, Hedge Plants

Write for our Spring Wholesale Trade List

W. & T. Smith Co. 61 Years' Experience
 600 Acres **Geneva, N. Y.**

Crimson Rambler
 Baby Rambler
 General Jack Rose
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 Lilac, Rubra de Marley
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 STRONG DORMANT PLANTS

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12-18 in., transplanted once	\$2.00	\$18.00
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Send for our special surplus list of bargains.

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47,960 Low-Budded Roses
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No. 1 @ \$95.00 per 1000. No. 1 1/2 @ \$55.00 per 1000. Privet cuttings \$1.25 per 1000—10,000 for \$10.00.

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Roses. We have in stock upward of 1000 different varieties, consisting of the very latest European varieties, as well as all the leading varieties of American origin. Stock from 2 1/2 and 4 and 5 in. pots, all on own roots. Ask for catalogue.

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Cannas. Lady Hume Campbell, Princess of Avellan and Luxonne, nice strong plants, from 2 1/2 in. pots, \$3.50 per 100; \$30.00 per 1000.

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Beaute Polveine, 3 1/4 ft.	\$2 25	\$20 00
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Black Beauty, 5 ft.	5 00	50 00
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6-8 inches in circumference	\$1 50	\$10 00
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William Saunders
The flowers are large, of splendid form, and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson. Foliage is a rich bronze. Height, 3 1/2 to 4 feet. We believe that Wm. Saunders is decidedly the most perfect canna of this type that has been introduced. 50c. each; \$5.00 per doz.; \$35.00 per 100.

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is a strong grower, very robust and 5 to 6 feet high. The flowers are large and beautifully formed, color is carmine with tints of old rose and deep coral, add to this the silken sheen and you can imagine the effect a few plants will produce.
Note:—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert:
Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 massed in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size," 50c. each; \$5.00 per doz.; \$35.00 per 100.

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Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of cannas. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Send for our list and prices of 50 other leading varieties of cannas.
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Are our great specialty, 2 1/2 and 4 in. pot plants we have to great variety. Teas, Hybrid Teas and H. P. Roses on their own roots. Philadelphia Rambler, Crimason Rambler, Dorothy Perkins and other climbers in strong field plants.
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Send for our Price Lists.

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TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE YOUR CUSTOMER, WE HAVE PREPARED

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THE "CULTURALS" have been written by experts; they are fuller, and contain more detailed directions than it is possible to embrace in a catalogue. Equipped with these, just hand one out with each sale, and save yourself considerable present and future trouble, as the customer will then be able to consult the directions, grow his plants, seeds or bulbs intelligently, and so receive satisfactory results, without having to continually resort to you for advice.

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| CABBAGE and CAULIFLOWER | GLOXINIA | PRIMULA |
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Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

The Hotbed.

Amply justified in placing but little value on antiquated ideas and old-fashioned ways of doing things, the up-to-date florist is very apt to look with derision upon such a primitive affair as the hotbed. Nevertheless it is still largely in evidence, commencing a time, remote and strange, when horticulture was still in its infancy. And this because it is as efficient in promoting plant growth as anything ever hit upon by human ingenuity, and as helpful a contrivance to gardening today as it was centuries ago. Simple as it is in its conception and make up, it offers but slender scope for being improved upon.

A line of hotbeds, or a whole block of them, proves most serviceable on any place where small stock is to be raised in quantity, be this for the general Spring trade or the replenishment of greenhouse and garden crops. I have found the middle of March to be the best time for the making of hotbeds, though truck farmers have need of them much earlier. But there is little necessity for florists to start in with hotbeds any sooner. A well-firmed layer of fresh horse manure, about 18 inches high, extending a foot or more beyond the space inclosed by the frame, will generate enough heat by decay to belated cold spells and to last until all danger is past. The later the material is made, the less fermenting matter is needed, and the more straw, hay or tree leaves are mixed with the fresh manure the less intense will be the heat, but the longer it will last. Three or four inches of soil is enough for the raising of seedlings or cuttings, and less if potted plants are to be placed in the frame. This layer of earth should not be spread until the first rank heat has escaped, at least until the heat has settled down to a steadily held agreeable point. Should it be set up, a covering of the tightly closed sashes with hay or straw mats and all around the frame will soon start the heat, when this covering can be dispensed with, unless very cold nights and a low degree of heat under the sashes render its use advisable. Although hotbeds, sunk in the ground, keep the heat longer than those built up from the level of the surface, it is safer not to excavate if there is reason to fear a flooding by Spring thaws. In setting up a row or several of hotbeds some regard should be had for tidiness, order and neat appearance when the job is done. A sheltered position with a clear southern exposure and shielded from the north and west by some sort of a high windbreak is a good place for hotbeds.

The Care of Hotbeds.

There are few kinds of seeds, bulbs, cuttings, roots or small potted plants that could not successfully be started and raised in well-working hotbeds. But much of this success depends on the bestowal of proper attention to a few details in the management of hotbeds which do not admit of the slightest neglect. The ventilation of the hotbed is one of these. An outlet for any excess of generated heat and moisture is necessary at all times, even in the coldest nights, after the bed has been stocked with plants and is still at its greatest heat. Then again, there being but a small space between the glass and the plants, it is easily seen that on clear days the sun heat alone would raise the temperature under the glass to a killing height, in a very short space of time, and a force allied with the heat from the manure would mean the ruin of the entire contents in less than an hour, were the sashes to remain closed owing to forgetfulness or neglect on the part of the attendant. This happens very too often on some fine sunny mornings following severely cold nights. In such exceptional cases if the plants are still alive, they may yet be saved by opening the sashes little by little, by shading the glass and thus very slowly cooling off the plants. This is a better plan than throwing the sashes wide open at once, allowing the cold air to sweep through the half-cooked plants and then laying them flat with a needless drenching from the watering can. It is just as easy, and fully as disastrous, to forget the closing of the sashes at the proper time in the evening when a cold night is following in the wake of a bright day. When to open sashes and how much air to admit depends on the condition of the hotbed and that of the weather as also on the character of the stock in the frame. A watchful eye and an observant mind coupled with experience among plant life, hold forth les-

sons of a clearer understanding on these points than all my teachings in black and white, and anyone having had no experience with hotbeds until this Spring, if he heeds my warning as to the danger of neglect in venting, and is not over-new in the raising of plants, will have no difficulty in making the attempt a successful one.

Cold Frames.

Even those florists, large and small, who deem the making of hotbeds too troublesome or not needful, find good use for cold frames in whatever cultures they may be engaged. Such frames are most serviceable at nearly all times of the year, indispensable adjuncts to a great many establishments and of considerable value in the early Spring months to the grower of market and border plants. The cold frame is exceedingly simple in its construction. It is merely a square frame of planking, six or eight inches higher in the rear than in the front, firmly joined or nailed together, placed on or sunk into the ground and covered with well-fitting sashes. Cross bars are let into the upper edge of the rear from the sides where the sashes join for these to rest and slide in. This is the cold frame in its simplest form. Anybody handy with tools can build it, and I have yet to find the first gardener that isn't. Frames of this description can be set up at short notice and can be moved about with ease from one place to another if necessity demands.

In going a step further we come to the elaborately designed and carefully constructed frame of a type conceived in times of old, but still made to do good service to-day on many places. In some instances the frame is built up in brick or cement, in others they are a heavy posting and solid planking; some of them are equipped with hot water or steam heating, supplied by a nearby boiler shed or greenhouse, and all of them are stationary or permanent structures, built to last for years. Most of these beds are dug-outs, some of them so deep below the surface that they come nearer to being a regular pit than a frame. I used to have sixty feet of this old, but very useful kind of frames, but finding that to work them was mighty trying on the human spine I tried to improve upon the original design by raising the top to a height sufficient to allow of walking and working room inside. Before I knew I had a sash house, which for years answered my purpose quite as well as the erstwhile pit-like row of frames, and—I am almost sorry to say—for the raising of common market plants it proved more suitable than the house of modern construction that now occupies the place. This bit of evolution only exemplifies the struggle for betterment in structural accommodation as going on all over the country; certainly a good sign. But this onward push with its outward tendencies so far has failed to banish the lowly cold frame from the face of the earth. That it is even more made use of now than formerly speaks highly for it. The simple, movable frame, to be set up at any time when needed and at any place deemed most convenient, is of incalculable value to all and every commercial grower. A substantially built frame, including the sashes, if well taken care of, should last at least five years, and during that time it should repay its cost many times over.

Frame Cultures.

Lacking the heat of the hotbed the cold frame is not a safe institution for the deposit of tender or even half-hardy stock before the first part of April. It comes handy enough any time after that, even if put to no other use than to accommodate the overflow from the densely crowded houses. This should be the frame's principal mission in early Spring. But I advise the exercise of judgment and caution, because much stock is ruined every year by a too early removal from greenhouse to frame. One must take into account that even hardy plants, when started in fire-heated houses, are as easily injured by these of the more tender classes by sudden exposure to uncongenial conditions. In filling frames with house-grown stock the warmest hours of a fine day should be chosen for the work, and for the first few days air should be admitted in moderation; a hardening off by slow degrees being the object and the safest course to follow in every instance. During belated cold spells, which may always with certainty be looked for in early Spring, the frames are, of course, kept tightly closed and must even be covered with mats, or in some other way, to keep out the severe cold at times. As the season advances and natural warmth is more generously supplied, it becomes proper to admit air in abundance to anything growing in frames and by that time well weaned to direct ventilation. The time will then be near at hand when the sashes can be removed from the frame entirely. Plants thus freely exposed, and probably well furnished with vital roots, will then need attention more than usual as regards watering, lest all so far gained by frame culture is forfeited.

DREER'S SPECIAL OFFER

of Decorative Plants for Easter

KENTIA FORSTERIANA.

6-inch pots, 6	leaves, 24 to 28 inches high	1.00
6-inch pots, 6	leaves, 28 to 30 inches high	1.25
6-inch pots, 6	leaves, 30 to 32 inches high	1.50
7-inch pots, 6	leaves, 34 to 36 inches high	2.00
7-inch pots, 6 to 7	leaves, 36 to 40 inches high	2.50
9-inch pots, 6 to 7	leaves, 46 to 48 inches high	3.60
10-inch tubs, 6 to 7	leaves, 3½ to 9 feet high	15.00

KENTIA BELMOREANA.

6-inch pots, 6	leaves, 20 to 24 inches high	1.00
6-inch pots, 6	leaves, 24 to 26 inches high	1.25
6-inch pots, 6 to 7	leaves, 26 to 28 inches high	1.60
7-inch pots, 6 to 7	leaves, 30 to 32 inches high	2.00
7-inch pots, 6 to 7	leaves, 34 to 36 inches high	2.50
9-inch tubs, 6 to 7	leaves, 46 to 48 inches high	7.50

KENTIA FORSTERIANA—MADE-UP-PLANTS.

12-inch tubs, 4 plants in a tub, 6½ to 7 feet high	15.00
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LATANIA BORBONICA.

8-inch pots, 6 to 7 leaves, 20 inches high	1.00
--	------

PHOENIX ROEBELENI.

8-inch pots, 18 inches high. Rare and beautiful	3.50
---	------

PHOENIX CANARIENSIS.

2½ feet high in small tubs	2.00
3½ feet high in small tubs	3.50
4 to 4½ feet high in small tubs	6.00
4½ to 5 feet high in small tubs	6.00

PYRAMID-SHAPED BOX-WOOD. In Neat Green Tubs.

30 to 36 inches high, 16 inches in diam. at base	2.00
40 to 42 inches high, 16 to 18 inches in diam. at base	2.50
48 to 50 inches high, 18 to 20 inches in diam. at base	4.00

STANDARD OR TREE-SHAPED BOX. In Neat Green Tubs.

Stems 20 to 24 inches high, crowns 12 to 14 inches in diam.	1.25
Stems 20 to 24 inches high, crowns 14 to 16 inches in diam.	1.50
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3000 Ampelopsis Veltchil, pot grown, dormant, long tops	Per 100 \$4.00
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1000 English Ivy, 3½ in. pot grown, heavy long tops	4.00
3000 Vinca Major, variegated, 2½ in. pot plants	2.50
5000 Vinca Major, variegated, R. C., 7.00 per 1000	1.00
5000 Variegated, strong roots, 4.00	
500 Eucynurus Radicans, variegated, 3½ in. pots	6.00
1000 Hydrangea Otakka, 3½ in. pots, \$4.00 per 100, 2½ in.	2.50
2000 Hydrangea Fanculata Grandiflora, 3 year old, 8c.; 2 year, 6c.; 1 year, 4c.	
500 Japan Snowball, 3 ft., 15c.; common Snowball, 3 ft., 7c.	
200 Spirea Anthony Waterer, 3 year old, 6c.; 2 year, 4c.	
1000 Spirea, Van Houttei, and Reveeii, 3 ft.	6.00
1000 Lilac, purple and white, and Forsythia, 3 year old	3.00
500 Variegated Weigela and Yucca Filamentosa, 3 year old	6.00
5000 California Privet, 5 ft., \$5.00 per 100; 2½ to 3 ft., \$2.50 per 100; 12 to 18 in.	1.00
1000 Halleana Honeyeuckia, 2 year old, \$5.00 per 100; Red Trumpet, 1 year old, 4.00	
500 Blue Wisteria, 2 and 3 year old, 6 and 8c.; 3 best Eulalia or ornamental Grasses	6.00
500 Crimson Rambler, 3 to 4 ft., 2 year old, fine	15.00
Baby Rambler, 2 year old, 5 in. pots	20.00
3000 Madeira Vine and Cinnamon Vine roots, \$8.00 per 1000	1.00
5000 Canna bulbs, No. 1 stock, 60c. ad next week, \$10.00 to \$15.00 per 1000	2.00
1000 Stokesia Cyanea, pot grown, dormant, 3c.	
500 Caladium Esculentum, 7x9, 5c.; 5x7, 3c.	
500 Gladiolus, all colors mixed	1.00
20 lbs. clear seed, Ampelopsis Veltchil and Hibiscus, Crimson Eye, \$1.50 per lb.	
5 lbs. Stokesia Cyanea, fresh seed, 60c. oz.; \$8.00 per lb.	
20 lbs. Canna Seed, Florence Vaughan and Henderson, \$1.00 per lb.; mixed, 75c. per lb.	
All the above stock is No. 1; satisfaction guaranteed. Cash, otherwise C. O. D.	
Watch my Canna ad. next week.	

BENJ. CONNELL, West Grove, Pa.

Rooted Cuttings HELIOTROPES (dark good stock) strong and well rooted, 60c. per 100; \$5.00 per 1000. **AGERATUM, PRINCESS PAULINE**, well rooted, 50c. per 100; \$4.00 per 1000, Cash. **J. F. CANNATA, Mt. Freedom, N. J.**

SEASONABLE STOCK

CANNAS, two and three eyes, Aleace, Charles Henderson, David Harum, Duke of Marlborough, Italia, Mlle. Berat and Shenandoah, \$2.00 per 100, \$17.00 per 1000.
Beaute Pottevine, Crimson Bedder, Egandale, Florence Vaughan, Souv. de Antoine Crozy, \$3.00 per 100, \$25.00 per 1000.
 (See catalogue No. 5 for complete list.)
TUBEROUS ROOTED BEGONIAS, White, Pink, Scarlet, Crimson and Yellow, Single Flowered, \$2.50 per 100, Double Flowered, \$4.50 per 100.
GLOXINIA BULBS, Separate colors, White, Red, Violet, Violet Bordered and Rose Bordered White, \$4.00 per 100.
ANTHEMICUM VIVATUM VARIEGATUM, strong plants, grand for vases or baskets, \$3.00 per 100.
ASPARAGUS SPRENGELI, 2½ in. strong, \$2.50 per 100.
BEGONIA VULCAN and VEENON, 2½ in. fresh stock ready for shifting, \$2.50 per 100.
ROSES, Strong young plants of Clothilde Soupert, White Cochet and **HARDY PINKS**, 2 in. pots, assorted varieties, \$2.50 per 100. Pink Cochet, \$3.00 per 100, \$25.00 per 1000.

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DAHLIAS AND THE DAHLIA MANUAL

An illustrated up-to-date work covering the whole field of Dahlia Culture. Price 35c. Send for catalogue of Dahlias, Hollyhocks and Hardy Plants. I handle only the cream of varieties. **Mrs. Winters, Mms. Deel, Naylor, Dainty, Kriemhilde, etc.** My Dahlias have long been celebrated as prize winners.

W. W. WILMORE
 Dahlia Specialist, Box 382, DENVER, COLO.

ROOTED CUTTINGS Prepared per 100. **Ageratum Garney**, Pauline, 60c. **Alternanthera**, best red and yellow, 60c. **Hardy Pink**, Abbotford, red 75c. **Heliotrope**, blue, 85c. **SHIPPENSBURG FLORAL CO., SHIPPENSBURG, PA.**

Now is the Time to Order EASTER PLANTS

AZALEAS, just right, 60c. to \$5.00 each. **RHODODENDRONS**, \$1.50 to \$4.00 each. **SPIRAEA**, 35c., 60c., 76c. each. **DEUTZIAS**, 50c. each. **GENISTAS**, 15c. to \$2.00 each. **BABY RAMBLERS**, 50c. to \$1.00 each. **HEERMOSA ROSES**, 35c. and 50c. each. **TULIPS** Cut, \$4.00 per 100; in pots and pans, \$6.00 per 100. **NARCISSUS, VON SION and GOLDEN SPUR**, \$3.00 per 100; in pots and pans, \$4.00 per 100. **LILY OF THE VALLEY**, cut, \$3.00 per 100; in pots and pans, \$4.00 per 100. **DUTCH HYACINTHS**, \$10.00 per 100. **PALMS and FERNS** in fine condition.

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

Many kinds of bedding and garden plants, annuals in particular, as also perennials for the next year may to advantage be raised from seeds in cold frames. By sowing thinly and transplanting in time excellent stock can be grown in this manner, far better than is possible in the most improved of glass structures. But the same degree of watchfulness in opening and closing the sashes mornings and evenings on bright days alternating with cold nights is necessary in the care of cold frames as in that of hotbeds, though the damage resulting from neglect in this particular may not be so heavy, since the growth is not so soft as that made in hotbeds. This latter circumstance is one of the advantages found in the cold frame and in further comparing it with the hotbed it is easy to discover others. It is less expensive, can be stocked with plants or seeds as soon as set up, these do not dry out as fast, and altogether the frame needs less in the way of close attention than the hotbed, while this can be started earlier and is equal with a force for the promotion of plant growth, entirely lacking in the cold frame. In the same degree as the hotbed cools down will it come nearer to being a cold frame, and will then answer the same purposes.

Glasshouse Structures.

We are again entering the building season. The constantly increasing business in all lines of floricultural products in the first place means expansion in glass area all over the country. The establishment of new concerns, the enlargement of others, and the ever increasing reconstruction of old houses will, as usual, be the cause for considerable activity in building operations. This is one of the most important lines of work connected with gardening, requiring wise planning and thorough-going deliberation, even before the first step is taken, fraught with opportunities for the making of mistakes, difficult or impossible to correct after the structure is completed. For this reason, and because I have grown plants in all sorts of glass houses, in the construction of which I have been personally active, I venture a few remarks in the nature of advice to those who contemplate building, but lacking the experience necessary for the avoidance of errors in design or construction.

It is an easy matter to build a whole block of new houses, an entire new range on clear, unobstructed ground after plans carefully worked out by owner or expert, if these houses are to serve one purpose only—the raising of roses or carnations, for instance. In such a case my advice is not needed. But in adding a house or two to a small or medium-sized establishment, growing all sorts of commercial stock, cramped for room and the place dotted all over with obstructions in the form of outbuildings, sheds, trees or valuable garden space, it becomes extremely difficult to decide just what to do or how to proceed, and yet the increase of glass area here is an urgent need and room for the new houses must be found. In a case like this we have to accommodate our plans to the space available, first making sure by exact measurement what room it is possible to clear and at our disposal before we can safely work out the details on paper. As far as it is possible we must keep away from tall trees or buildings, must arrange matters in the house can be worked conveniently as regards the transfer of soil, boiler connection, ventilation, etc. In some such cramped quarters most of our best paying retail concerns are located, but it is only a question of time when florists in this category will find it much more profitable to buy plants and flowers than to raise them on high-priced ground.

Whatever kind of houses we may have pictured in our minds as most suitable for our particular trade, for this or that special culture, they should never in their design lack adaptability for other uses if necessity demands such a change from one culture to another. In any case they should be built of the best material, substantial in every way and equipped with the latest and most improved of working facilities and apparatus. It is wiser to build one first-class house than three of miserly makey or sliphod construction.

Three-quarter span houses running east and west, the long slope facing south, give best service in the raising of winter-flowering crops. In such houses it is not at all impossible to raise good potted and market plants, especially the smaller kinds of plants for a general Spring trade, intends to build or rebuild, he will do well to erect even-span houses of moderate width, running north and south, provided with abundant means for ventilation, the benches being raised to the glass and at least half of them furnished with plenty of piping underneath.

Acacias.

There are many varieties of the true acacia that well merit a place in all plant collections, having some clearness of completeness. And there are not a few

Grafted Roses

We offer this year the following assortment: **Bride, Bridesmaid, Bon Silene, Etoile de France, Franz Deegan, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta, La Boria, Killarney, La Mame, Mme. Abel Chateaux, Mme. Caroline Testout, Mme. Hoete, Mrs. Pierpont Morgan, Maman Cochet, Marechal Niel, Perle Des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John Wellaley.**
The above grafted from 2 1/2 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.

AMERICAN BEAUTY

On own roots, from 2 1/2 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots \$2.00 per 100; \$100.00 per 1,000; April, May and June delivery.

OUR GUARANTEE GOES WITH EVERY PLANT.

A. N. PIERSON, Cromwell, Conn.

2 YEAR OLD

ROSES

4 in. pots; Climbers, in assortment, at \$8.00 per 100. 2 1/2 in. Roses, 40 varieties, all colors, at \$2.00 per 100; \$16.00 per 1000.

2 1/2 in. stock GERANIUMS, AGEERATUM, PEBREWINKLES, VIOLETS, HIBISCUS, F. BEGONIA, FUCHSIAS, HELIOTROPE, HONEYSUCKLE, ASPARAGUS, \$2.50 per 100. COLEUS, ALTERNANTHERAS, at \$2.00 per 100. FERNS, 2 1/2 in., Boston, Pieroni, Scottish, at \$3.00 per 100. Tarrytown, Barrows, at \$5.00 per 100.

THE NATIONAL PLANT CO., Dayton, O.
Mention The Florists' Exchange when writing.

that may profitably be grown by commercial florists whose trade in plants and flowers demands diversity in the stock put forth. The class of plants is raised and grown without perplexing difficulty; the first cost is small, and yet the well-finished plants bring the exceptional prices always willingly paid for finely grown exotics of uncommon character. Full grown specimens are easily and quickly obtained either from cuttings or seeds, so that the grower need not rely entirely upon imported stock. Cuttings may be struck at any time from now until June, and for the starting of seeds of such kinds as can in that way be raised to advantage it is now the right time.

For a trade in easily managed plants of the usual market sizes the dwarf varieties are found the best and most satisfactory in every way. *Acacia paradoxa*, *A. armata*, *A. cordata*, *A. lineata*, *A. grandis* and many others belong to this class, all of them being easily propagated from cuttings. Of the fast growing taller varieties there are also several, as *Acacia Drummondii*, *A. dealbata* and *A. lophanta*, which may be grown with little care and considerable profit to anyone willing to grant them the needed root and head-room. Permanently established in well-drained solid beds, they annually make a wonderful growth and never fail to be covered with bloom. They stand a severe cutting down every year, and this is necessary to keep them in bounds. The many varieties of *Acacia lophanta* are raised from seeds, and plants two feet high may thus be obtained in one season.

Berried Plants.

Ardisia crenulata stands at the head of berried plants grown for the Christmas trade. If good seeds are at hand a sowing should be made now, for it is none too early if fair-eried plants are to be ready by next Fall. They grow amazingly slow and respond unwillingly to any kind of hastening measures. Seed trays should be stood over bottom heat, and later on the potted-up seedlings should also be placed in a temperature of 60 or 65 degrees with a little extra heat underneath, if this can be managed. This will insure a good start and the plants will then make a fair progress during the Summer. By next Fall most of them will be smart little bushes, some of them good enough for the coming Christmas trade. But if carried over another year they will be the right kind of stock for the best class of trade, and I do not think I am mistaken in saying that the two-year process in raising *ardisia*, is, after all, the most profitable.

Christmas, or celestial peppers, when well done, are also good and great many of them are readily disposed of at the Winter holidays. They are of

IF YOU ARE IN NEED OF

GOOD STOCK

We are fully confident that we are in a position to fill your wants.

Why? Because we carry the kind of stock that you are looking for, as we make a specialty of producing high grade stock of all kinds, being strong in

ROSES AND CARNATIONS

In addition to the cutting of a choice line of stock from our own large green-houses, we also handle the production of a number of the best growers in this city, thereby placing us in a position to fill all orders in a very satisfactory manner, as a trial order will convince you.

So if you wish to avoid disappointments and want your orders filled satisfactorily, just give us a call and you will be more than pleased that you called upon us.

Bulb Stock, Greens

AND ALL CUT FLOWERS IN SEASON

J. A. BUDLONG

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Roses and Carnations Wholesale
A Specialty Grower of **CUT FLOWERS**

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ENDTZ, VAN NES & CO.

BOSKOOP, HOLLAND

Are offering this season the grand New Pink Baby Rambler rose

ANNY MULLER

Our Mr. Endtz will be in the United States during April and May. Please address all correspondence care of Messrs. Maltus & Ware, 14 Stone Street, New York.

ROSES and CARNATIONS READY NOW

2 in. pot Bridesmaid, Golden Gate.....	100	1000	ROOTED CUTTINGS. Eochao-tress, Mrs. Patten.....	2.50	20.00
Ivory, Kaiserin, Bride.....	\$3.00	\$25.00	Estells, Lawson, White Bradt, Red Bradt, Lord, Boston Market, Craus, Flora Hill, Queen Louisa.....	2.00	15.00
Rooted cuttings of same roses.....	1.50		Joost.....	1.50	12.00
CARNATIONS. Strong, 2 in. pots. Lawson, Lord, Nelson Fisher, Encharess.....	3.00				
Flora Hill, Boston Market.....	2.50				

THE FLORISTS' EXCHANGE, Franklin & St. Paul Sts. - - - BALTIMORE, Md.

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GRAFTED ROSES

Our roses are the finest and best grown. Liberty, Richmond, La France, Killarney, rose pots, \$15.00 per 100. 3 1/2 inch pots, \$18.00 per 100. Bride, Bridesmaid, Golden Gate, Kaiserin, rose pots, \$10.00 per 100. 3 1/2 inch pots, \$15.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

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LIST OF ADVERTISERS

Table listing various florists and their addresses, including Allen J. K., Allen W. S., Anderson J. F., and others.

Table listing florists in Boston, including Tolly O. H., Traendly & Schoeck, Valley View Glass, and others.

INDEX TO STOCK ADVERTISED

Table listing various types of plants and flowers such as Abutilon, Ageratum, Althea, and others.

Boston. An Enjoyable Affair. One of the most interesting events of the season in Horticultural Boston passed into history on Wednesday evening...

Table listing various types of plants and flowers such as Petunias, Fuchsia, Rhododendrons, and others.

Judges for the show will be Messrs. Hauswirth, Kaating and Robert Craig; and an additional invitation is to be extended to Messrs. W. K. Harris, Vincent, H. Weber and Seybold to officiate in that capacity.

CANADIAN NEWS

TORONTO, ONT.—Business continues good and stock fairly plentiful. Roses are coming in in ample supply and generally are of fine quality.

Other speakers called upon were E. Palmer, J. K. M. L. Farquhar, W. J. Stewart, J. G. Butterworth (who read a poem he had prepared for the occasion touching on the abilities of the officers of the club, especially the able secretary, W. N. Craig), Alex. Montgomery, T. H. Westwood, Jackson Dawson, J. W. Duncan, J. H. Morton, W. N. Craig, M. Norton and G. M. Anderson.

LONDON, ONT.—The executive committee of the Canadian Horticultural Association will meet here on March 14 to make arrangements for the coming convention which is to be held in this city some time during next August.

Washington, D. C.

The last regular monthly meeting of The Washington Florists' Club, prior to the convention, was held March 5 with good attendance. All the officers of the preceding year were unanimously re-elected as follows: Peter Bisset, president; Z. D. Blackstone, vice-president; Chas. McCauley, secretary; W. H. Ernest, treasurer, board W. S. Clark; awards committee, Chas. McCauley, W. S. Clark, John Robertson, Jos. Freeman, Jr., and Thos. Field.

F. H. Kramer has offered a \$50 cup to be bowled for on March 15. New prizes adding most attractive features to the exhibit are being tendered daily, not only by the trade, but from other lines of business.

Stock of all kind is rapidly regaining its normal condition, and trade has improved wonderfully. Easter stock is coming up very fast at present and the lilies that two weeks ago looked as if they would not be out before May day, will probably be in all right for Easter.

Contents

Table listing contents of the publication, including American Carnation Society, American Rose Society, and various notices.

EDMONTON, ALBERTA.

None but those who actually experienced the intensely cold weather of the past two months can appreciate the welcome change of the last two weeks—from January and the first few days of February with a mean temperature of 22 below zero and every night 35 to 50 below, to the bright Spring-like weather of the present; which gives every indication of continuing.

A live horticultural society is at present in contemplation; great interest is being taken by some of the leading citizens, and the prospects are that the first horticultural exhibition in the Far West will be held in connection with the Provincial Fair, in July.

FINDLAY, O.—Last year S. J. McMichael added two new greenhouses to his establishment and has now some 12,500 feet under glass devoted to growing vegetables and flowering plants, for which he finds a good demand.



PREPARE FOR EASTER

In Philadelphia there's a florist noted, Aschmann, his name, his plants beyond compare; To a sweet girl his heart is all devoted, Next rank his Araucarias, passing fair; When seen together they're a pair so charming—Brimful of beauty—both he cannot keep; So to his heart he'll hold his winsome darling, While you may have the Araucarias cheap.

An immense stock of choice Easter plants, blooming Easter week or earlier if desired, are now ready for immediate shipment.

COME or Mail your order direct to Headquarters. Our reputation over the entire country, from the Atlantic to the Pacific, in growing Easter stock for many years past, is sufficient guarantee to prove what I say. We have every house, nook, hole and corner full; plants were never so fine as they are this year, 1907.

While laborers, merchants, jobbers, contractors, builders, etc., have increased their prices nearly double, we DD NOT advance our prices; look! we sell our plants at the same old prices charged two or three years ago when the producing of plants was much cheaper.

MR. GODFREY ASCHMANN, Philadelphia, Pa. Dear Sir:—I received your plants in good condition. Satisfactory to me in every way. I am pleased. Respectfully yours, EDWARD LEIZMANN. 227 Loyallhanna St. [The amount of plants was \$86.25 for Azaleas, Kentias, Araucarias and Ferns.]

MR. GODFREY ASCHMANN, Philadelphia, Pa. Dear Sir:—I was well pleased with the plants that I received of you last year, so I send you another order this year. (Here follows description of order.) Yours truly, LEANDER D. HURD.

"I have seen Mr. Aschmann's Easter stock and I can truthfully say that it never looked finer, and stock never before so large, and I am pleased to recommend our customers to Mr. Aschmann." F. J. MICHELL, Of the firm of Henry F. Michell Co.

What was my duty during my trip to Ghent, Belgium, the land of Azaleas, Araucarias and Palms—last Fall, 1906? The interests of my customers, of course; not speaking of the 1100 Souvenir Cards which I mailed to my customers in America. I also bought for their benefit, AZALEA INDICA for Easter sales, the cream of Belgium's production. I am able to offer to my customers and the trade in general, two houses full of Mme. Van Der Cruyssen azaleas, the well-known and most favored, best double, pink azalea, giving so much satisfaction all over America. Plants as round as an apple, just covered with buds, 6-7 in. pots at 60c., 75c., \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each. Other fine varieties adapted for the American Market, such as Niobe, Bernard Andrew, Alba, Deutsche Perle (double white), Prof. Wolters, Empress of India, Veraneana (double variegated), and about eight more fine sorts, all covered with buds, price 75c., \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each. We have a limited quantity of 50c. to 60c. azaleas, such as Apollo (double dark scarlet), Deutsche Perle, Simon Mardner, and a few others.

Lilium Muliflorum and Japan Longiflorum were never so fine as this year. All sizes; can meet all wants 6 in. pots 5 to 8 buds to a plant, 10c. per bud; four buds and under, 12c. per bud.

Spiraea Gladstone, 6 to 7 in. pots. These plants are very large and bushy, and unusually fine this year, full of buds; price, 50c., 75c. to \$1.00 each.

Hydrangea Otaka's (pink) 6 to 7 in. pots, 40c., 50c., 75c., \$1.00, \$1.25 to \$1.50 each.

Cinarraria Hybrida, have a house full, all shades, 5, 5 1/2 to 6 in. pots, \$2.50, \$3.00, \$4.00 to \$5.00 per doz.

Crimson Rambler Rosas, 3 ft. high and over, \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each.

Begonia, new improved Erfordi, an immense bloomer, blooms all summer and winter through, 5 1/2 in. pots \$3.00 per doz.; 4 in., \$1.80 per doz.

Frimula Obconica, 5 1/2 in. pots \$2.50 per doz.; 4 in., \$1.80 per doz.

Arcia Sapida (palm), 6 in. pots, 50c.

Draecena Branti, 6 in., 50c.

FERNs. Nephrolepis Barrowsi, 6 in., 50c. to 75c.; 5 to 5 1/2 in., 40c. Scottii, 8 in., very long, \$1.50 each; 5 in. Boston Ferns, 5 in. pots, 25c. to 30c.; 6 in., 40c. to 50c.; 7 in., 75c.

Kentia Forsteriana, 7 in. pots, make up one large one in center, three small ones around, \$1.50 to \$1.75. Kentia Fosteriana, single plant, 30, 45 to 50 in. high, \$1.00, \$1.25, to \$1.50 each.

ARAUCARIA COMPACTA ROBUSTA, 5 year old, 7 in. pots, 25 to 30 in. high, same in width, 4 to 5 tiers, very well stuff, \$1.00, \$1.75 to \$2.50 each. Araucaria Excelsa Glauca, 20 in. high, 4 tiers, 4 year old, \$1.00, \$1.25 to \$1.50 each. Specimen Glauca, 7 in. pots, 5 year old, 5 tiers, 30 to 35 in. high, \$3.00 each. Araucaria Excelsa, 4 year old, 6 in. pots, 25 to 35 in. high, 5, 6 to 7 tiers, \$1.00, \$1.25 to \$1.50 each.

Hyacinths, raised from first class bulbs of my own importation. Notice: These bulbs cannot be compared with ordinary stuff flooding the market. King of the Blues, Grand Maitre (Lavender blue), Gertrude (best pink), Grandesse (white), 4 in. pots, \$12.00 per 100.

Tulips. Tournasol, red and yellow variegated; this is the best selling tulip on the market, will stay in full bloom 10 days, 3 bulbs planted into a 4 in. pot; price \$12.00 per 100 or \$1.50 per doz. pots.

Narcissus, or Double Von Sion Dafodilis best double yellow in the world, will sell on sight, 3 double nosed bulbs planted into a 5 1/2 to 6 in. pot; price, \$2.50 to \$3.00 per doz. pots. All bulbs are of my own importation, now outside in cold frame, and will bloom 2 weeks after bringing them into the greenhouse.

MOON VINE, Ipomoea Multiflora, (A. W. Smith, originator), best pure white, largest and most fragrant moon vine in the world. We have made a specialty of it for the past 15 years, and are known as the moon vine growers of America. Grow 20,000 of them, 2 1/2 in. pots, \$5.00 per 100; now ready.

Mention if pots are wanted with all plants. For the reason that the cultivation of Lilies is expensive, and because we sell our Lilies cheap, some other plants must be taken in connection with them. Cash with order, please. All goods must travel at purchaser's risk only.

GODFREY ASCHMANN,

Importer and Wholesale Grower of Pot Plants

1012 Ontario Street, PHILADELPHIA, PA.

GERANIUMS

25,000 strong, 3 in., best varieties, \$10.00 per 1000. Double Grant, \$35.00. D. Grant, large, 2 in., \$20.00 per 1,000. Evergreens, 10 varieties, 1 1/2 feet; shade trees, 6-10 feet, all transplanted; a bargain to large buyer. 200,000 Bedding Plants for Spring delivery. Orders solicited.

WM. S. HERZOG, MORRIS PLAINS, N. J.

Mention the Florists' Exchange when writing.

FOR EASTER 1907

Erica Perscolata Alba, \$18.00 per doz. Erica Cypresina, \$6.00 and \$9.00 per doz.; shell pink bell. Erica Cavendishii, \$26.00 per doz.; yellow trumpet. Erica Transluceana, \$18.00, \$24.00 and \$39.00 per doz.; bright red trumpet. Acacia Paradoxa, \$2.00, \$4.00, \$8.00, \$3.00 and \$10.00 each; yellow. Lillies, 12c.; selected plants, 3 ft. high, 16c.; made up in order 25 to 50 flowers to a pot, 16c. Dates, \$18.00 and \$24.00 per doz.

ANTON SCHULTEIS

19th Street and 4th Ave., College Point, N. Y.

FOR SALE

Ready now in Excellent Condition; Choice Colored Dracaenas

TERMINALIS, large plants, 50-75c.

Regina, Hybrida, Amabilis, Stricta-Lindenii, Messingiana, Gladstonii, grandis, Knerkii, 75c. to \$1.00. Imperialis, \$1.00 to \$1.50.

FRAGRANS and BRAZILIENSIS, 75c.

Ficus Pandurata, 7 in. pots, 7-10 leaves, \$2.50; also large specimens.

ROSE HILL NURSERIES, New Rochelle, N. Y.

Mention the Florists' Exchange when writing.

SHAMROCK

IRISH: THE REAL THING: GREEN

None better offered. Will be just right for St. Patrick's Day. Don't wait until all are sold. \$1.00 per 100, or 60c. per doz. by mail.

XXX STOCK, READY FOR 3 IN. POTS

Ageratum. "Gurney," best dwarf blue. \$2.00 per 100.

Verbena. California Giants, seedlings, finest grown, mixed, strong 2 in. \$2.00 per 100.

Petunias. New Star, from the finest marked star flowers, \$2.00 per 100.

Phlox. New Dwarf. Grand for pots. A good seller. Mixed \$2.00 per 100.

Heliotrope. Light and Dark, strong 2 1/2 in. \$2.50 per 100.

Double Nasturtiums. Yellow: very fine \$2.50 per 100.

Also Seeds as per our recent adv. CASH. Extras added liberally.

JOHN F. RUPP, Shiremanstown, Pa

The Home of Primroses.

Mention the Florists' Exchange when writing.

HEADQUARTERS

FOR

The Genuine Irish Shamrock

1/2 in. pots \$4.00 per 100; 2 in. pots \$5.00 per 100; \$1.00 per dozen.

WILLIAM NICHOLSON Framingham, Mass.

Mention the Florists' Exchange when writing.

SHAMROCKS True Irish Shamrocks, imported direct from Ireland. You want some for St. Patrick's day trade. In 2 1/4 in. pots at 95c. per doz.; \$5.00 per 100. Cash. LEONARD COUSINS, JR. Concord Junction, Mass.

Mention the Florists' Exchange when writing.

Irish Shamrock 60 cts. doz. by Mail \$4.00 per 100, Cash

Geo. L. Fuller, Monson, Mass.

Mention the Florists' Exchange when writing.

A Few Good Things You Want

Cash with Order.

Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100.

Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.

Geraniums, S. A. Nutt, John Doyle, Perkins, Ricard, Double Geo. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trege, Castellane, Poitevine and Viand, 2 in. pots, \$3.00 per 100.

Rez Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100 Boston Ferns, 5 in., \$3c. each.

Vinca Var, 2 in., \$2.00 per 100.

Gladiolus, blooming bulbs, extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.

Primula Obconica, 3 in. in bloom, \$5.00 per 100.

Heliotrope; Coleus, red and yellow; Cigar Plants; Verbena; Scarlet Sage, 2 in. \$2.00 per 100.

Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s, properly packed in good order.

GEO. M. EMMANS, Newton, N. J.

Mention the Florists' Exchange when writing.



Number of Plants for a Round Bed.

(54) How can I figure the number of plants it will take for a round bed? J. C. B.

New York.

—To find out how many plants are required for a circular bed, square the diameter of the bed in inches, multiply the answer by .7854, then divide the total by the number of inches apart the plants will be set.

New Jersey.

—Flower pots painted either on the inside or outside or on both sides, are not so good for growing plants as they are when unpainted, for the simple reason that the coat of paint gives a glazed surface and renders the pot no longer porous.

Painted Pots.

(55) Can you inform me through your paper if pots painted on the outside or inside are injurious to plants growing in same? W. W.

New Jersey.

—Flower pots painted either on the inside or outside or on both sides, are not so good for growing plants as they are when unpainted, for the simple reason that the coat of paint gives a glazed surface and renders the pot no longer porous.

Propagating Salvia.

(56) Will salvia do the best raised from seed or cuttings, and what plant would make a pretty border for a bed of the same? C. M. S.

Mich.

—Salvia do probably better when grown from seed than they do when grown from cuttings; their flowering season seems to last longer. At the same time it is rather late now to sow salvia seed, as the plants would not be large enough to flower until quite late in the season. A good border plant for a bed of salvia would be Coleus Verschaffeltii.

Utilizing a Small Greenhouse.

(57) I have a small greenhouse, 20 x 30, all ready for use, but have never used it for commercial purposes, thinking it too small. Can any of your readers suggest any flower or vegetable that they think I could grow profitably, provided I do all the work myself. SUBSCRIBER.

New Jersey.

—A greenhouse, 20 x 30 feet, is too small to do anything with in a commercial way, as there would not be work enough there to keep one busy all the time; and if any other business is conducted in conjunction with the greenhouse, the chances are the latter would likely be neglected at some important time and a total failure result from any crop that was being grown. We would suggest, however, that to run such a greenhouse with the least danger of injury from neglect, would be to use it for potted plants such as geraniums, fuchsias, coleus, salvias, etc., which could probably be sold locally at a reasonable profit.

Geraniums for Cutting.

(58) Will some one having experience with geraniums for Winter-blooming give a list of six or eight varieties suitable for growing for cutting; they must be double varieties. L. M.

New York.

—So far as the best geraniums for Winter-flowering are concerned, varieties commonly used for bedding work will answer this purpose as well as any; they are all about equally free in their flowering during the Winter season, and we would suggest such sorts as Alphonse Ricard, Miss Frances Perkins, S. A. Nutt, La Favorite, John Doyle, General Grant, Double Dryden and Jean Viand.

Early Chrysanthemums.

(59) Which are the best three very early chrysanthemums for florist's use, in white, yellow, and pink? L. M. New York.

—As to which are the best three early chrysanthemums, what one grower would call the best might not coincide with some other grower's opinion, but we would suggest Glory of the Pacific, Polly Rose and October Sunshine.

To Give Color to Tomato Foliage.

(60) Can you tell me what I can give my tomato plants this Spring that will bring a good, green color? I grow about 3,000 boxes of tomatoes for Spring sales. I use good soil with manure, but the plants do not grow even, and they turn yellow. I was told to put nitrate of soda into the soil. Could you recommend anything that will help to give them strength and a good, green color, and how much to a bushel of soil? BEGINNER.

New York. —If the soil in which the tomatoes are growing has been prepared carefully, as the writer implies has been the case, it is evident that the foliage is turning yellow owing either to the plants being given too much water or that too great changes occur in temperature conditions. It will be advisable to obviate, if possible, the cause of the leaves turning yellow; but do not attempt to do so by feeding the plants with liquid manure, nitrate of soda or other fertilizer, as that certainly would not help matters, and would tend to spoil the plants so far as their future fruiting is concerned. The feeding of young plants of any kind should never be attempted, especially if they are to be sold while in the young state, as such over-feeding will only produce plants that would never give satisfaction to those who purchase them.

Fancy Caladiums, Palms.

(61) Kindly let me know how to treat fancy caladiums to give them a start, also palms. READER.

—To start fancy caladiums, pot them in 4 or 5-inch pots, using a soil in which there is no fresh manure (plenty of leaf soil among it is a good thing if that is obtainable) also sand enough to be sure of good drainage. After the bulbs are potted give them one good watering; place them in a house where the temperature is maintained at 60 degrees at night, and shade them either with cloth or paper until growth starts. Be very careful about affording water between the time they are potted until it is seen that the top growth is started, as any sodden condition of the soil at this time is almost sure to make the bulbs decay.

We presume from the mention of palms that raising them from seed is meant. To grow palms from seeds it is a good plan to use shallow flats in which there is two or three inches of leaf soil or other light soil. Spread the seeds on the top of that evenly, then cover with sphagnum moss that has been chopped fine, place under a bench in a warm house, and keep continually moist. As soon as it is seen that the seeds have germinated the seedlings can be pricked out and potted up separately in small pots and placed on the greenhouse bench. A house where a temperature of 60 degrees at night is maintained is best for the raising of palms from seed.

Callas.

(62) If calla bulbs are planted in a solid bed (12 inches soil, sand underneath), placed in a carnation temperature of 55-60 degrees, do they bloom just as well as in pots? Can they remain two or three years in the same bed undisturbed? How should they be left resting (drying out); how long and for what length of time? If taken up, could the same soil be used again with manure worked in? What is the cause of a good many calla blooms (plants in solid bed) coming green or spotted (rotten)? I gave them a mulching of stable manure (covering the surface) in January. AN OLD-TIMER.

New York. —To question number one we would answer, no, because the depth of soil is too much and the plants would make heavy growth but would not flower so well. To question number two we would answer, no, because to have callas do well they should have new soil every year. To question number three we would say: Don't treat the callas in

WHOLESALE TRADE LIST

- ASPARAGUS PLUMOSUS, 2 1/2 inch pots, \$3.00 per 100.
CARNATIONS: R. C. Enchantress, Lawson, White Lawson, Red Sport, Boston Market, and Vesper. Price on application.
CLEMATIS PANICULATA, 4 inch pots, \$1.50 per doz., \$10.00 per 100; 3 inch pots, 75c. per doz.; \$5.00 per 100.
FUCHSIAS, Heliotrope, yellow Daisy, from 2 1/2 in. pots 50c. per doz., \$3.00 per 100.
GERANIUMS, best varieties from 3 inch pots, \$4.00 per 100.
IVY, Hardy English, 3 in. pots, \$5.00 per 100; 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
MOONVINES, the true variety, 3 in. pots, 75c. per doz.; \$5.00 per 100.
SANSEVIERA (Zebra plant), 4 in. pots, strong, \$1.50 per doz.; 3 in. pots, \$1.00 per doz.
ROOTED CUTTINGS: Heliotrope, dark blue; Fuchsiads, Elm City; Cupheas, Parlor Ivy, Alderatum, blue and white, \$1.00 per 100.
HYACINTHS, first size bulbs, red, white and blue, in bloom for Easter, \$1.50 per doz., \$10.00 per 100.
TULIPS, Journefol, double, La Reine, single White, 3 bulbs in 4 in. pot, \$1.50 per doz., \$10.00 per 100.
SEEDLINGS from flats. Asparagus Sprengeri, Smilax, Ageratium, blue Perfection, Petunias, Howards Star and Rosy Morn, \$1.00 per 100.
C. EISELE, 11th & Roy Streets, PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

COLEUS

VERSCHAFFELTII, GOLDEN QUEEN, FIRE BRAND, LORD PALM-ESTON, QUEEN VICTORIA, BECKWITH'S GEM.
Prices of Rooted Cuttings by Express, 60 cents per 100; \$5.00 per 1,000.
GOLDEN BEDDER, Golden Yellow—the old original, true to name. Rooted cuttings, 75c. per 100; \$6 per 1,000.
FANCY VARIETIES. In addition to those named we offer a fine stock of twelve kinds. 75c. per 100; \$6 per 1,000. Strong cuttings. Free from Mealy bugs.

ACERATUM

STELLA GURNEY, Dwarf Blue, 75c. per 100; \$6 per 1,000.
PRINCESS PAULINE, a combine of blue and white in same flower, 75 cents per 100; \$6 per 1,000.

SALVIA

SPLENDENS, tall standard, one of the best, rooted cuttings, 75c. per 100; \$6 per 1,000.
BONFIEE, medium dwarf, very good, rooted cuttings, 75c. per 100; \$6 per 1,000.

HELIOTROPE

ROOTED CUTTINGS, 75c. per 100; \$6 per 1,000.

A. N. Pierson, Cromwell, Conn.
Mention the Florists' Exchange when writing.

DREER'S UNRIVALED STRAIN

—OF—

DOUBLE PETUNIAS

ROOTED CUTTINGS BY MAIL 100

- White, pink, red, crimson and variegated... \$1.25
Cuphea (Cigar Plant)..... .75
Abutilon, New French Dwarf, R. O.....1.50
Ageratum, 4 varieties..... .75
Strobilanthes Dyerianus.....1.25
Heliotrope, Dark.....1.00
Hibiscus, R. O.....1.50
Lantanas, trailing.....1.25
Moon Vine, Smith's Hybrid Seedling.....2.00
Scarlet Sage, tall and dwarf.....1.00

PLANTS

Dracaenas indivisa, 2 1/2 to 3 feet high \$15.00 and \$25.00 per 100.

Shasta Daisy, 3 in..... 3.00
Cash with order please.

GEO. J. HUGHES, BERLIN, N. J.
Mention the Florists' Exchange when writing.

that way, as greenhouse room is too expensive to have the house idle two or three months in the year. To question number four we would say, no. The old soil would be apt to get sour and the plants would not grow satisfactorily. To question number five, there is no doubt in our mind but that the trouble comes from the callas being planted in too deep a soil and from the house temperature being too low. If the callas are wanted to bloom satisfactorily through the whole season, the night temperature should never go below 60 degrees, and the fact of the flowers coming greenish is sure evidence that the temperature has been too low.

GRAFTED ROSES

Money-Makers for Commercial Growers

Our list includes only the most profitable commercial varieties for forcing—no "has-beens" nor "franks". (Consult the Flower Market reports, and see what the sellers are). Here's our list:

Table with 2 columns: Variety Name and Price. Includes RICHMOND, CHATENAY, BRIDE, BRIDESMAID, UNCLE JOHN, GOLDEN GATE, KILLARNEY, WELLESLEY, KAISERIN, CARNOT, IVORY, MISS KATE MOULTON.

These are the markets top-notchers. Our plants are grafted on the best selected English Manetti stocks, and we are booking orders now for early delivery, or when wanted.

THE 1907 NOVELTIES, Lady Gay, Minnehaha, and Hiawatha, can be had in strong stock; descriptions and prices on request.

SPECIAL--American Beauty, 2 years, dormant, (field-grown) budded, fine plants for forcing, at \$2.00 per 100.

CELLAR-STORED SHRUBS, VINES, etc., in full assortment, ready for immediate shipment; send for Complete Price List.

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VERBENAS 60 Finest Varieties Perfectly Healthy
CARNATIONS Choice Rooted Cuttings Free From Disease
J. L. DILLON, BLOOMSBURG, PA.

PETUNIA "THE QUEEN"

This is something new in the Petunia order, a new double, extra fine, that requires no staking, 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100.
Columbia, Golden Bedder, and other varieties, rooted cuttings, 60c. per 100; \$5.00 per 1,000.
Verschaaffeltii, rooted cuttings, 70c. per 100; \$6.00 per 1,000.
Fuchsiads, in variety, 2 1/2 in. pots, \$3.00 per 100; R. C. \$1.50 per 100.
Heliotrope, in variety, 2 1/2 in. pots, fine, \$2.50 per 100; R. C. \$1.00 per 100.
Sweet Alyssum, 2 1/2 in. pots, fine, \$2.00 per 100.
Capt. of Snows, 2 1/2 in. pots, fine, \$2.00 per 100.
Little Gem, \$2.00 per 100.
Lobelia, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.00 per 100.
Ageratum, in variety, \$1.50 per 100; R. C., 60c. per 100.
Rose Geranium, 2 1/2 in. pots, \$2.00 per 100.
Happy Thought Geranium, \$2.00 per 100.
German Ivy, R. C., \$1.50 per 100.
English Ivy, R. C., \$1.50 per 100.
Salvia, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.50 per 100.
Alternantheras, R. C., 80c. per 100.
Cash with order.

J. E. FELTHOUSEN, 154 Van Vranken Ave. SCHENECTADY, N. Y.
Mention the Florists' Exchange when writing.

NEW DOUBLE PETUNIA

THE QUEEN

a wonderful bloomer; flower from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, ready now. \$1.50 per doz.; \$10.00 per 100; \$90.00 per 1,000.

THE YATES FLORAL CO.
Joseph Traudt, Prop. Canajoharie, N. Y.
Scranton Florist Supply Co. SCRANTON, PA.

COLEUS

Golden Bedder and Fancy bedding sorts. R. C., 60c. per 100; \$5.00 per 1,000. Giant fancy leaved Coleus, \$1.00 per 100. Lobelia compacta, blue, R. C., 60c. per 100; \$5.00 per 1,000; 2 in. pots, \$1.50 per 100.
R. C. 1 1/2 2 in. 100
Fuchsiads, best variety.....\$1.00 \$2.00
Heliotrope, dark.....1.00 2.00
Vine, variegated..... 2.00
Geraniums, double white..... 2.00
CANNAS (Dormant) 100
Queen Charlotte, Florence Vaughan..... \$1.50
Duke of Marlborough, McKinley..... 2.00
Egandale (bronze leaved)..... 2.50
CASH WITH ORDER

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

Flowering Plants

- CYCLAMEN in bud and bloom, 4 in..... \$1.00
in bud and bloom, 5 in..... 1.50
PRIMULA OBCONICA in bud and bloom, 4 in..... .75
5 in..... 1.00
3 in..... .50
CINERARIAS 5 in..... 1.50
6 in..... 2.00
J. S. BLOOM, Riegelsville, Pa.
Mention the Florists' Exchange when writing.

PLANT CULTURE

Price, - - - \$1.00.
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PAMPHLETS RECEIVED.

ORCHID HYBRIDS. Addenda to Sander's List, 1905-1907. Published by Sander & Sons, St. Albans, England. Price One Shilling, post paid.

In this document the Messrs. Sander furnish tables of hybrids, consisting of those crosses raised and recorded since the publication of their Orchid Hybrid List in separate form, thus bringing the list down to date. The subject matter is, as said, arranged in tabular form, rendering reference easy. Table I gives the names of the hybrids alphabetically arranged, with the seed and pollen parents in the second and third columns respectively. Table II records, in alphabetical order, those plants which have been used as seed parents—the second column giving the names of the plants with which they were pollinated, the third column being the resultant product. In Table III the pollen bearing parents are arranged in the first column, the plants which carried the seed in the second, and the product in the third.

The completed list should prove a boon to everyone interested in the cultivation of orchids.

"HOW TO MAKE MONEY IN MUSHROOMS" is the title of a practical little pamphlet issued and distributed upon application by A. V. Jackson, 3267 North Western avenue, Chicago, who claims to be the largest mushroom grower in America. The establishment is certainly an interesting one, the houses which are built about one half above and one half below ground forming three sides of a hollow square upward of one hundred feet on a side. The buildings are some 40 feet in depth and are filled with four tiers of mushroom benches. From these houses at the present time are being gathered some 500 to 600 pounds of product per week, and at the height of the season there have been picked 2000 pounds a week for eight consecutive weeks. Ten years ago Mr. Jackson gave up commercial horticulture and launched out on the unknown sea of mushroom growing, and successful and constantly increasing crops have resulted.

American Carnation Society.

Varieties Registered.

By R. Wittertaetter, Cincinnati, O.

THE CARDINAL, color a deep, rich scarlet; habit similar to that of Estelle but stronger.

THE ARISTOCRAT, color a deep, lively cerise; long-stemmed flower, three to three and one half inches in diameter; habit, no surplus grass, a rapid grower, quite healthy and with long-jointed stems.

ANTERGLOW, color a light, rosy cerise; a three-inch bloom, guard petals standing out straight with a high built center; habit, a strong vigorous grower; stems the length of those of Aristocrat but more rigid. Destined to be grown as largely as Mrs. Lawson in its time.

ALBERT M. HERR, Secretary.

American Rose Society.

Next week, on Wednesday, Thursday, and Friday, March 13-15 inclusive, the American Rose Society will hold its annual meeting and exhibition at the Washington Light Infantry Hall, Fifteenth and E. Eighth streets, Washington, D. C. The exhibition will be held in conjunction with the Spring show of the local florists' club.

Never in the history of the Rose Society have so many valuable special premiums been offered in competition as this year, a fact testifying to the energy and enthusiasm of its officers, and one calculated to bring out an unsurpassed display of roses, in the various classes, at the Capital City. In addition to the special prizes, a list of which has already appeared in our column, the gold medal of the organization will be given for the best new rose not yet disseminated, whether of domestic or foreign origin. The variety winning this trophy must score not less than 95 points, judged under the society's scale. A silver medal is offered at the same time and under the same conditions for a novelty scoring not less than 85 points.

Exhibitors should bear in mind that all exhibits for competition must be in position by noon Wednesday, March 13, and are not to be removed before Saturday, March 16. An entrance fee of \$3 is required for all new members; any person paying annual dues is entitled to make entry without further fee. Exhibits sent from a distance should be addressed to Louis Freeman, superintendent of Exhibition, Washington Light Infantry Hall, Fifteenth and E. streets N. W.

Several papers will be presented at the annual meeting, one by E. G. Hill, on the subject of "New Varieties." The originator of the Richmond rose is always interesting, and there are few men in the trade better fitted than he to talk on the topic that has been assigned to him. The other essayists are also capable men, and their papers will be equally instructive. Then, too, the members will discuss the matter of what definite work the society can take up in behalf of its members in particular, and the rose-loving public in general, that it does not now perform. Also as to how its membership may be increased; and whence shall come the readiest response to the appeal thereat—from professional florists and gardeners, or from what are commonly called "amateurs."

Whatever the outcome of the deliberations on these two subjects, it is plausibly evident that any added undertaking by the society is contingent upon increased new membership. No good work can be done unless funds are available for its proper performance. One thing is certain, the "amateur" interest cannot be fully developed through exhibitions and these, too, in which the amateur cannot, by force of circumstance, compete; something more is necessary to cater to, and enlist the affiliation of this class of rose growers and rose lovers. The list of those who grow roses for the pleasure the flowers afford is an ever-increasing one; and what these people most need, and would greatly welcome, is instruction on the cultivation of the plants, and advice as to varieties suitable for various purposes. In this latter connection, we have before us as we write the English National Rose Society's latest official catalogue of roses, an interesting and valuable document compiled in order to meet the wants of amateur rosarians generally and not principally from an exhibitor's point of view. The following table of contents of this hand-book will show its scope and the character of the information supplied. Chapters are devoted to Descriptive Catalogue of Roses, Synonymous Roses, List of Roses according to the classes to which they belong; Selections of Roses for the various purposes mentioned in the catalogue, namely—for general garden cultivation, bedding standards, tall weeping standards, walls, pillars, pergolas, covering banks, pegging down, forming a hedge, growing as bushes, edging, buttonholes, towns and suburbs, pot and greenhouse culture and greenhouse climbers. There are also given lists of Fragrant Roses, Hybrid Perpetuals and Hybrid Teas for Exhibition, and Teas and Noisettes for Exhibition.

We cite the foregoing simply to demonstrate what the National Rose Society of England, the prototype of the American Rose Society, is doing in behalf of amateur rosarians, a class, which as we understand it, forms the bulk of the British organization's membership; also to provide a foundation upon which our own society may build, should it elect to devote a greater portion of its labors than now to promote the welfare of the amateur rose-grower, which, directly and indirectly, means the welfare of the professional rosarian as well.

Of course, as before said, to carry on work of this nature means added financial support accorded the society. In the meantime, however, we think it might be worth while to consider whether some of the money now given as prizes could not just as profitably be expended on propaganda connected with the rose of the character herein outlined. The commercial man will grow the flowers he exhibits, anyway; the amateur has to be interested, instructed, encouraged and advised.

OUR READERS' VIEWS

Recent Collapse of Trussed Roof Houses.

Editor Florists' Exchange:

Owing to the report having been made in your paper of the collapse of the trussed roof greenhouses at Adolf Farenwald's place near Philadelphia we find ourselves placed in a very unfair position. As we introduced this method of greenhouse construction, and as your report did not state who designed the house that collapsed, most of the people have jumped at the conclusion that these houses were of our design and construction. We therefore think it only right that we mention the fact that these houses were not of our construction.

KING CONSTRUCTION COMPANY.

North Tonawanda, N. Y.

To Dye Carnations Green.

Editor Florists' Exchange:

For the benefit of the readers of The Florists' Exchange, those interested in the coloring of carnations, or any other white flower, green, take 10c. worth of each of aniline blue and aniline yellow; mix same and bring it to the boiling point. The above quantity will make one gallon; or if too strong add more hot water. Don't put the flowers in the dye until it is cold. If the aniline dye is not satisfactory, use methylene blue and aniline (?) yellow. These dyes are harmless and are used in coloring candy.

I have been successful with both of the above named dyes. I am sending a sample of the methylene blue and aniline (?) yellow coloring. Stick a white carnation in it, and see it turn green! I don't sell the material.

Newport, Ky.

L. BENSON.

Mitchella Repens.

Editor Florists' Exchange:

In your issue of March 2, under "Horticultural Notes," *Mitchella repens* is spoken of as a diocious plant, which is a mistake. The flowers of *Mitchella* are all perfect; that is, they contain both pistils and stamens, but they are what botanists term heterogeneous dimorphic forms. The pistils in one set of flowers are exerted, or protruding beyond the corolla, and the stamens included; and in another set the stamens are exerted and the pistils included, which seems to be one of Nature's wonderful provisions for wide fertilization or crossing by insects conveying the pollen, by coming in contact with the exerted stamens in one case and the protruding pistils in the next. Both kinds of flowers bear fruit, and the fact of plants being devoid of berries is easily accounted for by a fondness certain birds have for them. It is an attractive little plant in a cool, damp and partly shaded situation.

New Jersey.

E. R.

A Protest Against Green Carnations (?)

Editor Florists' Exchange:

There are many things daily occurring which prove that this part of the hemisphere at least is inhabited by a few queer mortals. The attempt to gain pecuniary advantage by the deliberate prostitution of the Divine flower by dyeing or coloring white flowers green, is only a sample of what some men find it necessary to do in order to exist. It is pleasing to note that no Irishman is engaged in this degradation of flowers, and we are sure none of the Irish race will be found wearing these "green" carnations on St. Patrick's Day.

These foolish attempts to beguile a weaker part of a most intelligent people by unscrupulous offerings in the way of artificially colored flowers and fake shamrocks deserves the severest condemnation, and it seems to me regrettable that the horticultural press of these United States should seem to encourage this depraved trading. Perhaps the American Carnation Society might consistently take some action toward discouraging the offering for sale of "green carnations."

J. IVERA DONLAN.

Growing Gladiolus with Carnations.

Editor Florists' Exchange:

We have just finished an experiment to our loss, and although one does not like to make known to others a failure so readily as a success, we often think there is as much learned from one as the other.

It was in this way: Last Fall we had two hundred white and light-colored gladiolus bulbs. They had been forced last Spring and had been well dried off. About the end of October we had a carnation bed which we considered too thinly planted. We planted these gladiolus bulbs between the carnation rows alternately. They soon came up and grew rapidly; we staked and tied them neatly. We noticed lately that they were affected with red spider. A number turned yellow, died off and did not show flower. We may say that they were kept syringed on all bright days. To-day, March 1, we pronounced the gladiolus this year a failure, generally.

We have given the effect; now do we know the cause? We think we can answer the question. For several years past we have produced 95 per cent. good spikes, but the corms were planted later and run cooler. This year we thought we would have them in for Easter, ran the house at 60 degrees at night, and

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with sun, 70 degrees by day, but they did not like the treatment. They are natives of the Cape of Good Hope (not tropical plants). We have planted heretofore about January, ran the house at 50 degrees at night and 60 degrees by day. They produced good spikes about the end of May. However, we will know better the next time. The experiment is worth something to us, and we thought it might be to other readers of The Florists' Exchange. J. BEBBINGTON & SONS.

Mixing Carnation Pollen.

Editor Florists' Exchange:

We notice a discussion going on in your columns concerning mixed pollen used in the cross-fertilization of carnations. It is perfectly feasible to use the pollen from almost any number of varieties in making a cross, but we scarcely would advise this, as it is so impossible to trace heredity in the seedlings resulting from such crosses. The theory of Mr. Thommen is quite correct, as a flower represents not one individual, but a group of individuals, of which each ovule is the unit. Only one pollen grain can fertilize any one ovule, but there is no reason why a dozen different ovules may not be fertilized by as many varieties of pollen even though they exist in the same pod. According to the articles it seems that some of these experiments have been tried, but as to the usefulness of such experiments we can see no advantage either one way or the other. We do not think that any plant breeder has been enabled to get any better results from the mixing of pollen than by keeping his crosses perfectly distinct, as there is no absolute certainty as to the results of any given cross. The nearest we have been able to arrive at any definite conclusion has been that certain varieties will transmit to their offspring greater vigor than others; this cannot be determined without specific trial, for in the experience of the writer he has found that some varieties, which in themselves have little merit, will produce in the offspring far better characters than are produced by either or both of the parents.

When we began work in the field of hybridization, we had a theory that such varieties as Mrs. Lawson, Lerna, Enchantress and a few others were absolutely certain to produce high grade seedlings. To verify results, however, we admitted some varieties that were not considered especially meritorious, and in the resulting seedlings discovered that some of the latter were more productive of results than of the former. We have not yet proceeded far enough with our experiments to absolutely prove the truth of this statement, but that is the conclusion we must draw at this time. In fact, several of our most promising seedlings resulted from a cross of Golden Beauty upon Prosperity. Of course, Prosperity is a vigorous grower with good flower, but it must be conceded that Golden Beauty is a very ordinary variety. We think, however, that the seed parent must be of great merit to insure a reasonable percentage of merit in the offspring. This matter has been, and will for many years in the future, be a source of deep study by the writer. It is only by carefully tabulating the data of these crosses that we can trace heredity and discover such laws as may exist, of the transmission of character in the plant.

The writer has gone into this matter considerably further than he intended when starting out and has perhaps said many things that are beside the point raised in the articles referred to.

As to the parentage of the carnation Winsor, we should think from the statement that the Editor's view was correct. IRVING GINGRICH.

Acacias.

Editor Florists' Exchange:

The article on acacias in a recent issue of The Florists' Exchange interested me greatly, for the reason that it gave the method of cultivation necessary to grow the plant successfully in pots under glass. In this land of sunshine, with never a drop of rain during the Summer months, more of this family are being planted for street trees than all other varieties combined, and of all the varieties tested *A. melanoxylon*, known here as black acacia, gives the most satisfaction. It is drought-resistant, free from disease and the attacks of insect pests, makes a fine head without pruning, adapts itself to any kind of soil, and does not break up side walks and curbing. While it blooms profusely, it is not nearly so conspicuous as other varieties, because the flowers are hidden among the dark green foliage.

For wonderful beauty *A. mollissima* easily stands at the head of the list of all large flowering trees grown in this climate. I should like to see the pen capable of describing trees in full bloom, as they are now, February 12—one great pyramid of golden-colored, fluffy blossoms, delicately scented, and this large pyramid composed of hundreds upon hundreds of smaller ones, twelve to eighteen inches long, six to twelve inches diameter, the whole beautiful beyond description. Specimens of this subject may be seen here of two feet diameter of trunk at base with a top of thirty feet spread.

Of the small growing sorts, *A. Baileyana* is, in the opinion of the writer, the handsomest. The fine lace-like, silver gray foliage makes it a desirable shrub for that characteristic alone; but it too, when in bloom is gorgeous. The flowers are borne on stems two to four inches long from the axils of the leaves, and in such great profusion as to look like a great bouquet six feet diameter, eight to ten feet high.

A. cultriformis is equal in beauty to *A. Baileyana* when in bloom, but not so when out of flower. The foliage is curiously set along the stem, reminding one of the teeth of an old-fashioned cross-cut saw.

A. latifolia belongs to the class that bears flowers in form like the "pussy willows" of the East. In the axil of every leaf, in early Spring. There is one variety, *A. floribunda*, which is in bloom every day of the year. The seedlings vary in habit of growth and floriferousness, but a good variety of this low growing tree is very desirable for small places.

A. armata is one of the least attractive varieties that we grow. The foliage lacks in delicate beauty and gracefulness, and when in bloom the plant does not compare favorably with the varieties named above.

A. farnesiana blooms during the Winter months, the flowers being the darkest in color, and the most strongly scented of any variety the writer knows anything about.

A. Julibrissin, known also as *Albizzia Julibrissin*, is a deciduous tree, of irregular growth. The flowers are globe-shaped an inch in diameter, of a most beautiful iridescent color. The foliage, which is compound, has the characteristic of folding up at night.

A near relative of this family is *mimosa*. A fine specimen, and the only one growing here, is *M. Spigazini*. It is a low-growing, very spiny shrub with small compound foliage of a dark metallic hue. The flowers are globular, light purple in color, borne in the axils of the leaves. The seed pods are flat, breaking into single seeded sections, which are held together by a filament on each side, which gives it a curious and interesting appearance. New varieties of this order of plants are being introduced annually, many of which are not yet old enough to flower. P. D. BARNHART.

Fullerton, Cal.

American Rose Society.

The Spring rose show will open in Washington Light Infantry Hall, Fifteenth and E streets, N. W., Washington, D. C., on next Wednesday, March 13, to be open until Friday, March 15, inclusive. The superintendent of exhibition is Louis Freeman, 1307 F. street, N. W., Washington, D. C.

M. H. Walsh of Woods Hole, Mass., advises that he will send on some fine samples of his climbing roses. The judges are Messrs. Robert Craig of Philadelphia; Wm. P. Kasting of Buffalo; and P. J. Hauswirth of Chicago. Papers will be prepared as follows: "The Hybridization of Roses, the Ideals Before the Worker, and the Means Used to Work Up to Those Ideals," by E. Gurney Hill, Richmond, Ind.; "Everblooming Roses for the Garden, What to Grow and How to Grow Them," by Theodore Wirth, Superintendent of Parks, Minneapolis, Minn.; "Climbing and Trailing Roses in the Hardy Rose Garden," by M. H. Walsh, Woods Hole, Mass.

The headquarters of the society will be at the Arlington Hotel. The secretary will be in Washington on Tuesday, March 12, to attend to matters pertaining to the society and show.

There is a particular prize offered by Moore, Hentz & Nash, New York, of \$15 and \$10 in cash to be given to the grower, (that is the man who did the actual work of growing), for the best two samples of roses shown in the exhibition. This is in recognition of the actual workmanship, whether he be the exhibitor or an employee of the exhibitor. Corbey Brothers Bakery offers a cash prize of \$25 for the best mantel decoration. There are altogether 35 special premiums offered outside of the regular society prizes. About three-fourths of the membership have already sent in their annual dues, and several new men have forwarded their checks. BENJAMIN HAMMOND, Secretary.

NEWPORT HORTICULTURAL SOCIETY.—On Tuesday evening of last week this society gave an entertainment for the members and their families, which was a most enjoyable affair. The regular business meeting was of very short duration. One new member was proposed (another dahlia man), and favorable action was taken in the case of another.

The first part of the entertainment included songs by Louis Walker, the noted blind tenor of Taunton, Mass.; T. F. Connelly, Augustus H. Swan and John T. Allan, Jr., the boy soprano. The latter loomed up as the star of the evening. Following were readings by Newport's favorite dramatic elocutionist, Miss Lillian E. Maher, and Mr. Rankin, violin and piano solos by Mr. Ressen and Miss Finn respectively. A collation was served by the committee, with the assistance of the proprietor of the Perry House, Mr. Wiswell. Bruce Bnterton as host did his part admirably. John T. Allan as chairman of the entertainment committee carried the affair to a most satisfactory conclusion. This was the first meeting of the kind held in many years, but it was the best; and it is safe to predict that so long a time will not elapse before there will be another. D. M.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.—The executive committee of the American Association of Park Superintendents held its Midwinter meeting at Manchester, N. H., Saturday, March 2. The business before the meeting was principally the arranging for the annual convention of the association at Toronto next August. The report of Secretary-Treasurer Mulford showed the organization to be in a flourishing condition, having eighty members in good standing.

Among those present at the meeting were: President Byron Worthen, Manchester; Secretary-Treasurer F. L. Mulford, Harrisburg, and Vice-Presidents John F. Cowell of Buffalo, N. Y.; Chas. E. Keith, Bridgeport, Conn.; and John W. Duncan, Boston. Others present included J. A. Pettigrew and W. J. Stewart of Boston. J. W. D.



Philip Winter.

Philip Winter, aged eighty-three years, died last week at the residence of his daughter, Mrs. J. A. Brack, Lakeview road, Glenville. Mr. Winter was one of the pioneer florists of Cleveland. He went there in 1853 and at once engaged in the business of growing and selling flowers. Four children survive him.

Mrs. Arthur H. Ashley.

Louise J., wife of Arthur H. Ashley, florist, New Bedford, Mass., died on Monday, February 25, at the age of 52 years. The funeral was held on Thursday, February 28, and was largely attended by members of the profession and other friends of the deceased lady.

John Henkel.

John Henkel, aged 72 years, died last week at his residence in Allegheny, Pa., after an illness of several months. He was born in Hesse, Germany, and came to this country in 1860. A few years afterwards he opened a seed and farm implement business in Pittsburg which he conducted until a few years ago. His property was taken by the Wahash railroad and he moved over to Allegheny, still continuing in the same business. He was one of the oldest members of the Pittsburg Chamber of Commerce. E. C. R.

O. D. Munn.

Orson D. Munn, proprietor of the "Scientific American," identified for forty years with Llewellyn Park, Orange, N. J., which he did much to beautify, died last week at his residence in New York, aged 83 years. "The Terraces," Mr. Munn's Summer home, consisting of sixty acres of the picturesque woodland of the Orange mountains, was one of the show places of that celebrated locality, taking its name from nine terraces immediately back of the residence, upon which eight gardeners are employed under the superintendence of John Hayes. Mr. Munn designed and donated the spring with its landscape adornments at the entrance to the park and was instrumental in placing the statue there of its founder—Llewellyn S. Haskell. He was a frequent exhibitor at the shows of the New Jersey Floricultural Society. JOSEPH B. DAVIS.

Herman C. Baartman.

Sad in every sense of the word is the news of the death, by drowning, of Herman C. Baartman, Sassenheim, Holland. He was in the bulb business for a great many years, and by his honesty and the high grade of goods he handled he had built up a large business. Mr. Koning was taken in as partner, and the business was conducted under the style of Baartman & Koning. For twelve successive years Mr. Baartman had made his annual business trip to this country, but owing to personal matters at home he decided to send his partner this year. A short trip necessitated his going to England, and on his return he unfortunately took passage on the ill-fated steamer Berlin, when only 14 of the 143 passengers were saved.

Mr. Baartman was 33 years of age. On the solicitation of Ex-President Kasting he became a life member of the S. A. F. O. H., being, we believe, the only foreigner on the life membership list of that organization.

The business will be carried on by his partner, John Koning, who is traveling in this country now.

Mr. Baartman has gone from us, but the memory of the man, and his many fine characteristics will long be honored by his associates, not only in his own country, but also in this land of ours. W. H. G.

Ladies' Auxiliary S. A. F. O. H.

STUB— ETAOINNN Ladies, please take notice, the following states have furnished members for the Ladies Auxiliary S. A. F. O. H.: Missouri, Michigan, Pennsylvania, Illinois, Ohio, Massachusetts, Indiana, New York, Connecticut, Louisiana, Wisconsin and State of Washington. I would like to hear from ladies in the District of Columbia, New Jersey, Colorado, Iowa, Kansas, Kentucky, Maryland, Nebraska, and other states not mentioned. Our supply of pins is becoming small; I hope to have to order more. MRS. CHAS. H. MAYNARD, Secretary.

219 Horton avenue, Detroit, Mich.

A plant has been discovered in the Malay Peninsula, which, it is said, has successfully cured Chinese of the opium habit. The name of the plant is *Combretrum sandaieum*, Miquel. It is a weedy climber with opposite leaves, in size and shape somewhat resembling that of the pear tree, and bears globular clusters of small white flowers arranged in panicles, the flower being followed by a red fruit about an inch long, furnished with four longitudinal wings. The plant is abundant on the plains around Kuala Lumpur, in Selangore, Malay Peninsula. The properties of the *Combretracae*, the natural order to which it belongs, are very little known; some are used in malarial fevers, two are known to possess vermifuge properties, and one is used for poisoning bats.



FRANK R. PIERSON
Vice-President A. R. S.

In a carelessness manner, the grower, if he be interested in the progress of the society, will seek to outdo his brother grower in results, with the twofold advantage of which I have spoken. This is the monetary view of the good that the society has done, and apart from this commercial phase it has brought to light where the rose-loving public may see the creations of the world beautiful to a high degree of perfection, thus demonstrating the skill of our growers. These exhibitions are productive of benefits even to the grower who does not exhibit, but who in order to compete in the open market must perforce grow first-class flowers to hold his own. In short, our society is the harbinger of better prices for every grower.

Number of New Roses Increasing.

While we do not have the great number of new Roses that the European growers exhibit at their great shows, yet we are steadily increasing in the creation of new varieties, as has been well testified to in the past three years, during which time there have been more new roses of merit introduced by American growers than perhaps in a decade previous to that time. Interest in hybridization has been stimulated, and while the work differs very materially from that in carnations, inasmuch as the latter flower responds so readily to the efforts of improvement, yet we are proud of the many new roses that have first seen the light of day in America and have been shown at the exhibits of the American Rose Society.

Then, again, in this branch of the work the necessity for roses that will adapt themselves to our varying climate has been clearly shown, and by intelligent efforts we have accomplished something we have never had before, and that is the creation of roses to suit the planter of the South, as well as the grower in the North, not only for the commercial florists, but especially for the amateur grower, who after all is first to be considered, because if we can enlist the support of the great masses of amateur rose growers in all parts of the country, by helping them to succeed, we know not to what extent the power and influence may extend in beautifying our land and increasing the revenues of our growers.

Few European Sorts Suit American Conditions.

We have found by experience that out of the multitude of new roses sent us from Europe there are but few that have adapted themselves to our climatic conditions, so that it would seem to be the cardinal work of this society to demonstrate that which is best and that which is not best for professionals and amateurs alike, and this can be only accomplished by unity of action among growers, enthusiastic love for the rose, and a spirit that what is good for one of us is good for all. The wants of the buyer of our product vacillates from time to time, and in order to keep abreast of the times and secure flowers that will bring the best price we must needs have some means of acquiring this knowledge, as well as of disseminating it. While Bride, Bridesmaid, Golden Gate and other tea roses of similar character, whose popularity perhaps has not diminished because of the increased number of people who buy, yet it would seem, to touch upon this subject briefly, that as Ex-President Montgomery of the Rose society very aptly stated, "the rose of the future will undoubtedly be raised from a mixture of tea and hybrid tea, producing a hybrid tea of the type of Tom Field and Queen Beatrix, your home roses, Richmond, Liberty, Miss Kate Moulton and others, all roses of the hybrid tea class, because of their high and positive colors, which are now so much wanted. Then, too, these roses require more skill in growing, which means more attention, resulting in the very condition spoken of previously, that the grower secures in the end a greater return for his labor than he could hope to do were we to continue to be satisfied with the favorites of former years. So much for what the society has tried to do in the past.

What May be Done.

Now as to what it may expect to do in the future, and in this city, the subject is one I would not attempt to outline, because it is entirely dependent upon the combined effort of the growers what may be accomplished. If the society goes forward as rapidly as it has done it will accomplish a wonderful good for everyone engaged in the florists' business, not to speak of the great masses of people outside of the florists' trade who are interested in roses. My purpose of being with you is more to ask that the Florists' Club of Washington will give us that earnest support that we know they will, feeling that in doing so we are helping each other. We want more members, not only florists but those outside of the trade, and in order to make the exhibition here a success let us bend every possible effort to increase the membership of the society and stimulate the public interest in our efforts, and with your hearty co-operation we shall have, without doubt, the best meeting and most attractive exhibition ever given by the American Rose Society.

As to what we may expect to do at the forthcoming exhibition in your city, I am unable to give a



ROBERT SIMPSON
President A. R. S.

list of the number of prizes to be offered, but you may depend upon it that there will be a splendid showing. In Boston, if I recall properly, we had about fifty prizes, cups and in cash, with over one hundred competitors. Our President, Mr. Simpson, at the meeting of the Executive Committee a few days ago in New York, informed us that there would be more prizes of greater value offered this year than ever before, and this list will be ready for publication in a very short time. It is yet early for entries, but with your co-operation I feel safe in saying that this will be one of the greatest exhibitions ever held in this country. I would specially urge that if possible the Washington society people be asked to donate some special premiums, to be published in the supplementary list, in order that we may secure their hearty co-operation in bringing the attendance up to the highest mark.

Before closing these remarks, let me again urge your club to give us the very best hand you can in order to push forward the good work, so that it may be said that the Washington exhibition far outshone that which has become so famous held in Boston last year.

If there are any present who are not members, now is the time to get aboard and get a seat in the prow of the boat, even though, as Mr. Montgomery has said, "you do get splashed with an occasional wave."



HARRY O. MAY
Treasurer A. R. S.

are as good, if not better, than any I have ever before seen."

Benefit of Its Exhibitions.

The society's exhibitions have been instrumental in bringing about a keen but friendly rivalry between our commercial growers, and the value of this is readily apparent, because it stimulates the grower to give the cultivation and care of his plants that attention necessary to bring them to the highest degree of perfection, for the purpose of exhibition, thereby increasing the productiveness of his business in cash returns. Then, too, in setting a higher standard of excellence he advances the popularity of the rose in bringing forth its wonderful possibilities. Instead of going about his work



BENJAMIN HAMMOND
Secretary A. R. S.

FOR THE RETAILER

Bulbous Flowers.

Bulbous flowers, or Spring flowers as they are more generally termed, are now at their zenith. There is scarcely a wholesale florist in New York who has not got them by the thousands, and the mystery is, where do they go; what becomes of them? These are the questions that arise from year to year, and yet I am sure the quantity doubles each season, and still they are disposed of. This has undoubtedly been a season of great scarcity and high prices; the advent of the bulbous flower has been a relief all around, and the retailers are at last able to give their customers something for their money. Even the poor can have flowers on their tables. The effect of the great influx of Spring flowers is, of course, "bearish;" roses and carnations have to suffer, and prices naturally ebb toward low water mark. This is not quite as it should be, as any one who has been in close touch with the season's market knows the grower has had far from a good time of it; and now that rose houses are beginning to show a little color other than green, it seems hard that values could not have held to high water mark a little longer. But these are the conditions, and "it's an ill wind," etc., says the man on the street.

There is little change as to variety in the supply of bulbous flowers; about everything has been forced that can be forced, and the quality is up to the usual standard. Bulbous stock in pots and pans is a welcome addition for our plant lovers. Besides hyacinths, tulips, and narcissus I have seen some very pretty pans of Scilla præcox, the blue squill, and the pretty little muscaria, or grape hyacinth, which sell well as novelties.

Luncheons for "ladies only" are the popular entertainment for the Lenten season, and Spring flowers seem to be the correct thing to use for these occasions, which is undoubtedly proper, as the coloring of the blossoms is always seen to the best advantage in daylight. Yellows lose much of their brilliancy under artificial light.

An arrangement noticed during the week was as follows: The center-piece was made of mixed Spring flowers, tulips, hyacinths, narcissus, sweet peas, and several other sorts being introduced and arranged in groups. Beside each plate was a small basket arranged with the same variety of flower as was used in the main decoration, each basket being different and tied with narrow ribbon to match the flowers. Another table was covered entirely with Narcissus poeticus; these were arranged in irregular groups, and were apparently growing out of the rich velvety moss which covered the entire table with the exception of a small margin left for service. Narcissus Golden Spur, combined with Acacia pubescens, was another good suggestion. The table was used without covering, the bare portions being strewn with Princess of Wales violets.

A large table for forty was arranged as follows: The center was occupied by a sundial, the table being laid out in triangular beds, eight in number. These were separated by narrow gravel paths edged with green moss. The effect—yellow and white—was obtained with tulips and narcissus. The dinner was given by an architect. D. RAYBUN.

Seasonable Advertising.

What is known as "seasonable" advertising is nothing more nor less than rowing with the stream. It is taking advantage of circumstances outside of one's own jurisdiction and turning them to profitable account.

The grocer, the dry goods man, the tailor and the candy man, and many others make use of

seasonable advertising, so why should not the florist? In the Fall and Spring the tailor announces his new fabrics; the confectioner advertises his candies at Christmas time. Men will buy clothes when the seasons change, and children will eat candy during the holidays; so advertising for these lines at such times is simply taking advantage of needs and desires that exist and trying to appropriate to one's self as much as possible the privilege of gratifying them.

To the florist seasonable advertising can easily be made profitable. At Christmas, St. Valentine's Day, Easter, Decoration Day, etc., a little preliminary advertising judiciously placed will make itself felt.

One week before St. Valentine's Day this year I decided that it would be possible to induce many a man who intended sending a valentine to send flowers instead. In fact, I believed that many people would do so readily if the thought only occurred to them. With this idea in view, I printed several thousand postcards, like the reproduction, on a good quality of cardboard. One of these was sent to every customer who ever bought more than a dollar's worth of goods from me. The remainder were distributed carefully in the territory from which I draw trade.

The result was very satisfactory indeed. In fact, it was one of the most satisfactory pieces of advertising literature I ever put out, in view of the fact that results were necessarily so prompt.

The cards cost me something like \$18 and produced approximately \$140 in direct business. Much of the business came by telephone. Just as I anticipated, much of it was business that I would otherwise never have received, since the card suggested to the recipient his first thought of sending flowers for a valentine.

H. R. HUGHES.

CLUB AND SOCIETY DOINGS.

NEW JERSEY FLORICULTURAL SOCIETY.—The competitive monthly floral displays of this society were inaugurated February 1 for the current year with three exhibitors under the class for regular gardeners upon estates having glass, and one under class having limited facilities, but with no special provision for orchid displays as in previous years. Orchids were shown by Lager & Hurrell—a table of Laelio-Cattleya Arnoldiana, Dendrobium nobile album and Cattleya Schroedera; Julius Roehrs Company exhibited Oncidium splendens, Cattleya Schroedera, white and colored, and lilac Laura Spathe, Orson A. Miller staged lycastes, Odontoglossum, crispum, Oncidium fuscatum, and Dendrobium virginale, being awarded first-class certificates. Roses and carnations were shown by William Runkle, (gardener, D. Kindsgrab); S. and A. Colgate (gardener, Wm. Reid), A. C. Van Gaasbeek (gardener, W. J. Bennett); Chas. Hathaway, (gardener, Max Schneider). A standard heliotrope grown by Peter Duff, gardener for J. Crosby Brown, Esq., and a specimen begonia grown by Albert Larson, whose name was placed in nomination for membership. The judges for the evening were: William F. Ross, Arthur T. Caparn, and William Reid.

E. R. Pierson Company, Tarrytown, N. Y., made offer through their representative, William F. Ross, of a prize of \$10 for the best twenty-five blooms of carnation Winsor to be exhibited at the society's Fall show.

A committee consisting of M. MacRorie, D. Kindsgrab, and H. Halbig, were appointed to frame resolutions of condolence upon the death of O. D. Munn, a member and patron of the society since 1896.

J. B. D.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words: each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unequalled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

Kansas City, Mo.

SAMUEL MUBBAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLOREAL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLOREALIST, the largest flower store in the South, floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY.—The February meeting of this society was held in the regular meeting rooms on the 26th, President Howard Nichols in the chair. Enoch Evans and A. L. Marshall were nominated for active membership. A fine vase of the new scarlet carnation Beacon from Peter Fisher, Ellis, Mass., was on exhibition, and was awarded a certificate of merit. Three well grown plants of Primula stellata were exhibited by Thos. Atkinson, gardener to Mrs. Henry Seigel, Mamaroneck, N. Y., who was awarded a cultural certificate for same. The monthly prize for the best twelve roses other than American Beauty was won by James Ballantyne with Bridesmaid. It was decided to hold the June show on June 14, and the date of the Fall show was fixed for November 6, 7, and 8. A communication from David Fraser, Pittsburg, offering a prize of \$25 for the best twelve blooms of chrysanthemum Miss Clay Frick at the Fall show was thankfully received, and it was decided by the society to offer the amount as \$15 for first, and \$10 for second prize. A third prize of \$10 was then donated for a similar exhibit by James Regua. James I. Donlan read a paper on "Decorative Work" and gave some good illustrations in the arrangement of cut flowers. Jos. Bradley contributed the cut flowers, among which were Roman hyacinths, Primula obconica, mignonette, cyclamen, carnations, and sweet peas. A very lively discussion followed. This was conceded to be the most animated meeting the society has had in many months, and was thoroughly enjoyed by all. At the March meeting an essay will be read on "Outdoor Roses." D. McFARLANE.

A FULL REPORT of the convention and exhibition of The American Rose Society, to be held at Washington, D. C., March 13-15, inclusive, will appear in next week's issue. A splendid advertising opportunity is afforded the progressive Rose Grower, to present his offerings to the trade in that number. Don't miss it.

LET ME SEND YOUR VALENTINE FOR YOU



EVERYONE sends someone a valentine on St. Valentine's Day. It's one of our most beautiful customs. Next Thursday you will want to send some one a valentine. Let me make a suggestion. It is nothing more appropriate for such a remembrance than flowers, and nothing that will be more appreciated by a woman. I am preparing a Special Valentine Box of Flowers, made up of a large assortment of beautiful and seasonable flowers. I will deliver one of these boxes, with your card, to any address in the city on St. Valentine's Day. Price of the box, complete and delivered, \$1.00. Whether it's a mother, a sister, a wife, a sweetheart, or a friend, you may take my word for it that a Valentine Box of Flowers will reach her heart. Special floral novelties for Valentine Day. Miniature automobiles, 30c. Wheelbarrows of goldfish, 50c. Goldfish outfits, 25c up. Decorative plants, palms, ferns, rubber plants, etc. Vases, jardinières, etc., for decorative purposes. Estimates freely furnished for floral decorations for all occasions—weddings, parties, receptions, banquets, etc.

JUST TELEPHONE ME
WEST 619

HUGHES=FLORIST
690 WEST VAN BUREN STREET, CHICAGO

March 9, 1907

New York.

The Week's News.

On Monday evening, March 11, the New York Florists' Club meeting will be held in the club room, corner of Twenty-third street and Eighth avenue. There is much important business to come before the meeting, and exhibits of reasonable stock will be gladly welcomed by the exhibition committee. It is expected that John Birnie will talk on the city's needs as regards a plant market, and that Secretary Hammond of the American Rose Society will make a few remarks on the forthcoming show of that organization.

The annual meeting and exhibition of the American Rose Society takes place in Washington next week, and we understand that there will be several delegates from this city in attendance there.

There is much complaint among plant growers this year on account of the large percentage of lily bulbs that have turned out failures. It seems to be the general impression that fully 50 per cent. of the bulbs purchased have had to be thrown out. This is certainly a great loss to greenhouse men who make a specialty of forcing lilies, and it seems but reasonable to expect that something should be done to ameliorate or minimize this annual loss to bulb growers. It is a well-known fact that the disease of the bulbs does not show itself until the plant is fairly well developed, and by the time the grower can distinguish the good from the bad and throw away those that are not going to flower, he has used the room in his greenhouse for several weeks, such room, therefore, being actually wasted, so far as his receiving any profit from the space is concerned. If there could be some arrangement made between the bulb grower and the bulb dealer whereby the grower only paid for the bulbs that grew satisfactorily, it would be some slight recompense for the florist who was trying to grow lilies and make a profit on them.

It is also noticeable in many places that there are a good many of the roses being forced for Easter coming blind. This is, no doubt, due to climatic conditions; at the same time it is going to make really good pot roses somewhat scarce for Easter, and it is but reasonable to expect that prices for both pot roses and lilies will be somewhat higher this year than they have been for a long time.

The award committee of the New York Florists' Club made a trip to Bound Brook, N. J., on Tuesday to inspect the new varieties of sweet peas of Anton Zvolanek.

A new feature in the salesroom of the Cut Flower Exchange, corner of Twenty-sixth street and Sixth avenue, is a large diagram of the floor, with the spaces all numbered, ready for the owners' names, which has been placed on the wall. When the name of each standholder is painted in the respective spaces on the diagram, one will be able to see at a glance just where each grower is located in the market.

Early last Sunday morning about a ton of dynamite exploded at Homestead, N. J., where it was stored ready to be used in the tunnel that is making under the Palisades. The explosion was so terrific that it was felt at points 25 or 30 miles away, and in the neighborhood of the explosion much broken glass was the result. Located near that point are the greenhouses of Ernst Asmus' Sons, H. C. Steinhoff, John Birnie and many others. At the Asmus place it was believed that about \$1,000 worth of glass had been broken. At Mr. Steinhoff's place it took a little over fifty boxes to repair the damage. Mr. Birnie lost 300 lights of 16 x 24 glass. Fortunately the weather was not very severe, and aside from the loss of glass no other damage resulted.

L. W. Wheeler of Vaughan's Seed Store was called to Wisconsin on Sunday last owing to the severe illness of his mother. Mr. Wheeler was enabled to get back to business again on Monday of this week, and reported that his mother had taken a turn for the better and her full recovery was looked for.

One of the pretty things seen in the retail florists' windows this week were pots of crocuses in full bloom. Nothing seems more suggestive of Spring than the crocus.

Gardenias were seen on the trays of some of the street peddlers this week. Nothing appears to be too good for the itinerant flower peddler; he will likely be handling cattleyas in due time.

The sympathy of the craft will go out to Wm. Bogart, the well-known buyer for his brother, P. L. Bogart, retail florist at 970 Sixth avenue, whose seven-year old daughter died of pneumonia on Monday evening.

E. E. Bogan, the venerable retail florist at Twentieth street and Third avenue, met with an accident several weeks ago, from which he sustained a broken arm. We are glad to say that Mr. Bogan is improving every day, and it is not likely that he will suffer any permanent injury. He is over eighty years old yet attends to his business every day.

Wm. Elliott & Sons will commence their auction season in their rooms at 201 Fulton street on Tuesday next, March 12. W. J. Elliott, the popular and well-known auctioneer, will at that time offer a splendid lot of hardy decorative stock. Sales will be continued from that date every Tuesday throughout the season.

Vaughan's Seed Store received this week a carload of tuberose and caladium bulbs, also a carload of onion sets.

The florist store of Chas. Stahl, together with the building in which it is located, 610 East One Hundred and Forty-third street, was destroyed by fire on Friday, March 1.

At the recent flower show held by the

(one of the largest growers, said 40 per cent.), while the late arrival of bulbs and the early date of Easter leave some uncertainty in many places as to what proportion will be ready on time. Some growers are equipping their lily houses with extra pipes, and one house visited last week was enduring a temperature of 96 degrees at 4 p. m. which seemed pretty hot treatment, especially when I was informed that it had been up to 110 in the middle of the day. It is generally conceded that there will not be as many lilies as in preceding years and as the market would freely care for, which presages somewhat stronger prices for the select goods at least.

Frank Williams is about to make a decided change of base, having become interested in the new store at the corner of Wabash avenue and Adams street which will have in all its furnishings by March 15, and on May 1 he will abandon the Masonic Temple store on State street.

Sam Pearce's range on Clybourn and Southport avenues is a busy place these days with fifteen thousand pots of lilies approaching maturity for the Easter trade, a seasonable portion of his annual venture of one hundred thousand Holland bulbs, and a thrifty lot of azaleas in different stages of development. The

The dealers who handle the green coloring for 17th of March carnation trade report a large sale.

J. J. Hanswirth left Friday for a two weeks Eastern trip, his itinerary circuit including New York, Philadelphia, where the board of directors of the S. A. F. O. H. will meet on March 11, and Washington, where he will act as one of the judges at the exhibition of the American Rose Society, which takes place on March 13, 14, and 15. At the time of writing it was planned that unless something unforeseen should turn up to prevent, his son Ed. will accompany him on the trip.

Miss Halladay, bookkeeper for Scheiden & Schoes, of the Flower Growers' Market, is anticipating a pleasant visit, directly after Easter, to her former home in Dallas, Texas.

The crop of Easter lilies, estimated at from twenty-five to thirty thousand, out at Poehlmann Brothers Company's, seems to be well in hand and far enough advanced to be considered over the hill, and all were found the latter part of last week in rather cool temperatures, hardening; and though many of them may yet require some encouraging, no anxiety is felt as to developing them comfortably in the remaining time.

Charles S. Stewart of the Winterson force has met with satisfactory success with his green carnation coloring, for which he claims the additional quality of preserving the flowers a day or two longer than under normal conditions.

Invitations quite generally circulated among the gardeners and florists, and reading, "High Ridge gardeners and florists will give a smoker at Weseman's Hall, 4375 N. Clark street, Wednesday evening, March 6, 1907; yourself and gardener or florist friends are cordially invited to attend," gave promise at this writing of bringing together a large gathering for the purpose of a fraternal chat and the renewing and enlarging of acquaintances.

Phil. Breitmeyer of Detroit and Robert Klage of Mount Clemens were among the last week's visitors.

The J. A. Budlong concern is booking advance Easter orders and sees a prospect of an especially bright Easter trade.

Wieter Brothers are among the very few growers who are cutting long-stemmed American Beauty in large numbers. Their teas, too, are especially fine and the outlook for the Easter crop particularly brilliant.

C. L. Washburn left on Monday for the St. Louis show with an exhibit of scarlet seedling No. 20. As an exemplification of the remarkable keeping qualities of this carnation, Mr. Washburn mentions that a bunch was picked on the morning of February 5 and shipped that evening to Mr. Bassett, who sailed from New York on the 8th and who wrote from Funchal, Madeira Islands, on the 13th stating that they were still on the table in good condition—nine days after they were picked in Chicago.

The A. L. Randall Company have had a splendid sale of their Easter novelty supplies and were looking this week for the arrival of a second importation.

The E. F. Winterson Company for the next month will be prepared on short notice to supply orange blossoms, the price averaging about \$2.00 per bunch. This concern was the recipient last week of a consignment of narcissus blooms from California, but the distance proved too great as the flowers arrived in an unsalable condition.

D. T. McCarthy of D. T. McCarthy & Sons, Lockport, N. Y., is spending a few days visiting the interesting points about Chicago.

Leonard Kill left Monday for St. Louis, taking with him a sample of the Peter Reinberg rose products. This concern reports an excellent outlook for Easter business.

Flint Kennicott is fighting his old enemy rheumatism from a new point, it having taken possession of his left elbow.

Bassett & Washburn say that only from 10 to 15 per cent. of their anticipated crop of lilies for Easter will materialize; that American Beauty roses will also be in short supply, but of other roses and carnations an excellent crop is promised.

At the headquarters of the J. B. Deamud, Company affairs assumed a lively garb with the opening of the week, and the report is made that the magnitude of the concern's business the past winter is far in excess of any preceding

WM. K. WOOD.



Pink and White Sport of Rose Bride

Originated with Bernard Lapp, New Providence, N. J.

Carnation Club at Huntington, L. I., it was conceded that the most magnificent carnation shown was the variety Alma Ward, grown and exhibited by the Cottage Gardens Company, Queens, N. Y. The variety Winsor, exhibited by E. R. Pierson Company, was also considered one of the best of its color ever introduced. Among the prize winners at this exhibition were the Cottage Gardens Company for the best in dark pink, white, scarlet and crimson; Jas. D. Cockcroft of Northport, L. I., taking second prize in each of the following colors: Dark pink, light pink, white, scarlet and crimson; first for twenty-five mixed; first for any variety not disseminated and third for light pink.

John King Duer, a cousin of Mrs. Clarence H. Mackay, and until recently connected with the Mutual Life Insurance Company, has gone into the florist business, opening a retail store on Madison avenue, above Fifty-ninth street. Mr. Duer has become tired of being connected with the business that has been so strenuously probed of late, and thinks the florist business will be a more pleasant and agreeable occupation. C. W. Ward, Queens, N. Y., sails for Bermuda to-day (Saturday) for a couple of weeks' rest.

Chicago.

News Notes.

The Easter lily question seems to be the paramount issue of the day. Much forcing in many cases this year seems requisite, and it is probable that large numbers of flowers will just pull through in time. A recent tour among several of the larger growers elicits the fact that they feel more or less uncertainty as to the outcome. The loss on bulbs from disease appears to be about the average of late years, running probably from twenty to thirty per cent.

lilies as a whole are looking well, divided up into eight houses according to height and state of advancement. Mr. Pearce says that most of them are all right for Easter without too much forcing.

How would callas stand the cold storage process? If some of the large numbers which have been put on the market in the past few weeks could have been kept until Easter it would have proved advantageous in several ways to many people.

Next Thursday evening, March 14, the regular club meeting will be held in Handel Hall and should be largely attended, as the subject for discussion, "Easter Plants," is an important and timely one and the essayists, J. S. Wilson and others, are among the most competent culturalists.

The Secretary of State has licensed the Foley Manufacturing Company of Chicago to increase its capital from \$25,000 to \$100,000.

Sphagnum moss at double the usual price is the present condition. Owing to the inability of the pickers to dry the crop before the freezing weather set in last Fall the supply is very short, customary \$1 bales selling for \$2, with a prospect that the stock will be soon exhausted.

H. E. Klunder has been working under difficulties of late having recently crushed the thumb of his right hand as he was alighting from a street car.

L. W. Wheeler, manager of Vaughan's Seed Store, New York, passed through this city last week on his way to the bed side of his mother, who is seriously ill in Wisconsin.

Mr. Graver of Shotwell & Graver of Fargo, North Dakota, was a recent visitor.

Vaughan's Seed Store received a carload of Caladium esculentum bulbs last week.

Now Ready For Delivery

New Chrysanthemums

Miss Clay Frick (the white sport of Wm. Duckham), Winter Cheer and Buttercup; all good commercial sorts. Price, 2 1/2 in., pots, 50c. each; \$35.00 per 100.

American Beauty

7,000 plants in superb condition, ready to pot from 2 1/2 in. Every plant unconditionally guaranteed by me. Price, \$8.00 per 100; \$75.00 per 1000. Samples mailed.

New Carnations

Pierson's Winsor; the all-around good thing. Easy to grow; hard to do without. Also Helen Miller Gould, Imperial and Pink Imperial, all at \$12.00 per 100; \$100.00 per 1000; pots 2 1/2 in., \$14.00 per 100. A splendid lot of White Perfection, in 2 1/2 in. pots, \$10.00 per 100.

CHARLES H. TOTTY, MADISON, N. J.

Mention The Florists' Exchange when writing.

GERANIUMS

10 varieties, 2 and 2 1/2 in. pots, my selection...\$3.00
10 varieties, 3 1/2 in. pots, my selection... 4.00
Alternantheras, red and yellow... 2.00
Fancy Plants, April 1... 1.50
Pansy Seed, Giant flowering, oz., \$4.00

CANNAS

10 varieties, 1 and 3 eyes, my selection... 2.00
Coleus... 2.00
Double Potunias, mixed... 3.00
Vinca, variegated, 2 in. pots... 3.00
Verbenas, April 1... 2.00

CASH

JOS. H. CUNNINGHAM, Delaware, O.

Mention the Florists' Exchange when writing.

Chrysanthemums

WHITE.

Early—George S. Kalb, Polly Rose, Willowbrook.
Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka.
Late—Mrs. McArthur.

PINK.

Early—Glory of the Pacific.
Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, Ethelyn, A. J. Balfour, William H. Duckham, Dr. Enguehard.
Late—Maud Dean, The Harriott.

YELLOW.

Early—Monrovia.
Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham.
Late—Major Bonnaffon, H. W. Reiman.
Root Cuttings, \$2.00 per 100; \$15.00 per 1,000.

A.N. PIERSON, Cromwell, Conn.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

White Shaw, the very best second early 'Mum' takes place of Robinson. No grower should be without it. \$4.00 per 100, rooted cuttings; unrooted, \$2.00.

CARNATIONS

Mrs. W. T. Omwaks (Enchantress Sport), Pink Patten and Mikado, \$4.00 per 100, rooted cuttings; \$2.00 per 100, unrooted. CASE.

HENRY EICHHOLZ, Waynesboro, Pa.

Mention The Florists' Exchange when writing.

CHRYSANTHEMUMS

Bonnaffon, Ivory, Appleton, Enguehard, Robinson, 2 1/2 in., \$2.00 per 100; \$17.50 per 1000. SALVIA and HELIOTROPE, 2 1/2 in., \$2.00 per 100. DOMINANT CANNAS, named varieties, \$2.50 per 100; assorted, \$1.50 per 100. Cash with order please.

W. H. PARSIL, R. F. D. No. 8, Chatham, N. J.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUM

Rooted Cuttings, Strong.

	Per 100	Per 1000
Glory of the Pacific and Polly		
Rose	\$1.50	\$13.50
Heliotropes, R. C.	1.25	
Heliotropes, 2 1/2 in. pots very strong	2.50	

Cash with order please.

PATERSON ROSE CO., PATERSON, N. J.

Mention The Florists' Exchange when writing.

GERANIUMS

Rooted Cuttings ready for shipment the 22nd of March.

PETER BROWN, Lancaster, Pa.

The American Carnation

A.T. De La Mare Ptg. & Pub. Co., 2 Duane St., New York

Mention the Florists' Exchange when writing.

Easter Plants

Cinarias Hybrid Grandiflora. Extra fine in bud and bloom from 5 in. pots \$2.50 per doz., \$20.00 per 100; from 4 in. pots in bud \$10.00 per 100; from 2 1/2 in. pots \$2.50 per 100.

Primula Obconica Grandiflora. The celebrated Kinsdorfer and Laitman Hybrids in bud and bloom from 5 in. pot \$2.50 per doz., \$20.00 p-r 100.

Primula Chinensis. Chinese Primroses, in bud and bloom from 4 in. pots \$1.50 per doz., \$10.00 per 100.

Cyclamen Splendens Gigantum Hybrids. This strain has no equal or better, in five colors including the fringed varieties twice transplanted from flats \$3.00 per 100, \$25.00 per 1000.

Asparagus Plumosus Nanus. From 2 1/2 in. pots \$2.50 from 3 in. \$4.00; from 3 1/2 in. pots \$5.00 per 100.

Cannas. Pres. McKinley, Queen Charlotte, Chicago, Papa, Florence Vaughan, Alphonse Bouvier, J. D. Cabos, started from sandbed \$3.00 per 100; \$25.00 per 1000.

PAUL MADER,
East Stroudsburg, Pa.

CARNATIONS

	Per 100	Per 1000
Victory	\$5.00	\$40.00
Abundance	4.00	30.00
Enchantress	2.50	20.00
Queen		12.00
Geste		12.00
Harlowarden		10.00
Prosperity		10.00
Cannas, X fine, with 2 and 3 eyes		10.00
Robusta	1.00	10.00
Eisele, Marlborough, Anstria, Christie, Queen Charlotte	1.50	15.00

KRAMER BROS., Farmingdale, L.I.
Mention The Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS

Ready Now—Prompt Delivery.

Red Chief—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000.

F. DORNER & SONS CO., La Fayette, Ind.
Mention the Florists' Exchange when writing.

Ready Now—Rooted Cuttings

Of Enchantress, \$2.50 per 100; \$20.00 per 1000. The best commercial light pink Carnation on the market. 1000 rooted cuttings of Robert Craig \$6.00 per 100; \$50.00 per 1000. A very new red, just the right color for Christmas. Our stock is O.K. Write for price list of other standard varieties.

VALLEY VIEW GREENHOUSES,
VELIE BROS., Props., Marlborough, N. Y.
Mention the Florists' Exchange when writing.

GERANIUMS

Rooted in sand, then grown in pots a month. Sent free of Soil.

Dbl. Grant, Buchner, Poltevine, Heard, Perkins, Vland, Nutt, Doyle, La Croix and Mixed, \$1.60 per 100. Geraniums and Coleus are sold up to Mar. 15th.

COLEUS Verschf., G. Bedder, and brightest. Fancy mixed, strong, 60c. per 100. Giant, many kinds, finest of all Coleus, 80c. per 100. GLADIOLI Groff's Hybrids, blooming size, 60c. per 100. SAGE, Ball of Fire, best in every way R. C. 60c. per 100. We send plants by express only and not prepaid.

DANIEL K. HERR, Lancaster Pa.

Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

LARCHMONT NURSERIES, - Larchmont, N. Y.

Mention The Florists' Exchange when writing.

GERANIUMS

for bedding out. Ready May 10th.

WM. J. CHINNICK, Trenton, N. J.

NEW HAVEN, CONN.—The nurserymen of the State of Connecticut met at the Hotel Garde on March 5, and formed a permanent organization to be known as the "Connecticut Nurserymen's Association," with the following officers: John S. Barnes of Barnes Brothers, president; R. H. Gardener of Gardener's Nurseries, vice-president; Frank Elmer Conine of The F. E. Conine Nursery Company, secretary; and W. W. Hunt of Hunt & Company, treasurer; Edwin Hoyt, C. R. Burr and E. F. Coe, committeemen.

STREATOR, ILL.—The Hill Floral Company has shipped 500 cuttings of its new carnation Melody to a firm in Kent, England.

Pittsburg.

Trade Notes.

The florists' trade the past few weeks has been fair; funeral work was the main factor. The weather conditions had much to do to keep up prices considering the Lenten season, but a slight change is now noticeable in the weather as well as values. Carnations have dropped to \$25 per thousand, Roses are slightly reduced and bulbous stock is dirt cheap. Fair tulips are offered at \$15 per thousand, although home-grown stock brings double that price. Daffodils are away down and over abundant; cut Dutch hyacinths are cheap. Callas and Harrisii lilies are more abundant at 15c. Violets are in fair demand.

A visit to several growers in our Western Pennsylvania carnation belt showed things in pretty good shape. J. Wyland has a nice lot of carnations of the best sorts, and bought quite a stock of the new Winsor, which he received some weeks ago; they are the best looking stock of any new carnation that has been sent out for many years. A hench of the Richmond rose was in fine condition, but Mr. Wyland will quit growing roses after this year, devoting his whole plant to carnations. Mr. Wyland's place at De Haven is about 10 or 12 miles by railroad, easily reached, and in a few months an electric car line will pass his establishment, so it can be reached in a few minutes.

C. Hoffman's place adjoins Wyland's. Only carnations are grown here, and they are in good shape.

Several other plants are in the neighborhood devoted to carnations. Mr. Meischke, who has only been in the florist business a few years, is growing a nice stock of roses and carnations principally at his plant at Castle Shannon. He intends to build considerably the coming season, already having purchased material for that purpose.

McCray & Jenkinson, on the West Penn. R. R., are growing some of the finest stock of flowering plants ever offered to the trade and find ready sale for them; they expect a nice lot ready for Easter.

Since the weather has become more Spring-like plants have been selling fairly well and the markets show a good variety. Azaleas are fine so far and there will be enough of them in our vicinity for all needs; John Bader, as usual, has a very large stock.

E. C. R.

St. Louis, Mo.

Newa Notes.

S. S. Skidelsky of Philadelphia was a visitor this week, calling on the trade and attending the Spring flower show given by the Horticultural Society. Walter Retzer has left the employ of Mrs. M. M. Ayers, and it is said, has taken a position with the St. Louis Seed Company.

The exhibition committee is, this Monday morning, hard at work in the Masonic Temple getting everything in readiness for the Spring flower show to be given by the St. Louis Horticultural Society. As this is to be a free show, admission being by card, a large attendance is expected. The premium list was sent out last week and quite a few entries have been made. President Harry Young expects a large number to join the society. Every florist, with the exception of a few, was sent a liberal supply of tickets. The show opens Tuesday afternoon and continues three days.

Frank Fillmore reports that he and Walter Weber visited James Dunford, A. Jablonsky and John Steidle in St. Louis county the past week. They found everything in fine shape in these three places.

C. DeWever, one of our landscape gardeners, has been very sick for the past three weeks, but is now on the road to recovery, and will be ready for Spring work.

E. W. Guy passed through here to his home in Belleville from a visit to his father, T. W. Guy, who has been very sick at St. James, Mo. T. W. Guy, one of the old-time florists, is now retired and lives on his farm at St. James.

C. A. Kuehn reports a large sale of green fluid for carnations, made up of the Manchester Chemical Company, and says the pleasing emerald hue which this fluid brings out catches the eye of the buyer.

Berning handled a large number of California violets the past week, also carnations and bulbous stock.

ST. PATRICK.

The Eighteenth Annual
Spring Number
OF
THE FLORISTS' EXCHANGE

WILL BE PUBLISHED ON

Saturday, March 23, 1907

and all advertisements intended for that issue should reach us on or before **WEDNESDAY, MARCH 20.**

IN drawing attention to this announcement, we would state that firms who have placed their advertisements in our **SPRING NUMBERS** of previous years have invariably found them pre-eminently successful as business bringers; so much so, in fact, that with each succeeding year the demand for space becomes more pronounced.

The date of publication of our **1907 SPRING NUMBER** has been selected after careful consideration of the many phases attendant on the *Florist, Nursery and Seed Trade* and allied industries.

As a means of offering your trade specialties to the greatest number of possible buyers at a time when these purchasers are actually looking for supplies, we submit that **THE FLORISTS' EXCHANGE**, through its **SPRING NUMBER**, presents an unequaled opportunity, *and at much less expense than any other method affords.*

There will be no advance in our advertising rates. Our schedule of charges never varies, and no one advertiser is favored at the expense of another advertiser.

Our paid-up circulation more than adequately covers the entire country, a fact that assures advertisers finding customers for their offerings in every City, Town or Village where a Florist, Seed or Nursery business has been established.

THE FLORISTS' EXCHANGE has, ever since its inception, borne the reputation of being the representative business medium of the trade; thus it is that advertisers continue to give it the cream of their business.

THE FLORISTS' EXCHANGE is, we assert, the best and cheapest medium in its class for advertisers; not that the cost per inch is cheap, but because of the fact, as already stated, that it is the representative trade paper, and has, in addition, the largest number of readers who are the biggest buyers. It stands to reason that it therefore must create a large purchasing clientele for the advertiser.

The question with the progressive, up-to-date merchant is not one of the cost per inch of space, but, Will my advertisement in that paper sell my goods?

Think it over.

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER.
The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.
Our charge is 10 cts. per line 7 words to the line, set solid, without display. No advt. accepted for less than thirty cents.
Display advertisements in these columns, 15 cents per line; count 12 lines agate to the inch.
[If replies to Help Wanted, Situation Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]
Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.
Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—Florist, young man, 22, wishes position as salesman and maker-up. 6 years' experience; references. Address, B., care The Florists' Exchange.

SITUATION WANTED—By middle-aged, married man; all around grower. Address, Wm. H. Klomp, Lakeview Rose Gardens, care General Delivery, Jamestown, N. Y.

SITUATION WANTED—As working foreman, roses, carnations, chrysanthemums. References; married; full particulars and salary please. Address, F. F. Rentz, Summit, N. J.

SITUATION WANTED—By foreman, first-class grower of carnations, roses and general greenhouse stock. Fifteen years' experience. Address, stating salary, D. E., care The Florists' Exchange.

SITUATION WANTED—At once, by German, 37, single, good man for roses, carnations, palms and general stock; also good maker-up; 22 years' experience. Address, R. B., care The Florists' Exchange.

SITUATION WANTED—By gardener and florist on a private place. 46 years of age, married, no children. Life experience, thoroughly competent. First-class references. Address, H. D., care The Florists' Exchange.

SITUATION WANTED—By single man, Scotch, 50 years of age, as working foreman on commercial place, or head gardener on private place. Good references. Address, W. A. W., 181 Newbury street, Boston Mass.

SITUATION WANTED—Head gardener or foreman's position wanted in good-sized establishment by first-class, life-long experience in all branches of gardening; for pleasure or profit. Married, no small children, 8 years in present (commercial) place. Address, A. X., care The Florists' Exchange.

SITUATION WANTED—Single man, 45 years of age, thoroughly qualified as a greenhouse man in all branches of commercial work. State wages, etc., in first letter. Address, Florist, 128 Lexington Avenue, Jersey City, N. J.

SITUATION WANTED—By a thoroughly competent and successful grower of carnations and chrysanthemums. A position as foreman or grower where carnations are principally grown. Married. Address, B. A., care The Florists' Exchange.

SITUATION WANTED—As working foreman or section man on commercial place. Grower of roses, carnations and chrysanthemums. Middle aged man, married, with no small children. 15 years' experience; sober, honest and industrious, with best of references. W. Day, North Cherry street, Lancaster, O.

SITUATION WANTED—By gardener and florist, with executive ability to take charge of private estate. Aged 37, single; only those in need of the services of a competent man need apply. First-class personal references. Address, O. R., box 24, Chappaqua, Westchester Co., N. Y.

SITUATION WANTED—From 1st of April, by young, sober and industrious Swede, to take charge of small commercial greenhouses. Location around New York preferred. Address, M. N., care The Florists' Exchange.

SITUATION WANTED—Head florist in a private place in Europe. 30, single German, seeks position as same in this country. Knows also all kinds of gardening and landscaping. State particulars and wages paid. A. F., P. O. Box 435, Hastings-on-Hudson, N. Y.

SITUATION WANTED—As head gardener in private place. 25 years' experience in England and America. Expert grower of tropical and all kinds of greenhouse plants, fruits and vegetables. Best of references. Address, T. J. R., care The Florists' Exchange.

SITUATION WANTED—To nurserymen, landscapers, etc., position wanted as foreman. Accustomed to plans; experienced in the construction of Alpine, European and American gardens, roads, lakes, etc. Well recommended in handling men. Address, Alpinist, care The Florists' Exchange.

SITUATION WANTED—Open after April 1. The services of a first-class rose and carnation grower, will run place on percentage, shares or salary. 27 years' experience, references; only update parties need apply. Address, K. E. Keulhack, Madison, N. J.

SITUATIONS WANTED

SITUATION WANTED—By thoroughly experienced florist and gardener; private place or summer resort or with landscape or florist firm. Permanent position; good experience in greenhouses and all kinds of outside work. Good hustler, single, aged 32. Address, S. H., care The Florists' Exchange.

SITUATION WANTED—Young man of 20 wishes to learn growing of carnations, roses, etc., with board and room. Only first-class places need to answer. Please state wages and all particulars in first letter. R. Richter, Chichester, N. Y.

SITUATION WANTED—As superintendent of large, private or commercial place by landscape gardener and florist of exceptional ability, energetic, up-to-date, competent to develop and lay out new estates, prudent and thoroughly practical in all branches of horticulture, with over 23 years' experience in Europe and 14 years in this country. Good salary expected, first-class service guaranteed; references. Address, S. P. H., care The Florists' Exchange.

HELP WANTED

WANTED—Single man with some experience in growing carnations. Address A. R., care The Florists' Exchange.

WANTED—A good all-around florist for a downtown retail flower store in Chicago. Must come well recommended. Address, E. F., care The Florists' Exchange.

WANTED—A first-class florist; must be an experienced artist. A. 1 in all respects. A good salary to right man. Frank Williams, 197 Wabash Avenue, Chicago, Ill.

WANTED—At once good grower of carnations and general stock. \$35.00 per month, board and room. T. Malbrae, 130 Barron avenue, Johnstown, Pa.

WANTED—Single man with some experience, for general greenhouse work. Steady position. Give references and wages wanted. Address, X. W., care The Florists' Exchange.

WANTED—At once, experienced and up-to-date cut flower worker; good wages to competent man; used to first-class trade. Address, E. W., care The Florists' Exchange.

WANTED—Married man as foreman; one who understands growing carnations, roses and general stock. Address, R. Shannon & Son, 3350 Fort Hamilton Avenue, Brooklyn, N. Y.

WANTED—Reliable man as assistant in greenhouses. One with some knowledge of roses preferred. Good wages; permanent position. Address, B. R., care The Florists' Exchange.

WANTED—Two young men, familiar with potting plants and greenhouse work. Wages \$10.00 per week. Apply, J. Condon, Florist, Fort Hamilton & Gravesend Avenues, Brooklyn, N. Y.

WANTED—Single man with some experience in roses, in up-to-date new place. Must have good references. State wages with room and board. Madison Cut-Flower Co., Madison, N. J.

WANTED—A good, all-around greenhouse man, married, steady position; none but good, experienced men need apply. Dwelling home provided. Address, A. L. Miller, Jamaica Avenue, Brooklyn, N. Y.

WANTED—Sober, steady young man for rose houses, to work under direction of foreman. Wages, \$50.00 per month; references in first letter. Address, D., care The Florists' Exchange.

WANTED—Gardener, as assistant; competent in all branches; capable of taking entire charge. Place private. Apply stating age, wages expected and references. Box 232, Glen Cove, Nassau Co., N. Y.

WANTED—Single man who thoroughly understands fruit and vegetable gardening, care of greenhouse, lawn, etc. State age, reference and wages wanted. Address, P. O. Box 227, Albany, N. Y.

WANTED—At once, a rapid potter and one thoroughly acquainted with planting out of Spring budding plants. Must be a steady, sober man. References required. Address, John Reck & Son, 985 Main Street, Bridgeport, Conn.

WANTED—Young man with some experience in nursery and greenhouse work. A good opportunity for the right man. Please state salary per month, including board. Address, Northampton Nurseries, Northampton, Mass.

WANTED—Grower of Bulb stock, Ferns, etc. Also thoroughly experienced propagator for general stock; experienced help only need apply. Give reference and state salary in first letter.

THE GASSER COMPANY,
Wholesale and Retail Growers, 1035 Prospect Avenue, Cleveland, Ohio.
Mention the Florists' Exchange when writing.

VIOLET CULTURE

Price, \$1 50 Postpaid
AT De La Mare Pig. & Pub. Co. Ltd., New York

HELP WANTED

WANTED—Young man with some experience in general greenhouse work. Position permanent and good home. State size, experience, references and wages per month with board. Geo. S. Belding, Middletown, N. Y.

WANTED—Willing helper in roses and carnations. Must have some experience. Married German or Swede preferred. State wages wanted with cottage. Address, B. B., care The Florists' Exchange.

WANTED—Carnation grower; must be up-to-date, to take charge. No others but sober men need apply. Wages, \$15. per week. Please send references or call, J. Hauck, 51 Montgomery St., Bloomfield, N. J.

WANTED—At once, first-class grower of carnations and general plant line. Single; must be sober and industrious. Wages, \$50.00 per month, room and board. Address, Box G., care The Florists' Exchange, 127 East Berwyn Avenue, Chicago, Ill.

WANTED—A good, reliable nurseryman who understands the propagation of shrubs, perennials, etc., and who has experience in landscape work. Give full particulars and state salary expected. C. R. Fish & Company, Worcester, Mass.

WANTED—By April 1, single man as assistant; must know the growing of roses, carnations and chrysanthemums. Place private. Drinking man not wanted. Wages \$50.00 and room. Board, \$15.00 per month. Address, Oscar Carlson, Box 238, Fairfield, Conn.

WANTED—Two good men who understand the filling of orders and packing of trees. Place open March 20. Wages will be good and expenses here and return home. Season will last two months, and if parties are satisfactory, permanent position will likely come to them. The Riverside Nursery Company, Confluence, Pa.

WANTED—At once, an able-bodied, intelligent young man of good character to learn the florist business. An excellent opportunity of advancement for the right man. Carnations, violets and bedding plants. Must be able to drive and care for one horse. \$20.00 per month, room and board, to start. Send references in first letter. P. O. Box 108, Berwyn, Chester Co., Pa.

STOCK FOR SALE

TURNER Red Raspberry plants, \$6.00 per 1000; \$25.00 per 5000. W. F. Allen, Salisbury, Md.

VIRGINIA best early, Chesapeake best late Strawberries, Colored plates and catalogue free. W. F. Allen, Salisbury, Md.

PHLOEXES, twenty choice named varieties, strong, field-grown plants, \$4.00 per 100; \$30.00 per 1000. Mt. Desert Nurseries, Bar Harbor, Me.

BOSTON FERNS, bench grown, ready for 3-inch pots, \$1.00 per 100; \$55.00 per 1000; ready for 2-inch pots, \$3.00 per 100; \$30.00 per 1000. R. F. Gloede, Evanston, Ill.

SPLENDID stock, large, 4 year old Barr's Mammoth Asparagus roots, suitable for forcing, \$6.00 per 1000; \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SURPLUS garden peas, 50 bus.; Alaska, \$3.25 per bu., 40 bus.; First and Best, \$2.50 per bu. New crop Northern Michigan grown; none better. W. F. Allen, Salisbury, Md.

STRAWBERRY plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. 60 page catalogue free. W. F. Allen, Salisbury, Md.

DEWBERRY plants, Austin's and Lucretia, \$25.00 per 100; \$200.00 per 5000; Precoc, \$6.00 per 1000; \$25.00 per 5000. Free catalogue. W. F. Allen, Salisbury, Md.

GENUINE Irish Shamrock, 2 1/2 in., \$4.00 per 100; \$35.00 per 1000; 2 1/2 in. at 1000 rate; 60c per dozen by mail. Cash with order. Plants this year very fine. Order now. J. D. Harcourt's Son, Wappinger Falls, N. Y.

BABY RAMBLER ROSES, fine dormant stock, one year, \$12.00 per 100; 2 1/4 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

ROSES, two year old, pot grown, on own roots. Palms, ferns, dracaena and bedding plants. See display advertisement in The Florists' Exchange for March 2, page 282. N. Studer, Acosta, D. C.

ROSES, Bride, Bridesmaid, Golden Oats, Ivory, Kaiserin, 2-in-pots, thrifty plants, \$3.00 per 100; \$25.00 per 1000; rooted cuttings, \$1.50 per 100. Wm. B. Sands, Lake Roland, Baltimore, Md.

GERMAN Ivy, Olechoma, variegated; Tradescantia, R. C., 75c per 100, 2 in., \$1.60. Assorted Begonias, R. C., \$1.25, 2 in., \$2.25. Heliotrope, R. C., \$1.00; 2 in., \$2.00, or will exchange for S. A. Nutt geranium. John O'Brien, Florist, Lenox, Mass.

TO CLEAR the land for other stock: 3,000 Willow, laurel leaved and golden, 4 to 6 ft., \$9 per 100; 6 to 8 ft., \$10.00 per 100, 4,000 White Pine, 8 to 14 in., \$6.00 per 100, transplanted; 6 to 10 in., \$3.00 per 100, seedlings, 2,000 Hemlock, 4 to 6 ft., \$7.00 per 100, transplanted; 6 to 10 in., \$3.50 per 100, seedlings. Fine, clean stock. The Pierce Nurseries, Berterey Farms, Mass.

Thirty cents is the minimum charge for advertisements on this page.

MISCELLANEOUS WANTS

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WANTED—The address of Andrew Dorward, last heard from in Lenox, Mass., as assistant gardener. Address, James Donnid, Box 84, Garrison-on-Hudson, N. Y.

WANTED TO RENT—With privilege to buy, a few greenhouses within 25 miles of New York, 10,000 or more feet of glass. Address with full particulars to A. N., care The Florists' Exchange.

WANTED TO RENT—A well experienced grower of cut flowers wants to rent with privilege to buy, a commercial place in good running order, not less than 10,000 ft., to any amount up. Pennsylvania preferred; would take possession any time. Address with full particulars to H. Z., care The Florists' Exchange.

RARE OPPORTUNITY—For a florist to establish a good paying business; 16,000 inhabitants; one of the fastest growing towns in the State. The grounds are especially adapted for the business. Main Ave., on line of trolley. Five minutes from station. White Plains, N. Y. For full particulars apply to Elmo Brown, 3 Court street, White Plains, N. Y.

FOR SALE OR RENT

TO LEASE—On account of ill health, three greenhouses, each 150 ft., in good condition. Stocked with roses. Thomas Rhedican, Prospect Street, Madison, N. J.

FOR SALE—Well established retail florist business, excellent location in Brooklyn, N. Y. For particulars address, E. M., care The Florists' Exchange.

FOR SALE—Two greenhouses, 150 x 18, planted with roses. Good condition; heated by steam; price \$2,000, if sold at once. Inquire, E. F. Jenyon, Madison, N. J.

FOR SALE—4 greenhouses, each 20 x 150 ft., fully stocked and in good repair; situated on corner property; also dwelling, windmill, sheds, etc. Address, G. T. Hiner, Flemington, N. J.

FOR SALE OR TO LET—Florist business at Shelter Island Heights, L. I. About 1100 sq. ft. of glass, 1 acre of land, and an attractive, well-built dwelling house. Will rent for \$25 per month. Price \$3000. For particulars address, P., Boutton, 233 Gates Avenue, Brooklyn, N. Y.

FOR SALE—A great bargain, retail florist store at 232A Ralph Avenue, Brooklyn, with small greenhouse attached. Established 13 years. Must be sold on account of leaving city. Address, owner, J. M. Schwarz, 232A, Ralph Avenue, Brooklyn, N. Y.

FOR SALE

RETAIL Florists' Store, situated in the best florist district of Harlem (New York). All necessary supplies and fixtures. Other business interests' need owner's immediate attention, and therefore a quick sale will be made for exceedingly low cash figures. Easter trade will probably amount to purchase price. A fine chance for a florist. Address, Florist Store, 232 West 116th Street, N. Y. City.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousand feet were erected, and at present an shipping large range of California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing a large business all through the season. Address, E. Hippard, Youngstown, O.

RARE OPPORTUNITY—Bargain—Woman wants to sell florist place through death of husband. Has run place herself now for several years making \$6000 a year growing for New York market. Very near New York; over 30,000 feet of glass, 8 greenhouses, two boilers, 3 story bullhouse, two story potting shed, dwelling house with four rooms, 2 1/2 acres land on R. R., 2 wells, tank, windmill, horse and wagon, 30,000 peonies, 20,000 dahlias, 6,000 roses, etc. \$20,000, easy terms. Place entirely clear. For further particulars address John Schepers & Co., 4 & 6 Old Slip, New York City.

TO LET Retail Florist Store situated at 98 Broad Street, Newark, N. J. with three greenhouses attached, good show room facilities. Address

THOS. ELSUM
243 Belleville Av. Newark, N. J.
Mention the Florists' Exchange when writing.

FOR SALE

A well equipped place, consisting of seven greenhouses, over 80,000 feet of glass, a nice roomed house, barn, stock, etc., and eight acres of land. This is a decided bargain and a rare opportunity. For particulars address

S. S. SKIDELSKY,
824 N. 24th St., Philadelphia, Pa.
Mention the Florists' Exchange when writing.

FOR SALE

FOR SALE—Boilers, No. 18 Hitchings, \$50.00; 11 Sectional and Porcupine, Chas. C. D. Zimmerman, 131 Norwood Avenue, Buffalo, N. Y.

FOR SALE—Greenhouse material and hot bed sash, tilted from Gulf Cypress to any detail furnished. Oxford putty, specially made for greenhouse and hotbed sash. V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

BOILERS. BOILERS. BOILERS.
SEVERAL good, second-hand boilers of standard make on hand; thoroughly tested, complete in every detail. William H. Linton, West Side Avenue Station, C. R. R. of N. J., Jersey City, N. J.

FOR SALE—Two good 5 ft. horizontal boilers. Were used short time in cotton mills, been replaced with battery of larger boilers. Were running at 90 pounds. Officially inspected in September. Price, including froutts and fixtures, complete, \$350. for both; \$200. for one. G. D. Raunburg, Somersworth, N. H.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. **KROESCHELL BROS. CO., 33 Erie St. Chicago.**

FOR SALE

BOILERS No. 6 Weathered, round, \$90.00. One 8 section Snuray hot water sectional boiler, grate 3 by 3. Price \$160.00. New Henderson boilers; send for price on size wanted. One No. 387 Lord & Burnham hot water boiler, 7 sections, 38 in. grate, heat 8,000 sq. ft. of glass, need one season, price \$160.00, guaranteed.

PIPE Good serviceable second hand. No Junk with new threads. 2 in. 7c.; 1 1/2 in. 5 1/2c.; 1 1/4 in. 4c.; 1 in. 3c.; 2 1/2 in. 10c.; 3 in. 14c.; 4 in. 18c. 4 in. cast iron greenhouse No. 2 in. NEW standard, full length, 100. ft. All kinds of fittings for in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy working, No. 1 cuts 1/4-1/4 in. \$3.00; No. 2 cuts 1/4-1/4-2 in. \$4.00; Armstrong Adjustable No. 2 cuts 1/4-1 in. \$4.00; No. 3 cuts 1/4-1 1/2-2 in. \$6.50.

PIPE CUTTERS Sanders, No. 1 cuts to 1 in. \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed. 12 in., gripe 1 1/2 in. \$1.10; 18 in., gripe 2 in. \$1.50; 24 in., gripe 2 1/2 in. \$2.25; 36 in., gripe 3 1/2 in. \$4.50.

PIPE VISES Reed's Best Hinged Vise, No. 1 gripe 2 in. \$1.76; No. 2 gripe 4 in. \$3.50.

GARDEN HOSE 50 ft. length 3/4 in., guaranteed; 90. for heavy work, guaranteed; 12 1/2 in.

HOT-BED SASH New; Gulf Cypress, 3 ft. x 8 ft. 80c.; glazed complete \$1.80 up. Second hand sash glazed \$1.00 and \$1.25, good condition.

GLASS New American, 50 ft. to the box. 12x12 single \$1.50, 12x12 12x12 10x16 B double \$2.85, 12x14 to 12x20 and 14x14 to 14x20 B double \$2.85, 16x18 and 18x18 B double \$3.00, 18x20 to 18 x 24 double \$3.25 per box. 3x3, 7x7, 8x10 old, single \$1.50, 8 x 10 old, double \$1.85, 12 x 14 old, single \$1.76.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

METROPOLITAN MATERIAL CO.
Greenhouse Wreckers
1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

250,000 CHRYSANTHEMUMS

MONROVIA, POLLY ROSE, ROBINSON, WM. DUCKHAM, PINK PACIFIC, BONNAFFON, J. JONES.

Rooted Cuttings, \$1.25 per 100, \$10.00 per 1000.

ALICE BYRON, CHELTONI, EATON, IVORY, APPLETON, DR. ENGUEHARD.

\$2.00 per 100, \$15.00 per 1000.

Healthy Stock. Enough said.

WM. BECKER, FARMINGDALE, L. I.

Mention the Florists' Exchange when writing.

CARNATIONS—ROOTED CUTTINGS

ENCHANTRESS	100	2000
WHITE LAWSON	\$2.50	\$20.00
MRS. T. W. LAWSON	2.75	23.00
QUEEN	1.50	12.00
VICTORY (Strong plants from soil)	2.00	15.00
PEARY	5.00	45.00
VERBENA VILMORIANA, imported stock from 2 1/2 in. pots (upright grower),	3.00	25.00
	per 100.	

H. A. MOLATSCH & SON - Nantuet, N. Y.

Mention the Florists' Exchange when writing.

PLANT CULTURE

PRICE \$1.00
A. T. DE LA MARE PTG. & PUB. CO.,
2 Duane Street, New York

A COMPARISON OF COSTS

Is the cost of a one inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

Is the cost of a three inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

Is the cost of a six inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

Is the cost of the *one cent stamp* required to mail 369,200 circulars, exclusive of the great additional cost of paper, printing, addressing, etc.

The advertisements in The Florists' Exchange are ALWAYS read. The circular generally goes into the waste basket, without being read.

VERBENAS

and Seedlings, \$1.00 per 100.
Begonia Vernon, 2 in., \$2.25 per 100.
Geraniums, field rooted, 2 in., 90 per cent. scarlet.
Alternanthera, Major and yellow, 75c. per 100. All the above stock is strong and in excellent condition.

W. B. WOODRUFF
Florist Westfield, N. J.
Mention the Florists' Exchange when writing.

Newport, R. I.

News Notes.
After many years of hard work and patient waiting the hearts of the horticulturists at the Rhode Island College of Agriculture are made glad by the completion of an up-to-date greenhouse. Besides the greenhouse which is, because of what will be required of it, divided into several sections, there is connected therewith a commodious office for the use of Professor Stone. There is no doubt that the Rhode Island College was seriously handicapped in the past lacking a greenhouse, and now that a good one has been provided there is every reason to suppose that full advantage will be taken of the facilities it provides for the advancement of horticultural progress.

Although there are not many changes in gardening positions in so far as head men are concerned thus far in Rhode Island, there is nevertheless an unusual demand for young single men of some practical training and experience at wages higher than formerly. Fifty dollars per month, a year or two ago was considered good wages for a young greenhouse man, now there are many receiving fifty-five and quite a number sixty dollars per month.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock
WINSOR and HELEN M. GOULD, \$12.00 per 100 \$100.00 per 1000.
ROBERT CRAIG, VICTORY, HELEN OGDARD \$6.00 per 100. \$50.00 per 1000.
RED LAWSON and VARIEGATED LAWSON, \$4.00 per 100. \$30.00 per 1000.
LADY BOUNTIFUL, NELSON FISHER, and WHITE LAWSON, \$3.00 per 100. \$25.00 per 1000.
BOSTON MARKET, GENERAL MACEO, MRS. T. W. LAWSON, PINK ARMAZINDY; MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

VERBENAS—Best Mammoth, rooted cuttings	Per 100	Per 1000
Agaratum, Cope's Pet. White Cap,	\$1.00	\$ 8.00
P. Ferline and Stella Gurney	1.00	8.00
Achyranthes, 4 sorts	1.00	8.00
Coleus, best bedding and fancy sorts	1.00	8.00
Cuphea, Platycentre	1.25	
Fuchsia, double and single varieties	2.00	15.00
Feverfew, The Gem	1.60	12.00
Geraniums, double and single	2.00	15.00
Heliotrope, light and dark	1.25	10.00
Ivy, German	1.25	
Moon Vine, true white	2.00	15.00
Salvia, splendens, Bedman, etc.	1.25	10.00
Salvia, new early flowering sorts	1.50	12.00
Vinca, variegated and Elegans, 2 1/2 in. pots		5.00

CANNAS
Strong dormant Roots in 30 fine varieties \$2.00 and \$3.00 per 100; \$18.00 and \$25.00 per 1000.

Send for List.
WOOD BROS. - Fishkill, N. Y.
Mention the Florists' Exchange when writing.

ASPARAGUS

PLUMOSUS NANUS, 2 1/2 in. pots.. 4.00
" " 3 in. pots .. 5.00
" " 4 in. pots .. 10.00
SPRENGERI, 2 1/2 in. pots..... 3.50
" 3 in. pots..... 5.00
" 4 in. pots..... 8.00

Grafted ROSES Own Roots
Orders booked for early delivery. KILLARNEY, RICHMOND, JOE HILL, KAISERIN, GARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, PERLE, SUNRISE, SUNSET, etc.

MANETTI STOCKS
\$1.25 per 100; \$10.00 per 1000.

CHRYSANTHEMUMS

A. J. BALFOUR, COL. D. APPLETON, DR. ENGUEHARD, GEO. KALB, MRS. MCARTHUR, MONROVIA, MRS. BARCLAY, MAUD DEAN, META, MISS ALICE BYRON, MRS. COOMBS, NAGOYA, OPAH, ROBT. HALLIDAY, SOLEILE D'OCTOBER, SUPERBA, VIVIAN MOREL, WHITE BONNAFFON, WM. DUCKHAM. Price, Rooted Cuttings, \$2. per 100; \$15. per 1000.
AUTUMN GLORY, ADA SPALDING, CREMO, COLLINGFORDII, DOROTHY DEVENS, GLORY PACIFIC, HARRY MAY, H. W. REIMAN, IVORY, J. E. LAGER, J. H. TROY, MRS. JEROME JONES, MINNIE WANNAMAKER, MRS. BAER, MAJOR BONNAFFON, MAD. FRED. BERGMAN, NIVEUS, PINK IVORY, TIMOTHY EATON, W. H. LINCOLN, XENO. Price, Rooted cuttings, \$1.50 per 100.

FOR SALE
A few hundred Feverfew, Gem, 2 1/2 in., \$2.50 per 100. Also a few ounces of Pink June Tomato Seeds saved from selected fruits.
T. C. AUSTIN & Sons,
SUFFIELD, - CONNECTICUT

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Price \$6.00 per 100. \$50.00 per 1000. 43 W. 28th St. NEW YORK. Grower, LYNBROOK, L. I.

Rooted Carnation Cuttings

CLEAN, HEALTHY STOCK FOR IMMEDIATE DELIVERY.

WHITE		SCARLET	
Per 100	Per 1000	Per 100	Per 1000
White Perfection, pure White...	\$ 6.00 \$50.00	Cardinal.....	\$4.00 \$30.00
We have the largest stock of this variety in the country.			
White Lawson.....	3.00 25.00	Red Lawson.....	4.00 30.00
Lady Bountiful.....	3.00 25.00	PINK	
Lieut. Peary.....	4.00 30.00	Daybreak Lawson or Melody...	6.00 50.00
SCARLET			
Red Riding Hood, new.....	12.00 100.00	Enchantress.....	2.50 20.00
Victory.....	6.00 50.00	Helen Goddard.....	5.00 45.00
		Flancee.....	4.00 30.00
		Variegated Lawson.....	3.00 25.00
		Harlowarden (Crimson).....	2.00 15.00
		Aristocrat, beautiful cerise, the best variety disseminated this season.	

ROSES

Rooted Cuttings, March 15. \$2.00 per 100, \$15.00 per 1000
BRIDES, MAIDS, GOLDEN GATES, UNCLE JOHN, CHATENAY and RICHMOND

CHRYSANTHEMUMS

Cuttings.		March 15th.	
Per 100	Per 1000	Per 100	Per 1000
Mrs. Mary Mann	Mersham Yellow	W. H. Chadwick	Golden Chadwick
Adelia	Estelle	Cremello	Yellow Bonaffon
Touset	Mrs. Nathan Smith	White Bonaffon	Glory Pacific
Majestic	Ivory	Pink Ivory	Mrs. Robinson

CHICAGO CARNATION CO. A. T. PYFER, Mgr. JOLIET, ILL.

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
MRS. LAWSON	\$ 2.00	\$15.00	WHITE CLOUD	\$ 1.25	\$10.00
GUARDIAN ANGEL	1.50	10.00	FRED BURKI	2.50	20.00
ENCHANTRESS	2.50	20.00	HARLOWARDEN	2.00	15.00
LIEUT. PEARY	3.00	25.00	CHICAGO	1.50	12.50
BOSTON MARKET	1.50	11.00	ESTELLE	2.00	15.00
			RED SPORT (MACEO)	2.00	15.00

CHRYSANTHEMUMS

CLEMENTINE TOUSET (Early Chadwick), finest early white, \$2.50 per 100. R. C. ready now. We have the largest stock in the country of this fine variety.

ROSES from 2 1/2 inch pots

	Per 100	Per 1000		Per 100	Per 1000
BRIDES	\$ 3.00	\$25.00	CHATENAY	\$ 3.00	\$25.00
BRIDESMAIDS	3.00	25.00	UNCLE JOHN	3.00	25.00
RICHMOND	3.00	25.00	KAISERIN AUG. VIC.	4.00	35.00

WIETOR BROS.

Wholesale Growers of Cut Flowers

51 Wabash Avenue, CHICAGO

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS READY NOW

Strong, healthy and Thoroughly Rooted Cuttings of the following varieties:

	100	1000		100	1000
Victory (scarlet).....	\$6.00	\$50.00	Lieut Peary (white).....	\$3.50	\$30.00
Robt. Craig.....	6.00	50.00	Lady Bountiful.....	3.00	25.00
Red Sport.....	3.00	25.00	White Lawson.....	2.50	20.00
Enchantress (pink).....	2.50	20.00	Boston Market.....	2.00	15.00
Lawson.....	2.00	15.00	Queen.....	2.00	15.00
Mrs. M. A. Patten var. 2.50	2.50	20.00	Queen Louise.....	2.00	15.00

Remember we guarantee satisfaction.

250 of any one variety at 1000 rate. Write for discount on large orders.

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

Mention the Florists' Exchange when writing.

VISIBLE

TRADE MARK

INVISIBLE

SAVE YOUR SPLIT CARNATIONS

The Baur Clip and Plyer will do in a effortless manner at a minimum of time and expense. Saves lots of money. Inexpensive. Instantaneously applied and Practically Invisible. The Clips are made of galvanized wire and are colored green just the color of the calyx and can hardly be detected. Thoroughly up-to-date in every particular.

Plyer \$3.00; 1000 Clips \$1.00; postage prepaid 'd.

All the leading dealers in Florists' Supplies, or direct from

BAUR FLORAL CO., Erie, Pa.

MABELLE--New Pink Carnation for 1907

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size.—Three to four inches in diameter when established. Odor.—Pleasant, but not strong. Stems.—Tolerably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.—A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness.—Prodigious in the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. No discounts. First class certificates Mason and Indianapolis. Delivery Jan. 15 to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD.

Mention the Florists' Exchange when writing.

Beacon Carnation

Will prove a boon to the average florist.

Orange Scarlet

Has been proved to be the Most Profitable Commercial Scarlet.

Not a fancy shy-blooming sort, but one of the "Cut and Come again" varieties.

PRICES:

Per 100, \$12.00,.....50 at 100 rate	Per 500.....\$90.00 per 1000
Per 1000, 100.00,..... 250 at 1000 rate	Per 10,000..... 80.00 per 1000
Per 2500, 95.00.....Per 1000	In lots of 20,000 or more, cash with order.....\$75.00 per 1000

March Delivery.

Cottage Gardens Peter Fisher, Company, (Originator) Queens, N. Y. Ellis, Mass.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

	Per 100	Per 1000
WHITE—Queen.....	\$1.50	\$12.50
PINK—Pink Patten.....	\$4.00	
Helen Goddard.....	\$4.00	
Ethel Ward ready about Mar. 25, \$1.60		\$12.50
Harry Penn ready about April 1, \$1.50		\$12.50

All others sold out for the season. I thank the Florists for their generous patronage.

QUIDNICK GREENHOUSES
J. H. CUSHING, Prop., QUIDNICK, ANTHONY, P. O. R. I.

Mention the Florists' Exchange when writing.

Don't Throw Away Your Easter Profits

Save your Pinks from splitting by using the M. & D. Artificial Calyx. Easily applied and removed; lasts forever; first cost the only cost.

\$1.76 per hundred, \$16.00 per thousand, 260 at thousand rates.

Send for MAXFIELD & DIMOND, Manf. Pat. Sep. 18, 1906, Sample, P. O. Box 804A Warren, N. J.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS March and April Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices. ALBERT M. HERR, LANCASTER, PA.

CARNATIONS FINE, STRONG PLANTS

Robert Craig, 1 1/4 in. pots.....	100	1000
Variegated Lawson, 1 1/4 in. pots..	3.00	25.00
Victory, 1 1/4 in. pots.....	8.00	60.00

ROBT. C. PYE, NYACK-ON-HUDSON, N. Y. Mention the Florists' Exchange when writing.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa. Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

5000 ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000.
2000 JOHN E. HAINES, \$5.00 per 100; \$45.00 per 1000.
1000 ROBERT CRAIG, \$6.00 per 100; \$50.00 per 1000.

WHITE BROS., Gasport, N. Y. Mention the Florists' Exchange when writing.

ABUNDANCE

Rooted cuttings of the most prolific white carnation will be ready for delivery in January. Price, \$6.00 per 100; \$40.00 per 1000; 250 at 1000 rate; 6 per cent. discount for cash with order.

RUDOLPH FISCHER, Great Neck, L.I., N.Y.

S. J. GODDARD

Framingham, Mass. Rooted Carnation Cuttings a Specialty. Correspondence Solicited.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties
 Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

A. J. GUTTMAN,

The Wholesale Florist of New York.
 43 WEST 28TH STREET.

JOHN E. HAINES,

BETHLEHEM, PA.

Britannia. Bright scarlet of large size, similar but better in every point than Victory. Premier vases of scarlet W. F. C. S. £5 per 100 for plants in pots; 25 at 100 rate.

Dutton's White Lawson Improved. This variety sported at Bexley Heath; quite distinct from American sport; has improved Lawson habit, longer stem, greater perfume, and if possible freer in flower. The best market white, size equal to White Perfection; for all round points has no equal. £5 per 100 for plants in pots; 25 at 100 rate. The best two English novelties for 1907.

A. F. Dutton, The Nurseries, Iver, Bucks, England

CARNATIONS ROOTED CUTTINGS NOW READY

	Per 100	Per 1000
PINK LAWSON.....	\$1.50	\$12.00
WHITE LAWSON.....	3.00	25.00
RED LAWSON.....	2.50	20.00
BOSTON MARKET.....	1.50	12.00
J. H. MANLEY.....	1.50	12.00
ENCHANTRESS.....	2.50	20.00
PROSPERITY.....	1.50	12.00
VICTORY.....	6.00	
FIANCEE.....	3.50	30.00

CASH WITH ORDER.
WENDEL BEAR, PALMER YONKERS, N. Y. AVE.,
 Mention the Florists' Exchange when writing.

JOHN E. HAINES

The leading scarlet, brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place.
 ROOTED CUTTINGS, \$6.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa.
 Mention the Florists' Exchange when writing.

Indianapolis.

News Notes.
 Almost all of the regular growers attended Tomlinson Hall market this week with a heavy supply of stock. Both wholesale and retail business was very brisk.

Sidney Smith, Anthony Wiegand and Edward Larsen visited the growers at Richmond, Ind., last Sunday. E. G. Hill Company's new rose, Miss Rhea Reid, must certainly be fine. Some aver that it eclipses the American Beauty in almost every attribute.

Charles Knopf and E. T. Grave are well equipped with seedling carnations.

The Smith & Young Company is to plant fifteen acres of their Cumberland plant in fruit this Spring.

E. A. Nelson has lost his mother by death; she was closely associated with him.

Henry Rieman intends installing a water motor for his soft water system. Bertermann Brothers Company is to increase its Cumberland establishment as soon as the weather permits.

Fred Huckreide has a quantity of fine Harrisii lilies for Easter.

Baur & Smith are to erect a large rose house this Summer.

Robert Ellis, carnation foreman for Bertermann Brothers Company, is at Anderson, Ind., this week attending the funeral of his mother at the home place. The boys extend their sympathy to Bob.

S. S. Skidelsky spent some time here this week. He is much interested in the coming national show, and has been successful in securing over one thousand dollars for the guarantee fund.

Other visitors: E. J. Fancourt, Philadelphia; S. Keller of Reed & Keller. I. B.

WELL ROOTED HEALTHY STOCK

CARNATIONS

Well Rooted Cuttings

	Per 100	Per 1000
PINK		
Lawson.....	\$1.50	\$10.00
Nelson.....	1.50	10.00
Nelson Fisher (cerise).....	2.50	22.50
LIGHT PINK		
Enchantress.....	2.50	22.50
VARIEGATED		
Mrs. Patten.....	2.50	22.50
WHITE		
Boston Market.....	1.25	10.00
White Lawson.....	3.00	25.00
RED		
Robert Craig.....	6.00	60.00
Cardinal.....	2.50	20.00
Estelle.....	2.00	17.50

ROSES

Strong and Well Rooted Cuttings

	Per 100	Per 1000
Richmond.....	\$1.50	\$12.50
Liberty.....	2.00	17.50
Bridesmaid.....	1.50	12.50
Bride.....	1.50	12.50
Sunrise.....	3.00	25.00
Uncle John.....	1.50	12.50
Chatenay.....	1.50	12.50
Ivory.....	1.50	12.50
Perle.....	2.00	17.50

ROSE PLANTS

From 2 1/2 inch Pots. Ready for Shipment.

Richmond.....	\$3.00	per hundred
Bridesmaid.....		
Uncle John.....		
Chatenay.....	\$25.00	per thousand
Bride.....		
Ivory.....		
Liberty.....	\$4.00	per hundred
Perle.....	\$35.00	per thousand
Sunrise.....	\$5.00	per hundred
	\$40.00	per thousand

Killarney 2 1/2 inch pots Grafted Stock. \$10.00 per Hundred BENCH PLANTS

One year old plants from Benches, Liberty, Ivory, and Perle. \$5.00 per hundred, \$40.00 per thousand.
AMERICAN BEAUTY. \$10.00 per hundred, \$75.00 per thousand

PETER REINBERG, NO. 51 WABASH AVENUE, CHICAGO

Mention the Florists' Exchange when writing.

CARNATIONS

Strong, healthy, well rooted stock

	per 100	per 1000	from pots
White Lawson.....	\$3.00	\$25.00	\$3.50
Bountiful.....	3.00	25.00	3.50
Cardinal.....	2.50	22.50	3.00
Enchantress.....	2.50	22.50	3.00
Lawson.....	2.00	15.00	2.50
Harlowarden.....	2.00	15.00	2.50
Queen.....	2.00	15.00	2.50
Boston Market.....	1.50	12.50	2.00

Cash with Order. Satisfaction guaranteed.

SMITH & GANNETT
 Geneva, New York
 Mention the Florists' Exchange when writing.

LOOK HERE

ROOTED CARNATION CUTTINGS
 250 at 1000 rate

LADY BOUNTIFUL, WHITE LAWSON, VARIEGATED LAWSON, \$3.00 per 100; \$25.00 per 1000.

MRS. PATTEN, ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000.

BOSTON MARKET, FAIR MAID, QUEEN LOUISE, HARLOWARDEN, PROSPERITY, MRS. LAWSON, \$2.00 per 100; \$15.00 per 1000.

HELEN GODDARD, \$5.00 per 100.

WILSON MARSHALL, Red Seedling, \$5.00 per 100; \$45.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE, BRIDGEPORT, CONN.
 Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings

	Per 100	Per 1000	Per 100	Per 1000
White Perfection.....	\$6.00	\$50.00	\$2.50	\$20.00
Light Pink Lawson.....	6.00	50.00	2.50	20.00
Glandale.....	5.00	40.00	2.50	20.00
Victory.....	5.00	40.00	2.50	20.00
Robert Craig.....	5.00	40.00	2.50	20.00
Fiancee.....	3.50	30.00	1.50	12.00
Cardinal.....	2.50	20.00	1.50	12.00
Lady Bountiful.....	2.50	20.00	1.00	8.00

250 at 1000 rates.

ASPARACUS. Ready for shift, strong.
ASPARACUS SPRENGERI. 3 inch \$4.00 per 100; 4 inch \$6.00, 5 inch \$20.00.
ASPARACUS PLUMOSUS. 3 inch \$5.00, 6 inch \$20.00. Cash or C. O. D.

W. J. & M. S. VESEY, Fort Wayne, Ind.
 Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

READY FOR IMMEDIATE OR LATER DELIVERY
 Victory, \$6.00 per 100; \$50.00 per 1000
 Lady Bountiful, \$3.00 per 100; \$25.00 per 1000
 Variegated Lawson, \$4.00 per 100; \$30.00 per 1000
 Pink Patten, \$5.00 per 100; \$40.00 per 1000
 Enchantress, \$2.50 per 100; \$20.00 per 1000
 Boston Market, \$1.50 per 100; \$12.50 per 1000
 Carnation Specialists.
JENSEN & DEKEMA 674 West Foster Ave., Chicago, Ill.
 Mention the Florists' Exchange when writing.

CARNATIONS

Rooted cuttings Victory, \$8.00 per 100; \$50.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patten, \$2.50 per 100; \$20.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Fenn, and Fair Maid, \$2.00 per 100; \$15.00 per 1000, 5 per cent. discount for cash with order.
R. ENGELMAN & SON, Pittsfield, Mass.
 Mention the Florists' Exchange when writing.

PLANT CULTURE

PRICE \$1.00.
A. T. DE LA MARE PTG. & PUB. CO.
 2 DUANE STREET, NEW YORK

REVIEW OF THE MARKET

NEW YORK.—Everything is exceedingly quiet in cut flower circles just now. From the limited amount of stock that prominent retailers are purchasing, it is quiet evident that branch of the business is very quiet. Whether it is on account of it being the Lenten season or unfavorable weather conditions, that the flower trade is so inert, is hard to determine. Aside from funeral work there is nothing much doing.

American Beauty roses seem to be off crop with everybody, judging from the supply at present reaching the city, and it can safely be said that this rose is about the only commodity in the market that is holding up to fair prices. Bride and Bridemaid roses are much more plentiful than formerly, and as the season advances the percentage of the short grades is getting smaller. This makes it rather a hard proposition for the dealers, as what demand there is for roses is nearly all for the short grades, and as a natural consequence, these are bringing a fairly reasonable price all the time owing to their very scarcity, while the long-stemmed flowers have to be sacrificed in order to clear them out. There is a fair supply of Richmond coming and the number of Richmond grades dominate; and the general grade stock is not plentiful at any time, and for the American Beauty grower, perhaps it is a good thing that this is so, as many people are willing to take the long-stemmed Richmond flowers when they can get them, and use them in place of American Beauty, they being much cheaper and very similar for their decorative purposes.

There is a good supply of callas just now; also of longiflorum lilies, and prices are not quite as firm as they might be. Marguerites which they have done for several years past, through some cause or other, and this is not owing to the supply either, the quantities shipped into the market not being as heavy as in other years.

Carnations are coming in quite plentifully, and there is to be much cutting of them in order to clear them out from day to day. A good grade of carnations can now be had in quantity at \$2 per 100; in fact, this seems to be about the ruling price for the good kinds. Many of the inferior flowers are sold at \$1 per 100, and it is hard work to clear them out at that. Novelty flowers have also suffered a proportionate decrease in values.

Lilac is selling very poorly, as also is lily of the valley, and there is plenty of both coming in regularly. The greatest drug in the market is the yellow narcissus and white and yellow tulips; there are absolutely no fixed prices on these. Red tulips, not being so plentiful, can be disposed of to a little better advantage at times.

The continued cold weather has put violets in a very unsatisfactory condition. Last Sunday the weather being a little mild, the street men were engaged to cut busy, and they did, with violets, to quite an extent. They could purchase left-over stock from the dealers at prices ranging anywhere from 75c to \$1.50 per 100. These seem pretty low values, but there were many thousands of violets cleared out at these figures; in small lots, they are being sold at 20c and 30c per 100; and that gives a pretty fair index of the condition of the violet market at the present time.

Freerias and sweet peas are becoming more plentiful and move fairly well considering the present state of trade. Gardenias are much too abundant for the demand, and prices are anything but firm.

CHICAGO.—Last week was one of decided over-supply in nearly all lines of standard grades of cut flowers, and as the quality has continued to improve with longer days, narcissus, freesia, callas, carnations, and lily of the valley of good quality were much cut in price, while poorer stock was not infrequently sacrificed. Excellent violets in large quantities sold as low as \$2 to \$3 per 1000 at times, while great quantities of the valley also suffered extremely, it seeming next to impossible to move it at cut prices. Roses, which are continually increasing in supply, do not show the tendency to glut that is evidenced among the other staples, and long-stemmed American Beauty are not to be had in large numbers.

Green goods are selling pretty well there being no over-supply, unless it be in box green. Asparagus is taken up quickly, and sinlax is generally on the short side, good and even fancy prices having been paid up with no apparent relief in sight and with a very general impression among the best prophets that existing conditions will

prevail practically unchanged for the immediate future. One feature of interest on Monday was the immense stock of New York and local violets which appeared forcing the price in some instances down to \$1 per 1000.

W. K. W.

PHILADELPHIA.—The end of last week we had two mild days and this was the means of a large amount of the surplus stock of flowers being sold to the street men; consequently on Monday the market opened up in much better shape and for two days business has been very fair. But carnations and bulbous stock are rapidly accumulating. The more plentiful classes are holding up very well. American Beauty are selling at \$8 per dozen for the choicest flowers. There is a very good demand for tea roses; some fancy Richmond have sold at \$25 per 100; other grades run \$10 to \$15. Killarney is in good demand; the price ranges from \$10 to \$15 per 100 only a few reaching the latter figure. General stock of other teas runs from \$6 to \$10 per 100.

Carnations are very plentiful; fancy stock is selling at \$4 to \$5 per 100, but slowly; plenty of good flowers can be had at \$2 to \$3.

Cut lilies are in fair demand at \$15 per 100. Bulbous stock is in large supply, far beyond all demands, and prices rule low; some daffodils are selling at \$2 and \$3 per 100. Tulip go very slowly.

Sweet peas are also in excess of the demand, the very choicest stock going at \$1 per 100. Double violets are this week offered at \$70 per 100. Daisies are selling fairly well at \$1.50 to \$2 per 100. Lily of the valley is coming in in large quantities; prices run from \$2 to \$4 per 100.

Good adiantum is rather scarce; A. Crowneum is quoted at \$1.50 per 100. Asparagus plumosus is also scarce; there is a good market for choice stock.

DAVID RUST.

BOSTON.—There have been several ups and downs during the week and in the case of all kinds of stock there is a tendency to a surplus at the present time. Roses sell at from \$2 up to \$12. American Beauty are now better than they were, but prices are not so high. Carnations are plentiful at from \$1 to \$3. All sorts of bulbous stock are now very plentiful; some kinds sell in quantities at \$10 and \$12. Violets are of the first-class stock bring \$2. Mignonette realizes \$2 and \$4. Sweet peas are very plentiful at from 25c to 50c, although the superb long-stemmed blooms of some growers readily bring \$1 and \$2. Lilies are becoming more plentiful at \$10 and \$12. Violets are very abundant at 25c and 35c for the general grade, while first grade sells at 60c.

J. W. D.

ST. LOUIS.—Trade has been moderately good during the past week. All report a very good February business, and Lent does not seem to cut much of a figure this year, as a few weddings, receptions, dinners and other social affairs have been going on all during Lent. Funeral work, too, has been quite plentiful of late. The downtown florists are almost daily having a flower war on violets and carnations, each one bringing out the other at the wholesale market every morning, while the upper set are busy getting ready for their Spring flower show to be held this week. The wholesalers report a good, steady market for almost everything in season, for both local and shipping trade. Our growers are busy attending to their Easter stock, with a great many orders ahead for almost everything they will have in bloom.

A trip through the wholesale markets this Monday morning shows that roses are still scarce in all grades, and prices are up. Bride and Bridemaid are bringing \$12.50 to \$15 per 1000. Firsts, \$8 and seconds, \$5 and \$6 per 100. Ivory, Richmond, Golden Gate and Mme. Abel Chatenay run about the same. Carnations seem very plentiful, with prices for extra fancy at \$4 per 100. This is for Enchantress, White Perfecta and Aristocrat; others such as Cardinal, Mrs. T. V. Lawson, Boston Market and Nelson Fisher, are realizing \$3 for the best; next choice runs from \$1.50 to \$2 per 100.

Violets are in abundance (all California), and these are being bought up in 5000 lots at \$2 per 100; quality extra fine. Many growers think that California violets will be scarce for Easter, as too many are coming in at present.

Bulbous stock is selling well, with plenty of it coming in for all demands. Dutch hyacinths bring \$4 to \$5 per 100; Roman hyacinths, \$2; Paper White narcissus, \$3; tulips, \$3 and \$4; Von Sion narcissus, \$2 to \$3; freesia, \$2; callas, \$10 to \$12.50; lily of the valley \$3 per 100. This stock has had a good call all of the past week. Extra fine

sweet peas, white and pink, are coming in at \$1 per 100 for long and 50c. for short grades. In greens, sinlax is selling well, also fancy and common ferns. Asparagus, too, sells well. Everything else is in plenty.

ST. PATRICK.

MILWAUKEE.—With the beginning of Lent stock began to come in heavier and the usual slump in trade at this time eased up the market, leaving plenty of stock on hand to fill all orders. Roses, which have been scarce all Winter, are now coming in plentifully and the bright weather has improved the quality. Carnations are in heavy crop and with the exception of white varieties, prices are down to the dollar mark. Violets are coming in heavily and clean-up prices are prevailing. Bulbous stock is flooding the market which naturally weakens the values of all other lines. Green goods are scarce.

In plants, azaleas, cyclamen, primulas, bulbous stock in pans are abundant, but indications point to a shortage in lily plants for Easter.

C. C. P.

CHANGES IN BUSINESS.

CONCORD, N. H.—The firm of Frank A. Main & Company, composed of Mr. Main and Charles H. Barrett, has been dissolved.

CHICAGO.—Baudry's Nursery Company has been incorporated; capital, \$5,000; incorporators, Peter C. King, Frank M. Burwash, and John T. Booz.

LA CROSSE, WIS.—The International Planters' Company has been incorporated with a capital stock of \$60,000; incorporators: Nathaniel Fry, Charles F. Beckman and Charles Shorma.

ALBANY, N. Y.—William G. Gloeckner has embarked in the florist business at 97 State street, and has engaged Thomas F. Tracey who has been connected with the trade for several years.

BOSTON, MASS.—The New England Nurseries has been incorporated to grow trees shrubs, etc. Capital, \$30,000. President, W. M. Richardson, Cambridge; treasurer, A. E. Robinson, North Abington.

SAN FRANCISCO, CAL.—The San Fernando Nursery Company has been incorporated. Directors: L. C. Brand, John Wilson and B. H. Hille, all of San Fernando. Capital stock, \$25,000, and \$1,800 subscribed.

RICHMOND, VA.—The Ratcliffe & Tanner Company has been incorporated with a capital stock of \$50,000; minimum, \$25,000; to operate a florist business. The officers of the concern are: John L. Ratcliffe, president; J. T. McKenna, secretary and treasurer; E. L. Tanner, all of Richmond.

FIRMS WHO ARE BUILDING.

QUIDNICK, R. I.—J. H. Cushing has purchased a tract of land west of his present plant, and is building thereon a large greenhouse.

FIRES.

HOUGHTON, MICH.—February 25, a fire occurred in Lutey's greenhouse plant at Chassell, doing considerable damage.

BLOOMINGTON, ILL.—On February 22, fire broke out in the greenhouses of James Adams; damage \$1,000, with no insurance.

SPRINGFIELD, MASS.—On February 25 fire broke out in the store of Henry Barton; the damage to the building and contents was probably not over \$100.

WASHINGTON, D. C.—As the result of a defective flue, a fire started in the residence of Adolph and Jacob Minder, florists, living on Cottage Hill, near Seventeenth street and Maryland avenue northeast on the evening of Monday, February 25, which totally destroyed the structure. The greater part of the furniture was saved. The damage to the house, which was insured, amounted to about \$3,500.

Buffalo.

Trade Notes.

Business has been good. The deaths of several of our prominent men called for a lot of funeral work. Flowers of all descriptions are plentiful especially daffodils and tulips, which are being retailed at from 10c. to 50c. per dozen. Violets are plentiful, retailing at 50c. per bunch of 50.

B. C. Avery of West Seneca was unfortunate in breaking his arm last week; while assisting in unloading a wagon containing lumber, the chain broke.

W. H. G.

COLLEGEVILLE, PA.—During the recent storm, snow crushed in part of the roof of one of F. C. Prizer's greenhouses, doing considerable damage to plants.

Philadelphia.

Death of Miss Lonsdale.

His many friends in the trade will be grieved to learn of the awful affliction that has fallen upon Edwin Lonsdale; his only remaining daughter, Annie H., having died on Saturday last of pneumonia. Mr. Lonsdale has had three children, all daughters; two were drowned some five years ago at Ocean City, and now the eldest one has been taken. On all sides are heard expressions of the most profound sympathy for the bereaved parents.

Annie H. Lonsdale was a perfect little lady, of very quiet but perfect demeanor, painstaking and thorough in everything she undertook. For the past two years she had been bookkeeper for her uncle, John Burton, by whom she was highly esteemed.

News Items.

Berger Brothers have this week removed from the wholesale flower market building to the former store of Dumont & Company, 1305 Filbert street, which business they purchased.

Charles Gray, salesman for S. S. Pennock Mehan Company, has left them to accept a position in the same capacity with Edward Reid.

The meetings of the Board of Directors of the S. A. F. will be held on Monday and Tuesday next at the Hotel Walton, which is directly opposite Horticultural Hall. The Florists' Club will entertain the officers and directors at a banquet on Tuesday evening.

Florists' Club Meeting.

There was a very large attendance at the meeting on Tuesday evening. P. J. Lynch of the Dinee & Conard Company, West Grove, Pa. read a paper on "The Plant Mailing Trade."

The exhibition was a good one. John Cook, Baltimore, Md., staged a seedling rose, a Bridemaid pink in color, buds of good size, rather globular in shape, foliage rich glossy green, flowers quite fragrant. Edward Towill, Roslyn, Pa., exhibited some flowers of a new rose, Joseph Hill, a new tea sent out by the E. G. Hill Company, described as a bronze pink in color, showing quite a light shade under artificial light, strong and vigorous growth, and pronounced a free bloomer. Robt. Scott & Son, Sharon Hill, Pa., staged two new roses from Alex. Dickson & Sons' collection that are on trial at Sharon Hill. No. 778 is a fine large flower of a deep Malmaison color, a hybrid tea, almost thornless, quite fragrant, a strong grower, a very promising variety. No. 1458, hybrid tea, long bud, orange yellow in color, long stem.

Samuel Batchelor, gardener to Mr. C. B. Newbold, Jenkintown, Pa., exhibited a vase of mixed tea roses to show what a gardener could do with many varieties in one house.

F. C. Kramer, Washington, D. C., staged three vases of his new rose Queen Beatrice, all very good flowers on stems 30 to 36 inches in length, flowers of perfect form, of a Duchess of Albany shade of pink. It is the best dark pink rose ever exhibited here, the open flowers being as large as those of American Beauty. It appears to be a very promising variety.

John E. Haines, South Bethlehem, Pa., showed a vase of his carnation John E. Haines, also a vase of a seedling carnation of a Lawson shade of pink, fringed edge, a free bloomer.

Baur Floral Company, Erie, Pa., exhibited samples of their new wire tie for burst carnations.

Mr. Tywin, representing the King Construction Company, and Mr. Whitehill, representing Benjamin Hammond, Fishkill-on-Hudson, N. Y., were present at the meeting.

At the April meeting Paul F. Reicher of the Henry F. Michell Company will read a paper on "Bulbs."

DAVID RUST.

DAYTON, O.—The Florists' Club, at a well attended and interesting meeting held last week at the establishment of J. F. Young on East Fifth street, declared for more parks for Dayton. The city authorities were urged to make ample provision for parks. Members of the club were about equally divided in their choice of park sites, some favoring the vicinity of Idylwild, while others expressed preference for the territory contiguous to Fairview Park.

AUCTION

WE WILL OPEN THE SEASON TUESDAY, MARCH 12 AT NOON. OFFERING 10 CASES OF NURSERY STOCK CONSISTING OF ROSES RHODODENDRONS, MAGNOLIAS, AZALEAS, CONIFERS, VALLEY CLUMPS, BULBS, ETC.

SALES EVERY TUESDAY HEREAFTER
WILLIAM ELLIOTT & SONS, Auctioneers
 201 FULTON STREET, NEW YORK
 Mention the Florists' Exchange when writing.

ELEGANTISSIMA FERN RUNNERS
 Very fine stock, \$1.50 per 100; \$12.00 per 1000.
 SALVIA, Bonaire, Splendens, 2 lo., 2c.
ROOTED CUTTINGS, prepaid per 100.
 Peria Daisy, white, \$1.00; Alexandria, \$1.25.
 Fuchsia, 5 kinds, \$1.25. Ageratum, white, Gurney, Pauline, 60c. Vinca Variegata, 90c. Salvia Bonfire, Silverpot, Splendens, 90c. Alternanthera, 3 kinds, 50c. Heliotrope, 3 kinds, \$1.00. Rex Begonias, 20 kinds mixed, \$1.25. Flowering Begonias, 8 kinds, \$1.25. Parlor Ivy, 75c.; Double Petunias, 10 kinds, \$1.00. Mums: Traitor, Alliance, Weeks, Enguehard, Pacific, Appleton, P. Rose, Silver Wedding, and Golden Age, \$1.25.
FEVERFEW, dwarf double, nice young plants \$1.00 per 100.
 Cash or C. O. D.

BYER BROS., Chambersburg, Pa
 Mention the Florists' Exchange when writing.

FERNS MY SPECIALTY
 Please notice the big reductions. Cibotium Schiedel, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:
 3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100;
 5 " " 60.00 " " 7 " " 1.70 each.
 10 " " Large specimen, \$5.00 each.
 Adiantum Rhodophyllum, 4 in., \$20.00.
 Assorted ferns for jardinières, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate.

J. F. ANDERSON,
 Successor to Anderson & Christensen,
SHORT HILLS, N. J.
 Mention the Florists' Exchange when writing.

ASPARAGUS PLUMOSUS NANUS
 Extra fine, large, bushy, from 2 1/2 in. pots, ready for a shift.
\$4.00 per 100
 Send for our large Florists' Catalogue
NATHAN SMITH & SON, Adrian, Mich.
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ASPARAGUS Plumosus - Robustus - Sprengeri
 Three inch stock ready for four inch at \$6.00 per 100. Samples ten cents.
ALBERT M. HERR, Lancaster, Pa.
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Asparagus Plumosus Nanus
 Strong plants, 3 inch pots, 6c.
ASPIDUM TSUSSEMENSE
 8 inch pots, full and bushy, 6c.
 One No. 4 Weathered Boiler in first-class order, \$30.00 cash.
R. C. HANFORD, Norwalk, Conn.
 Mention the Florists' Exchange when writing.
Commercial Violet Culture
 Price, \$1.50
 The Florists' Exchange, 2-8 Duane St New, York.

WHITMANI FERN
 Large stock of strong plants, 2 1/4 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.
TARRYTOWN FERN SCOTTII
 8 inch pots.....\$ 8.00
 2 1/4 inch pots.....\$ 5.00
 4 inch pots..... 12.00
KENTIA FORSTERIANA
 4 inch pots, made up, strong and bushy.....\$25.00
 5 inch pots, made up, strong and bushy..... 60.00
 No order for less than 10 plants accepted.
CHAS. H. CAMPBELL,
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PALMS AND FERNS
 Write for Price List.
The Geo. Wittbold Co.
 1657 BUCKINGHAM PLACE CHICAGO
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A Big Offer on BOSTONS
BOSTONS, 7 and 8 in. pans, \$12.00 per doz.
BARROWS, 8 in. pans, \$12.00 per doz.
SCOTTII, 7 and 8 in. pans, \$12.00 per doz. Some extra large at \$1.50 and \$2.00 each. Cash with order please.
DEAN & PARSE
 52 Ashwood Av. SUMMIT, N. J.
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BOSTON FERNS
 Very fine bushy stock from 6 in. pots 60c.; 7 in pots \$1.00; 8 in pots \$1.50; 9 in. pans \$2.00.
FRANK N. ESKESEN, MADISON, N. J.
 Mention the Florists' Exchange when writing.

Adiantum Farleyense
 The Very Best Only
 5 in., 5 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 per dozen.
JULIUS ROEHR'S COMPANY
 Exotic Nurseries Rutherford, N. J.
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KENTIA BELMOREANA
 6 in., clean and bushy, 60c. and 75c. each. 24 in., for center of fern dishes, 100c. each; \$9.00 per 100.
SCOTTII FERN, 6 in., 40c.
DRACAENA INDIVISA, 6 in., 35c.
FERNS FOR JARDINIÈRES, etc., \$3.00 per 100
H. WESTON, HEMPSTEAD, N. Y.
 Mention the Florists' Exchange when writing.
 Grower of Palms, Ferns and other Decorative Stock.
 Nephrolepis Scottii all the year round
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AZALEAS FOR EASTER
 Now is the time to get Azaleas. Our plants are shapely and well budded. We offer the following varieties:
 Mme. Van der Cruyssen, Deutsche Perle, Mme. C. Van Langenhove, Vervaeana, Empress of India, Bernhard Andrea Alba, Helen Thielman, and Simon Mardner.
 A fair proportion only of Mme. Van der Cruyssen and white sorts supplied with each order.
 Prices (f. o. b. New York). 10 to 12 inch heads, \$6.00 per doz., \$45.00 per 100; 12 to 14 inch heads, \$7.00 per doz., \$55.00 per 100; 14 to 16 inch heads, \$10.00 per doz., \$75.00 per 100.
Peter Henderson & Co., 35 & 37 CORTLANDT ST. NEW YORK

Brazilian Canes of Dracæna Terminalis
 The only true variety and must not be confused with West Indian Stock.
 Per foot 30 cts. Per 100 feet \$25.00. Per 1000 feet \$200.00.
Arthur T. Boddington, 342 West 14th Street New York City
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O. K. Orchids
 A large shipment of *Cattleya Mendelli* just arrived in splendid condition. Prices on application. Also three cases of specimen plants. Orders taken now for *Cattleya Trianae* for delivery in May. Write for prices
John De Buck, Collector of Orchids
 College Point, L. I., N. Y.

ORCHIDS
 Largest Importers, Exporters, Growers and Hybridists in the world.
Sander, St. Albans, England
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ORCHIDS
 Arrived in fine condition. *Cattleya Harrisoniae*, *C. Intermedia*, *C. Gigas*, *C. Trianae*, *Speciosa*, *C. Leopoldii*, *Laella Purpurata*, *Oncidium Varicatum Rogersii*, *O. Marshallianum*, *Phaiosopis Amabilis* and *P. Schilleriana*. Write for prices.
LAGER & HURRELL, Summit, N. J.
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ROSES, PALMS, CROTONS
 CARNATIONS and Novelties in DECORATIVE PLANTS
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NEPHROLEPIS
 Whitmani, 2 1/4 in., \$10.00 per 100.
 Boston, 2 1/4 in., \$3.00 per 100.
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 IN GREENHOUSES



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NEW ORLEANS, LA.
GROWERS OF CHOICE CUT FLOWERS
Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.

Columbus, O.

News Items.

It is understood that certain changes in management have recently been made at Cedar Hill cemetery; James Ider will remain as superintendent. Salaries are said to have been increased ten per cent.

A recent address of Representative E. W. Hill of Columbiana county, in support of his resolution making the carnation the State (Ohio) flower is to be printed for distribution among the public school children of this State.

H. M. Clair, Jr., representing S. L. Allen & Company of Philadelphia, reports the outlook especially favorable for an enormous output of Planet. Jr tools in 1907.

Jacob Shenkel, M. A. Frederick, Mentor Shenkel, J. T. Herbert, E. J. Owen and F. B. Lawrence, are the incorporators of the Globe Pottery Company at East Liverpool, Ohio, capital stock \$100,000.

Landscape Architects Austin W. Lord, of the firm of Lord & Hewlett, New York; Charles Mulford Robinson of Rochester, New York; Albert Kelsey of Philadelphia; Charles N. Lowrie of New York; and Sculptor H. A. MacNeil of New York, have been selected to formulate plans for the beautification of our parks and boulevards; \$5,000 has been appropriated by the city for the plans.

The Livingston Seed Company made a very artistic arrangement of palms, ferns, and other foliage plants, for the Spring opening of the new curtain department at Armbruster's Big Store.

By the resignation of Professor A. F. Burgess, State of Ohio loses its efficient chief inspector of orchards and nurseries. Professor Burgess goes to Massachusetts where his valuable services will be availed of by the Gypsy and Brown-Tailed Moth Commission. F. H. Ballow of Newark, O., has been appointed successor to Mr. Burgess.

The Ohio Horticultural Society have just issued a circular, offering to supply nurserymen, and in fact all who apply, spraying materials of all kinds at lowest wholesale prices.

The Clover Hill Nurseries are making a specialty of the pink Spiraea, Queen Alexandra, of Messrs. H. Van Waveren & Kruyff of Sassenheim, Holland.

Exhibits of various horticultural and agricultural products are now being collected here for the Jamestown Exposition. A very fine collection of field corn has already been secured.

By the dissolving of the East Liverpool Pottery Company, the last vestige of a trust among the pottery manufacturers of America is removed. This enterprise, with its million dollar capital, at one time threatened to revolutionize the pottery trade of the world. F. W.

Toledo, O.

A Carnation Show.

If our Florists' Club ever had a successful night it certainly was at its last meeting on February 28. This was to have been a carnation night, but in reality it was a carnation show. J. L. Schiller of the Perennial Gardens Company engineered the affair, and his efforts to get not only the local but also the out-of-town growers together were crowned with much better success than expected. The meeting was really a fete to find out if the unity is there to hold a larger show open to the general public, and personal invitations were extended to friends and acquaintances outside the trade, which brought hundreds of people to see the flowers. Invitations were also sent to the florists of

Marie Louise Violets

Will have a fine crop of blooms for Easter from houses that have been run cold. Write for prices.

C. LAWRITZEN, Box 261, Rhinebeck, N. Y.
 Mention the Florists' Exchange when writing.

nearby towns; many of them were present who had not been to Toledo for years, and no one went away regretting the journey.

A large part of the success of the affair was due to the generous contributions of carnations by the F. R. Pierson Company, John E. Haines, Chicago Carnation Company and V. E. Hall, Clyde, O.; and their flowers had the place of honor, occupying a large center table. Mr. Haines' carnations created a sensation with their long, wiry stems and immense flowers; his John E. Haines, Imperial and Pink Imperial were simply superb and prove what an expert can do. Right in the center towered a large bunch of Aristocrat from the Chicago Carnation Company, and it was pronounced the most perfect flower of any shown. The F. R. Pierson Company sent us their much heralded Winsor, certainly an exquisite shade of shell pink and perfect in shape. This firm's Helen Gould was also well liked, and their White Enchantress was fine. It is to be regretted that the flowers from John E. Haines and F. R. Pierson Company did not stand the long trip very well.

We certainly wish W. E. Hall would make more exhibits in larger cities with his scarlet carnation, E. G. Gillett; it is hard to beat and will surely be a good seller when put on the market. R. W. Hartman, Napoleon, O., exhibited Lady Bountiful and Pink Lawson, which showed good cultivation. Mrs. E. L. Hawkins of Paulding, O., showed a sport from Enchantress and some Lilium philippinense.

Our local tradesmen did well and what they put on exhibition proved that they too know how to grow the divine flower. John Gratoop's big bunch of Enchantress was very good, likewise his other carnations. A large assortment was staged by Emil Kukuke, containing Rose-Pink Enchantress, Mrs. M. A. Patten, Pink Patten, Flamingo and others. George Bayer, our president, who leaves the growing of his excellent flowers to his carnation grower, Miss Winters, had several vases, among which were exceptionally good Mrs. Thos. W. Lawson and White Lawson. Mr. Halbic, florist at the State Hospital, had a vase of a seedling, so far unnamed, of a pure glistening white, which promises well. Krueger Brothers staged a mixed group of palms, lilac Marie Legraye, azaleas, fine grown lily of the valley, and a rose of each of the roses Bride, Bridesmaid, Richmond and Perle des Jardins.

The Perennial Gardens Company exhibited a well grown specimen of Araucaria imbricata and a collection of lily bulbs, consisting of Liliium anatum, speciosum album and speciosum rubrum. The showiest group of plants was that of Emil Kukuke, consisting of cyclamen with enormous flowers, raised from a strain mostly furnished by The Perennial Gardens Company. The plants were faultless in every respect. Callas, Boston and Scottii ferns completed the group.

A large lot of flowers were willingly furnished for souvenirs to be given to each visitor. Our local press gave us a good send off, and we hope that this will help our business. We know now that flowers will bring the people, and a demand for them must be the inevitable consequence. The meeting proper was, of course, entirely neglected, but that does not matter; we all had a good time. SCH.

"THE KING OVER ALL"

APHICIDE

NICOTINE PAPER

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Trial Boxes for house 100x20, 25 cents postpaid.
 Boxes 24 sheets 65 cents post paid.
 Boxes 144 sheets \$3.50, Boxes 288 sheets \$6.50.
 Express prepaid to all points East of Mississippi River.

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Wholesale Prices of Cut Flowers, New York, March 7, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special....	50.00 to 60.00	Inf'r grades, all colors	1.00 to 1.50
	" extra	35.00 to 40.00	White	1.00 to 2.00
	No. 1	15.00 to 20.00	Pink	1.00 to 2.00
	No 2	8.00 to 12.00	Red	1.00 to 2.00
	No 3	6.00 to 8.00	Yel. & Var.	1.00 to 2.00
	Bride, Maid fancy-special....	8.00 to 10.00	White	2.00 to 3.00
	" extra	5.00 to 6.00	Pink	2.00 to 3.00
	" No. 1	4.00 to 5.00	Red	2.00 to 3.00
	" No. 2	3.00 to 4.00	Yel. & Var.	2.00 to 3.00
	Golden Gate	4.00 to 15.00	" NOVELTIES	4.00 to 6.00
	RICHMOND	4.00 to 20.00	FREESIAs, per doz bunches	1.00 to 1.25
	Mme. Abel Chatenay	4.00 to 15.00	GARDENIAS, per doz.....	1.00 to 3.00
	ADLANTUM .....	.50 to 1.00	LILAC, per bunch.....	.50 to .60
	CROWANUM	1.00 to 1.50	LILIES	4.00 to 12.00
	ASPARAGUS	25.00 to 50.00	LILY OF THE VALLEY	1.00 to 2.00
	Plumosus, bunches.....	15.00 to 20.00	MONARDE	2.00 to 8.00
	Sprenger, bunches.....	15.00 to 20.00	NARCISSUS, Paper White	1.00 to 2.00
	CALLAS	16.00 to 12.00	Yellow.....	.35 to 1.00
	CATLEVAS	40.00 to 50.00	ROMAN HYACINTHS.....	1.00 to 2.00
	CYPRIPEDIUMS.....	12.00 to 15.00	SMLAX	8.00 to 15.00
	DAISIES	1.00 to 3.00	SWEET PEAS, per doz. bunches	.50 to 1.00
			TULIPS50 to 2.00
			VIOLETS20 to .30

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Los Angeles, Cal.
Trade Notes.
At a recent meeting of the Southern California Horticultural Society Walter Raymond was re-elected president; J. G. Morley, superintendent city parks, vice-president; Earnest Braunton, secretary, and J. Dietrich of the nursery firm Dietrich & Houston treasurer. The question of a Spring flower show to be given by the society has not yet been fully decided. The difficulty in the way is a suitable place.
Dr. Schiffman of Pasadena, who brought the finest collection of orchids from the East that is growing on this coast, has disposed of the entire lot, and will from this time on devote his time to such exotics as will live in the open. P. D. B.

S. S. PENNOCK-MEEHAN CO.

Easter Plants

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FANCY SHEET MOSS, \$1.50 per bag

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Valley, American Beauties, Brides and Maids; Sprenger, Asparagus Plumosus, Carnations and Violets, all seasonal flowers.

Large stock of Stavia on hand, can supply you at lowest market prices at short notice. Telephone and telegraph when you need cut flowers to

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Wholesale Prices of Cut Flowers-Per 100

Table with columns for Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburg, St. Louis and rows for various flower varieties like Beauty, Bride, Golden Gate, etc.

PHILADELPHIA CUT FLOWER CO.

Wholesale Florists 1516-18 SANSON STREET High Grade Cut Flowers Open Evenings until 8.

Baltimore, Md.

News Items. The Gardeners' Club held its twenty-first annual banquet last week, and for the first time in that period the members had their ladies with them.

Business is very dull; the entire cut flower market is overloaded with excellent stock of every description, but there is nothing doing in the way of getting rid of it.

The Washington Florists' Club has invited the bowling teams of Philadelphia and Baltimore to be their guests during the annual meeting of the American Rose Society, March 14 and 15.

BOSTON, MASS.

WELCH BROS.

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CITY HALL CUT FLOWER MARKET

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Asparagus Plumosus Mignonette Lil. Harrisii Bridea, Maids American Beauties

Kalaerin Carnota Orchids Valley Carnations Chrysanthemums

Can furnish at short notice. Price according to quality of goods. Long Distance Telephones 6267 and 6268

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Also rooted cuttings of all the leading carnations.

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FARIBAULT, MINN.—On February 22, P. Andrews, proprietor of the Faribault Nursery Company, was seriously hurt in a runaway. He was driving a pair of colts, which became frightened at a train. In turning a sharp corner Mr. Andrews was thrown from his wagon and dragged on the frozen ground for some distance. He will recover.

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COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
White Perfection (The grandest White of them all) Per 100 \$5.50, per 1000 \$50.00
Bountiful Per 100 \$2.75, per 1000 \$25.00
Enchantress Per 100 \$2.00, per 1000 \$18.00
Book orders now. Quality guaranteed. If you don't like them we pay express both ways.
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Send us your Orders for delivery to the Northwest, which will have our best attention.
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DOUBLE & SINGLE VIOLETS
Valley, Carnations and Roses
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Wholesale Prices of Cut Flowers, Chicago, Mar. 5th, 1907
Prices quoted are by the hundred unless otherwise noted

Table with columns for ROSES American Beauty and various stem lengths (98-inch, 80-inch, 24-inch, 20-inch, 18-inch, 12-inch, 8-inch) and prices per doz.

Table with columns for CARNATIONS and various varieties (STANDAED, VARIETIES, *FANCY, NOVELTIES, ADIANTUM, ASPERAGUS, LILIES, HARRISH, ORCHIDS, SMILAX, LILY OF THE VALLEY, VIOLETS, HARDY FERNS) and prices.

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WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES
C. C. Pollworth Co.
MILWAUKEE, WIS.
Mention The Florists' Exchange when writing.

Cincinnati, O.
Trade Notes.
March came in on the north side, with a drizzle and a temperature of 50 degrees. Lent is moving along in its quiet and unassuming way. People are denying themselves things that they do not like to eat, and are saving their money by the excuse that it is Lent. Still business has been and is quite good, and although stock is coming in more plentifully it sells fairly well.
The opening of our new swell hotel, The Sinton, last Monday, used up quite a lot of flowers. Julius Baer had the greater part of the decorations. The Sinton is to Cincinnati what the St. Regis is to New York; but this is one thing that Cincinnati did need.
We are now prepared to care for carnations of any size. I see by the trade reports from other cities that carnations are very plentiful and prices are dropping. Such is not the case here. Carnations are in fair supply, but all sell at a fair figure though not so high as a few weeks past; \$2 and \$3 per 100 is the average price now. Multiflorum lilies are coming in nicely and fetch 10c. to 12 1/2c. each. Bride and Bridesmaid roses bring 4c., 6c., 8c., and 10c. each; quality fair. American Beauty has side-stepped this market. La Reine tulips fetch 3c.; white and fine red, 4c. to 5c. Paper White narcissus sell at 3c.; lily of the valley, 4c.; daffodils and Von Sion narcissus, go slowly at 3c.; violets, 35c. to 75c. per 100; sweet peas, variety Jos. Hill, 75c. to \$1 per 100; shorter-stemmed, 35c. to 50c.
Green goods are scarce, and good Eastern ferns fetch \$2 per 1,000. Smilax, adiantum, asparagus and other kinds bring good prices.
Park Superintendent Rodgers is rejoicing over the advent of a son.
Newport, Ky., situated across the Ohio from Cincinnati, has for its City Fathers a set of men who believe in protecting home merchants, and for that reason all wagons driving across the bridge that do not have a Newport license, "get one quick," or pay a fine. Several Cincinnatians were pinched, and now the compliment is returned. Many arrests were made at the Ohio end of the bridge during the past week. Heretofore the florists of Kentucky, who have stands in the flower market, have been free from a wagon tax, but they must now step up to the cashier's office and deposit \$3 or stay upon the other side.
J. T. Conger is out again; he had an attack of the grip. E. G. G.

Boston.
A bill has been reported in the Legislature to allow six inspectors of nurseries instead of three, and to increase the thoroughness of the State nursery inspection.
One of the most interesting lectures of the season in the course given under the auspices of the Massachusetts Horticultural Society was that on Saturday delivered by J. A. Pettigrew of the Boston Park Department. The topic was "Street Trees" and it was very ably handled by the speaker who as an authority on the subject is unequalled. Unfortunately it was a very stormy day and the rain held many at home who would have helped to swell the size of the attendance which, however, was up to the average during the season.
Elhjah Cartwright of Wellesley sustained a severe loss on Thursday of last week; three of his houses were burned and the entire stock therein destroyed. One house contained violets, another marguerites and the third carnations. In the latter were several thousands of young plants just potted off. It is not known how the fire originated. Mr. Cartwright will immediately rebuild.
D. F. Roy, Superintendent of Pine Banks Park and the Converse Estate, Waldeu, has been confined to his home with grip for the past week.
A. H. Kirkland, Superintendent of the Gypsy Moth State Bureau, is seriously ill at his home in Reading with typhoid fever.
Among the visitors in town this week were: F. L. Mulford, Harrisburg; C. E. Keith of Bridgeport; and Professor J. F. Cowell of the Buffalo Botanic Gardens. J. W. DUNCAN.

E. H. HUNT
The Old Reliable
FOR CUT FLOWERS AND SUPPLIES
76-78 Wabash Avenue, CHICAGO.
Mention the Florists' Exchange when writing.
St. Paul.

News Notes.
R. C. Seegar, who has been in business here for a number of years, evidently is in a bad way financially. A receiver has been appointed to wind up his affairs. A visit to his place finds the entire stock frozen, and things in general in a dilapidated condition. He is now in Chicago and Mrs. Seegar is winding up his affairs. His city store has been discontinued and fixtures are for sale. Mr. Seegar was a hardworking man, but things seem to have gone against him, and he was finally compelled to quit.
William Swanson of Haugen & Swanson returned from Ann Arbor, Mich., last Saturday after having taken the treatment for a bite from a supposed mad dog; he apparently feels all right again.
L. L. May & Company have had a very heavy week especially on funeral work; they turned out a great many expensive pieces, one in particular being a huge basket of white lilies and violets. City business has been particularly active, country shipments light.
Aug. S. Swanson made up a great many fancy pieces for the Foley funeral which were greatly admired. He has been cutting some of the finest houbloss stock ever offered in this market. PAUL.

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IS SURE TO BRING RESULTS

SOUTHERN WILD SMILAX

Now ready in any quantity

Book orders now for future delivery. Beaven's Fadeless Sheet Moss, \$3.50 per bag, delivered. Send for samples. Also Fancy Holly for Xmas trade. Satisfaction guaranteed. Write for prices.

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EVERGREEN, ALA.

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Wild Smilax \$2.50 Per Case

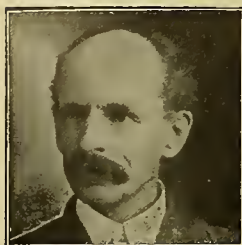
The only place where you can **always** get it. Long Needle Pines, \$1.00 per doz.; Palm Crowns, \$2.50 per doz.; extra nice long stemmed Palmetto leaves, \$2.50 per 100; Magnolia, \$2.50 16 cubic ft. cases. Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000

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Green and Bronze Galax Leaves

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Fancy or Dagger Ferns



Dagger Ferns, \$1.25 per 1000.
Fancy Ferns, \$1.50 per 1000.
Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
Boxwood, No. 1 Stock, 50 lb. cases, \$8.50
Laurel Festooning, 4c, 5c. and 6c. per yard. Finest quality
Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
Southern Smilax, fancy stock, 50 lb. cases \$3.50
Laurel Branches, 35c. per bundle

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\$2.00 per 1000. Discount on large orders. Leucothoe Sprays, \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE

Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season. 38 & 40 Broadway. Formerly STANLEY, DETROIT, MICH. Miami Ave. Send for our weekly price list on Cut Flowers.

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Fancy & Dagger Ferns. Fine Quality \$2.00 per 1000.

New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.

Southern Wild Smilax \$3.50 and \$7.00 per case.

Laurel Festooning, good

and full, 5c. and 6c. per yard.

Branch Laurel, 50c. per bundle.

Leucothoe Sprays, \$1.00 per 100.

Sphagnum Moss, 50c. per bag; five bags \$2.00.

Green Moss, \$1.00 per bbl.



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes cut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

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New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

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Free Sample. Quart Cans, \$1.00. Gratifying Results.

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USE THE BEST.

Economy Greenhouse Brackets

are used by leading growers everywhere. Send for price list and descriptive circular.

BUXTON & ALLARD, Dept. O, Nashua, N. H.

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BRILLIANT

Galax and Lencothoe SPRAYS

Wholesale Trade Solicited

J. L. BANNER & CO., Montezuma, N. C. Mention the Florists' Exchange when writing.

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10,000, \$1.50; 50,000, \$6.25

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PLANT CULTURE

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ANNOUNCEMENT

THE KING CONSTRUCTION COMPANY of North Tonawanda, N. Y., and Toronto, Ont., in response to numerous inquiries by mail, states that the trussed roof greenhouses which collapsed at Mr. Farenwald's place near Philadelphia were not of the King Construction design or construction. Moreover, a number of King houses in the same neighborhood passed through the same weather conditions without any damage whatever. Also, the King Construction Company has just received an order for two trussed roof greenhouses, each 500 feet long and 28 feet wide, which are to be built for Mr. Victor Groshens on his place, which is only a couple of blocks from Mr. Farenwald's place. Owing to having introduced the trussed method of greenhouse construction and to having been identified with it for so long, the King Construction Company finds it necessary to make this announcement as a matter of self-protection.

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The Whilldin Pottery Co. STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



I Manufacture and Erect

Iron frame and wood Greenhouses of every type for commercial and private use.

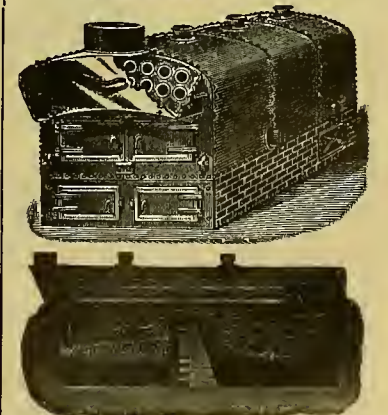
If you contemplate building, allow me to submit sketch and estimate covering your requirements.

JOHN A. PAYNE

Horticultural Architect and Builder
33 Clendenny Ave., Jersey City, N. J.
Sash opening apparatus and all kinds of greenhouse structural material.

KROESCHELL BROS. CO. IMPROVED

Greenhouse Boiler
33 ERIE STREET, CHICAGO



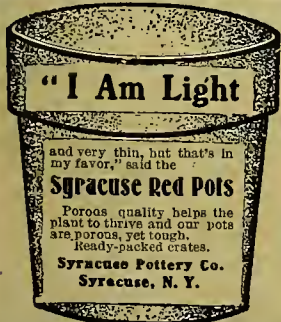
Boilers made of Steel Boiler Plate, shall frobox sheets and heads of steel, water spaces all around front, sides and back. Write for information. Mention the Florists' Exchange when writing.

VIOLET CULTURE

Price, \$1 50 Postpaid
A. T. De La Mare Ptg. & Co. Ltd., New York



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STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate	Price per crate
1800 2 in. pots in crate, \$4.50	120 7 in. pots in crate, \$4.20
1800 2 1/2 " " " 5.25	80 8 " " " 5.00
1800 3 " " " 6.00	48 9 in. pots in crate, \$3.60
1000 2 " " " 5.00	48 10 " " " 4.80
800 2 1/2 " " " 5.80	24 11 " " " 4.80
600 3 " " " 4.60	24 12 " " " 4.80
400 4 " " " 4.61	12 14 " " " 4.50
144 6 " " " 3.15	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
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THE AMERICAN CARNATION

Price \$3.50
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IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.
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Sheep Manure

Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.

Mention the Florists' Exchange when writing.

Orange, N. J.

Chas. W. Ashmead of Stroud, England, gardener for six years to Mrs. William Pierson of East Orange, was married on February 4 to Miss Louise T. Newton of West Orange.

Thomas Maybury, for nine years gardener to E. J. Brackett, East Orange, has secured charge of the estate of Miss Coppell, Tenafly, N. J.

Joseph A. Manda is preparing his first Easter display at his recently acquired stand near Llewellyn Park, West Orange. The property is said to have doubled in value since he obtained possession of it owing to the real estate boom within the "Jersey Tunnel Zone."
J. B. D.

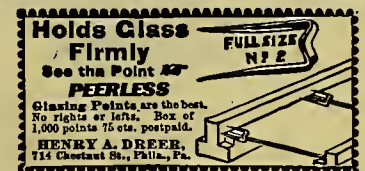
AMHERST, MASS.—Professor Edwin A. White of Storrs Agricultural College, Conn., has been elected assistant professor of floriculture at the Massachusetts Agricultural College and will enter upon his new duties July 1, 1907. This addition will greatly strengthen the organization of the department of horticulture, and is expected to bring substantial improvement in the courses of floriculture and landscape gardening. Mr. White has had considerable experience in greenhouse work and outdoor gardening, and his appointment has given general satisfaction.

MERIDEN, CONN.—Albert Klees, ninety years old, who was gardener at one time for Abraham Lincoln in Springfield, Ill., is reported dying in Kensington, Conn. He had been ill of inflammatory rheumatism, and although much weakened by illness he braved the cold to attend a Washington's Birthday celebration.

For Greenhouses, Graperies, Hot beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given

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N. COWEN'S SON,
14 & 16 Wooster Street, NEW YORK
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GREENHOUSE GLASS

10x12 10x14 10x16 12x12 12x14 12x16 12x18 14x16 14x18 14x20 14x24 16x18 16x20 16x24
C. S. WEBER & Co.,
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FREE HOSE

We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipe. Send for Free catalogue "Ray" Boilers, Ventilating apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY COMPANY,
244 Fulton Street, - - New York City
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Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

GEORGE RIPPERGER,
LONG ISLAND CITY N. Y.

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A LIVE PROPOSITION



It's easy enough to tell you what the man from Kalamazoo or Timbuctoo says about his greenhouse, but if you don't know the man and the quality of stock he grows, or whether he is simply making a living or making money—then what value or argument is there in his opinion? Here is our proposition: If you don't know our house you don't know the house of economy; so write us, stating what you want to grow and we will send you the name and opinion of some big man or men, who are making money, men who stand up head in their line. Their point of view about our construction will be worth something—and what we have done for others is guarantee of what we will do for you, and there's pleasant dealing besides.

Hitchings & Company

Greenhouse Designers and Builders

Manufacturers of Heating and Ventilating Apparatus

1170 BROADWAY

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For Green House heating. Standard Cast Iron Green House Pipe and Fittings.

We are Headquarters for all sizes wrought iron pipe and fittings.

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Illustrated catalogues free on application.

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IT WILL AFFORD YOU

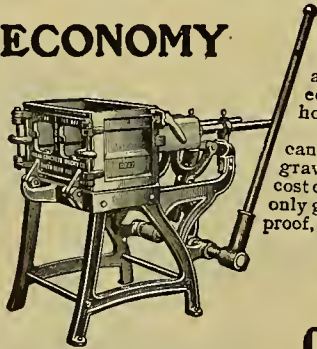
Supreme Satisfaction

to know that all of the material for your new houses is of strictly first-class grade—even if you do not scrutinize it—and that the construction is in accordance with the latest approved style.

Such is the material we furnish and we can prove it by our many satisfied Customers.

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Ideal Hollow Concrete Block construction will protect your greenhouse from frost and secure greatest economy in fuel.



The illustration of hollow block explains its resistance to frost. With the Ideal Concrete Machine you can yourself make these blocks from sand, gravel and cement at little cost—far below the cost of brick, stone or lumber. Ideal Blocks not only give frost protection, but are absolutely fire-proof, and effect a perpetual saving in insurance.

IDEAL Concrete Machines

May be operated by any man without previous experience. The process of making blocks is simple as making mortar. Blocks for every building purpose, with plain, tumbled, ornamental face or natural stone effect made with the same machine. Simple, durable and adaptable to any size block within capacity.

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The Greenhouse Structural Co.
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Manufacturers of **IRON FRAME GREENHOUSES**
Re-enforcing for Concrete "Post and Board" Walls. Ventilating Machinery, Iron Fittings, Iron Purlins and Gutters for wood houses, etc., etc.

Send for catalogue and designs.

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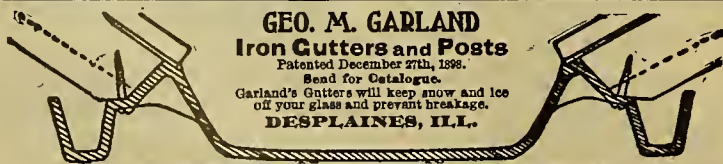
GEO. M. GARLAND Iron Gutters and Posts

Patented December 27th, 1898.

Send for Catalogue.

Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.



A sample of this gutter is on exhibition at Chicago Flower Growers' Market.

Are You Contemplating Building?

IF so, now is the time to take up this important question. **I**T is only to your own interests to let me figure on your requirements.

YOUR work will be designed and erected by practical mechanics.

YOU will be satisfied in figures as well as results. **Y**OU can have testimonials of hundreds of satisfied patrons, in all parts of the country, by writing us.

WILLIAM H. LUTTON

West Side Ave. Station, **JERSEY CITY, N. J.**

Tel. 412 R. Bergen.

EVERYTHING FOR HEATING AND VENTILATING

TILE DRAINED LAND IS MORE PRODUCTIVE Earliest and easiest worked. Carries off surplus water; admits air to the soil; increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Eucalyptic Side Walk Tile, etc. Write for what you want and prices. **JOHN H. JACKSON, 50 Third Ave., Albany, N. Y.**

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Builders of Iron and Cypress Greenhouses Greenhouse Heating and Ventilating Apparatus.

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FRANK VAN ASSCHE

Formerly Supt. for Weathered **GREENHOUSE BUILDER**

Private or Commercial. Iron or Wood.

Factory and Yards: **Fulton and Rose Ave. and Dwight St., Jersey City, N. J.**

PLANT CULTURE PRICE \$1.00

THE BEST BOOK FOR THE PLANT CROWER.

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THE matter of cost—the first cost—that's the cost that most men do their close figuring on, but there's another cost and for that reason U-Bar greenhouses are the best greenhouses built because the repair cost and the maintenance cost are lower than any other greenhouse made—and we are only too glad to prove it. Send for Catalog. Pierson U-Bar Co., Designers and Builders of U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23d St., New York.

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Meet every requirement of the work of Florists and Gardeners. Catalogue on request.

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SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers
One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.

Cypress Construction Material FOR GREENHOUSES

"That's all we make and we make it right."

JOHN C. MONINGER CO. CHICAGO
115 E. Blackhawk Street

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SAVE TIME AND MONEY
OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING, VENTILATING APPARATUS, HOT-BED SASH

Putty--**GREENHOUSE GLASS**--Points

AT WHOLESALE

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THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

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Successors to JENNINGS BROS.

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ALL HEART
SUN DRIED CYPRESS

GREENHOUSE MATERIAL
IS THE BEST
WE HAVE LOTS OF IT
SEND FOR SKETCHES
ESTIMATES AND FREE
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VENTILATING APPARATUS
HOT-BED SASH
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The STANDARD VENTILATING MACHINERY

The original machine with self oiling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market. The standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

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Evans Improved Challenge

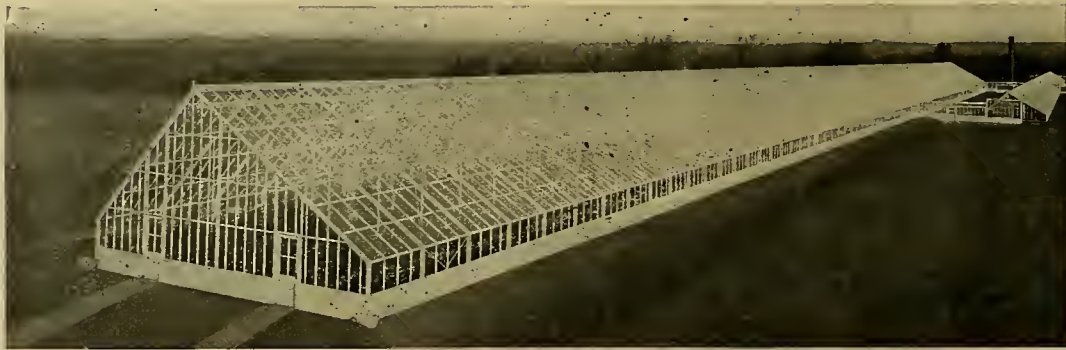
Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

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RICHMOND, IND.

GOING TO Build a Greenhouse?

Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.

The A. T. STEARNS LUMBER CO.
Boston, Mass.



THE 40 FOOTER

SOME COLD FACTS

ABOUT 20 AND 40 FOOT HOUSES

When a man builds two 20 foot Iron Frame Houses, 700 feet long, for roses, and the next time makes it a 40 footer there must be good solid reasons for it. We want you to listen while we tell them to you as near as possible as he gives them. To start with, the Iron Frame house is the house that's built to stay, and it's lighter, everybody admits that. The 40 foot house is wide enough to secure the best of heating and ventilating advantages, and can be built with 20 foot bars and no splicing. One 40 footer requires considerably less roof than two twenties, and there's just half as many sides to pay for. Then think of the ground space saved—16 feet at least between the narrow houses, every inch of which you can then use. With three twenties enough space has gone to waste, for one 40 foot house, and 8 feet to spare.

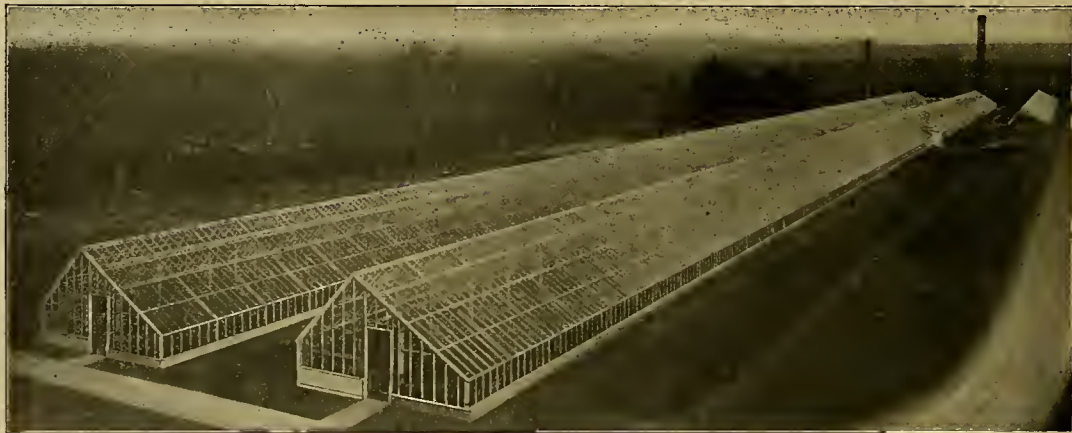
When it comes to installing the heating plant there's another reduction in trenching, pipes and connections. 20% to 25% can be saved in coal, simply because when once heated you have a

large mass of hot air acting as a reserve—an insulation against sudden changes—two sides are exposed against four.

The ventilation is uniform in its distribution, the air is thoroughly warmed before reaching the plants—and that isn't all, there is a different quality in that air. Go into a narrow house early some morning, see how heavy, lifeless the air is—the wide house will be pure and strong—you know that means better plants, more blooms.

If you are going to build this Spring choose the house of economical width and make it the Iron Frame Construction; it's the only one with a half century's lease of life. It will save in repair expenses many times over, the difference of cost of the wooden house. Send for our Iron Frame circular—it's full of hard sense.

Lord & Burnham Co., Greenhouse Designers and Manufacturers, 1133 Broadway, corner 26th St., New York. Boston Branch, 819 Tremont Building.



THE NARROW HOUSES

THE FLORISTS' EXCHANGE

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

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

Vol. XXIII. No. 11

NEW YORK AND CHICAGO, MARCH 16, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention. Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise, for the present, late March delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time do-

ing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR. We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.



For Easter
Asparagus Plumosus
Nanus

Cut strings, 8 feet long,
50 cts. each.
W. H. ELLIOTT
Brighton, Mass.

Mention the Florists' Exchange when writing.

Tuberose



DWARF EXCELSIOR PEARL

Well cured stock. Now ready. F. o. b. N. Y.
First size, 4-6 } Write for
Medium size, 3-4 } prices
Variegated Leaved..... Per 100, \$1.25
Armstrong's Everblooming..... Per 100, \$2.00

Gladiolus

	Per 100	1000
Mrs. Francis King.....	\$ 4.50	\$40.00
Princes, large bulbs.....	10.00	90.00
Princes, medium bulbs.....	7.50	70.00
Augusta.....	2.50	20.00
Mey.....	1.75	14.00
Shakespeare.....	3.75	35.00

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Sound Bulbs; Live Center Shoots. At N. Y.

	Per 100	1000
5 to 7 inches in circumference.....	Write for	\$1.50
7 to 9 inches in circumference.....	for	3.15
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Sheep Manure, Bone Meal, Cane
Stakes, Sphagnum Moss, Insecti-
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Cortlandt

CHICAGO, 84 Randolph St. Greenhouses, Western Springs

Miscellaneous Plants

	100	1000		100	1000
Alternantheras, six var- ieties.....	\$2.00	\$18.00	Dahlia Roots, Mixed.....	\$4.00	
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Geraniums, Sycamore.....	15.00		Verbena, Large flowering, mixed.....	1.50	15.00
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Dahlia Roots, Named varieties.....	6.00				

CASH WITH ORDER.

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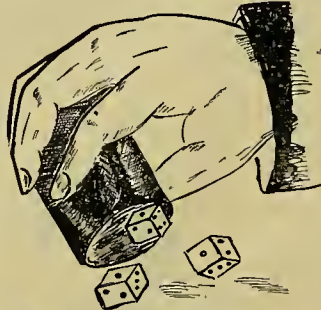
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Procure Fresh Grown Seed

- Aster Queen of the Market...tr. pkt. 15c., oz. 50c.
- Asparagus Plumosus Nanus... 1000 seeds \$4.50
- Sprengeri... 1000 seeds 75c.
- Begonia Varion, Mixed...pkt. 25c., oz. \$2.00
- Belle Perennia, double...trade pkt. 25c.
- Candytuft Empress...per oz. 20c.
- Centaurea Gymnocarpa...per oz. 35c.
- Golden Feather, dwarf selected...per oz. 40c.
- Lobelia Crystal Palace Compacta...trade pkt. 25c.
- Petunia, grand superb fringed, mixed, tr. pkt., \$1.00
- Phlox, choice mixed...per oz. 40c.
- Dwarf...per oz. \$1.25
- Salvia Bonfire...per oz. \$2.50
- Stocks, Ten Week, dwarf, large flowering, mixed trade pkt. 25c.
- Verbena Mammoth white...trade pkt. 15c
- scarlet...trade pkt. 10c

BULBS

- Caladium, Medium...\$8.00 per 100
- Large...\$12.00 per 100
- Tuberose, 4 to 6 inches...\$3.00 per 100
- Valley Clumps, Extra large...\$15.00 per 100



WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

RAWSON'S ASTERS

are just a little superior to anybody else's

The product of our seeds can always demand a better price than those grown from seeds obtained elsewhere. The following is an extract from a letter received last fall from a most critical grower:

"Your Midsummer Aster has been a great moneymaker for me. For every flower that I have brought into the Boston Market I have received from \$1.00 to \$1.50 per hundred more than for any other variety raised from seeds purchased elsewhere". J. W. Simpson.

RAWSON'S TWO GREAT QUALITY ASTERS

RAWSON'S NEW MIDSUMMER:

In White, Delicate Lavender,

W. W. RAWSON & CO.

5 UNION STREET, BOSTON, MASS.

P. S. K. We are now Sole Distributors for Boston for Carman's Antipest, if you wish to know what it is, send for a circular.



PACIFIC SEED GROWERS' CO.

109 MARKET STREET
SAN FRANCISCO, CAL.

Specialties:

Onion, Carrot, Lettuce, Sweet Peas

Mention the Florists' Exchange when writing.

Thorburn's Seeds

Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.

New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

COLD STORAGE

Lily of the Valley Pips

BEST POSSIBLE GRADE

1000 in case, @ \$12.00 per 1000.

J. M. THORBURN & CO.

33 Barclay St., through to
38 Park Place, New York.

TRUE STOCK

Aquilegia Coerulea

Rocky Mountain Columbine

From the Rockies

SEED—1 oz. \$1.00; 1/2 lb., \$3.50; 1 lb. \$12.00 by mail.
ROOTS—4 and 5 year old, doz. \$1.25; 100 \$3.00, by express.

Order from headquarters.

THE BARTELDES SEED CO., DENVER COLO.

New Crop Seed

ASPARAGUS PLUMOSUS NANUS (Greenhouse Grown), 1000 seeds, \$4.00.

ASPARAGUS SPRENGERI, 100 seeds, 15c., 1000 seeds, 75c.

Choice Canna Tubers

25 Varieties, \$17.00, \$19.00, \$22.00 and \$24.00 per 1000.

W. C. BECKERT, Allegheny, Pa.

Sow Now The True Thing!

- Ageratum, Blue Star, the best of all for pots. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
- Alyssum, Carpet Queen, fine extra dwarf strain. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
- Begonia, Erford, for pots the best rosy pink. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
- Begonia, Gracilis Luminosa, a fine Bedder, new with large bright scarlet flowers and ball-shaped habit, unexcelled for pots and outdoors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
- Cyclamen, Giant flow, separate colors, 1000 seeds \$8.00. Trade Pkt. \$1.00.
- Petunia, Rosy Mora, a fine hedder. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
- Petunia, Californian single Giants, extra strain. 6 Trade Pkts. \$4.00; Trade Pkt. 75c.
- Petunia, double fringed Giants. 6 Trade Pkts. \$5.00; Trade Pkt. \$1.00.
- Phlox, New Cecily, the very best large flowered, real dwarf, compact, Drum. Phlox for pots, mixed colors. 6 Trade Pkts. \$2.50; Trade Pkt. 50c.
- Salvia, Bonfire. 6 Trade Pkts. \$1.25; Trade Pkt. 25c.
- Salvia, Fireball, this is a new, real dwarf compact early flowering, fine variety and there is hardly a better one for pots. 6 Trade Pkts. \$2.00; Trade Pkt. 50c.
- Verbena, Mammoth, unexcelled strains; as Auricula flowered, Scarlet, Striped, Pink, Purple, White, each separate. Oz. \$1.50; Trade Pkt. 25c.

For larger quantities special quotations.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

TOMATO SEED

The very best strains, true to name and of high germinating quality.

	oz.	1/4 lb.	1 lb.		oz.	1/4 lb.	1 lb.
Aome.....	\$0.20	\$0.60	\$2.00	Perfection.....	.20	.60	2.00
Beauty.....	.25	.70	2.25	Royal Rid.....	.25	.70	2.25
Chalk's Early				Stone Selected	.25	.70	2.25
Jewell.....	.40	1.25	4.00	Spark's Earli-			
Early Michigan	.25	.70	2.25	ana.....	.40	1.25	4.00
Favorite.....	.25	.70	2.25	S. & W. Co.'s			
Matchless.....	.25	.70	2.25	Earliest of All	.40	1.25	4.00
Ponderosa.....	.40	1.25	4.00	Trophy Selected	.25	.70	2.25
Paragon							
Selected.....	.25	.70	2.25				

These prices include delivery anywhere in the U. S. and our stock of Tomato Seed is the very best there is to be had. We would appreciate a trial order.

STUMPP & WALTER CO., 50 Barclay St., N. Y.

LEONARD SEED CO.

Growers and Wholesalers of Superior Garden Seeds

Seedsmen and Florists Supplied at the shortest notice and at right prices.

Our Catalogues are now ready and are mailed upon request.

Flower Seeds—Onion Sets 79 East Kinzie St., CHICAGO
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LAWN GRASS SEED

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Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO

SEED PANSY PLANTS

THE JENNINGS STRAIN

25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, in bud and bloom \$1.00 and \$1.50 per 100; by express only. Second size, strong plants, 100 by mail, 60c.; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

E. B. JENNINGS,
Lock Box 254
Southport, Conn.
Grower of the Finest Pansies

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STRONG, READY FOR 3 IN. POTS

- AGERATUM, "Gurney," best dwarf blue. \$2.00 per 100.
- VERBENAS, California Giants, seedlings, finest grown, mixed, strong 2 in., \$2.00 per 100.
- PETUNIAS, New Star, from the finest marked star flowers, \$2.00 per 100.
- PHLOX, New dwarf, Grand for pots. A good seller. Mixed \$2.00 per 100.
- HELIOTROPE, Light and Dark, strong 2 1/2 in., \$2.50 per 100.
- PELAGONIUMS, Fancy mixed, 3 in., \$6.00 per 100.
- ROSE GERANIUMS, 3 in., \$5.00 per 100.

Also Seeds as per our recent adv.

CASH. Extras added liberally.

JOHN F. RUPP, Shiremanstown, Pa.

The Home of Primroses.

Mention the Florists' Exchange when writing.

W. & D.'s Specialties for Forcing

- Mignonette "New York Market"
- Sweet Peas "True" Christmas Flowering (Pink and White)
- Tomato "The Queen" Tomato "Strling Castle"
- Mushroom Spaw "Egghill" and "Pure Culture"

Send for 1907 Catalogue.
WEBBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK

If you have not received our florist list, write us; we will mail it.

H. E. FISKE SEED CO.,
12 & 13 Fanueil Hall Sq.
BOSTON, MASS.

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ASTER SEED

Our descriptive price list of High Grade Aster Seed is now ready and will be sent free on application. Try our new varieties: CARDINAL, SUNSET and ROSY CARMINE BRANCHING; they are winners. Price per packet, 25c.; two packets for 40c. Pointers on how to grow ASTERS successfully sent free with every order.

VICK & HILL CO.
P. O. Box 613 ROCHESTER, N. Y.

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NEW STOCKS

FLOWER SEEDS FOR FLORISTS

Wholesale Catalog Ready

Send for it today. But first read our advertisement on page 126 in the Florists' Exchange for January 28th, 1907. It is worth reading.

JAMES VICK'S SONS
Seedsmen
ROCHESTER, N. Y.

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BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

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Commercial Violet Culture

PRICE, \$1.50

The FLORISTS' EXCHANGE, 2-8 Duane St., New York.

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Table listing various bulb types such as BEGONIAS, GIANF FLOWERINO, CANNA ROOTS, DAHLIAS, and GLADIOLUS HULBS with prices per dozen.

Table listing MEXICAN OR MADEIRA VINE, GLOXINIAS, DOUBLE HERBACEOUS PEONIES, and JAPANESE LILIES with prices per dozen.

JOHNSON SEED COMPANY, 217 Market St., Philadelphia, Pa. Herbert W. Johnson of the late firm of Johnson & Stokes, President.

BULBS BEGONIA TUBEROUS ROOTED GIANT STRAIN. Table listing prices for single, double, and mixed varieties.

CANNAS FOR PRESENT STARTING. Table listing prices for Rose and Salmon, Red and Scarlet, and Scarlet and Yellow varieties.

GLOXINIAS Giant Flowering. Table listing prices for separate colors and mixed varieties.

ORCHID CANNAS and BRONZE FOLIAGE. Table listing prices for Allemanina, Austria, Italia, and Kate Gray.

TUBEROSES. Table listing prices for Dahlia Pearl varieties.

SEEDS. Table listing prices for Asparagus Plumosus Nanus, Asparagus Plumosus Nanus open air, and other seed varieties.

"EXCELLENTA" LILY of the VALLEY. Advertisement for John Scheepers & Co., New York.

GLADIOLI. Advertisement for Arthur Cowee, Meadowvale Farm, Berlin, N. Y., featuring plant culture.

TREES, SHRUBS and PRIVET

Large Lindens, Birch, Catalpas, Oaks, Maples, Etc. Advertisement for Elizabeth Nursery Company, Elizabeth, N. J.

S. M. ISBELL & CO. JACKSON, MICH. Seed Growers for the Trade. Beans, Cucumber, Tomato, Radish, Peas, Muskmelon, Squash, Watermelon, Sweet Corn.

East Bridgewater Dahlia Gardens. Not only has the largest, but the finest collection of up-to-date DAHLIAS.

To The Trade. Just issued—our special price list giving our position on ONION SEED.

Onion Sets AT RIGHT PRICES. VAUGHAN'S SEED STORE, 14 Barclay St., N. Y.

A. J. Pieters Seed Co., Hollister, Cal. Mention the Florists' Exchange when writing.

Seed Trade Report. AMERICAN SEED TRADE ASSOCIATION. Henry W. Wood, Richmond, Va., president.

TREE SEEDS. Send to-day for our Trade Price List and our Illustrated, Descriptive Catalog.

C. C. Morse & Co. SEED GROWERS. 171-173 Clay St., San Francisco, Cal.

"SOLE DE ITALIA". "SON OF ITALY," one of the latest novelties in dahlias.

Leaves preserved in their natural state and used for ornamental or decorative purposes.

FLAX CULTURE is treated upon in Farmers' Bulletin 274, U. S. Department of Agriculture.

ASPARAGUS PLUMOSUS NANUS (Greenhouse Grown) FINE PLUMP SEED \$5.00 per 1000.

CHICAGO.—At Leonard Seed Company's store on Kinzie street an unprecedented business is reported.

SOW NOW and SAVE TROUBLE. In making cuttings, the Real Dwarf Ageratum Mex. Blue Star.

SOME OF THE DAHLIA GROWERS in the Middle States are talking of organizing a dahlia society.

European Notes.

The frost, to perpetrate an Irish bull, appears to have been only a "dash in the pan," and temperatures are now about normal. At the same time these sudden spells are serious checks to business, and on all sides one hears complaints of the slackness of trade. The rush will no doubt come presently, but our experience has been that a slack February invariably means a light season's trade, and that is how matters stand this year.

The farm seed catalogues, wholesale and retail, are now issued and are rather curious reading. It is common knowledge that the crops of rutabagas and yellow-fleshed turnips saved last year were very poor; as a consequence wholesale prices have advanced considerably, but the retail dealers (probably through fear of each other) hesitate to raise their prices and as a result, both wholesale and retail lists are on the same level.

Just now the retail seed trade in Northern Europe is in a rather upset condition on account of the passing of the Corrupt Practices Act in England by which the system of "graft" is practically put an end to. Some 800 of the members of the nursery and seed trades in Great Britain have resolved to discontinue giving the commissions to gardeners which have been customary from time immemorial, and the majority will doubtless honorably abide by the resolution. But already one at least of the more important firms has acted in a way which suggests a desire to evade the law in the spirit if not in the letter. More will be heard of this later on; in the meantime, as already mentioned in this column, some unscrupulous German firms are tempting the illpaid gardeners with substantial bribes which doubtless some of them would willingly accept but for the fact that it is a criminal offence for them to accept a bribe from any quarter. One result of the passing of the law has been that some of the wealthier seed firms have written to the secretaries of the numerous local horticultural societies offering very generous

prices for the annual flower shows, doubtless with the hope that these will be gained by the gardeners of their customers in the locality. One firm goes so far as to offer to duplicate any first or second prizes the gardeners may gain with the product of their seeds.

The right course to pursue is for employers to pay their gardeners an honest wage and thus lift them above the temptation.

Reverting once again to the weather, the recent spell of frost has put fresh heart into the onion growers, as the prices of bulbs have risen fully 50 per cent. during the past four weeks. This will curtail the planting for seed, so that there is very little probability of any great competition from Europe next season. There is an old saying that when onions have thick outside scales there will be a cold Winter; it is certainly true this season, but it is a question whether the thick scale is not the result of the excessive heat of 1906.

EUROPEAN SEEDS.

CHANGES AMONG FLORAL PUBLICATIONS. — Senator John Lewis Childs of Floral Park, N. Y., is out with the first number of a new publication devoted to floriculture. It is called the Guide Post and is issued at ten cents a year.

It is understood that D. Jefferson Thomas, who recently retired from the management of Floral Life of Springfield, O., will shortly start another floral journal. He has been in New York for several days and says the exact date when his periodical will appear is not settled, nor the question whether it will be published from Springfield or some eastern city.

About a year ago the Young & Bennett Company of Springfield, who published Floral Life, bought the Mayflower from Senator Childs, and the two journals were consolidated. If the purchase contract was of the usual nature, litigation over the entrance of Childs into the same field again may result. About the same time Home and Flowers and Success With Flowers were absorbed by Vick's Magazine.—Fourth Estate.

DAHLIA ROOTS

We offer strong field-grown divided clumps which can be propagated readily and also produce an abundance of bloom.

DOUBLE DAHLIAS

Admiral Dewey, rich purple.
Adolf Pfeffern, purplish crimson.
Alata, delicate bluish pink.
Arabella, primrose shaded, pink.
Blue Olan, lavender blue.
Camelia Alba, pure white.
Chang, striped crimson.
Electric, soft rosy magenta.
Elegans, rosy purple, tipped white.
Fern Leaved Beauty, white, striped crimson.
Flora Nova, rich purple.
General Grant, yellow, striped crimson.
George Smith, large crimson.
Frank Goodman, purple, tipped white.
Gilt Edge, white, margined gold.
Hero, deep crimson maroon.
Hercules, red, pencilled yellow.
Jamaica, purple, tipped white.
John Elitch, deep crimson.
Jas. Stephens, orange scarlet.
Judah, yellow, striped crimson.
Japan Pink, very deep pink.
Jas. Vick, rich plum color.
Jumbo, rich crimson.
Keystone, pink, striped crimson.
Kysarith, red, margined maroon.
Lemon Giant, pure lemon.
Lady G. Herbert, white tipped, purple.
Lady Jane Ellis, pinkish white, veined purple.
Leberheimer, crimson, tipped white.
Magnificent, dwarf, yellow.
Maid of Kent, red, tipped white.
Margaret Bell, soft purple.
Model of Perfection, deep rose.
Miss Cannell, white, suffused pink.
Miss Dodd, pure yellow.
Mrs. Dexter, rich salmon.
Mrs. Keith, primrose, overlaid pink.
Prince Bismarck, rich plum color.
Paul's Scarlet, brightest scarlet.
Queen of the Yellows, clear yellow.
Queen Victoria, deep yellow.
Ruby Queen, yellow, tipped red.
Rudolph Kuhl, maroon, tipped white.
Ronald, deep rich orange.
Sport, clear lavender.
Stanley, golden yellow, tipped red.
Triomphe de Solferino, bright solferino.
Viridiflora, green flowers, a curiosity.
Wm. Agnew, dazelling scarlet.

Price of any of the above in strong roots, 10c. each; per doz., \$1.00; \$8.00 per 100.

CACTUS DAHLIAS

Arachne, crimson striped white.
Aunt Calce, rich black maroon.
Aegir, cardinal red.
Atlanta, large, bright rich red.
Berdismaid, primrose, shaded pink.
Bertha Mawley, scarlet.
Countess of Lonsdale, salmon pink.
Capitan, orange, shaded red.
Dankward, dark rose to carmine.
Earl of Pembroke, plum colored; pointed petal.
Hohenzollern, rich bronzy red.
Keynes White, very narrow petals pure white.
Kreimhilde, pink, suffused white. 15c. each, doz., \$1.60; \$10.00 per 100.
Mrs. J. J. Crowe, clear light yellow, quilled petals.
Mrs. Jowett, orange red, exceedingly fine.
Progenitor, bright carmine.
Porcupine, very deep crimson, shaded darker.
Primrose Dame, primrose yellow, very fine.
Rosenhagen, salmon rose, shading to magenta.
Ranji, large deep maroon, base white, suffused red.
Standard Bearer, rich fiery scarlet, very free.

Price of any of the above cactus dahlias (except where noted) in strong roots, 10c. each; per doz., \$1.00; \$8.00 per 100.

DAHLIAS OF SPECIAL MERIT

Bathilde, plum color, cactus very fine.
Catherine Duer, crimson scarlet, decorative.
Eloise, pink shading to white, margined crimson.
Eureka, deep rose, quilled, decorative.
Gabriel, creamy white, edged crimson; cactus.
General Buller, cardinal red, tipped white; cactus.
Gracia, white suffused blush (single).
J. H. Jackson, crimson maroon; cactus.
Miss Grace Cook, beautiful deep rose, cactus.
Mrs. H. J. Jones, rich scarlet, self colored; cactus.
Congress, rose pink, pencilled rich crimson.
Olympic, soft rose, pencilled crimson.
Sylvia, white shaded pink, decorative.
Storm King, large pure white, (double).
The Fairy, single, soft rose, profuse bloomer.
Venus, a pompon cactus type, pure white.
Venus, pure yellow, very fine; cactus.

Price of any of the above in strong roots, 15c. each; per doz., \$1.50; \$10.00 per 100.

In our Florists' Wholesale List we offer a complete list of Dahlias. Write for a Copy.

HENRY F. MICHELL CO., 1018 Market St., Philadelphia, Pa

A NEW TYING MATERIAL

Try it on your Easter plants; pleasing, bright green color; stronger and cheaper and better in every way than string or Raffia.

Sample Free—It is put up in coils and on reels. In handling it the coil is placed in the pocket and the tape drawn from the middle. The brass reels are hung from the vest buttonhole.

Price—Coils (enough for tying up 150 plants) 5c. each, 50c. per doz. (by mail).

Reels (250 yards), 75c. each, \$8.00 per doz. (by express).



Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

Mention the Florists' Exchange when writing.

Sweet Peas.

The following correspondence appearing in the Horticultural Advertiser, England, will be read with interest by those who cultivate sweet peas:

Dear Sirs:—The Winter-flowering sweet peas, mine as well as the Americans', are nothing but sports of the ordinary kind. In America the white one (Sport of Emily Henderson) and pink (Sport of Blanche Ferry), have been about for some years. In Europe we have had Mont Blanc, which I have strong reason to believe is also a sport of Emily Henderson, only weaker growing than the American white. As regards my own strain, the first I had, about four years ago, was a sport of Captain of the Blues; since then I have had sports of Dorothy Eckford, Miss Willmott and Lady Grisel Hamilton. I have also made a number of crosses, and possess now nearly all colors. I don't want to blow my own trumpet but any independent judge will see that my sports, etc., are superior to the American kinds as much as their parents are superior to Emily Henderson. These sports are not color sports but habit sports, viz.:—The flowers are identical with the parent, only, instead of making a bushy plant before throwing up flower spikes, the plants, if undisturbed, run straight up and start flowering and only branch out later on so that the ordinary ones may be compared to a bush, the Winter-flowering ones to a standard. The varieties Early Bird and Sunbeam are color sports of Mont Blanc. I may mention that it is absolutely impossible to have the ordinary sweet peas in flower until later in the Spring.

C. ENGLEMANN.

Dear Sirs:—In your issue of February 20th, I note on page 30, a notice of the early flowering sweet pea shown by Mr. Englemann, at the meeting of the R. H. S. on the 12th inst. in which you state that a similar strain is being grown in the U. S. A. Your reference is doubtless to the strain described by Ant. C. Zvolanek, of Bound Brook, N. J., in The Florists' Exchange, for July 28, 1906.

It would be very interesting to sweet pea specialists to know if these two strains have a common origin; perhaps Mr. Englemann will kindly enlighten us on this point.

Mr. Zvolanek states that he made his first experiments twenty-five years ago, but did not succeed until he made a cross with the European vetch, largely grown on farms in Central Europe as green fodder. About October, 1891, he sowed some of this seed which he had hybridized with the vetch and on January 1, 1892, found two little plants, each with one open flower and several buds. The flowers were very small and the plants only 24 inches high, but by crossing and re-crossing, a strain producing large flowers on long stems, and growing 6 feet high was secured.

Presuming that the vetch here referred to is the *Vicia villosa*, I have sent a sample of the seed to Mr. C. Foster of Reading, to be sown by the side of the sweet peas sent for trial by Mr. Zvolanek, and await the results with much interest.

In this connection I would like to refer to the interesting article on "The Témely Sweet Pea," by the Rev. Edwin Arkwright, in the Sweet Pea Annual for 1907. The Témely is evidently very similar to the two strains referred to above, both as regards flowers and foliage. If all three strains have not a common origin, it is remarkable that this development should appear in such widely different countries at the same time. Can any of your readers throw any further light on the subject?

S. B. DICKS.

[Mr. Englemann's notes on this subject will be found above; we think the "vetch" theory will need strong substantiation before it is accepted here. EDS. H. A.]

Gladiolus America

is becoming more popular every day. The flowers being delicate pink with lavender tinge, are BEAUTIFUL and USEFUL.

Strong bulbs, \$10.00 per 100, \$75.00 per 1000.

Other "Top Notch" Varieties

ATTRACTION. Deep, dark, rich crimson with a very conspicuous large white center and throat. At once a most beautiful and attractive sort. \$15.00 per 100.

CARDINAL. Perfect flower and spike, very large and the brightest, cleanest and most intense cardinal scarlet yet seen. Very rich and showy. \$10.00 per 100.

CONTRAST. Flowers of great substance and a beautiful compact spike of perfect form. Color intense scarlet with a large, distinct white center which is neither tinted nor mottled. One of the most striking and beautiful Gladiolus ever introduced. \$12.00 per 100.

IRENE. Fine large flower and spike. Color a fine shade of pink freely flaked bright crimson. \$10.00 per 100.

MELROSE. White flaked pink, bright crimson center. Very large and fine. \$15.00 per 100.

OCTOORON. A beautiful salmon-pink; very distinct. A gem of its color. You will not be disappointed in Octooron. \$4.00 per 100.

Special offer: 25 bulbs each of above seven varieties for \$18.00.

JOHN LEWIS CHILDS
FLORAL PARK, N. Y.

Mention the Florists' Exchange when writing.

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. PEACOCK, Inc.
ATCO N. J.

Mention the Florists' Exchange when writing.

Gladioli—NOTHING BETTER ANYWHERE.
Cannas—VERY BEST SORTS.
Carnations—THE MONEY MAKERS.
Paeonias—1200 sorts, finest sorts in liberal supply.

Send for a list of our offers.

C. BETSCHER, Canal Dover, Ohio.

Mention the Florists' Exchange when writing.

75,000 Gladiolus Bulbs

1 to 1½ inches \$2.00 per 1000; Larger sizes at proportionate prices; all very fine light mixed Lemones and Gandavensis. Cash with order.

I. & J. L. Leonard, Iona, N. J.

Mention The Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

Cutting Back Hedges.

Spring is the time to cut down hedges wherever cause exists for such action. Very often from lack of judicious pruning when young and later on a privet hedge may be uneven or bare at the base; or it may be an old one, too strong and tall. Whatever the reason, if unsatisfactory saw it down to within six inches of the base, and do it before growth starts. New shoots in abundance will take the place of the old ones and they will be so strong that a nipping off of the ends of the shoots may follow as soon as they are six inches in length. The side shoots which will develop may be nipped off when of the same length; and the fresh shoots that follow are treated in the same way throughout the Summer. The appearance of the new hedge by Fall should be pleasing, for it should represent a solid foundation for a hedge that should be perfect.

All deciduous hedges come under the same rules. There are not many plants that renew their growth as readily as the privet. Osage orange, locust, buckthorn and berry hedges may be cut back, but not so close to the ground as the privet; perhaps at the height of a foot would be better than six inches.

Evergreen hedges cannot be pruned or cut down as can deciduous ones. Writers may say they can be, but they will never break afresh in the satisfactory way a deciduous hedge will. Many evergreens will not break again at all if cut below the living foliage.

there is no other hardy tree of small or large growth with foliage like this has. The leaves are very large, and of plaited appearance, quite unlike those of any other viburnum or any other shrub. It has occurred to us that this shrub must be of an evergreen character where freezings do not happen, as is the case with some trees and shrubs, for this viburnum keeps its leaves of a perfect green until they freeze off. There is never the slightest indication of a change from green to an Autumn color; instead, no change of any kind is observed, and in 24 hours, should a freezing night come, every leaf will have fallen.

The flowers of this viburnum come in large, flat heads, white, as these of all the cultivated sorts are, and looking not unlike the flowers of the laurietinus. Following the blossoms are the berries which change from green to pink, and from pink to bluish black when ripe, making in foliage, flower and fruit a series of attractions throughout the season.

In addition to the type, as described, there is a variegated leaved variety of it, but as with many other variegated leaved plants, it needs watching that the green shoots it is sure to make do not rob those having the variegated leaves.

Viburnum Sieboldi has had several names since its introduction—reticulatum, Sandankua, Japonicum among them—but all appear to have given way to Sieboldi.

One and all of the viburnums are interesting, and

Horticultural Notes.

MCKINNEY, TEX.—The McKinney Nursery Company has been incorporated, capital, \$20,000. Incorporators: E. W. Kirkpatrick, A. B. Mayhew, and C. C. Mayhew.

NEWARK, N. Y.—A. J. Perkins of Jackson & Perkins Company is enjoying a very delightful trip. After a Winter in California at the branch nursery of Jackson & Perkins Company, he is now spending several weeks in the Sandwich Islands and expects to sail March 15 from Honolulu for Yokohama. He will remain in Japan several months and will visit the leading nurseries and places of horticultural interest. Mr. Perkins is a very well informed hotanist which, along with his knowledge of commercial horticulture, should enable him to make the trip a particularly interesting and profitable one.

Dealers report that since the use of spraying compounds plum crops are now obtained as in years ago, causing a great demand for plum trees. It applies, too, in a measure, to all fruit trees.

Denver, (Col.), seedsmen say that where cattle can get to the wild yucca they eat the flower stems greedily, accounting sometimes for the scarcity of seeds.

A worm eaten acorn will grow if the cotyledons only are partly eaten and not the germ. It is the same with peas. It does not follow that because one is worm eaten it is no good. It will grow if the germ is undisturbed.

Hall's honeysuckle blooms later than any other common sort, and it is a more rapid grower. For these reasons it is usually given a place in all collections.

The beautiful flowering shrub, Xanthoceras sorbifolia, can be increased by root cuttings made in early Spring. When bushes of it are large they fruit freely, and the seeds that form germinate readily if kept in moist earth until sown.

Tulip trees, liriiodendrons, are disappearing fast from our forests, there is such a demand for them for the making of paper. Those familiar with the seeds of this tree know that the half of them are always imperfect. But those that are good grow readily, so that it is a tree that can be increased as fast as may be desired.

Stocks for Japanese Maples.

At the present day both seeds and seedlings of the Japanese maple, Acer polymorphum, are so easily obtained from Japan that there seems no need of using any other kind as a stock for the various beautiful foliaged sorts of that country, as the latter varieties are all of the polymorphum type. In former years the Acer striatum was used to some extent, as it was found suitable. Though quite unlike the polymorphum it closely resembles another Japanese species, the A. ru-finerve. But, as said, there is no need to go outside of their parent type, for very nearly all varieties of "Japanese maples" are from the polymorphum—and this one is easily had from dealers in Japanese seedlings.

Propagation may be by grafting, budding, inarching or layering, as may be most convenient.

One of the cut-leaved varieties of Japanese maples is the dissectum. This makes a growth of almost umbrella outline, hence is best worked on rather tall stems, to make specimens known as standards.

Magnolia Stellata.

Time was when the Magnolia conspicua was considered the earliest flowering magnolia, but it is not now, the M. stellata blooming well in advance of it. Stellata is the earliest of all in this respect, and because of this, and the beauty and fragrance of its flowers, it is sought for by all who know of its excellencies. The flowers are white when expanded, but are a light pink in the bud; and there is a tendency to produce semi-double blossoms. This magnolia blooms so abundantly that it is no exaggeration to say that large bushes are a sheet of white when in bloom, so closely are the flowers set over it. It is its twiggy habit of growth that causes it to have so many blossoms. All magnolias have a flower at the point of every twig; and as the growth of the M. stellata is all small twigs there are a thousand flowers on a bush, that in the case of any other kind would not have but a few hundreds. This exceedingly twiggy character causes M. stellata to grow in the shape of a bush rather than as a tree, rendering it suitable for situations where nearly all others would be considered of too large a growth. But when about to plant it, consider the color of its flowers, and set it where a white wall or similar surface will not be near it, or the effect of the flowers will be lost, and it will have no foliage of its own at that time. Where an evergreen is back of it would be a good place.

This magnolia as well as all the Chinese section are propagated by layers. Strong plants are selected for the purpose, and when Winter is over they are cut down to the ground. The strong shoots that follow are the ones to layer, as soon as they have made length sufficient.



Viburnum Sieboldi

Viburnum Sieboldi.

We owe much of the attraction of our grounds in Summer to the many species of viburnums our climate permits us to grow. From all temperate climes viburnums come, and even without any foreign sorts we have enough native species to make an interesting display.

The one shown in the accompanying illustration is a Japanese one, Viburnum Sieboldi, and it has the distinction of being decidedly dissimilar to any other of the cultivated sorts. As will be seen, it forms a handsome bush, with interesting foliage. As illustrated we have a bush, and a good type of a bush, too, but the plant is easily grown as a small tree, should such be desired. It would require that but one shoot be permitted to grow, when a tree shape would soon be assumed. Such specimens are very interesting, as

many of them beautiful. This applies not only to their flowers but to their fruit as well. Not mentioning now those having berries that change simply from green to black, there are several having pink fruit and some red or scarlet. As we write there come to mind in the pink class, cassinoidea, Lantana, and the one of our subject, Sieboldi. That is to say, at some stage of their ripening the color is pink. Then in the class of red or scarlet there are dilatatum, opulus, tomentosum and Wrightii, as in the case of the pink ones, showing red at some stage of development. Wrightii ends its ripening with the scarlet color, and it is a particularly ornamental bush.

JOSEPH MEEHAN.

For a lawn grass, Poa pratensis, the Kentucky blue grass, gives general satisfaction. A little white clover with it is desirable, as it roots deeply, and when rains come after droughts it produces a green surface in shorter time than the grass does.

Flowering Magnolia
Althæas
Spiræa Van Houtte
Tamarix
Pyramidal Tree Box $\frac{4}{5}$ ft.
Tartarian Honeysuckle
Barberry Thunbergii

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of

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Baby Rambler
General Jack Rose
Lilac Chas. X
Lilac, Purple and White
Lilac, Rubra de Marley
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(THUYA OCCIDENTALIS.)

Each tree grown wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arbor vitae will. They have been frequently transplanted and are supplied with an abundance of fine fibrous roots. Can be dug and shipped with ball if desired.

Per 10. Per 100.
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STRONG DORMANT PLANTS

American Beauty, Clothilde Soupert, Gloire de Dijon, Kaiserin Augusta Victoria La France, Mad. Caroline Testout, Fran. Xavi. Duschki, Crimco Rambler, Baby Rambler, Dorothy Perkins, etc., etc., suitable for forcing
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" " Roses	3	20.00 "
" " Venusta	3	20.00 "
" " Campanulata	3	20.00 "
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ILEX Grenata, (Japan Holly)	3-4	100.00 "

COTTAGE GARDENS CO., QUEENS, N. Y.

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The F. E. Conine Nursery Co.

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will write at once for our catalog of Roses, Shrubs and all kinds of plants for Florists' use. Write today, it's free. We have one order for this Spring's shipment of five hundred and eighty-five thousand Rose plants, and we can still fill your orders.

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50,000 Sugar Maple Seedlings

6-12 in., \$6.00 per 1000.

- 20,000 Sugar Maple Seedlings, 2-3 ft., \$25.00 per 1000.
- 5,000 Tulp Trees, 4-6 ft., \$6.00 per 100; \$50.00 per 1000.
- 5,000 Catalpa Speciosa, 4-5 ft., \$3.00 per 100; \$25.00 per 1000.
- 2,000 Sweet Gum, 6-8 ft., \$10.00 per 100; \$90.00 per 1000.
- 5,000 Ilex Opaca (American Holly), \$4.00 per 100; \$25.00 per 1000.
- 10,000 Novae Anglae Asier, strong, \$3.00 per 100; \$25.00 per 1000.

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being the entire surplus of the Helkes-Billos stock. Delivery February—from my cellar here.

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Finest stock in America, any size from one foot to ten feet high, well furnished from top to bottom, special prices will be quoted on large orders. Also a full line of fruit trees, vines and plants, large quantity of Rock or Sugar maple 8 to 20 feet high, 1 to 3 inches in caliper. Illustrated catalogue and price list of Rhododendrons free for the asking. Can furnish any quantity of Rhododendrons of any size. Write us.

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CANNAS, Phlox, etc.
Burbank, Mlle. Berat, Robusta, large 2-eye peonies, \$1.75 per 100; \$15.00 per 1000.

Pennsylvania, the best tall, scarlet bedder, \$3.00 per 100; \$17.50 per 1000. Hinckley, the grandest of all ornamental, bronze-leaved bedders, growing 8 ft. high and has large, light bronze, Banana-like foliage. Extra strong pieces, \$3.00 per 100; \$25.00 per 1000. The Express, strong, started pieces of this best, dwarf, crimson bedder; fine for immediate potting, \$5.00 per 100; \$40.00 per 1000.

HARDY PHLOX, The Queen, the best florists phlox, growing 3 ft. high and producing large, full heads of pure white flowers. Will net a large profit from first crop. Large field divisions, 75c per doz.; \$5.00 per 100.

TRIFOLIUM, Uvaria Grandiflora, Large 1 yr., field pieces, \$5.00 per 100.

Send for Catalogue quoting numerous other desirable Phlox, Cannas, Chrysanthemums and other florists stock.

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- Sound roots, 2 to 3 yrs, true to name 100 1000
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- Caladonia, 8-8 in. circumference. 1.50 10.00
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- For all other kinds of Cannas, Dahlias, etc., ask for our price list which we send free.
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Estimates on complete lists cheerfully given. Catalogs free. Address all correspondence to our principal offices, BEDFORD, MASS.

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Plant Notes.

ALTERNANTHERAS.—Although the somewhat stiff forms of bedding commonly called carpet bedding are not nowadays practiced to the extent they were some years ago, still alternantheras, the plants mostly grown for that kind of work, are not in consequence neglected in the way some supposed they would be. And this is because forms of arrangement are now adopted much more pleasing than those of the old school and times, when the summit of perfection was only attained when the most marvelous and intricate designs were worked out. Instead of these we now see a desire for harmony even in brilliant coloring. Where contrasts are necessary the required colors are there, not to the extent of minimizing the pleasing effect of the greater part harmonious. Alternantheras are still used in large numbers in the public parks, cemeteries and other public places much in the same way they always were, but even in these places I have noticed a tendency in recent years to have masses of one color, and that less attention is paid to designs than formerly.

The fact that has gained prominence lately of having so-called Italian gardens has, to some extent, increased the demand for alternantheras, although perhaps, begonias of the type known as Vernon are used in as large numbers as the former, because they have, in addition to dwarf habit and bronze foliage, when exposed to the sunlight, beautiful flowers. Nevertheless there is nothing grown that for many purposes can take the place of alternantheras, especially for public grounds and on large private places where there is an ever-recurring desire for something novel; and to the gardener and florist in such cases there is no more adaptable and pliant friend than alternantheras.

Even at the very reasonable prices ruling for alternanthera in recent years it is profitable to grow it, if its propagation is properly understood and the work when once commenced pushed right along to a finish. If all the plants required for Spring and Summer sales are intended to be grown in the greenhouse without the aid of a hotbed, it is now time to start right in on the operation. Taking it for granted that the stock to be worked on is now in flats, packed closely together, as it should have been all Winter, a good crop of cuttings will now be available from these stock plants. The cuttings, after they have been sheared off, or taken off by using a knife, should be put in the sand in rows. The cuttings may be put in touching one another, likewise the rows. They require a good watering when put in and shade for two or three days. If there is a nice bottom heat the cuttings will be rooted in a little more than a week, when they should be lifted out of the sand and put into flats. If pot plants are required, these, when they have made sufficient roots and are crowded in the flats, can be potted into 2 1/2-inch pots or into 3-inch, if desired.

When the stock plants have recovered from the operation of shearing the cuttings off them to the extent of showing new growths, they should be divided, and thus divided, be either potted into small pots or put into flats. If the main object, for some time at least, be to get all the cuttings possible, the better plan is to put them into flats, where in two or three weeks they will give another crop of cuttings. Two or three crops of cuttings can also be had of those first propagated; in fact, when kept going, cuttings in plenty can be got from quite a limited number of stock plants.

The comparatively new variety, known as Brilliantissima is in many ways the best red, chiefly because it holds its

color at all times and in all stages of growth; whereas the best of the older varieties vary greatly, according to age and the treatment they receive. Growers who have not a stock of Brilliantissima should lose no time this Spring in procuring it, and propagating as fast as possible; and then more than likely it will pay the first season. Last Summer this variety was greatly admired in many places. It does not flower and seed to the extent the others do, and that in itself is quite a consideration at propagating time as well as, sometimes, at planting time. It is a great deal too early yet to work on alternanthera in hotbeds.

BEGONIAS.—The begonias of the fibrous-rooted kinds are in great demand for bedding. The varieties best adapted for that purpose are gracilis, red and white Vernon and B. Erfordii in various colors. The Erfordii type had quite a run for a number of years, but it has slackened, somewhat recently. The introduction of a red flowered variety of this type a year or two ago, received interest in all of them to such an extent that, in addition to a brisk demand for the new one, the older varieties are also grown in considerable numbers. There are few things that equal Begonia Vernon for bedding out, but it ought to be always borne in mind that before offering the plants for sale they should be sufficiently hardened, so as to stand outdoors without injury, otherwise the purchaser will have a sure source of disappointment on his or her hands. This hardening cannot be properly done without frames; of course, a greenhouse may do, if sufficient air can be admitted to answer the purpose, but this is barely feasible.

Begonias of the bedding varieties will now be in the stage when they should be pricked off into flats, where they should be put, no matter whether they are destined for pots ultimately or not. Then again, if it is the intention to grow them right along in flats they can, for the first pricking off, be put in very close together and by and when they get crowded, taken out of these and put into other flats, affording the little plants sufficient room for proper development and means for showing off their decorative peculiarities to their owners and the grower's advantage. Begonias, like many other things crowded together, are in the end unsatisfactory to both the grower and planter.

D. M.

Roses! Cannas! Violets!

Roses. We have in stock upward of 1000 different varieties, consisting of the very latest European varieties, as well as all the leading varieties of American origin. Stock from 2 1/2 and 4 and 5 in. pots, all our own roots. Ask for catalogue.

Cannas. 40 leading varieties. \$10.00 per 1000 and upward. Write for list and prices. Louisiana Cannas \$5.00 per 1000.

Violets. Lady Hume Campbell, Princess of Wales, Swanley White, Admiral Avellan and Lorraine, nice strong plants, from 2 1/2 in. pots. \$3.50 per 100; \$30.00 per 1000.

Rex Begonias. A fine assortment of the best varieties of this magnificent decorative plant, in 2 1/2 inch pots, in 25 kinds, including such sorts as President Carnot, Leopardini, Silver Queen, Helen Upden, Chloire De Vesinet, Beauty of Richmond, Elsie Coles, etc., \$5.00 per 100; 25 or 60 at the 100 rate; \$45.00 per 1000.

Clematis Paniculata, two-year-old field-grown stock, strong plants, per 100 \$7.00, per 1000, \$65.00.

Cissus Discolor, nice plants, from 2 1/2 inch pots, per 100, \$4.00.

Cypripis Gracilis, from 2 1/2 in. pots, per 100 \$3.50.

Weeping Lantana, from 2 1/2 inch pots, per 100, \$3.50.

Viburnum Plicatum and a complete list of bardy shrubs, vines and miscellaneous plants of all kinds. Send us your list for prices. Ask for Catalogue—it's free. Address

THE DINGEE & CONARD CO., Rose Growers, WEST GROVE, PA. Established 1850. 70 Greenhouse.

Cannas QUEEN OF BEAUTY Cannas

QUEEN OF BEAUTY, the best of all scarlets, was introduced by us in 1906. It has proved all that we claimed for it. Our list contains nearly 200 varieties. Can we book your order for Fall delivery 1907 or for started plants, strong and hardy, grown in cold frames, ready April 1 to 15? Prices same as for dry roots. Over 50 varieties of dry roots for immediate delivery. Zulu and Pearl Dahlias, Arundo Donax Variegata, Rudbeckia Golden Glow, also Kudzu layer plants. Write for quotations.

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150,000 CANNAS

TRUE TO NAME

ALL WITH TWO TO THREE GOOD EYES. Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

Table with 2 columns: Variety and Price. Includes Red Cannas like Beante Poitevine, Chas. Henderson, Crimson Bedder, etc.

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Table with 2 columns: Variety and Price. Includes White Cannas like Alsace, Peachblow.

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Full descriptions of above and fifty other varieties of Cannas mailed free.

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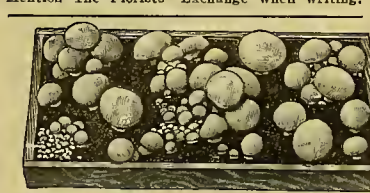
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WATCH MY CANNA AD. NEXT WEEK.

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



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Grown Profitably Under Greenhouse Benches. Use the waste spaces you are now heating to pay your coal bill! Being the largest grower in the United States and having had ten years of practical experience, here is an opportunity to acquire a thorough practical knowledge of this paying business. Send for free book giving particulars and information how to start, cost, etc. Address

THE AMERICAN CARNATION Price \$3.50

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GRAND NEW CANNAS

William Saunders

The flowers are large, of splendid form, and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson. Foliage is a rich bronze. Height, 3 1/2 to 4 feet. We believe that **Wm. Saunders** is decidedly the most perfect cannas of this type that has been introduced. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Ottawa

is a strong grower, very robust and 5 to 6 feet high. The flowers are large and beautifully formed, color is carmine with tints of old rose and deep coral, add to this the silken sheen and you can imagine the effect a few plants will produce.

Note:—We had this cannas on trial among the Canadian experimental stations last summer and this is the official report of their expert: Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 massed in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size, 50c. each; \$5.00 per doz.; \$35.00 per 100.

New York

Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of cannas. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Send for our list and prices of 60 other leading varieties of cannas.

ROSES

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Are our great specialty, 2 1/2 and 4 in. pot plants we have in great variety. Teas, Hybrid Teas and H. P. Roses on their own roots. Philadelphia Rambler, Crimson Rambler, Dorothy Perkins and other climbers in strong field plants.

in variety. Viburnum Plucatum, Spireas, Altheas, Dentzies, Weigelia, Barberry Thunbergii, Hydrangeas Pan. Grandiflora, Honeysuckles, etc.

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THE CONARD & JONES CO., WEST GROVE, PA.

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GRAFTED ROSES

Money-Makers for Commercial Growers

Our list includes only the most profitable commercial varieties for forcing—no "has-beens" nor "breaks". (Consult the Flower Market reports, and see what the sellers are). Here's our list:

	Per 100		Per 100
RICHMOND	\$10.00	KILLARNEY	\$15.00
CHATENAY	12.00	WELLESLEY	12.00
BRIDE	12.00	KAISERIN	12.00
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These are the markets top-notchers. Our plants are grafted on the best selected English Manetti stocks, and we are booking orders now for early delivery, or when wanted.

THE 1907 NOVELTIES, Lady Gay, Minnehaha, and Hiawatha, can be had in strong stock; descriptions and prices on request.

SPECIAL--American Beauty, 2 years, dormant, (field-grown) budded, fine plants for forcing, at \$12.00 per 100.

CELLAR-STORED SHRUBS, VINES, etc., in full assortment, ready for immediate shipment; send for Complete Price List.

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BOSKOOP, HOLLAND

Are offering this season the grand New Pink Baby Rambler rose

ANNY MULLER

Our Mr. Endtz will be in the United States during April and May. Please address all correspondence care of Messrs. Maltus & Ware, 14 Stone Street, New York.

2 year old **ROSES** 4 in. pots

P. & W. Cochet's and Crimson Rambler, 7c.; La France, Meteor, Hermosa and Souperet, 8c.; Dinsbach, Dinsmore, Charts and Lsing, 9c.; Gen. Jacqueminot and Paul Neyrin, 10c.; Marchal Niel, 15c.; Baby Rambler, 18c. 101 choice sorts in 2 1/2 in. pots.

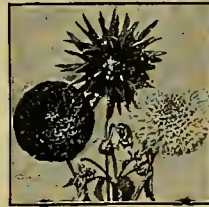
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Kaiserin Roses

From 2-in. pots, for sale at Rose Lawn Greenhouses, \$3.00 per 100.

J. HENRY BARTRAM, Lansdowne, Pa.
Mention the Florists' Exchange when writing.

DAHLIAS AND THE DAHLIA MANUAL



An illustrated up-to-date work covering the whole field of Dahlia Culture. Price 35c.

Send for catalogue of Dahlias, Hollyhocks and Hardy Plants. I handle only the cream of varieties. Mrs. Winters, Mrs. Dael, Navajo, Dainty, Kriemhilde, etc. My Dahlias have long been celebrated as prize winners.

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Dahlia Specialist, Box 382, DENVER, COLO.

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MISS LINGARD, best white summer cut flower, R. C., \$30.00 per 1000.
CARNATION ABUNDANCE, R. C., \$40.00 per 1000; from 2 in. pots, \$60.00 per 1000.
HYDRANGEA HORTENSIS GRANDIFLORA, R. C., \$50.00 per 1000. Cash with order.

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CANNAS

CRIMSON BEDDER, a superb Cannas, very handsome for bedding, large, sound roots, \$1 per 100; cash.

A. CORLIN, Elberon, N. J.
Mention The Florists' Exchange when writing.

Grafted Roses

We offer this year the following assortment: Bride, Bridesmaid, Bon Silene, Etolls de France, Franz Desgan, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Mrs. Abel Chatenay, Mrs. Caroline Testout, Mrs. Foster, Mrs. Pierpont Morgan, Maman Cochet, Marechal Niel, Paris Des Jardins, Papa Gontier, Richmond, Bossall Orr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.

The above grafted from 2 1/2 inch pots \$15.00 per 100; \$120.00 per 1,000 for A. No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.

AMERICAN BEAUTY

On own roots, from 2 1/2 inch pots, \$3.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

OUR GUARANTEE GOES WITH EVERY PLANT.

A. N. PIERSON, Cromwell, Conn.
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2 YEAR OLD ROSES

4 in. pots; Climbers, in assortment, at \$3.00 per 100. 2 1/2 in. Roses, 40 varieties, all colors, at \$2.00 per 100; \$16.00 per 1000.

2 1/2 in. stock GERANIUMS, AGE-ATUM, PERIWINKLES, VIOLETS, HIBISCUS, F. BEGONIA, FUCHSIA, HELIOTROPE, HONEYSUCKLE, ASPAGUS, \$2.50 per 100. COLEUS, ALTERNANTHERAS, at \$2.00 per 100. PEENIS, 2 1/2 in., Boston, Pierson, Scotch, at \$3.00 per 100. Tarrytown, Barrows, at \$6.00 per 100.

THE NATIONAL PLANT CO., Dayton, O.
Mention The Florists' Exchange when writing.

GRAFTED ROSES

On Dickson's Irish Manetti.

We are now booking orders for March delivery. KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND; \$120 per 1000.
Order Now

ROBERT SCOTT & SON,
SHARON HILL, DEL. CO. PA.
Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

Final Preparations for Easter.

Trustworthy signs in plenty presage a thriving business for plantsman and florist at Easter. There are now but two weeks left in which to bring to a satisfactory end the arduous task of being well prepared for the occasion. Flowers and plants play the major part in the celebration of the great Spring festival and the supplies in this line are greater and more varied at Easter than at any other holiday.

Much may yet be accomplished in a final effort to make good any previous loss in time or headway, all depending on the present condition of the stock and on what the weather will be in the short span of time before us. The greater part of the stock to be put forth for Easter is of a kind readily responding to extreme measures, should some hard driving seem necessary. A full week more of ordinary forcing even, with clear skies overhead and proper attention as to watering and sprinkling, will do much in opening buds and finishing up laggard stock in good season. All the ordinary run of bulbous plants stand a deal of hard forcing, so do Indian azaleas, lilies, hydrangeas and roses, should it be required. But if ever possible it should be the aim of the grower to gain a few days at the close of such a course for a gradual hardening off of the stock—a point of importance in all cases of forcing, when the plants are likely to be subjected to much exposure and frequent handling. While the sprinkling of plants under forcing is necessary it should not be continued after flowers begin to expand.

Easter being early, it is not likely that much of the stock intended for that holiday is greatly ahead of time. For the preservation of any such, now already in holiday attire, cool and somewhat darkened quarters must be chosen. The remaining days of March have yet so much of chilly Winter in them that any holding back of too forward stock, or its keeping in acceptable condition, should not prove difficult.

Many of the more common greenhouse plants will stand a fair chance of being put in the hands of our less pretentious customers. Anything in this line now in bloom, of good shape or pleasing appearance, is worthy of special attention, should be cleaned, brought forward and be in readiness for this particular trade. A day or two could now be devoted to the filling of pans, fancy dishes and baskets, even going to the extent of filling a few indoor window boxes of attractive exterior and convenient size, which last year found ready sales at good prices. Whatever is done in this line of work should give proof of artistic taste in the arrangement of the plants used and care in their making up.

Easter Lilies.

The greater share of our time and attention is likely to be required in the hastening of backward lilies wanted for the Easter trade. These, the foremost in the list of Easter plants, are far from being a success this year in many places, although not quite so disappointing in their behavior, generally speaking, as last season. As compared with recent years the bulbs when received in the Fall seemed fully as good, or to be probably more correct, they showed no signs of being worse. Nevertheless much more trouble has been experienced this season in any attempts at hard forcing, resorted to by many growers as the only means to bring them out in time for Easter. It is probable that unfavorable weather conditions had to do with retarding satisfactory developments so far, and it is safe to assert that this factor, so entirely beyond our control, must still in great part be held responsible for what might or might not be possible to accomplish in the two weeks yet remaining.

Lilies to be right for Easter should now show well advanced buds, some of these fully developed and beginning to turn from green to white. A short week of continued forcing in from 60 to 65 degrees of heat will bring these to a point when a gradual cooling off will become the last and very proper step to take. Any lilies more backward but showing rapidly swelling buds and lengthening stem, will need a stand in a higher temperature and much attention as to regular sprinkling to bring them in line with the rest of the Easter stock.

Lilies already showing opening flowers on a white buds are ready to go to a cool, shady place, where they will carry through to perfect condition under the Easter trade begins, by which time nearly every bud will be fully open. At no time should lilies be allowed to become dry at their roots. The anthers of opening flowers must be removed before they shed the pollen over the petals.

MISS KATE MOULTON

What Richmond Is in Red
Kate Is in Pink

YOU WILL NOT MAKE ANY MISTAKE IN PLANTING
A LARGE STOCK OF THIS BEAUTIFUL ROSE

Rooted Cuttings All Sold Out

Plants in 2½ inch pots for late March delivery will be ready.
Order direct from Headquarters. Write for Prices

MINNEAPOLIS FLORAL CO., MINNEAPOLIS, Minn.

In speaking of lilies it is well to remind growers that now it is time to start *Lilium speciosum* for a Summer crop. Bulbs carried over from last November in cold storage are planted in pots a size or two larger than those used for *Harrisii* or Japan lilies, a pretty stiff, but well enriched soil being the best to use. A place in some cool greenhouse at first and later on a cold frame will bring about a good even start.

Asters.

The aster grower's busy season has begun. Several successive sowings of the best strains obtainable should be made from now until the middle of May and even later if a crop of flowers for the latter part of October is desired. Not always does it pay to provide for so late a picking, while a very early crop invariably has proved quite profitable in late years. But to secure a crop of good aster blooms a week or two ahead of the regular flowering season is difficult, almost impossible to do by any manner of proceeding, while it is easy enough to have asters two or even three weeks later than the main crops, by starting the seeds of late varieties four or five weeks after everybody else has made his last sowing and most of the aster fields are already stocked with good-sized plants. Starting aster seeds very early and rearing the plants in fire heat is a waste of time, room and labor. Nothing whatever is gained thereby, and the stock so raised carries with it to the field the beginning of any amount of well assorted troubles to the grower.

In order to cover the entire aster season reliance must be placed on the various types, on the early, mid-season and late sorts, the time of sowing counting for little or nothing in the hastening or prolonging of the cut. Extreme earliness in any variety of asters ordinarily is desirable but usually means inferiority of bloom as compared with that of later sorts, the flowers of the very latest varieties being always the finest.

A good place for the raising of asters is a very mild hotbed, and cold frames for the later sowings. The seedlings should be transplanted once and allowed to become of sturdy size before going into the open field.

FRED. W. TIMME.

Hardy Roses for Decoration Day

HARDY H. P. ROSES

We offer exceptionally strong two-year-old dormant, low-budded stock (on Manetti), in the following varieties:
Alfred Colomb, carmine.
Anna de Diesbach, bright carmine.
Ball of Snow, pure white.
Baron de Bonstetten, dark crimson shaded.
Baroness Rothschild, satiny pink; extra.
Captain Christy, delicate flesh color.
Duke of Edinburgh, bright vermillion; very fine.
Fisher Holmes, dark rich scarlet.
Frau Karl Druschki, the finest white in existence, \$12.00 per 100.
General Washington, rich velvety crimson.
General Washington, beautiful red, shaded carmine.
John Kopper, beautiful rose pink.
La France, the finest light pink.
Margaret Dickson, white, pale flesh center.
Magna Charta, clear rose pink.
Mrs. Gabriel Luize, light, satiny pink.
Mrs. Elchler, white.
Mrs. John Laing, soft pink; most desirable variety.
Paul Neyron, beautiful dark pink.
Prince Camille de Rohan, velvety crimson.
Ulrich Brunner, cherry red.
Prices on H. P. Roses \$1.25 per 10; \$11.00 per 100; \$100.00 per 1000.

HYBRID TEA ROSES

Maman Cochet, pink. Maman Cochet, white. Unequaled as headers for Summer bloom-

ing, producing buds of large size and of ideal form. The buds are of the color and form of Bridesmaid and Bride, but larger, and outside will yield more blooms than the latter will under glass. The two finest outdoor roses yet introduced. Strong 2-year-old plants, 10 for \$1.50; \$12.00 per 100.
American Beauty, Clothilde Soupert, Kaiserin Augusta Victoria, Carolina Testout, Hermosa. Strong, 2-year-old, \$1.50 per 10; \$12.00 per 100.

THE KILLARNEY ROSE
Irish Grown From the Kaiser.
Good strong two-year-old plants, \$3.00 per 10; \$27.50 per 100.

HARDY ROSE SOLEIL D'OR
(Golden Sun.)
Like Persian Yellow, this variety is perfectly hardy, with large, full, globular flowers, varying in color from gold and orange to reddish gold, shaded with nasturtium-red. Two-year-old budded plants, per 10, \$2.00; per 100, \$15.00.

The Grand New Rose
ETOILE DE FRANCE
Superb crimson red velvet, the center of the bloom vivid cerise red. The flowers are very fragrant and last long. This new variety is the result of a cross between Madame Abel Chateau and Fisher Holmes. Field-grown, strong two-year-old plants, \$2.75 per 10; \$25.00 per 100.

ARTHUR T. BODDINGTON, 342 WEST 14th ST., NEW YORK CITY

Mention The Florists' Exchange when writing.

ROSES and CARNATIONS READY NOW

2 in. pot Bridesmaid, Golden Gate.....	100	1000	ROOTED CUTTINGS. Eachan-	100	1000
Ivory, Kaiserin, Bride.....	\$3.00	\$25.00	tree, Mrs. Patten.....	2.50	20.00
Rooted cuttings of same roses.....	1.50		Estelle, Lawson, White Bradt,		
CARNATIONS. Strong, 2 in. pots.			Red Bradt, Lord, Boston Mar-		
Lawson, Lord, Nelson Fisher,			ket, Crane, Flora Hill, Queen		
Eachan-tree.....	3.00		Louise.....	2.00	15.00
Flora Hill, Boston Market.....	2.50		Joost.....	1.50	12.00

THE FLORISTS' EXCHANGE,
Franklin & St. Paul Sts. BALTIMORE, Md.

Mention the Florists' Exchange when writing.

GRAFTED ROSES

On Best English Manetti Stock

2½ inch pots; A No. 1 Stock
KAISERIN, KILLARNEY, RICH-
MOND, \$10.00 per 100.
BOSTON FERNS, pot grown,
strong plants, 5 in., 25c.; 6 in., 35c.
SCOTTII, 5 in., 25c.; 6 in., 35c.;
7 in., 45c.
ELEGANTISSIMA, 5 in., 35c.; 6
in., 50c.

S. J. REUTER
WESTERLY, R. I.

Mention the Florists' Exchange when writing.

GRAFTED ROSES

Brides and Bridesmaids.

EDW. J. TAYLOR
Southport, Conn.

Mention The Florists' Exchange when writing.

Beautiful New Pink Rose

"Aurora"

See announcement and full description in
Florists' Exchange, Dec. 8 issue.
PAUL NIEHOFF, Lehighton, Pa.

Mention The Florists' Exchange when writing.

HOW TO GROW MUSHROOMS

Price, . . . 10 cents.

A. T. De La Mare Ptg. & Pub. Co.

2-8 Duane St. New York.
Mention the Florists' Exchange when writing.

DREER'S SPECIALS

— IN —

HARDY PERENNIALS

Largest assortment of desirable varieties, plants of proper size to give the best immediate results. For our complete list of varieties see our current Wholesale list

	Per doz.	Per 100
ACHILLEA, The Pearl, 3-in. pots.....	\$0 75	\$5 00
Millefolium Roseum, 3 in. pots.....	85	6 00
ACONITUM in variety. Strong roots....	1 25	8 00
ANTHERICUM Lilliago and Lillastrum	75	5 00
ALYSSUM Saxatile Compactum, 3 in. pots	75	6 00
ANEMONE Japonica, 3-in. pots.....	85	6 00
Alba, 3-in. pots.....	85	6 00
Elegantissima, 3-in. pots.....	85	6 00
Lady Ardilaun, 3-in. pots.....	85	6 00
Queen Charlotte, 3-in. pots.....	85	6 00
Rosea Superba, 3-in. pots.....	85	6 00
AQUILEGIAS in variety, 3-in. pots....	85	6 00
ARABIS Alpina, 3-in. pots.....	75	6 00
Flore Plena, 3-in. pots.....	85	6 00
ARMERIA Maritima Splendens, 3-in. pots	85	6 00
Alba, 3-in. pots.....	85	6 00
ARTEMISIA in variety, 3-in. pots.....	85	6 00
HARDY Asters (Michaelmas Daisies). Strong plants	1 00	7 00
BOCCONIA Cordata. Strong roots....	85	6 00
BOLTONIA Asteroides, 4-in. pots.....	85	6 00
Latisquama, 4-in. pots.....	85	6 00
CALLIBHOE Involucrata, 3-in. pots....	1 00	7 00
CAMPANULA Carpatica. Blue and white. 4-in. pots.....	85	6 00
Media. Double and Single. 4-in. pots.....	85	6 00
Calycanthemum. 4-in. pots.....	85	6 00
Persicifolia Moerheimi. 3-in. pots.....	1 25	10 00
Pryamidalis, 3-in. pots.....	85	6 00
CARYOPTERIS Mastacanthus, 3-in. pots	85	6 00
CASSIA Marilandica. Strong roots....	85	6 00
CERASTIUM Tomentosum, 3-in. pots....	85	6 00
CHELONE in variety. Strong plants....	1 25	8 00
CHRYSANTHEMUM Maximum Tri-umph, 4-in. pots.....	85	6 00
Shasta Daisy, 3-in. pots.....	75	5 00
Hardy Pompones, 25 varieties, 2 1/2-in. pots	60	4 00
CLEMATIS Davidiana. Strong 2-yr.-old..	85	6 00
Becta. Strong 2-yr.-old.....	1 50	12 00
Integrifolia. Strong 2-yr.-old.....	1 25	8 00
COREOPSIS Lanceolata Grandiflora, 4-in. pots	75	5 00
DELPHINIUM Belladonna, 3-in. pots..	2 00	15 00
Chinese, 1-yr. field grown.....	75	5 00
Alba, 1-yr. field grown.....	75	5 00
Formosum, 1-yr. field grown.....	85	6 00
Mixed Hybrids, 1-yr. field grown.....	85	6 00
DICTAMNUS Fraxinella and Alba. Strong plants	1 25	8 00
DIELYTRA Spectabilis. Strong clumps..	85	6 00
Formosa, 4-in. pots.....	1 00	7 00
DIGITALIS Gloxiniflora, 4-in. pots.....	85	6 00
DORONICUM in variety, 3-in. pots.....	1 25	8 00
EPIMEDIUM in variety. Strong plants..	1 60	10 00
ERYNGIUM Amethystinum, 4-in. pots..	1 50	10 00
ERIGERON in variety, 3-in. pots.....	1 00	7 00
EUPATORIUM Ageratoides. Strong plants	85	6 00
Celestinum, 3-in. pots.....	85	6 00
EUPHORBIA Corollata, 3-in. pots.....	75	6 00
FUNKIA Cerula. Strong roots.....	75	6 00
Subcordata Grandiflora. Strong roots	1 25	8 00
Undulata Media Picta. Strong roots	85	6 00
GAILLARDIA Grandiflora. Strong, 4-in. pots	85	6 00
GERANIUM Sanguineum, 4-in. pots.....	85	6 00
Album, 4-in. pots.....	85	6 00
GEUM in variety, 3-in. pots.....	1 00	7 00
GLECHOMA Variegata. Strong plants..	85	6 00
GYPHOPHILLA Paniculata. Strong roots	85	6 00
Fl. Pl. Strong roots.....	3 00	.....
HEMEROCALLIS in variety. Strong plants	85	6 00
HIBISCUS Crimson Eye, 2-yr.-old.....	85	6 00
Moscheutos, 2-yr.-old.....	85	6 00

	Per doz.	Per 100
HELENIUM Autumnale Superba, 4-in. pots	1 00	7 00
Grandcephalum Striatum, 3-in. pots	85	6 00
Hoopesi, 4-in. pots.....	1 00	7 00
Pumilum Magnificum, 4-in. pots.....	1 00	7 00
Riverton Gem, 3-in. pots (New).....	3 00	.....
HELIANTHUS in variety. Strong plants	85	6 00
HELIOPSIS Fitcherianus, 4-in. pots....	85	6 00
Semi Plena, 3-in. pots.....	85	6 00
Scaber Major, 4-in. pots.....	1 00	7 00
Hollyhocks—Dreer's Superb Double. White, yellow, pink, salmon, maroon, red, 1-yr.-old clumps	1 50	10 00



DELPHINIUM BELLADONNA

	Per doz.	Per 100
HOLLYHOCKS, Dreer's Double in mixture, 1-yr.-old roots	1 25	8 00
Fringed Allegheny, in mixture, 1-yr.-old roots	1 25	8 00
Singis Mixed, 1-yr.-old roots.....	1 25	8 00
HYPERICUM Moserianum, Strong plants	1 25	8 00
IBERIS Sempervirens, 3-in. pots.....	85	6 00
Flore Plena, 3-in. pots.....	1 00	7 00
IRIS Kämpferii (Japan Iris). 20 choice-named varieties	1 50	10 00
In choice mixtures.....	1 00	7 00
Germanica, 12 choice-named varieties. In choice mixture	85	6 00
LYNCHNIS Chalcedonica, Alba and Carneae, 3-in. pots.....	85	6 00
Flore Plena, 3-in. pots.....	2 00	15 00
Haageana, 3-in. pots.....	85	6 00
Semperforens Plenissima, 3-in. pots	1 25	8 00
Vespertina Alba Plena, 4-in. pots.....	1 50	12 00
Viscaria Splendens, 4-in. pots.....	1 25	8 00

	Per doz.	Per 100
LYTHRUM Roseum Superbum, 4-in. pots	85	6 00
MONARDA Didyma in variety, 4-in. pots	85	6 00
OENOTHERA in variety, 3-in. pots....	85	6 00
PAPAVER Orientale. Named varieties, 4-in. pots.....	1 50	10 00
Choice mixture, 4-in. pots.....	85	6 00
Nudicaule (Iceland Poppy). Choice mixed, 3-in. pots.....	85	6 00
PAEONIES, Choice Double Herbaceous..	1 50	12 00
PENTSTEMONS in variety. Strong plants	1 00	7 00
PHYSOSTEGIA Virginica and Alba....	85	6 00
PINKS, Hardy Garden in variety, 4-in. pots	85	6 00
PLATYCODON Blue and White, 2-yr.-old roots	85	6 00
PLUMBAGO Larpentae. Strong 3-in. pots	1 00	7 00
POTENTILLAS in variety. Strong plants	1 00	7 00
PHLOEX. These are one of our leading specialties. Send for special list of new, popular and standard varieties, strong plants	75	5 00
PHLOX Subulata Rosea, Alba, Nelsoni, The Bride, Lilacina and Atropurpurea. Strong clumps	75	5 00
PRIMULA Cortusoides Sieboldi. 6 distinct varieties	1 50	10 00
Veris (English Cowslip). Choice mixture	75	5 00
Superba, Giant yellow.....	1 00	7 00
PRYETHRUM Hybridum. Choice seedlings, 4-in. pots.....	1 25	8 00
Uliginosum. Clumps.....	85	6 00
RANUNCULUS Acris Flore Plena. Strong plants	85	6 00
RUDBECKIA Golden Glow. Strong plants	85	6 00
Newmanni, 3-in. pots.....	1 00	7 00
Purpurea, 3-in. pots.....	1 00	7 00
Sub-Tomentosa, 4-in. pots.....	1 00	7 00
Triloba, 4-in. pots.....	1 00	7 00
SALVIA Azurea Grandiflora, 4-in. pots..	1 00	7 00
SAFFRAGA (Megasea) in variety. Strong plants	2 00	15 00
SCABIOSA Caucasica, 3-in. pots.....	1 25	8 00
SEDUM Spectabilis. Strong clumps....	1 00	7 00
Atropurpurea. Strong clumps.....	1 50	10 00
In variety. Strong clumps.....	85	6 00
SENECIO Pulcher, 3-in. pots.....	1 00	7 00
SOLIDAGO in variety.....	85	6 00
SPIRAEA Aruncus, clumps.....	1 00	7 00
Chinese, clumps.....	1 25	8 00
Filipendula Flore Plena, clumps....	85	6 00
Gigantea, clumps.....	1 50	10 00
Palmata, clumps.....	1 00	7 00
Eligans, clumps.....	1 00	7 00
Ulmaria Flore Plena, clumps.....	85	6 00
Venusta, 4-in. pots.....	85	6 00
STATICE in variety, 4-in. pots.....	85	6 00
STOEBESIA Cyanea. Strong, 4-in. pots...	75	5 00
THALICTRUMS in variety. Strong plants	1 00	7 00
TROLLIUS Aurantiacus, 4-in. pots.....	2 00	15 00
Europaeus, 4-in. pots.....	1 00	7 00
Japonicus Excelsior, 4-in. pots.....	2 00	15 00
Orange Globe, 4-in. pots.....	2 00	15 00
Fortunei Flore Plena, 4-in. pots.....	3 50	26 00
Giganteus, 4-in. pots.....	2 50	20 00
TRITOMA Coralina, strong divisions...	1 50	10 00
Obslaque, strong divisions.....	1 50	10 00
Rufus, strong divisions.....	2 00	15 00
Tricolor, strong divisions.....	2 00	15 00
Uvaria Grandiflora, strong divisions..	1 00	6 00
VALERIANA Coccinea and Alba. Strong roots	1 26	8 00
Officinalis, 4-in. pots.....	1 25	8 00
VERONICA Longifolia Subsessilis. Strong plants	1 25	8 00
Spicata, Blue and White, 4-in. pots...	1 00	7 00
VIOLA Cornuta (Tufted Pansies), 4 colors	60	3 00

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

The above prices are only for the trade and not for the retail buyer

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Table listing various florists and their addresses, including Akers H R, Alexander J K, Allen J K, etc.

Table listing florists and their addresses, including Stakes Seed Store, Stothoff Co The, Stora, etc.

Table listing florists and their addresses, including Vincent R Jr & Son, Weathered Co, Weber U S & Co, etc.

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FOR SALE—Cheap, greenhouses on grand leased for as long a term as you like, 5,000 sq. ft. glass. Address, A. Akers & Company, Johnstown, Pa.

FOR SALE—Two greenhouses, 150 x 18, planted with roses. Good condition; heated by steam; price \$2,000. If sold at once, inquire, E. J. Fenton, Madison, N. J.

FOR SALE—Greenhouse property, 5,000 sq. ft. glass, 7 acres of land. Dwelling house and barn. All stocked. One mile from station; ninety miles from New York. Price reasonable. Address, R. D., care The Florists' Exchange.

FOR SALE—Chicago range, new greenhouses, 70,000 ft. glass, complete, full running condition. Now in fine crops. Don't answer unless prepared to deal. Good dwelling and out buildings. Address, A. Reeves, 420 Aspland Block, Chicago, Ill.

TO LET Retail Florist Store situated at 98 Broad Street, Newark, N. J. with three greenhouses attached, good show room facilities. Address THOS. ELSUM 243 Belleville Av. Newark, N. J. Mention the Florists' Exchange when writing.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, with the Standard Duplex Gotter, which is fast coming into use by the growers. This season many thousands feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; one better; and is doing a large business all through the season. Address, E. Hippard, Youngstown, O.

FOR SALE—Boilers, No. 16 Hitches, \$50.00; 11 Sectional and Porcupine. Cheap. C. D. Zimmerman, 131 Norwood avenue, Buffalo, N. Y.

FOR SALE—Greenhouse material and hot bed sash, milled from Gulf Cypress to any detail furnished. Order put specially made for greenhouse and hotbed sash. V. E. Releh, 1429 Metropolitan Avenue, Brooklyn, N. Y.

SEVERAL good second-hand boilers, standard make on hand; thoroughly tested, complete in every detail. William H. Luton, West Side Avenue Station, C. R. R. of N. J., Jersey City, N. J.

FOR SALE—Two good 5 ft. horizontal boilers. Were used short time in cotton mills, been replaced with battery of larger boilers. Were running at 90 pounds. Officially inspected in September. Price including freight and fixtures complete, \$350. For both; \$200. For one. G. D. Ramsburg, Somersworth, N. H.

FOR SALE—No. 8 Weathered, round, \$30.00. One 3 section Sunray hot water sectional boiler, grade 3 by 3. Price \$150.00. New Henderson boilers; send for price on size wanted. One No. 387 Lord & Burnham hot water boiler, 7 sections, 32 in. grate, heat 8,000 sq. ft. of glass, used one season, price \$150.00, guaranteed.

PIPE Good serviceable second hand. No Junk, with new threads. 2 in. 7c, 1 1/2 in. 65c; 1 1/4 in. 60c; 1 1/2 in. 30c; 3/4 in. 10c; 3 in. 14c; 4 in. 18c. 4 in. cast iron greenhouse 14c. 2 in. NEW, standard, full lengths, 10c. All kinds of fittings for C. in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy work-ing. No. 2 cuts 1 1/2 in. 14c. No. 1 cuts 1 1/2 in. \$3.00; No. 2 cuts 1 1/2 in. \$4.00; Armstrong Adjustable No. 2 cuts 1 1/2 in. \$4.00; No. 3 cuts 1 1/2 in. \$3.00.

PIPE CUTTERS Sanders, No. 1 cuts to 1 1/2 in. \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed, 12 in. 1 in. grips \$1.50; 24 in. grips 2 1/2 in. \$2.25; 36 in. grips 3 1/2 in. \$4.50.

PIPE VISES Read's Best Hinged Vice, No. 1 50 ft. lengths \$4 in. guaranteed; 80c; for heavy work, guaranteed; 124c.

GARDEN HOSE New; Gulf Cypress, 3 ft. x 6 ft. 80c; glazed complete \$1.00 and \$1.25, good condition.

HOT-BED SASH New; Gulf Cypress, 3 ft. x 6 ft. 80c; glazed complete \$1.00 and \$1.25, good condition.

GLASS New American, 50 ft. to the box. No. 12 singles \$1.00. 10x12, 12x12, 12x15 B double \$2.50. 12x15 to 12x20 and 14x14 to 14x20 double \$2.50. 16x18 and 18x18 B double \$3.00. 10x20 to 18x24 double \$3.25 per box. 6x6, 7x9, 8x10 old, single \$1.50. 8 x 10 old, double \$1.50. 12 x 14 old, single \$1.75.

Get our prices on second hand wood material. We can furnish everything in new material to meet any size house. Get our prices.

METROPOLITAN MATERIAL CO. Greenhouse Wreckers 1388-1408 Metropolitan Avenue, BROOKLYN, N.Y. Mention the Florists' Exchange when writing.

INDEX TO STOCK ADVERTISED

Table listing various stock items and their prices, including Ageratium, Alternanthera, Adiantum, Anacardium, Asparagus, etc.

Greater Pittsburg. Pittsburg and Allegheny Consolidated.

The Supreme Court has confirmed the constitutionality of the Greater Pittsburg bill, consolidating the cities of Pittsburg and Allegheny and almost every one seemed to be overjoyed that the dream of years has at last been realized. Pittsburg is now one of the greatest cities of the world and the sixth in population in the United States, with over 550,000 population and more to come. An area of 38 square miles, of which about 1,200 acres are public parks, valued at about \$25,000,000. As a manufacturing city it ranks first in the world and as a live business place, ask any of the commercial travelers and they will tell you that if there is anything doing at all, it is in our city, particularly in the florist line.

Market Condition.

As to the florist business the past week, it seemed satisfactory, considerable funeral work helped greatly, for the weather conditions were not of the best to bring people out. Prices of stock remain about the same as the preceding week, with the exception of Liliun Harrisii, 20 cents being asked for them. Bulbous stock is too plentiful for profit. The plant trade has again been checked by a change in weather, which turned cold and still continues, with plenty of snow on the ground. The growers are very anxious to sell stock, for last Saturday the thermometer was about freezing all day, yet quite a few plants were exposed for sale in the outside market.

News of the Week. John Bader spent a few days in the East looking up Easter stock. He was accompanied by Mr. Koebel of Jeanette, Pa.

The March meeting of the Florists' Club was poorly attended. One of the worst snow storms, accompanied by thunder and lightning, was raging shortly before the meeting time and kept many away. Easter flowers and plants were discussed and exhibited by some of the private gardeners, Blind Bros., J. Bader and from the Park Conservatories. Some well grown stock was shown, the usual sorts for Easter, among the lot being Spiraea Gladstoni, from J. Bader, which was extra fine and it is no doubt the best of all the spiraea for the commercial grower. The next meeting, in April, will be rose night.

Easter lilies this year are an uncertainty and will command good prices. Most of the growers are disgusted with results, both with Harrisii and Longiflorum and some have countermanded the orders given for this year. If some of the growers realize from 10 to 20 per cent. good stock they will do well. The best lot in Pittsburg and vicinity can be seen in the Phipps conservatories in Schenley Park, and they are simply grand, both Harrisii and Longiflorum, with plenty of bloom and firm healthy foliage to the bottom, just ready for the Easter show. Mr. Jones, the foreman, stated that their loss was comparatively small, and of the largest sizes all were good, throwing ten and more blooms.

The trees along the sidewalk in Ben Avon, a suburb of the city, are doomed to death as a result of the opinion handed down by one of our judges in dismissing the preliminary injunction against the borough of Ben Avon, granted to a citizen, and restraining the borough officers from cutting down the shade trees on various properties. The officers contended, and demonstrated to the court's satisfaction that the roots of the trees are ruining the sewer system. The ruling of the judge was that while the trees are ornamental and useful, they are a menace to the health of the general public in destroying the borough sewers.

The news of the death of Herman C. Baartman, of Holland, by drowning was quite a shock to many of us, who knew him well and respected him. Among the visitors the past week were several Holland bulb men, D. Eschner of Rice & Company, Philadelphia, and W. A. Mockler of Hummel & Downing Company of Milwaukee, folding box manufacturers. E. C. REINEMAN.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. KROESCHEL BROS. CO., 33 Erie St. Chicago.

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**PRIZE-WINNING
ROSES AND CARNATIONS**

ROSES
The New Rose "Morton Grove," winner of the Silver Cup at Chicago Flower Show, 1906, for best new rose, will be disseminated in 1908.

	R. C. 2 1/2-in.	2 1/2-in.	3 1/2-in.
	Per 1000	100	Per 1000
Maids.....	\$18.00	\$4.50	\$40.00 \$55.00
Brides.....	18.00	4.50	40.00 55.00
Gates.....	18.00	4.50	40.00 55.00
Uncle John.....	18.00	4.50	40.00 55.00
Chatenay.....	18.00	4.50	40.00 55.00
Richmond.....	20.00	4.50	40.00 55.00
Perle.....	20.00	5.00	45.00 60.00
Sunrise.....	20.00	5.00	45.00 60.00
Rosaire Orr English.....	20.00	5.00	45.00 60.00
Kaiserin Augusta Victoria.....	4.50	40.00	55.00

American Beauties, rooted cuttings, March, April and May delivery \$3.50 per 100, \$30.00 per 1000; 2 in. pots, April, May and June delivery, \$7.00 per 100, \$60.00 per 1000.

CARNATIONS

	Rooted Cuttings	2 1/2-in.
	per 100	per 1000 per 100
White Perfection.....	\$6.00	\$55.00 \$7.50
Rose Pink Enchantress.....	3.00	25.00 7.50
White Lawson.....	3.00	25.00 4.00
L. Peary.....	3.00	25.00
Gov. Wolcott.....	2.50	20.00 3.50
Pink Lawson.....	2.00	17.50 3.00
Enchantress.....	3.00	25.00 4.00
Victory.....	3.00	50.00 7.00
Cardinal.....	3.00	25.00 5.00
Red Lawson.....	4.00	35.00 5.00
Prosperity.....	2.50	12.50 3.50
Patten.....	2.00	
Variegated Lawson.....	4.00	35.00 5.00
Glendale.....	5.00	6.00
Craig.....	5.00	40.00 6.00

Ready for shipment, from 2 1/2 in. pots, Pink Lawson, Red Lawson, White Lawson, Variegated Lawson, Glendale, Gov. Wolcott, Cardinal, Rose Pink Enchantress and Robt. Craig.
Special price on fine, healthy, well rooted, stock of Prosperity, per 1000, \$12.50.

**CHRYSANTHEMUM CUTTINGS
BEST COMMERCIAL VARIETIES ONLY
GET OUR PRICE LIST
FROM HEALTHY STOCK
POEHLMANN BROS. COMPANY, MORTON GROVE, ILL.**

GRAFTED ROSES Our roses are the finest and best grown. Liberty, Richmond, La France, Killarney, rose pots, \$15.00 per 100. 3 1/2 inch pots, \$18.00 per 100. Bride, Bridesmaid, Golden Gate, Kaiserin, rose pots, \$10.00 per 100. 3 1/2 inch pots, \$15.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

NEW ROSE SPORT OF CHATENAY

As free as CHATENAY, color of BON SILENE; \$25.00 per 100, 2 1/2 in. pots.

EMIL GLAUBER, - - Montclair, Colo.

Mention the Florists' Exchange when writing.

GERANIUMS	Per 100	CANNAS	Per 100
0 varieties, 2 and 2 1/2 in. pots, my selection.....	\$3.00	10 varieties, 1 and 3 eyes, my selection.....	2.00
0 varieties, 3 1/2 in. pots, my selection.....	4.00	COLEUS	2.00
Alternantheras, red and yellow.....	2.00	Double Petunias, mixed.....	3.00
Pansy Plants, April 1.....	1.50	Vinca, variegated, 2 in. pots.....	3.00
Pansy Seed, Giant flowering, oz., \$4.00.....		Verbenas, April 1.....	2.00

CASH

JOS. H. CUNNINGHAM, Delaware, O.

Mention the Florists' Exchange when writing.

GERANIUMS Rooted in sand, then grown in pots a month. Sent free of soil.
Dbl. Grant, Buchner, Polytine, Richard, Perkins, Vinad, Nutt, Doyle, La Croix and Mixed. \$1.00 per 100. Geraniums are ready. Colens are all sold to April 10th.
COLEUS Versch. L. G. Bedder, and brightest. Fancy mixed, strong, 60c. per 100. Giant, many kinds, finest of all Coleus, 80c. per 100.
GLADIOLI Groff's Hybrids, blooming size, 60c. per 100. SAGE. Ball of Fire, best in every way. R. C. 60c. per 100. We send plants by express only and not prepaid.
DANIEL K. HERR, Lancaster Pa.

GERANIUMS 25,000 strong, 3 in., best varieties, \$40.00 per 1000. Double Grant, \$25.00; D. Grant, large, 2 in. \$20.00 per 1000. Evergreens, 10 varieties, 1-5 feet; shade trees, 6-10 feet, all transplanted; a bargain to large buyer. 200,000 Bedding Plants for Spring delivery. Orders solicited.
WM. S. HERZOG, MORRIS PLAINS, N. J.

GERANIUMS for bedding out. Ready May 10th.
WM. J. CHINNICK, Trenton, N. J.
Mention the Florists' Exchange when writing.

AZALEAS

All colors 50c., 75c., \$1.00, and \$1.25 each. Well budded. Shipped in Pots unless otherwise ordered.
Cash only

**BINLEY THE FLORIST
Glens Falls, N. Y.**

GERANIUMS

Rooted Cuttings ready for shipment the 22nd of March.
PETER BROWN, Lancaster, Pa.
Mention the Florists' Exchange when writing.

AZALEAS FOR EASTER

Now is the time to get Azaleas. Our plants are shapely and well budded. We offer the following varieties:

Mme. Van der Cruyssen, Deutsche Perle, Mme. C. Van Langenhove, Vervaeneana, Empress of India, Bernhard Andrea Alba, Helen Thielman, and Simon Mardner.

A fair proportion only of Mme. Van der Cruyssen and white sorts supplied with each order.

Prices (f. o. b. New York). 10 to 12 inch heads, \$6.00 per doz., \$45.00 per 100; 12 to 14 inch heads, \$7.00 per doz., \$55.00 per 100; 14 to 16 inch heads, \$10.00 per doz., \$75.00 per 100.

Peter Henderson & Co., 35 & 37 CORTLANDT ST. NEW YORK

SALVIA ZURICH

THE EVERBLOOMING SALVIA

One of the most important novelties in bedding plants introduced for a long time, produces its wealth of flowers while very small and is in its full glory long before any other kind shows even a bud, grows also much dwarfer and more compact. Our stock is raised from cuttings and seed, which was procured in Zurich, Switzerland.

Strong plants from 2 1/2-in. pots, 75c. per doz., \$5.00 per 100, \$45.00 per 1000. For full description send for circular or see American Florists' Carnation Number, page 19, Florists' Exchange, page 183, and Horticulture, pages 140 and 202.

PERENNIAL GARDENS CO., Toledo, O.

Mention the Florists' Exchange when writing.

COLEUS

VERSCHAFFELTII, GOLDEN QUEEN, FIRE BRAND, LORD PALMERSTON, QUEEN VICTORIA, BECKWITH'S GEM

Prices of Rooted Cuttings by Express, 60 cents per 100; \$5.00 per 1,000.
GOLDEN BEDDER. Golden Yellow—the old original, true to name. Rooted cuttings, 75c. per 100; \$6 per 1,000.

FANCY VARIETIES. In addition to those named we offer a fine stock of twelve kinds, 75c. per 100; \$6 per 1,000. Strong cuttings. Free from Mealy bugs.

ACERATUM
STELLA GURNEY, Dwarf Blue, 75c. per 100; \$6 per 1,000.
PRINCESS PAULINE, a combine of blue and white in same flower, 75 cents per 100; \$6 per 1,000.

SALVIA
SPLENDENS, tall standard, one of the best, rooted cuttings, 75c. per 100; \$6 per 1,000.

BONFIRE, medium dwarf; very good, rooted cuttings, 75c. per 100; \$6 per 1,000.

HELIOTROPE
ROOTED CUTTINGS, 75c. per 100; \$6 per 1,000.

A. N. Pierson, Cromwell, Conn.
Mention the Florists' Exchange when writing.

Easter Plants

Cinerarias Hybrida Grandiflora. Extra fine in bud and bl om from 5 in. pots \$2.50 per doz., \$20.00 per 100; from 4 in. pots in bud \$10.00 per 100; from 2 1/2 in. pots \$2.50 per 100.

Primula Obconica Grandiflora. The celebrated Ron-dorfer and Lattmans Hybrids in bud and bloom from 5 in. pot \$2.50 per doz., \$20.00 per 100.

Primula Chinesis. Chinese Primroses, in bud and bloom from 4 in. pots \$1.50 per doz., \$10.00 per 100.

Cyclamen Splendens Gigantum Hybrids. This strain has no equal or better, in five colors including the fringed varieties twice transplanted from flats \$3.00 per 100, \$25.00 per 1000.

Asparagus Plumosus Nanus. From 2 1/2 in. pots \$2.50 from 3 in. \$4.00; from 3 1/2 in. pots \$3.00 per 100.

Cannas. Pres. McKinley, Queen Charlotte, Chicago, Papa, Florence Vaughan, Alphonse Bauer, J. D. Cabos, started from sandbed \$3.00 per 100; \$25.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

Mention The Florists' Exchange when writing.

**Now is the Time to Order
EASTER PLANTS**

AZALEAS, just right, 50c. to \$5.00 each. **RHODODENDRONS,** \$1.50 to \$4.00 each. **SPIRAEAE,** 35c., 50c., 75c. each. **DEUTZIAS,** 50c. each. **GENISTAS,** 15c. to \$2.00 each. **BABY BAMBLES,** 50c. to \$1.00 each. **HEBROMA ROSES,** 35c. and 50c. each. **TULIPS' CUT,** \$4.00 per 100; in pots and pans, \$5.00 per 100. **NARCISSUS, VON SION and GOLDEN SPUR,** \$3.00 per 100; in pots and pans, \$4.00 per 100. **LILY OF THE VALLEY,** cut, \$3.00 per 100; in pots and pans, \$4.00 per 100. **DUTCH HYACINTHS,** \$10.00 per 100. **PALMS and FERNS** in fine condition.

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

Gardenias,

In 2 1/2 in. pots, ready for 4 in., \$10.00 per 100. **Boston Ferns,** 5, 5 1/2 and 6 in. pots, 30c., 40c. and 45c.; plants large enough for 6 in. and 7 in. pots.
Scottii Ferns, 5 and 5 1/2 in. large enough for 6 and 7 in. pots, 30c. and 40c. **Boston and Scottii,** 8 in., \$1.00 each.
Small Ferns for fern dishes, \$2.50 per 100. **Rooted Cuttings Lawson and Queen Louise carnations,** from healthy stock, \$2.00 per 100; \$15.00 per 1000. Cash with order or satisfactory references.

BRABANDER & CORNELIS, Somerville, N. J.

Mention the Florists' Exchange when writing.

Flowering Plants

CYCLAMEN in bud and bloom, 4 in.....	\$1.00
PRIMULA OBCONICA in bud and bloom, 4 in.....	1.50
5 in.....	1.00
3 in.....	.50
CINERARIAS 5 in.....	1.50
6 in.....	2.00

J. S. BLOOM, Riegelsville, Pa.
Mention the Florists' Exchange when writing.

ELEGANTISSIMA FERN RUNNERS

Very fine stock, \$1.50 per 100; \$12.00 per 1000. SALVIA, Bonfire, Splendens, 2 in., 2c.

ROOTED CUTTINGS, prepared per 100.

Parla Daisy, white, \$1.00; Alexandria, \$1.25. Fuchala, 5 kinds, \$1.25. Agrotum, white, Ournay, Paulino, 60c. Viola Variogata, 90c. Salvia Bonfire, Silverpot, Splendens, 90c. Alternanthera, 3 kinds, 50c. Heliotrope, 3 kinds, \$1.00. Rex Begonias, 20 kinds mixed, \$1.25. Flowering Begonias, 8 kinds, \$1.25. Parlor Ivy, 75c.; Double Potunias, 10 kinds, \$1.00. 'Mama: Trantor, Alliance, Weeks, Enguebard, Pacific, Appleton, P. Rose, Silver Wedding, and Goldeo Age, \$1.25.

FEVERFEW, dwarf double, nice young plants \$1.00 per 100.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa. Mention the Florists' Exchange when writing.

WHITMANI FERN

Large stock of strong plants, 2 1/2 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN

8 inch pots.....\$ 8.00

SCOTTII

2 1/2 inch pots.....\$ 5.00 4 inch pots..... 12.00

KENTIA FORSTERIANA

4 inch pots, made up, strong and bushy,.....\$25.00 5 inch pots, made up, strong and bushy,..... 50.00 No order for less than 10 plants accepted.

CHAS. H. CAMPBELL,

3601 GERMANTOWN AVE., PHILA., PA. Mention The Florists' Exchange when writing.

Ferns a Specialty

BOSTON, 6 in. pots, 50c.; 7 in., \$1.00; 8 in., \$1.25; 9 in. pans, \$1.50 and \$2.00 each. From the bench, ready for 4 and 5 in. pots, \$10.00 and \$15.00 per 100.

CIBOTIUM SCHIEDEI, 6 in. pots, \$1.00 each.

ASSORTED FERNS for Jardinieres, good plants, 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

FRANK N. ESKESEN, Madison, N. J. Mention the Florists' Exchange when writing.

FERNS MY SPECIALTY

Please notice the big reductions, Cibotium Schiedel, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:

3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100; 5 " " 60.00 7 " " 1.70 each. 10 " " Large specimen, \$5.00 each.

Adiantum Rhodophyllum, 4 in., \$30.00. Assorted ferns for jardinieres, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate. Fresh Fern Spores, Choice collection in 55 varieties, true to name, including all the best market sorts. 30c. per trade package; \$3.00 per doz.; \$12.00 for the whole collection. Write for list of varieties.

J. F. ANDERSON,

Successor to Anderson & Christensen, SHORT HILLS, N. J.

Mention the Florists' Exchange when writing.

Adiantum Farleyense

The Very Best Only

5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 per dozen.

JULIUS ROEHR'S COMPANY

Exotic Nurseries Rutherford, N. J. Mention the Florists' Exchange when writing.

NEPHROLEPIS

Whitmani, 2 1/2 in., \$10.00 per 100. Boston, 2 1/2 in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass. Mention the Florists' Exchange when writing.

Brazilian Canes

of

Dracæna Terminalis

The only true variety and must not be confused with West Indian Stock.

Per foot 30 cts. Per 100 feet \$25.00. Per 1000 feet \$200.00.

Arthur T. Boddington, 342 West 14th Street New York City

Mention the Florists' Exchange when writing.

Next Saturday, March 23

Our Annual Spring Number

Will be published.

Next Wednesday, March 20

Our Forms close.

In other words, if your advt. is not in our hands by March 20, you will lose the opportunity to be represented in our Spring edition —one of the famous issues of the year.

As this Spring edition comes into the hands of the readers just one week before Easter Saturday, it will be a particularly timely issue for the wholesale flower merchant, as well as for the plant grower.

Purchases of Easter stock, as well as of surplus stock, are largely made from this Spring Number. Buyers are now waiting to see the announcements.

If your "copy" has not been mailed, please give this matter your immediate attention. A liberal advertisement will undoubtedly prove a good investment.

Delays are Dangerous Mail your Copy NOW.

THE FLORISTS' EXCHANGE,

P. O. BOX 1697, NEW YORK.

O. K. Orchids

A large shipment of Cattleya Mendelli just arrived in splendid condition. Prices on application.

Orders taken now for Cattleya Trianae for delivery in May.

Write for prices

John De Buck, Collector of Orchids College Point, L. I., N. Y.

Mention the Florists' Exchange when writing.

Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round

JOHN SCOTT

Rutland Road & E. 45th St., BROOKLYN, N. Y. Telephone 2390 Bedford. Mention the Florists' Exchange when writing.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.

Sander, St. Albans, England

and 235 Broadway, Room 1, New York City

ORCHIDS

Arrived in fine condition, Cattleya Harrisoniae, C. Intermedia, C. Gigas, C. Trianae, Spectabilissima, C. Leopoldii, Laelia Purpurata, Oncidium Varicosum Rogerell, O. Marshallianum; Phalaenopsis Amabilis and P. Schilleriana. Write for prices.

LAGER & HURRELL, Summit, N. J. Growers and Importers

ROBERT CRAIG & CO ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts., PHILADELPHIA, PA. Mention the Florists' Exchange when writing.

Kalamazoo, Mich.

News Notes.

Little change in business conditions is noted since Lent began and the trade generally seem satisfied with amount of business done. Funeral work has for several weeks been very brisk and the deaths of several prominent people called for an extra large amount of flowers last week.

Out of town trade is also good and inquiries as to Easter supplies quite frequent.

The prospect for good trade at that time is said to be very promising and while it is possible some lines may be scarce a large supply of pot plants and bulb stock will certainly be available and will greatly assist any shortage in roses or carnations, which are probably the only articles that will be scarce.

An epidemic of grip has prevailed here this last month or two, very few escaping, including even the florists and their employees. Now, however, nearer normal conditions are prevailing, so the boys are amusing themselves and interesting their customers by cutting the prices on carnations, the latest effort being three dozen for 50c. Prices like this at the present time and especially after such a spell of dull weather preclude the possibility of profit and makes it difficult to get the price back again to where it belongs. This season, on the whole, has been none too kind to the average grower.

It appears that the florists' business is again attractive to other professions, as I hear of a movement being projected by several well-known business men, with the view of establishing another stock company to grow and handle plants and flowers, etc. Whether it will materialize or not, time will prove; certainly, however, Kalamazoo is well supplied at present. S. B.

KENTIA BELMOREANA

5 in., clean and bushy, 50c. and 75c. each. 24 in., for center of fern dishes, 10c. each; \$9.00 per 100.

SCOTTII FERNS, 6 in., 40c. DRACÆNA INDIVISA, 6 in., 35c. FERNS FOR JARDINIÈRES, etc., \$3.00 per 100

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

PALMS AND FERNS

Write for Price List.

The Geo. Wittbold Co. 1657 BUCKINGHAM PLACE CHICAGO

Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus

Strong stock, 3-in. pots, \$6.00 per 100.

Careful packing, liberal count.

WEATHERED BOILER, for sale cheap.

R. C. HANFORD, Norwalk, Conn. Mention the Florists' Exchange when writing.

FOR EASTER 1907

Crimson Ramblers, bushes, \$2.00, \$2.50, \$3.00; baskets, \$2.50 to \$10.00; 2 large baskets at \$12.00; chairs, \$8.00, \$10.00 and \$12.00 each; crowns, \$5.00 to \$15.00. Lady Gay Rambler, \$3.00 to \$5.00 each. Baby Ramblers, \$0.00 and \$0.00 per doz.; Rambler ship, \$18.00; 2 crosses at \$10.00; 1 umbrella, \$10.00; 2 pyramids, \$10.00; 1 automobile, \$25.00; 1 bicycle, \$15.00; chairs, \$8.00 to \$12.00 each. Hydrangeas, \$1.50 to \$3.00 each. Pyramid Azaleas, \$5.00, \$6.00 to \$15.00 each.

ANTON SCHULTHEIS, 18th Street and 4th Ave., College Point, N. Y. Mention the Florists' Exchange when writing.

ASPARAGUS

Plumosus - Robustus - Sprengeri

Three inch stock ready for four inch at \$6.00 per 100. Samples ten cents.

ALBERT M. HERR, Lancaster, Pa.

Mention the Florists' Exchange when writing.

A RECORD TO BE PROUD OF

The Florists' Hall Association has paid 1,040 losses amounting to \$102,000.00

For particulars address

JOHN C. ESLER, Saddle River N. J. Mention the Florists' Exchange when writing.

FOUNDED IN 1884



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

Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published EVERY SATURDAY by

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For an Exclusive Active Membership.

A Rochester (N. Y.) periodical designating itself as the "chief international journal of the nursery trade," is advocating in its columns changes in the operations of the American Association of Nurserymen whereby "only nurserymen should be accorded the privilege of conducting the affairs" of that organization. It is pointed out that as originally formed, in 1876, the title was "The American Association of Nurserymen, Florists and Seedsmen." Since that time the florists and the seedsmen have formed their own societies; and although in 1887, the name of the original organization was changed to the American Association of Nurserymen, it seems the original constitution was altered only as to the name, for to-day it reads: "This association shall be known as the American Association of Nurserymen, and shall embrace nurserymen, seedsmen, florists, horticultural implement makers, and dealers in supplies."

Now, however, our esteemed Rochester contemporary desires to draw the line for active membership, with full privileges, including the right to vote on all questions before the organization, at "those who are actually engaged in the nursery business." Those who are engaged in "allied trades," such as florists, seedsmen, etc., our contemporary would consider only eligible to associate membership, who "shall have the privileges of the association with the exception of voting."

We are informed by our esteemed contemporary that "there are many reasons why the active membership of the organization should be restricted to nurserymen. In the early years of the society's existence, the desire to acquire strength rapidly, led to the opening of the door to those who in any way had dealings with nurserymen from the point of view of allied trades. But the nursery trade of itself has expanded to such a degree, and the field from which strictly nurserymen can be drawn for members has become so large that the trade is entitled to a national association which shall directly and exclusively represent its interests." That is one reason, and, we think, one not showing much gratitude, surely, to those "allied traders" who took advantage of the open door to help the infant organization to "acquire strength, rapidly."

"But what direct interest has the manufacturer of spraying machines or the printer or lithographer or the label or box-strap maker in questions of legislation relating to the inspection of nursery stock or negotiations with railroad companies regarding the shipment of trees?" queries our contemporary. We don't believe they either have or take any "direct" interest in such weighty matters, although their interest in a general way, in everything calculated to benefit the trade from the operations of which a part of their income at least is obtained, is surely not one of complete indifference.

These appear to be the only two of the "many reasons" cited by our contemporary in support of its proposition. Several letters are published, the

writers of the majority of which favor exclusiveness. One correspondent says he does not "think there should be any objections to florists being active members of the association," which shows that his head is level.

Vice-president J. W. Hill of Des Moines, Ia., champions the cause of the "allied traders," adding, "I do not feel that we need to fear their action upon matters brought before our association; for none is of so great import as to justify the active nurserymen depriving any member of a vote upon these questions."

We ourselves are ignorant of the "black gentleman in the wood pile" on this occasion, but it seems to us the whole agitation is a "tempest in a teapot;" or probably—a bid for a bit of cheap notoriety. There are evidently some liberal-minded, sensible men among the nurserymen, members of their association, who believe that numerical strength has its value in several ways; and so far as the florists' connection with the nurserymen's association is concerned, it was only last year at Dayton, O., that ex-President E. Albertson made an appeal to all florists dealing in nursery stock to become members of the American Association of Nurserymen, and in other ways to co-operate in the carrying on of its work.

Members of allied trades have their uses—good ones, too—in organizations of the class to which the nurserymen's association belongs. For instance, a printer is chairman of the committee of the A. A. N., and his voice is often heard in its important deliberations. In our own S. A. F. O. H., yeoman service has many times been rendered by members of "allied trades." Last year, at Dayton, what more convincing arguments were put forth on the injustice of the tariff on glass, etc.; what better advice as to ways and means to secure redress tendered; than by a member of the "allied trades!" Then again, were there ever prettier flowers of speech presented on the floor of a convention, swinging a candidate—who had no opposition—into the presidential chair, than the oratorical bouquets that issued from the lips of an allied trader," of the S. A. F. O. H.!

Taking into account services rendered, value received in many ways, who but the most narrow-minded and illogical would seek to deprive of his vote, any man progressive enough to join an organization like the American Association of Nurserymen? All the most important work of almost every organization is done by committees. Let these, if you will, be composed of individuals "actually" engaged in the trade or industry represented by the association; but place no barrier in the way of smooth and amicable working, or of a satisfied allegiance, barriers which can only breed discord and, tend to disruption.

OUR READERS' VIEWS

Editor Florists' Exchange:

The communication of James Ivera Donlan in last week's issue of *The Florists' Exchange*, in protest against the degrading practice of dyeing carnations, is, to say the least, to the point and timely; and coming as it does from a man of Mr. Donlan's well known reputation for all that is correct in taste, it should carry considerable weight with it. That part of Mr. Donlan's communication wherein he, on behalf of the people in whose supposed interest or honor this degradation of nature is practiced, disclaims all responsibility, should prove to those engaged in it the mistaken nature of the compliment. They are in a very small minority those who are willing to go such lengths to sell a few extra flowers, and the minority will be still more insignificant when the true sense of Mr. Donlan's protest is understood and digested, if along with that it is brought home to the few still left encouraging it, that only those unaware of what constitutes good taste would touch a carnation or any other flower defiled in such a way for no other reason than the expectation on the part of the perpetrators of a little more gain through deluding a patriotic people.

St. Patrick, tradition tells us, cursed, or at least made things so hot for certain obnoxious creatures in Ireland that they left there permanently; and now even if the good Saint is away at rest the practice referred to should be almost sufficient to stir him up to corrective action.

D. M.

BEDFORD, MASS.—The New England Nurseries is a new organization incorporated under the laws of the State of Massachusetts, and has purchased the entire real and personal property formerly owned and operated by the Shady Hill Nursery Company of Bedford and Boston. Theodore J. Smith of the W. & T. Smith Company, Geneva Nursery, Geneva, N. Y., becomes president of the new corporation. Alfred E. Robinson, who was for fourteen years with W. & T. Smith Company, and who for the past four years has been manager for the Bay State Nurseries, North Abington, Mass., becomes its treasurer and manager. By this combination of interests in management, together with the large and valuable nursery property in Bedford, supplemented by the product of nearly seven hundred acres in the Geneva nursery, it

proposed to maintain, here in the East, one of the most complete and reliable horticultural establishments in the country.

The Hybridization of Roses.

Paper read by E. G. Hill, Richmond, Ind., before the American Rose Society at its Washington Meeting, March 13.

Your president and executive committee have suggested as a subject for my paper, "The advisability of having an ideal in mind when attempting to raise new and improved varieties of roses."

It would have been better if you had selected some one to prepare this paper who has had a broader and more extended experience bearing upon this particular line of work than myself; it is a subject full of interest, of mystery and of elusive leadings, and of which I am free to confess I have very little exact knowledge. The more I have tried to inquire into the laws governing cross-fertilization, the more surprised I have been at the very little tangible knowledge possessed by plant growers, for it would seem that after generations of attempts at crossing that we should find much more accurate information at hand, and at least a few formulae which might be followed with some certainty.

These, however, are not yet at hand, but that is no occasion for discouragement, for of one thing I am convinced, there are underlying laws which guide to certain results; and while at present we are only groping toward them in the dark, patient persistence will finally give us our working theorem which will prevent the present waste of utterly haphazard effort, and reduce it to a science and an art at least approaching the exact. Nature does finally reward the painstaking investigator, and she does reveal enough concerning her manners and methods to give incentive to those who would know her better.

I should say, by all means have an ideal in mind when attempting the production of a new variety of rose through the medium of cross-fertilization; in fact, the ideal is persistently forced upon the working florist by the very shortcomings of his every-day favorites. The amateur may please his fancy and delight himself with the odd and curious results of haphazard work, and there is much pure pleasure to be derived from it; but the florist, with all his love and reverence for the beautiful in nature, has a sterner purpose in view. The rose has descended to commercialism; the rose grower must raise it to a pinnacle of perfection where it can dominate its special line of commerce, without apology for any weakness; and it must be confessed at the present time that the usefulness and the profit of nearly every variety of commercial rose is greatly impaired by some serious drawback to its reliability. To eradicate these faults in the parent is impossible; to produce a seedling that shall retain the good points of the parent with the weakness eliminated is well worth working for. This, then, forms an ideal. Definiteness of purpose in any line of activity is essential to results; and quite as important as the ideal is the working plan which must be formulated to attain the end in view.

Some years ago I began working on red roses, hoping to secure something better than Meteor, Gruss an Hoptlitz and Marquise Litta, all fine in their way, though stubborn material in the hands of the rose forcer. My initial work was begun with these varieties, and only after a good lapse of time have results been forthcoming. The purpose in view was first to secure a vigorous constitution in the progeny; that must always be first. Seedlings showing exceptional vigor have again been bred with Liberty, Richmond, American Beauty, Queen of Edgely and several of the best H. P.'s. My aim has been, in this particular line of work, to secure a red rose that would flower freely under glass in Winter. Furthering this idea of improving the red varieties, pollen was taken from American Beauty, and over 300 crosses were successfully made last year (1906), and these latest seedlings are now nice little plants growing vigorously in their little pots. My hope in thus using American Beauty pollen is to secure, if possible, a long-stemmed, free blooming, Winter forcing variety. A previous effort in this line has given us a rose superior in color and size to American Beauty, with the additional advantage of producing flowers as freely as Richmond or Bridesmaid.

Quite a separate line of crossing has been to improve upon the size of Rosalind Orr English, while retaining its general color scheme. With this in view hundreds of crosses have been made with pollen taken from Richmond, Queen of Edgely, American Beauty and Paul Neyron during the season of 1905. The progeny from these have mostly flowered, with a result that some thirty have been retained for a second year's trial. Two out of the thirty selected are of unusual promise; one of these is American Beauty × Rosalind Orr English, and is especially notable for its stiff, long stem and large size; the other cross is Richmond × Rosalind Orr English, which is intermediate in color between its two parents, with the additional merit of possessing double the number of petals that either of its parents have. The above two instances are cited to show concentrated effort on a given line in a multiplicity of crosses. I give the above in detail to illustrate my conviction of having an ideal in mind when working

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for a given end. Perhaps some day we will find a means to the end desired by simply making one direct cross.

Pernet's Operations.

I do not know to certainty, yet I believe that M. Joseph Pernet of Lyons has followed out a similar certain line in his raising of new varieties. I judge this by the similarity in growth, foliage and the general build of the flowers in his originations. Take *Souvenir du President Carnot* and *Antoine Riviere*; note their general characteristics, and I think it is easy to detect a similarity of lineage running down through his *Madame Rivary*, *Le Progress*, *Joseph Hill*, *Mme. Jenny Guillemot*, *Mme. Philip Riviere*, *Mme. Melanie Souper* and *Baron Sinety*, and three of his very latest introductions—*Mrs. Aaron Ward*, *Mme. de Linze* and *Renee Wilmar Urban*—show the same general characteristics. It would be interesting to know if M. Pernet had been following out Mendel's theory in his breeding of roses. Not all his productions are allied to the varieties mentioned above, for his *Etoile de France*, *Marquise Litta*, *Soleil d'Or* and *Laurent Carle* are quite distinct from the type cited above.

Suggests Interbreeding and Promiscuous Breeding.

If the law of the interbreeding be correct, gathering in only pollen from closely related varieties, then the law of heredity as applied to the animal kingdom would not hold good in the vegetable family. My suggestion would be to follow both lines of work, interbreeding and promiscuous breeding, if I may thus put it, but always have in mind the design of a given improvement.

Selection of Mother Plants.

Of late my one thought has been to select the most vigorous grower for the mother plant, for without health, vigor and a good constitution the finest new rose is a failure. I am thoroughly convinced by observation and experience that the mother plant has the most to do in giving health, vitality and constitution to the offspring. This being the case we can see at a glance how important it is to select only the very strongest among the everblooming varieties to serve as the female parent. We should select the pollen from those varieties which have pronounced qualities in the way of color, stem, length of bud and fragrance. If these qualities are present in the male you may hope that they will have an influence upon your crosses.

With the increased vigor possessed by many of the later productions in tea and Hybrid tea roses, such as *Betty*, *Pharisaer*, *Killarney*, *Kate Moulton* and others of like vigor, it need not be many years before a race bred from such parents will give greatly increased vigor over present existing varieties, and with this increased strength of growth great good will come to the grower.

Value of H. P. Blood.

The infusion of hybrid perpetual blood will also have a marked tendency to increase the vigor and growth of seedling roses, and by using the everbloomers for the seed bearer, freedom of bloom will in large measure be preserved. It ought not to be many years until the present non-flowering hybrid perpetual roses are superseded by a race equally as virile, but which will give continuous bloom. If we get vigor of growth with certainty of bud, flowers on the ends of long, straight stems, that will be the type that shall give us larger and finer flowers for our Winter forcing, as well as better varieties for our gardens.

I know that you will say that predictions of this sort are easy to make, but kindly indulge me a little; let us use any means to impress upon the mind of those just taking up this work that constitution is the foundation upon which all effort must proceed.

Advancement is Steady.

A great number of skilled and practiced workmen are enthusiastically bending their best energies toward improving the rose, and we are surely making a steady advance in the right direction, under such men as *Dicksons*, the *Pauls*, the *Souper*s, *Pernet* and others in France, and *Peter Lambert* and his colleagues in Germany, together with *Cook*, *Walsh* and others in this country. We have a right to expect even better results than have yet been obtained. Even with the combined efforts put forth by the rosarians in this and other countries, progress will appear slow to the impatient workers in our ranks, trifling advance will be noted; but better types and varieties will surely gladden our eyes and hearts; for nature has been kind in the past, both in bud-variation and by cross-fertilization, and the coming years shall be no less fruitful than the past. We shall improve upon *Malmaison*, *Maréchal Niel*, *Catherine Mermet*, *Bride*, *Perle des Jardins*, *Kaiserin Augusta Victoria*, *American Beauty*, *Frau Karl Druschki*, *Liberty* and the two *Cochets*, or, at least, she will reward us with varieties more readily amenable to our twentieth century requirements, which are stringent in the extreme.

Study Scientific Theories.

By all means let us study Mendel and his theory; note the deductions of *De Vries*, and gather all the information possible from whatever source it can be had, remembering that nature's working theorems are to be

discovered only by the painstaking application of the knowledge at hand, and that no amount of speculative theory will take the place of intelligent, persistent experiment "personally conducted."

Results from Simple Direct Crossing.

Let no one thing for a moment that good results may not be obtained by the simple direct crossing of two varieties of roses, for such is quite possible without inter-breeding. *Richmond* was obtained by using pollen from *Liberty* upon *Lady Battersen*, but it was the one valuable result out of a very large number of the same cross, so that we may say there is a chance of a good return, though it is not probable from this procedure.

I have carefully avoided the use of any scientific or technical terms and have only tried to embody in this very imperfect paper my own idea and to chronicle the results of my own observations.

The Urgent Need.

Our gardens are sadly in need of roses that will grow and bloom, as do most of the present standard varieties in England, on the Pacific coast, and in many of our Southern States; but here in the North, only a pitifully small number can be depended upon. And right here is a wide field for the hybridist to enter; a good, reliable, everblooming garden rose will give pleasure and delight to millions of American citizens. It is to be hoped that many rose lovers may enter this sadly neglected field. My ideas on this line of the subject were given in a paper read before the S. A. F. O. II. at its annual meeting at St. Louis in 1905.

This line of work might have received a fine stimulus if the trustees of the Carnegie fund had been empowered to set aside certain funds to be awarded for meritorious new garden roses. The field is not inviting to one who must earn a maintenance, but if a prize or a money consideration could be offered of sufficient size it would stimulate efforts in this direction.



Philip J. Breitmeyer
Vice-President-elect American Rose Society

Philadelphia.

Godfrey Aschmann, 10th and Ontario streets, has a grand lot of Easter stock this year. His plants are in good shape and of very desirable sizes. The stock is in excellent shape for shipping purposes for those who have room to finish the plants off themselves.

He has plenty of azaleas and lilies in condition to bring into full bloom at once.

Of lilies he has 3,000 pots, averaging 3 to 10 buds to the pot, mostly in medium sizes, all good stocky plants, clean and healthy.

Crimson Rambler roses, there are about 500 plants in 6 and 7-inch pots, clean and well flowered. There are now on the place over 7,000 plants of azaleas, mostly in 6 and 7-inch pots, nice stocky plants and ready to bring into flower as needed, all with good heads. One house is devoted entirely to *Vander Cruyssen*, there being 2,000 plants of this variety in 6 to 8-inch pots, an exceptionally fine lot of plants. In another house, the center bench is occupied with 700 *Spiraea Gladstone*,

in 6 and 7-inch pots, a very even and well grown lot and sure to give satisfaction.

Mr. Aschmann's cinerarias are exceptionally good this year. He has 1,200 plants in 6 and 7-inch pots, embracing a very choice assortment of colors.

On side benches are seen 5,000 hyacinths in 4-inch pots, in all the best commercial varieties, just showing color.

In one house on side benches are 3,000 tulips, in 4-inch pots, 3 bulbs to a pot, mostly *tourneisel*. There are also 3,000 daffodils in 5 1-2-inch pots. In another house the center table is filled with hydrangeas, in 6 and 7-inch pots, having 3 to 5 heads of flowers all nice stocky plants.

In addition to Easter stock, he has some good araucarias and a very grand lot of Boston ferns, both of which are selling well just now. All around the place in every conceivable corner are thousands of moonvines, salvias, begonias and other Spring stock, also a nice block of 5-inch *Primula obconica*.

The window of *Henry F. Michell Company*, 1018 Market street, presents this week, an exceptionally beautiful appearance. The scheme carried out is a garden, showing plantings of different kinds of seeds. The usual dull window effect is relieved by some trees which are fitted up with artificial apple blossoms, while scattered around on the surface are several large Japanese dolls. The idea is one gotten up by their window decorator, *Mr. Freud*. When lighted up at night, it presents a beautiful appearance and catches the eye of the majority of those who pass by.

S. A. F. O. H. Banquet

The banquet tendered by the Florists' Club to the officers and directors of the S. A. F. and O. H. on Tuesday evening was a very successful affair. There were 55 covers. The table was arranged in a hollow square in the foyer of Horticultural Hall. The center of the square was filled with palms, azaleas and bulbous plants, kindly supplied by the *Wm. Graham Company*, as were also some fine specimen Kentias standing around the room. *Samuel S. Pennock*, president of the Florists' Club, presided, *Robert Craig* acting as toastmaster. In addition to the officers and directors of the S. A. F. the following were present from other cities: *J. C. Vaughan*, Chicago; *Peter Crowe*, Utica, N. Y.; *Thomas Johnson*, Providence, R. I.; *G. X. Amrhn*, New Haven, Conn.; *B. S. Myers*, Buffalo, N. Y.; *Edw. Flood*, Aten, N. J.; *Col. Castle*, Boston, Mass.

From the trend of the speeches it appears that President *Stewart* has laid plans to make the August convention of a somewhat higher order than previous ones, and the essays will all tend to that end. He has outlined this policy to the directors and has been given authority to appoint committees to give consideration to the various recommendations that his address in August will contain. Some of these matters embrace the school gardening problem, the education of instructors at the State experimental stations, horticultural education of the public, enlarging the scope of the work of nomenclature and registration.

With regard to the National flower show at Chicago, in 1908, *Wm. Kastig* stated that \$7,600 was already guaranteed, the schedule was prepared, and the success of the undertaking assured.

J. C. Vaughan spoke of the good work being done by the National Council of Horticulture in supplying material for the public press.

From the speech of *J. K. M. L. Farquhar*, we learned the directors had decided to recommend that the name of the S. A. F. and O. H. be changed to that of the Society of American Horticulture. This would clear the way for all kindred associations to come in and put the Society on a higher plane than any of the European societies, and would also gain for it the support of the wealthy people of this country.

The directors, in their final resolutions, laid great stress upon the grand opportunities presented in Philadelphia for the August convention; a hall for the exhibition is offered that surpasses by far anything ever yet used by the S. A. F. both as to space and convenience; the whole convention will be central and the delegates kept well together.

The after dinner program was as follows:

Our Guests, *W. J. Stewart*, President, Society of American Florists.

The August Convention, *John Westcott*.

The West and the Workers, *Phil. J. Hauswirth*, Secretary American Florists.

The Society of American Florists, *William F. Kastig*, Buffalo, N. Y.

Song, *P. Joseph Lynch*, West Grove, Pa.

Kindred Societies, *J. C. Vaughan*, Secretary, American Rose Society.

Song, *Horace T. Dumont*.

The Seed Trade, *J. K. M. L. Farquhar*, Boston, Mass.

Song, *J. F. Hogan*.

Our Friends, the Nurserymen, *E. V. Hallock*, New York.

The Horticultural Press, *Robert Kift*.

Song, *Edward J. Donner*.

DAVID RUST.

Climbing and Trailing Roses in the Hardy Rose Garden.

(Paper prepared by M. H. Walsh, Woods Hole, Mass., and read before the Convention of the American Rose Society at Washington, D. C., March 14, 1907.)

The popularity of this class of roses is increasing yearly as their valuable qualities for garden decoration become known. It was in the year 1903 when *Wichuraiana* was first introduced into the United States. Shortly after the *Crimson Rambler* was also brought to this country. *Wichuraiana* and *Crimson Rambler* are the two parent plants from the many varieties of rambling and trailing roses and these may properly be called *Wichuraiana* and *Multiflora* hybrids, a new race of hardy garden roses. Their vigor and constitution make them desirable as they prove hardy in the coldest localities. The freedom of growth, fine foliage, and easy culture place them within reach of the amateur as well as the professional gardener. They adapt themselves to the varied conditions of soil and climate; of course, the better the soil and more attention received, the finer will be the growth and profusion of flowers. They grow in light sandy soil with less attention than most any other rose.

The various ways in which these plants may be grown as decorative plants in the garden are several. They may be trained in pyramid form on posts set in the ground about eight and one-half feet high or in bush form. They can be grown as wind-breaks on a trellis. They also make fine specimens when grown as standards about four feet high. They are being used largely at the present time for pergolas and archways and, when necessary, may be grown as ground roses trailing on the surface. They are admirably suited for covering rocks and stumps of trees. When used for pergolas, the posts should be set about ten feet apart and eight and one-half feet high. For quick effect three plants to the post will reach the top and partly cover over the first year.

Two plants usually are sufficient unless immediate effect is desired.

In 1903 there were few climbing roses which proved satisfactory. *Queen of the Prairie* and *Baltimore Belle* being the two varieties mostly called for. While these made rapid growth and gave fine effect, they were subject to attacks of insects and unless sharply looked after shed their foliage and became an eyesore.

The hybrid *Wichuraiana* and *Multiflora* are more desirable, being less liable to the attacks of insects and they produce hundreds of blooms more to the plant than the old varieties of climbing roses. The effect in the hardy rose garden produced by this new race of roses is marvelous and bewildering, almost beautiful beyond description where fine specimens may be seen in the various colors, single and double flowers. This effect could not be attained until the advent of these roses. They are ornamental when out of flower, as the foliage is distinct and shiny in many of the varieties, some having the appearance of being varnished as it were. Another most valuable consideration is the second crop of blooms produced by a few of the varieties in September continuing until frost sets in.

Planting.

To obtain the best results when planting ramblers it is well to dig a hole two and one-half feet deep and about three feet wide, enriching the soil with decomposed barnyard manure. Plants five feet long set out produce flowers the first season. The young shoots should be tied occasionally as growth requires; this keeps the wind from swaying them about.

Where insects do attack these roses a slight dusting of hellebore is usually sufficient to stop their ravages. It is easily applied and no injurious results follow from its use as is oftentimes the case when tobacco water or whaleoil solution is used, as many amateurs have found out to their sorrow.

The Season of Blooming.

The earliest variety of bloom is *Wedding Bells*, semi-double, pink and white flowers; this is a seedling from *Crimson Rambler*. Next to flower is *Debutante*, soft pink and double; the flowers are borne in large panicles. *Sweetheart* comes next, *Carissima* then follows. *Dorothy Perkins*, beautiful soft pink, flowers about the first of July as does *Wichuraiana*, *Crimson Rambler*, and *Lady Gay*. Then follow *La Fiamma*, single red; *Hiawatha*, bright crimson; base of petals white; *Minnehaha*, large double dark rose color; *Paradise*, single and a most vigorous grower, well adapted for parks and driveways and trellis work; *Coquina* is a delightful shade of porcelain pink with the base of the petals yellow; flowers are from one inch and a quarter to an inch and a half in diameter. *Delight* is consider-

ed by some, one of the very best of recent introductions. Its color is crimson with base of petals white; and has dark shiny foliage. Mr. Jackson Dawson raised valuable and most desirable varieties, *The Dawson*, *W. C. Egan*, *Farquhar* and others. *W. A. Manda* of South Orange, New Jersey, has furnished such grand varieties as *Manda's Triumph* and *Favorite*; and others have added many valuable ones to the list. So we have a good list of varieties in wide range of color. It is a matter of choice as to color. In planting, however, varieties should be selected which harmonize and not clash with each other for at this time the effect from an artistic point of view adds much to the beauty of the garden. A few varieties bloom quite freely in September by pruning. Cut back the shoots which have flowered in the early Summer to within two inches of the main shoot and shorten the long shoots a few inches. *Hiawatha*, *Debutante*, and *Delight* treated as above will produce a nice lot of blooms.

Spring Pruning.

When the shoots are too crowded, cut out the old ones, leaving shoots of the previous season's growth to produce the blooms. The number can best be determined by the space it is desired to cover, and the vigor of the variety.

This class of roses, owing to the hardness and their adapting themselves to varying conditions of soil and climate, commend them to the consideration of the amateur. New and meritorious varieties

The Chinese *Magnolia*, *fuscata*, should be seen in collections oftener than it is. It is an evergreen shrub, not hardy in the North. As a tuh plant for lawns in Summer it is valuable. Its small dull purple flowers come with its new growth in Spring, and are of delicious fragrance.

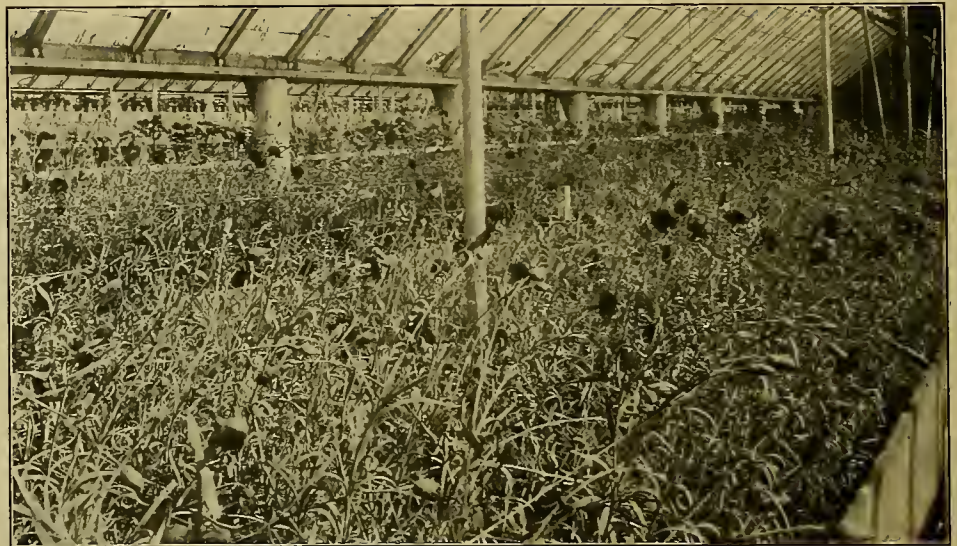
A favorite Summer vine with those acquainted with it, is the *Cobaea scandens*. It is a rapid climber, with many shoots having fair-sized leaves, and bearing handsome large flowers of a dark purple color. There is a variety with variegated leaves which is much admired. The *Cobaea* flowers from June to October. It is a good vine to recommend to customers.

When planting bulbs, set them deep, say four inches under ground for narcissus and similar sized bulbs. But those of large size, such as many of the lilies are, may be set six inches deep to advantage.

A foreign journal mentions the use of *Pyrus japonica* for dwarfing pears. It may be this stock would be an advantage where the planting was to be in lighter soil than the quince likes; in other respects the quince is quite satisfactory.

Rhododendron occidentalis, of California, is claimed to be a distinct and valuable species, but trials of it in Philadelphia have resulted in its being Winter-killed. The flowers are white with yellow throat, appearing there in July and August.

JOSEPH MEEHAN.



Carnation Elberon, grown by J. H. A. Hutchinson, Oxford, Pa.

ties in white, porcelain pink, and yellow are expected will shortly be ready for distribution. It is possible we may see perpetual blooming ramblers as free as the hybrid tea or monthly rose. Then, indeed, we shall have realized our highest expectations. The American raised hybrids give great satisfaction in Europe and the continent and are marvels of beauty, when in bloom, which almost baffles description. There are great possibilities by improving existing varieties and we hope this will continue until the highest degree of perfection is attained in all that constitutes a perfect, hardy climbing or trailing rose in various colors and perpetual flowering kinds.

Horticultural Notes.

In a letter from Delaware, the writer of it says he has found English ivy growing in a wood there, far removed from any dwellings, quite a clump of it. If a cutting was not dropped there at some time, it may be birds dropped seeds there. Along the Wissahickon, Philadelphia, Japanese honeysuckle is quite common, from trimmings that have found their way there at times.

Oregon crab apple is *Pyrus rivularis*. Besides its pretty white flowers in Spring, it bears "apples" of the size of marbles, which are quite ornamental when ripe. Several Oregon trees and shrubs are hardy in Pennsylvania.

Le Conte pear is of the Chinese type. It is valued in the Southern States where ordinary pears will not succeed. Its foliage is displayed earlier than that of any other sort in Spring, and in Autumn it changes to an almost crimson color.

Carnation Elbon.

Editor Florists' Exchange:

I have been reading your paper with much interest, and have noticed the claims made for a great many carnations. I will tell you about a variety I have been growing for four years, and it is getting better every year. *Elbon* is its name; and the color is a bright red, size medium, and the most fragrant of any red I have ever seen, having as strong a clove scent as that of *Flora Hill*. I have 460 plants in two short beds. Since October 1 to February 1, I have shipped 1,825 blooms, besides retailing nearly one-third as many; and in February, 1905, I counted the buds a few days ago, and there were over 2,600, besides spikes without number. Some of the plants have as many as 26 and 30 shoots on them. It is a strong, healthy plant, and makes three times as much money for me as any red I grow, and I have several of them. The photograph was taken before cutting. I will plant about 5,000 for our Fall trade. It is just as good a bloomer in the field as in the house, and these I have been growing in the house cost me several dollars before I planted them in. A cutting one inch long will make a strong, large plant by Fall, so I take all I can get, knowing they are all right. If Winsor beats it I will be glad, as I have purchased some of the former.

Another thing I noticed is the discussion on pollen. Two years ago I mixed the pollen of three carnations, and have one of the finest yellows, with a small pink stripe, I have ever seen. It beats the *Dorothy Whitney* very much. It bloomed all last Winter, but this season it gave a large lot of fine flowers in October and November, and then went off. It is now full of buds and will have large flowers with long, stiff stems. I think the reason it did not do so well this Winter is because, having only a few plants last Winter I cut them all up to get cuttings, instead of taking only the side shoots, which give the most flowers with all other varieties.

J. H. A. HUTCHINSON.
Oxford, Pa.

FOR THE RETAILER

Florists' Accessories.

Florists' accessories, or to use a more general term, florists' supplies, is a branch of the business that has grown to proportions almost equalling those of the florists' trade itself; so that a visit to one of our large supply houses is more like a visit to a department store, or a museum, so many and varied are the articles displayed. Every trade and almost every manufacturer is called upon to supply the wants of the retail florist. A few years ago a florists' supply house was only called upon to supply wire frames, and a few other things; now it must carry almost everything known to manufacture—iron and steel, dry goods, glassware and a host of others.

The florists' supply man has to be something more than a mere tradesman or mechanic; he has to be a genius and an inventor. His inventive powers are called into play every day, for the flower business constantly demands new ideas and new designs, which tax his ingenuity to the utmost; and it is really remarkable the variety of things he is called upon to create.

Plant Stands.

Many and varied are the devices used by the retail florist for the purpose of displaying plants, which have

It can also be raised or lowered to any desired height.

It is often desirable to suspend pots in various positions in decorative work. The angle pot holder is very good for this purpose and is a great help in window decoration. A series of these pot holders arranged on rods do away with clumsy stands that have to be hidden.

There is also a pot hook, a very simple device, that fits over the edge of a standard pot, enabling it to be suspended in any position.

Another device, which is certainly a time-saver, and almost indispensable in an up-to-date flower store, is the bouquet holder. This does away entirely with the "helper," and the artist can finish the bouquet without assistance. The best one I have seen was that invented by an assistant in a New York flower store, where all the ribbons are tied by one man. Each bouquet as it is finished is handed to him for that purpose. The holder stands on the floor and can be adjusted to any height to suit the operator. The device for holding the bouquet is quite original and holds the flowers in such a manner that the handle and other portion of the bouquet are left entirely free, so that the ribbons can be easily adjusted. A movable cover is part of the arrangement; this has a sharp end, and the bolt of ribbon to be used is passed over it so that no ribbon can fall on the wet floor; and it is right at hand for the operator. There is also a small stand attached, containing ribbon, shears, tin foil, pins, etc. One has

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 23rd St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unexcelled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLOREAL CO., 1706 Broadway, J. A. Valentine, Prest. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South, Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.



Front View



Rear View

Witthold's Combination Vase and Plant Stand

to be raised or lowered, tilted this way or that, to show them to the best advantage, and in many cases they have to be suspended. One of the very best stands I have seen comes from the George Witthold Company, Chicago. This device is very light, made of galvanized iron, and is a combination of plant stand and vase, which can be used for either purpose. The main portion of the stand is formed like an elongated cone, which may be filled with water and used for flowers, or inverted and used as a plant stand. At the small end is attached a smaller and shorter hollow cone, and at the junction of the two several steel rings have been fastened that are used for the reception of pot plants. This arrangement has proved especially suitable for window and house decorations, and will no doubt be a great help to florists. Another advantage of this stand is its compactness, the cones telescope one into the other, and take up very little room, which for transportation facilities will prove a great benefit, where space has to be considered.

Another plant stand of recent introduction will prove valuable on this account; a dozen or two can be stowed away under the seat of a wagon without effort. The pedestal consists of an iron pipe; at the base is a triangular steel plate, perforated at each angle; three pieces of steel about twelve inches in length form the legs, and these are so constructed that they slide in and out, and when not in use fit parallel to the standard.

The pot holder is also an innovation. It is made of the best spring steel, will hold firmly a pot from eight to twelve inches, and can be adjusted to any angle.

only to see this clever device in operation to appreciate its value to the busy florist.

Another more recent invention which has, I believe, been patented by Reed & Keller, New York, is used for fastening Cycas revoluta leaves together. This device is so simple that the wonder is, it had not been introduced long ago. It is made of one piece of wire. Two or more leaves may be securely fastened together without injury to the leaves. If ribbon is to be used, it is passed under the wires and the bow tied in such a manner that it does not crush or mar the pinnae, making a perfect arrangement.

The introduction of the wired stick and toothpick has been a great help to retailers, and no florist should be without them. From experience I should say they save fifty per cent. in time, and there is very little waste, as was usually the case when these articles were used separately.

The florists' supply man has done much to advance the business, and there is doubtless still room for many improvements that will save us both time and worry.

D. RAYBUN.

Carnation Night at Cornell University.

The evening of February 25 was dedicated to carnations at the Lazy Club, which is the official organization of the Horticultural Department. At the solicitation of W. H. Griffiths, gardener of the department, a number of varieties of carnations were on exhibition. The merits of these were studied and compared by students and visitors. The extraordinary improvement which has taken

place in the commercial qualities of this flower in recent years was noted and commented upon.

Collections of blooms were received from John E. Haines, Bethlehem, Pa., who forwarded an exceedingly instructive and interesting group, largely of his own origination.

The F. R. Pierson Co., Tarrytown, N. Y., showed Winsor, Melody, Helen M. Gould, White Enchantress, Rose-Pink Enchantress and Red Lawson. The interesting feature about this exhibit is that Helen Gould, White Enchantress and Rose-Pink Enchantress are all sports from the original Enchantress. The Pierson Company regard these as among the leading commercial varieties which they cultivate.

Peter Fisher, Ellis, Mass., showed a fine vase of Beacon.

The Cottage Gardens Co., Queens, L. I., presented the display with a collection of some fifteen seedlings showing a great variety of color, form and illustrating in a general way the possibilities of careful breeding when applied to the carnation. Many of the seedlings were of high merit.

The Chicago Carnation Co., Joliet, Ill., provided a striking vase of that handsome carnation, Aristocrat. This variety illustrated in splendid fashion the best points of a good commercial flower. For itself it attracted much attention from visitors.

The United States Cut Flower Company, Elmira, N. Y., showed a general collection, prominent among which were Enchantress, Red and White Lawson as well as the original Mrs. Lawson, Lady Bountiful Fred Burki, Vesper and Mrs. M. R. Paten.

It is needless to say that the exhibit provided both instruction and inspiration to the large group of students who had the privilege of examining and studying it.

X. Y. Z.

AMERICAN ROSE SOCIETY

Report of Annual Meeting and Exhibition
held at Washington, March 13-14, 1907

The weather was a welcome change from the slush and snow in New York to the balmy, genial atmosphere of the Capitol City when on Wednesday, the opening day of exhibition and convention of the American Rose Society, one could comfortably dispense with an overcoat.

The exhibition was held in the basement of Washington Light Infantry Hall, where space was abundant, but light almost entirely supplied by electricity. It was the best accommodation available, but in marked contrast to the elegantly lighted Horticultural Hall, Boston, last year. President Bisset, Superintendent Freeman and his co-workers did everything in their power to facilitate staging. The display of roses was not equal to that at Boston, owing to the unfavorable weather, which has caused great scarcity of blooms everywhere. There was only one entry in several classes, among them that for fifty American Beauty. The flowers shown by George Burton, Philadelphia, wins for him Lord & Burnham Cup permanently, he having captured it twice. In most of the classes the judges had little difficulty in deciding, except perhaps for Mr. Cook's fifty dollar cup for hundred Richmond. This was the closest competition in the show. The cup was won by W. H. Elliott, Brighton, Mass., closely followed by Wm. Simpson, of Clifton, N. J. Both lots excellently grown.

Several novelties were shown which attracted considerable attention. E. G. Hill Company won the \$25 cup donated by Harry O. May for exhibition of an American seedling not yet introduced, with new red rose Rhea Reid. Myers & Samtman, Philadelphia, staged a seedling rose, a cross between American Beauty and La France, attractive deep pink color, fragrant, with beautiful foliage, which was much admired. William Clark, Washington, also had a seedling, color resembling that of Duchess of Albany. The cross is Liberty with Chatenay. F. H. Kramer, Washington, staged Queen Beatrice. A special committee of judges composed of W. H. Elliott, Peter Crowe and Patrick O'Mara scored these novelties, thus: F. H. Kramer, 83 points; Myers & Samtman, 81; Wm. Clark, 70.

The exhibition opened at 6:30 by Secretary of Agriculture Wilson, who was introduced by President Bisset, of the local club, who lauded the Secretary's good work for agriculture and horticulture.

Mr. Wilson welcomed the rosarians to Washington, and commended them on the progress made in their art. He said the aesthetic taste of Congressmen had developed greatly within ten years as evidenced by many parks and squares in Washington. The Department was not quite so much given to beauty as to mercenary considerations; it is expected to show the dollar at the end of every one of its undertakings. He spoke of the scientific side of the department work and its worth to the nation. Experiments successfully carried out and new economic plants introduced worth \$300,000,000 actually, but in a report to Congress Secretary Wilson had made the amount one-fourth of that. The question is not that the truth should be told Congressmen, but not more of the truth than they can comprehend and grasp. He spoke also of poets and flowers, the hospitality of Washington people and again bade his hearers welcome. The remarks were loudly applauded. The speaker was accompanied on the platform by Dr. B. T. Galloway, William R. Smith, Peter Bisset and the officers of the American Rose Society.

Opening Session.

The first session of the Society was called at 8:30 in the evening. President Simpson presiding. Secretary Hammond read the salient points of the printed annual report, urging the value of life membership to the Society.

President Simpson then delivered his address [Printed in full in this issue], followed by Mr. Hammond's report, as follows:

Secretary Hammond's Report.

Reviewing the work of the American Rose Society since the last annual meeting, held at Boston, March 27, 28 and 29, 1906, the secretary feels as if there was much interest scattered far and wide in this Society. Our present membership extends from Bellingham in Northwestern Washington to Schlesian, Germany. We have lost in all five life members by death; E. G. Asmus, E. M. Wood, H. Dale, George Fancourt and J. L. Dillon; the last two within the past year, and each of these men was an active rose grower. Two new life members were added to our list, S. S. Penneck and Robert Simpson, making 43. The annual membership,

who have paid up their dues for this year number 91, divided as 85 actual and six associate members. This division of associate members seems as if it may bring into touch with this Society an extended number of people interested in local societies. Dr. Spencer Sulinger, President of the Rosarians, of Bellingham, Washington, the Rev. J. R. Lawrence, of Rynham, Mass., are both clergymen, alike interested in creating a their locality a taste for civic improvement; from Germany comes Dr. G. Molves, with the hand of fellowship to those who in America have to do with roses. With this line of members, what can the Society do to interest and attach more of the same sort? One thing is a full and comprehensive report of the proceedings.

As a new man at this work I have found there is a lot of detail to keep in touch with our membership and to get a revenue sufficient to cover cost of the necessary postage, printing and clerical work to systemati-



Robert Simpson
Re-elected President of the American Rose Society

cally carry it on. It calls for an actual annual expenditure of more than the Society can well afford, unless there is some financial support more than the present limited number of annual dues.

The American Rose Society can bring itself before the general public in no more effective manner than by a liberal offering of its medals, gold, silver or bronze, as prizes to be awarded for some tangible work, by the various local societies. To illustrate, in 1901 and 1903 this Society gave as a prize to the Annandale Rose Show a silver medal. I am assured that this medal was very much appreciated, and an application was made by Miss Carolina Cruger, the secretary, at Barrytown, N. Y., for this consideration again. The executive committee then directed that a medal should be offered. Now if this is a matter of interest to one local society it would be so to many, if we can extend our usefulness in this line. The gentlemen who were active in the formation of this Society certainly did a lot of good work to give the Society a start. Our die for these medals is in storage at the Philadelphia mint, and the design is a very pretty thing.

The past year, by the advice and consent of the executive committee, I had made a design for this Society and placed thereon these words "A rose for every home. A bush for every garden" and this device makes all our stationery distinctive.

This year we printed one thousand schedules in pamphlet form and mailed one to each member and the balance were sent out as advertisements, so to speak, for the Rose Society. A few hundred were mailed to growers all about the country. The annual report was also similarly treated.

Last September I was in Chicago for several days

and attended a meeting of the Cook County Horticultural Society, and was introduced with genuine cordiality as secretary of the American Rose Society, upon which occasion the opportunity presented itself, and I put before that gathering the aims and doings of the American Rose Society. We have as one of our judges in attendance at this exhibition Mr. Hauswirth, who has come to our Society without cost of hope or reward in common with our friends. William F. Kasting, of Buffalo, and Robert Craig, the first president of the Rose Society.

The Chicago Florists' Club sends to the American Rose Society an invitation to fix the place of its next meeting in that city. Your executive committee has held six formal meetings during the past twelve months. Members coming on to New York from Washington, Boston, Hillside, Pa., South Orange, Clifton, Summit, N. J., Tarrytown and Fishkill-on-the-Hudson, N. Y. The interest shown by the committee was echoed back by the rose growers, who are here to-day in force, but to our knowledge, if the sunlight had been up to normal the past two months, this exhibition, large as it is, fine as it is, would have been more than double.

There are two questions on our programme, suggested by President Simpson, that are of imperative interest and which will be before the meeting to-morrow, and these questions, friends, are topics which your secretary, for the future prosperity of the American Rose Society, commends to your individual attention.

The report of Treasurer Harry O. May showed a balance in favor of the Society of \$324.94.

Theodore Wirth then read his paper [See page 360], receiving a vote of thanks. Patrick O'Mara characterized the essay as eminently truthful and practical. The essayist said the Richmond Rose was the best in America, or ever produced in this country.

Chicago in 1908.

Chicago was selected as the next meeting place, endorsed by Messrs. Breitmeyer, Hill, Hauswirth and others. A grand show is expected next year and a large addition to the membership from the West.

The members were invited to join the S. A. F. O. H. Friday at a hearing before the Interstate Commerce Commission on the subject of excessive express rates.

Peter Bisset announced that the delegates would be received by President Roosevelt at 2:30 p. m. Thursday.

Election of Officers.

William Simpson was re-elected president; Phil. Breitmeyer, Chicago, was elected vice-president; Benjamin Hammond and Harry O. May also re-elected, secretary and treasurer respectively. On the executive board, E. G. Hill and P. Welch were elected for three years, August Poehlmann, Chicago, for one year.

The meeting adjourned at 10:30 p. m. till Thursday at three o'clock.

At the Thursday afternoon session the papers prepared by M. H. Walsh and E. G. Hill were read, and questions on how to increase membership, and the usefulness of the Society were discussed. The essays appear in full in this issue.

On Thursday evening a banquet was tendered to the visiting delegates by the Washington Florists' Club, at the Arlington Hotel.

The Awards.

DIVISION A, 25 BLOOMS.

Bride—First, Stephen Mortensen, Southampton, Pa.; second, F. H. Kramer, Washington.
Bridesmaid—First, L. B. Coddington, Murray Hill, N. J.; second, G. E. Campbell, Flourtown, Pa.
Mrs. Pierpont Morgan—First, John N. May, Summit, N. J.
Golden Gate—First, F. H. Kramer.
Chatenay—First, Robt. Simpson, Clifton, N. J.
Oliver Ames—First, John N. May.
Ivory—First, F. H. Kramer.
Liberty—First, E. Towill, Roslyn, Pa.
Killarney—First, Wm. H. Elliott.
Richmond—First, S. Mortensen; second, G. E. Campbell.
Any other disseminated variety—First, E. Towill, with variety Joseph Hill.

DIVISION B, 12 BLOOMS.

Bride—Second, F. H. Kramer; no firsts.
Bridesmaid—Second, F. H. Kramer.
Golden Gate—Second, F. H. Kramer.
Ivory—Second, F. H. Kramer.
Liberty—First, E. Towill.
Richmond—Second, F. H. Kramer.
Any other—First, Washington Florists' Company, with Cardinal.

Special Prizes for Cut Blooms.

The Lord & Burnham trophy (the executive committee's prize), valued at \$250, offered for 50 blooms American Beauty roses, was won by George Burton, Chestnut Hill, Pa., only exhibitor, whose property it now becomes.

The Dorrance challenge cup for best display of cut roses, all varieties, was won by Robert Simpson.

The Cook cup for 100 blooms of Richmond was captured by Wm. H. Elliott, Brighton, Mass.

The Taylor cup for 50 blooms Wellesley was also captured by Wm. H. Elliott.

The Traendly & Schenek cup, offered for 50 blooms of Mme. Abel Chatenay, was won by Robert Simpson.

S. Towill was awarded the Michell silver cup for 50 blooms of Richmond.

The Dungee & Conard prize of \$25 in gold for 50 blooms of Killarney was won by Robert Simpson.

The Wm. H. Elliott prize for 50 blooms of Liberty was awarded to A. Farenwald, Roslyn, Pa.

The silver cup offered by the Pennock-Mechan Company for 50 Bridesmaid was won by L. B. Coddington.

The E. G. Hill Company's prize of \$25 in gold for 50 Richmond, was won by Robert Simpson.

The Harry O. May cup for exhibition of American seedling not yet introduced, was won by the E. G. Hill Company with Rhea Reid.

The Coddington prize for 25 Brides was captured by S. Mortensen.

Mrs. S. C. Briggs' prize for 6 blooms of any rose never before exhibited, was won by W. S. Clark, Washington.

The Hammond prize was awarded to F. H. Kramer. The Newbold cup was captured by Robert Simpson.

F. H. Kramer captured the W. Atlee Burpee silver cup, offered for 50 blooms Golden Gate.

The Nee cup was won by Robert Simpson.

Washington Club Prizes.

S. C. Briggs, Washington, was first for 6 distinct named Indian azaleas, first for pair of palms and first for 6 cereus.

F. H. Kramer, Washington, was first for display of hyacinths, three pans, ten bulbs of one variety in each pan, and single pan with twelve bulbs of one variety.

S. C. Briggs was first for 6 pots of lily of the valley. D. C. Dudley Parkersburg, Va., first for display of *Hydrangea hortensis*, three varieties.

L. M. Baxter, took first prize for fern that had been growing in a dwelling at least four months previous to exhibition.

For the best hybrid geraniums, Mrs. Cadwallar was first, and S. C. Briggs second.

For vase of 100 carnations of one variety, H. Weber & Sons, Oakland, Md., was first with Mabelle; F. R. Pierson second; and H. Weber & Sons third.

H. Kleinheinz, gardener to P. A. Widener, Philadelphia, was first for twenty-five blooms of any named dark pink variety of carnations with Lawson; H. Weber & Sons second with Martha Washington; and S. C. Briggs third with Lawson.

H. Kleinheinz was also first in the class of twenty-five blooms of any named crimson variety of carnations with Harlowarden; Washington Florist Company second with same variety.

For twenty-five blooms of carnations of a lighter pink than Mrs. Lawson, H. Weber & Sons were first with Mabelle; S. C. Briggs second with White Enchantress; F. R. Pierson Company third with Winsor.

For twenty-five blooms of any named scarlet variety of carnations, H. Kleinheinz was first with Robert Craig; Guttman & Weber second with Victory.

H. Weber & Sons were first with My Maryland for twenty-five blooms of any named white variety; H. Kleinheinz second with Lieut. Peary.

For twenty-five blooms of white variegated, Kleinheinz was first with Mrs. M. A. Patten; H. Weber & Sons second with Jessica.

For seedling, 6 or more blooms shown for first time, H. Weber & Sons were first with Seedling number 5; W. A. Manda, South Orange, N. J., second with Seedling number 1.

S. C. Briggs took first prize for display of 48 cut blooms of pansies, not less than 24 varieties.

T. Dieterich, with the variety Farghar, took first prize for display of 100 violets.

For a bunch of 100 blooms Princess of Wales violets, David Bisset, Garret Park, Md., was first; T. Dieterich second.

For display of 100 blooms of any other single violet, T. Dieterich was awarded first prize.

Lager & Hurrell of Summit, N. J., took first prize for display of orchids.

A first-class certificate of merit was awarded to W. A. Manda for a collection of new and rare plants; a certificate was also awarded the Department of Agriculture for display of plants.

A. Gude & Bro. of Washington, won the Ernest prize of \$25 for a group of decorative plants.

Kroeschell Brothers' Company, Chicago, had a model of their boiler. Schmit, Washington, showed vases and

aquaria glasses. An exhibit of smilax (*asparagoides myrtifolia*) was much admired for its gracefulness. F. R. Pierson Company had a large lot of Winsor that proved an attraction, as did the carnation display of Weber & Sons, and Lager & Hurrell's group of orchids.

H. C. Summers, exhibited the new Marguerite, Charles Summers.

M. H. Walsh, Woods Hole, Mass., had an excellent showing of Wichuraiana Hybrid roses. Cook staged an attractive group of palms, ferns, lilies, azaleas, etc. Dudley & Son, Parkersburg, Va., had a fine group of flowering plants, among them being lilies, hydrangeas, roses, etc.

The judges for the local club were: C. L. Seybold, Geo. Watson and Wm. Weber.

For the Society, Wm. P. Craig, Phil. Hauswirth and Wm. F. Kasting, F. H. Traendly acting as clerk.

President Simpson's Address.

We meet to-day in the capital city of our country as guests of the Washington Florists' Club. Many of us are growers, and I am sure that all of us are lovers of the rose. Some of you have come to Washington to place on exhibition your beautiful flowers, some of you have come chiefly, it may be, to admire the wonderful productions of others, but a goodly number of you, I trust, are here to discuss with us problems in rose growing and problems that confront our Rose Society. In any event I am sure that no one will say that mercenary motives have drawn you, some from the East, some from the West, some from the South, and others from the North, at considerable expense of time and money at this busy season of the year to attend this meeting; it is to gratify your love for the beautiful in nature, and to signify your willingness to do your part towards making this earth more beautiful and attractive that you are here to-day. I trust that our meeting may be helpful and encouraging to every grower of the rose, that we all as a result may have higher ideals, and go home more than ever in love with our business and calling and that this shall prove to be an epoch-making meeting of the Rose Society.

At the 1906 meeting in Boston the matter of selecting the place in which to hold the exhibition and annual meeting of 1907 was left in the hands of the executive committee, after a discussion, however, which showed plainly that the sentiment of the meeting was in favor of going to some city in the West, should the way be open for us, and should such a course seem to be for the best interests of the Society. The executive committee left the matter open until July, thus giving every section of the country an equal chance to compete for the privilege of having the Rose Exhibition. The Society did not receive any invitation from the West; but it did have a very hearty and pressing invitation from the Washington Florists' Club, which sent their president to New York to back up their formal written invitation.

The president, Mr. Bisset, assured us that Washington and its people would see that the local detail work of the exhibition was taken care of properly and that an exhibition there would be a success financially. Whether they have kept their promise you will be able to judge for yourselves.

There is a great amount of detail work to be done in arranging for an exhibition of this kind, particularly when it is not held in connection with some regularly organized horticultural society where men have been trained for the work, and where all the facilities for the holding of exhibitions are at hand; more perhaps than many of you realize, and I wish at this time to express my appreciation of the hearty enthusiasm with which the officers and local members of the executive committee have entered into this work, and have done willingly and gladly whatever was in their power to do. Several meetings have been held in the city of New York, and some of the officers have not failed to attend a single meeting. If the exhibition of 1907 shall prove to be equal in point of interest and enthusiasm to that of 1906, much of the credit is due to the push and energy and painstaking work of our secretary, and the enthusiasm of our young treasurer. The position of secretary of the American Rose Society is no sinecure, I assure you, if the incumbent tries to do, faithfully, the work that he finds to do, and just in proportion to the quality of the man in office will depend how much of the work shall be done, or how much shall be left undone. For good work the salary is totally inadequate, but in the present state of our treasury I dare not ask for an increase. The work of our present secretary during the past nine months will meet with your entire approval I am sure.

As the program for this meeting indicates, we have arranged for the reading of papers on inter-

esting subjects by men eminently qualified to talk on the subjects treated and I trust we may give to them our undivided attention during the delivery of the same. In the discussions that are to follow, we may be able to give out and gather in a vast store of useful information. The Society is to be congratulated on the personnel of its essayists.

It has been arranged that gentlemen of large experience and observation shall start a discussion on matters of vital interest to the Society; that of increased membership, and new work that may be done by the Society as an organization for its members and the public. I do not wish to anticipate or forestall what these gentlemen may advise, as I hope for a very full discussion when in the order of business these subjects are taken up; however, in this connection I may be permitted perhaps to make a few observations, and possibly offer a few suggestions.

Much good work might be done by the Society if we had at command funds with which to do the work; much work should be done that has as yet not even been attempted. For instance, a committee of half a dozen men representing different sections of the country and competent to deal with the peculiar climate and other conditions of the particular section, might, in conjunction with the secretary, prepare a list of roses with general cultural directions suitable to the conditions prevailing in those various sections. That would be worth much more to rose lovers than the annual membership fee. This committee could also advise as to the best roses to purchase, Dutch, French, English, home grown budded, or own root plants, department store stock, or stock direct from the nursery. There is a vast amount of ignorance among the general public along these lines, and their want of knowledge is frequently taken advantage of by unscrupulous dealers.

What the Society can offer as an inducement to membership will no doubt be a controlling factor in seeking to enlarge that membership; on the other hand, larger resources as a result of larger membership will permit the Society to undertake greater things.

If the American Rose Society should identify itself with the various horticultural societies of the country to the extent of offering its silver medal once a year for collections of cut roses, roses in pots, etc., to be judged according to the scale of the Rose Society, it would add much interest to the exhibitions and our Society would gather strength and prestige thereby.

If the financial resources of the Society were adequate I would favor the holding of an exhibition in June, as well as March, so that the rose loving public could see and become acquainted with the beautiful outdoor roses that we cannot place before them in March, such as Fran Carl Drushki, Baroness Rothschild, Mrs. John Laing, etc. The June exhibition would be more popular, more interesting and do more to educate the masses in rose culture than it is possible to do with an exhibition of indoor roses in March.

If the catalogue men of the country (we have some of the gentlemen here to-day) could be induced to give a page of their catalogue each year to a statement of the aims and purposes of the Rose Society and advocate membership in it to their customers, great possibilities would immediately loom up before the Society. It is reasonable to suppose that our membership could be multiplied several times within a year if all present would resolve to make a point to interest their friends and business acquaintances by correspondence, by personal appeal, or in any other legitimate way that presented itself.

The Society offers gold and silver medals at its exhibitions for new varieties, the object in offering these being to encourage the production of novelties of sterling merit, but in ruling that a novelty must score at least 95 points to win the gold medal we practically make it impossible to win it at all. Very few judges would be willing to say that a flower was perfect in form, in color, in fragrance or distinctiveness, or in fact in any one particular, yet the variety with as many good points as Liberty, or Killarney, or Richmond, should have a chance to win the gold medal of the Society. We should of course maintain a high standard in the giving of such awards, but we should at the same time avoid exacting impossible conditions. I ask you to consider whether or not the rule governing the judging of novelties needs to be revised.

The John Young Co. Greenhouse.

In last week's number, page 320, the dropping of a figure made the length of the rose house of the John Young Company, Bedford Station, N. Y., read 70, instead of 701 feet, the correct length.

A Few Remarks About Outdoor Rose Culture.

Paper Prepared by Theodore Wirth, Superintendent of Parks, Minneapolis, Minn., and read before the American Rose Society, at the Washington Meeting, March 14, 1907.

I consider it somewhat presumptuous on my part to appear before you expert rose growers, and to think that I might be able to say anything that may be new and possibly instructive to you; and I confess that, when I first received our president's request for a paper, I was readily inclined to decline. My eyes, however, took in the letterhead on which Mr. Simpson's invitation was written, and up in the left corner it read—"A Rose for every Home, A Bush for every Garden."

Gentlemen, this being the motto of our society, I am with you heart and soul, and I appear before you as a strong advocate of using the society's influence and working organism to advance outdoor rose culture in general and by every available means, and not as a rose grower of special experience and knowledge by whose suggestions and explanations you might profit.

Most of you, undoubtedly, are growing roses under glass, and while you take due interest in outdoor culture and probably sell plants in the planting season and cut flowers during the month of roses, still your main business interests are centered in your indoor cultures, in your winter roses which bring you satisfactory pecuniary returns, reward you for your labor, investment, energy and the patient watchful care bestowed upon your plants.

The exhibits in the hall show us your skill, your wonderful achievements in hybridization and culture, and your love for your noble profession; and with you we are proud of your achievements, and with you we enjoy our sojourn among those creations of yours, the roses of mid-Winter, while all plant life outside is dead.

But as I look over this splendid display, my thoughts wander ahead, my vision leaves the narrow enclosure of this room, the hall and your hundreds of acres of greenhouses, and my longing lands me in a fairyland, in God's own Paradise, the home of our Queen of Flowers, the outdoor rose garden.

Imaginary Trip Through a Rose Garden.

I want you to accompany me on this most pleasurable of all pleasure trips, and I want to start out early.

It is June, the month of roses, and truly the month in which I wish we could hold our convention. The sun is rising on a clear sky, and the dew is on flower, leaf, frond and blade. The atmosphere is refreshing and the birds are jubilant in their renewed joy of life. We enter our garden of well-cultivated roses, and God! what a glorious sight. How beautiful are the plants in their perfection of foliage, their abundance of sweet-scented, strong, well-built flowers; what a richness and variety of colors and shades, and what a wholesome and refreshing fragrance is in the clear morning air. Reverently we walk among those beds of indescribable beauty, under those arches of drooping bowers of flowers, all glittering and sparkling with the new-born sunshine, reflected in millions of diamond dew drops.

We here meet the rose at home in her very best form and beauty, in her modest garb and surroundings; and, gentlemen, you will all agree with me that your very best creations of forced culture, be they displayed in the costliest, most luxuriously furnished apartment of the millionaire's mansion, surrounded by priceless art treasures and draperies, are outshone in this garden, and that the wealth with which your coveted products are surrounded is an insignificant factor compared with this garden's draperies and attractive backgrounds of simple but majestic trees, shrubs and vines.

The effect of the displays of your creations and products artistically and tastefully arranged with all known arts of decoration is gorgeous, pleasing, fascinating; but the effect of our rose garden in all its simplicity is unsurprisingly sublime.

I suppose I have made myself clear by this time that I am an enthusiast on outdoor rose culture, without any attempt to belittle your efforts and achievements as indoor growers and decorators. Indoor rose culture has many advantages over outdoor culture, as it has within its reach an unlimited list of varieties and better yet a practically unobstructed field of hybridization. Yet the list of varieties of all classes of roses available for outdoor culture is so large as to satisfy practically all reasonable demands; in fact, it is nearly as much a matter of cleaning out and discarding many that are not worthy of culture because they are superseded by so many better, as it is to get new varieties.

Hybrid Teas for Outdoors.

Thanks to the earnest and successful efforts of the modern hybridizers of both America and Europe, the list of real everblooming roses adapted and hardy for outdoor culture is increasing from year to year. I refer to the class of hybrid teas.

I notice in the last catalogue of Alex. Dickson & Sons, Newtownards, Ireland, that out of a list of 82 pedigree seedling roses, 43 are hybrid teas, 21 hybrid

perpetuals, 9 teas and 9 singles. This is but the cream of a numberless list of new seedlings, but many of them, undoubtedly, will prove available for outdoor culture. The hybrid teas are now in comparatively the same epoch of development as were the hybrid perpetuals some 30 years ago, when the firm of Eugene Verdier of Paris alone offered between 40 and 50 new hybrids of that class every year from 1872-1880, and the number introduced since then is legion.

The hybrid tea rose will win for itself recognition and preference as an outdoor rose the more its bardi-ness becomes known. It is in reality this class which is entitled to the name "perpetual bloomers" in the proper sense of the word. I think that hybrid-remontant is the proper name for what we call now hybrid perpetual; for the word "remontant" really means what they do—bloom a second time (once more), but not continually during the season, as do the hybrid teas, teas and polyanthas.

Varieties for Outdoor Work.

Let us see what we have to-day among the old stand-bys and new-comers well adapted for outdoor culture. I do not claim for all those I mention the title "the best," for therein we differ according to taste, experience and observation. I simply mention them as varieties with which I have been successful and which seem to me to merit a place in every rose garden the climatic condition of which is congenial to their growth. Every color and shade is represented.

In white and shades we have the following hybrid remontants, Frau Karl Druschki, Mabel Morrison, Marchioness of Londonderry, Margaret Dickson, Maureen, Perfection des Blanches, Coquette des Blancs and Coquette des Alpes.

HYBRID TEAS—Augustine Guinoisseau, Helene Guillot, Kaiserin Augusta Victoria, Mildred Grant, Marquise Jeanne de la Chataigneraye, Souvenir de Mme. Eugenie Verdier, Maman Cochet.

In red and its many shades we have the following—HYBRID REMONTANTS: Etienne Levet, General Jacqueminot, Gloire de Margottin, Horace Vernet, Jules Margottin, Jubilee, Marie Baumann, Oscar Cordel, Prosper Laugier, Reynolds Hole, Robert Duncan, Sultan of Zanzibar.

HYBRID TEAS: Balduin, Dean Hole, Etoile de France, Ferdinand Jamin, Gruss an Teplitz, Liberty, Rev. David R. Williamson, Richmond, Papa Gontier.

In rose or pink we find—HYBRID REMONTANTS: American Beauty, Anna de Diesbach, Baroness Rothschild, Baronne Prevost, Clio, Caroline de Sansal, Comtesse Cecile de Chabrilant, Countess of Roseberry, Duchesse de Valombrosa, Dupuy Jamin, Eugenie Verdier, Heinrich Schultheis, Helen Keller, La Reine, Mme. Gabriel Luizer, Magna Charta, Marchioness of Downshire, Marchioness of Dufferin, Marguerite de Ste. Amande, Marquise de Castellane, Mrs. John Laing, Mrs. R. J. Sherman Crawford, Oakmont, Paul Neyron, Pride of Waltham, Rev. J. D. McCann, Susanne Marie Rodocanachi, Victor Verdier.

HYBRID TEAS: Captain Christy, Mme. Caroline Testout, Dr. J. Campbell Hall, Killarney, La France, Mme. Abel Chatenay, Maman Cochet, Mrs. W. J. Grant, Reine Marie Henriette, and Kate Moulton.

In a class all by themselves we have the POLYANTHA roses, which, in my opinion, are not known and grown enough. I should like to call them the children's roses; they are so easily grown and are the real bedding roses. There are as many as 30 to 40 varieties of easy culture, namely:

RED—La Proserpine, Leonie Lamesch, Liliput, Mme. Norbert Levasseur, (Baby Rambler), Ma Petite Andre, Pink Soupert, Perles des Ronges.

ROSE or PINK—Gloire des Polyantha, Ma Fillette, Mlle. Cecile Brunner, Mignonette, Petit Constant, Petite Madeleine, Philippine Lambert, Primula.

WHITE—Annie de Montraveil, Bellina Guillot, Clorhilde Soupert, Flocon de Neige, Josephine Burland, Katherine Zeimer, Marie Favier, Marie Pavie, Miniature, Mosella, Paquerette, Princesse Marie Adelaide de Luxembourg, Schneewittchen, Snowball.

YELLOW—Etoile d'Or, Etoile de Mai, Emilie Potin, Eugenie Lamesch, Filius Strassheim, Golden Fairy, Le Bourgnignon, Perle d'Or, Princess Elizabeth Lancelotti.

THE RUGOSA FAMILY is also becoming more prominent through recent introductions and we have now the following varieties:

RED—Atropurpurea, Mme. Chas. Worth, Mrs. Anthony Waterer, Rugosa rubra, Souv. de Pierre Lepedrioux.

ROSE—Belle Poitevine, Calocarpa, Conrad Ferdinand Meyer, Delicata, Rose Apples.

WHITE—Blanc double de Coubert, Fimbriata, Mme. Georges Bruant, Rugosa alba.

The following MOSS ROSES deserve a place in the garden. Red—Colina, Crimson Globe; rose—Crested, Mme. Moreau; white—Blanche Moreau, Comtesse de Mirinai, Perpetual White, White Bath.

In way of TRAILERS and CLIMBERS we have also a large variety, representing: hybrid remontants, hybrid teas, teas, noisettes, Bourbons, polyanthas, mosses, rugosas, gallicas, Wichuraianas, hybrid multifloras, moschata and sempervirens.

IN RED—Cheshunt Hybrid, H. T.; Climbing Jules Margottin, H. R.; Climbing Papa Gontier, H. R.; Crimson Rambler, Pol.; Euphrosine, Pol.; Hiawatha, H. Wich.; Paul's Carmine Pillar, H. T.; Philadelphia Rambler, Pol.; Reine Marie Henriette, H. T.; Rubin, Pol.

IN ROSE OR PINK—Climbing Caroline Testout, H. T.; Climbing Clorhilde Soupert, Pol.; Climbing La France, H. T.; Climbing Mme. de Watteville, T.; Climbing Mrs. W. J. Grant, T.; Climbing Souv. de la Malmaison, B.; Climbing Victor Verdier, H. R.; Cumberland Belle, Moss; Dawson, H. Multi.; Debutante, H. Wich.; Dorothy Perkins, H. Wich.; Helene, Pol.; Karissima, H. Wich.; Lady Gay, Pol.; Leuchtstern, Pol.; Mme. Berard, T.; Minnehaha, Paradise, Pink Pearl, H. Wich.; Pink Roamer, H. Wich.; Psyche, Pol.; Queen of the Prairies, Setigera; South Orange Perfection, H. Wich.; Sweetheart, H. Wich.; Universal Favorite, H. Wich.; Wedding Bells, Pol.; Wm. Egan, H. Wich.

IN WHITE—Aimee Vibert, N.; Brunoni fl. pl.; Mosch.; Countess of Lieven, Arv.; Gardeniaeflora, Pol.; Climbing Kaiserin Augusta Victoria, H. T.; Climbing Niphotos, T.; Mme. Alfred Carriere, H. N.; Manda's Triumph, H. Wich.; Moschata alba, Mosch.; Rampant, Spr.; Schneelicht, Rug.; Splendens, Arv.; Thalia (White Rambler) H. Mfl.

IN YELLOW—Gardenia, H. Wich.; Wm. Allen Richardson, N.

While speaking about climbers, would it not be feasible to bad the Baby Rambler in numbers, on the main shoots of the Crimson Rambler or other vigorous climber covering a trellis or arch, and so transform the ordinary Rambler into an everbloomer? I suppose this could be done successfully by relieving the Rambler of its own flowering wood and by renewing the budding yearly on the new wood, which is grown along to replace the old.

No rose garden would be complete without our WILD and NATIVE roses, and we can use them as an introductory feature in the way of border plantations around the garden. They are: Rosa alba, blanda, canina, carolinaeana, lucida, multiflora, nitida, rubiginosa, rugosa, setigera and many others.

The pretty Midget rose, Rosa multiflora nana, should be freely used for borders along trellises. They are easily grown from seed, if sown inside as early as February, potted up and planted out in May.

Other MISCELLANEOUS GARDEN ROSES not to be forgotten are: Soleil d'Or, A. B.; Persian Yellow, A. B.; Harison's Yellow, A. B.; Austrian Copper, A. B.; York and Lancaster, Gallica; Stanwell's Perpetual; Damask; Cabbage, Centifolia; White Banksian, Banks.; Yellow Banksian, Banks.; Bennett's Seedling, Ayrshire; Mme. Plantier, Gallica.

LORD PENZANCE'S SWEETBRIARS—Amy Robsart, Annie of Geierstein, Brenda, Catherine Seyton, Edith Bellenden, Flora Melvor, Green Mantle, Jeanie Deans, Julie Mannering, Lady Penzance and Lord Penzance, Lucy Ashton, Lucy Bertram, Meg Merrilies, Minna, Rose Bradwardine.

Key to abbreviations used in foregoing lists: Hybrid Remontants, H. R.; Hybrid Teas, H. T.; Hybrid Wichuraiana, H. Wich.; Hybrid Multiflora, H. Mfl.; Hybrid Noisettes, H. N.; Noisettes, N.; Teas, T.; Bourbon, B.; Austrian Briar, A. B.; Sempervirens, Spv.; Moschata, Mosch.; Banksian, Banks.; Polyanthas, Pol.; Arvensis, Arv.

Cultural Facts Should be Given.

Of all plants deserving special care and attentive culture, the rose, in my mind, is first. I regret that some of our growers and distributors to amateurs should state in their catalogues and guides on rose culture that the necessity of thorough preparation of soil, proper cultivation, etc., is a story of ancient belief, and that roses will grow in any soil, location and condition.

They will grow, yes, but will they flourish? Do not let us deceive and disappoint the lovers of roses for the sake of making easy money, for it is unjust and does not pay in the end, for, one disappointed customer will discourage many prospective buyers, while every successful amateur rose grower will induce and instruct all his friends and neighbors.

Let us tell the people that the rose is a great feeder and delights in a heavy loamy soil enriched by cow manure, and let us ask them to prepare their beds before planting to a proper depth, provide the necessary drainage, that thorough cultivation is better than continuous watering and sprinkling; in short, give them the information that will make them expert rose growers and we will make them happy and our friends forever. The real lover of roses will not shrink from the expense and labor involved in such culture and his success will convert others.

The very growers who advocate the planting of roses in any old way, seem to have to go away from home to find subjects fit for illustrations in their catalogues, intended to show good rose culture. Good rose culture, however, means good deep loam, renewed fertilization of well decomposed manure properly applied, frequent cultivation and appropriate watering at the proper time, etc. This is the treatment of the soil to which the building up and sustaining of the root system of the plant is entrusted.

Pruning.

The part of the plant above ground demands equal attention. Beginning in Spring we must induce and balance the growth of the flowering wood, by proper pruning, and to do this properly we must consider the habit, character and strength of the plants. Vigorous hybrid remontants we should relieve of all weak and superfluous wood, being satisfied with from 6 to 8 main shoots to a plant, and those we must cut back to from 5 to 7 eyes. Weaker plants we must prune more severely yet, cutting back to 3 or 4 eyes. The hybrid teas, which do better in a not too heavy soil, we must relieve of all weak and dead wood, and cut the remainder back 1-4 or 1-3 of their length. Teas and polyanthas, of course, we won't cut back at all except to remove old and dead wood, with the object in view to keep the plant vigorous by inducing and favoring a certain percentage of young growth.

General Attention.

During the flowering season we must constantly be on the watch. Passing flowers should be picked off every day and that before they drop all their petals. We can procure a second, and with some varieties of the remontants, an almost continuous crop of flowers, by pruning past flowering shoots radically back to 6 or 8 eyes during the Summer season.

We must supply the necessary atmospheric moisture to our plants by a thorough syringing from below, applied after sundown—a treatment to which the rose readily responds during dry weather. Such sprinkling, furthermore, at least partly overcomes the minor insect pests, such as the aphid, red spider and rose hopper. We must closely watch for the arch enemy of the rose, the chafer, and pick him off for his kerosene bath, while we have to crush the leaf-roller with unrelenting energy and thoroughness. Slugshot, hellebore, Bordeaux mixture, whaleoil soap and similar remedies must be on hand for ready use for other pests, mildew and other diseases, and must be applied in good season and effective manner.

Wintering.

For the wintering over of our roses we must take due precaution by providing the necessary cover. The most effective, in fact the only satisfactory method is to tie the shoots together and heap up the soil around the root-stock as high as possible, and if the plants are properly distanced, namely 2 feet to 2 feet, 6 inches for the H. R., and 16 to 20 inches for the H. T. such heaping is entirely feasible. Then after frost has set in put a good covering of manure around those hills and ordinary bedding or litter between them. In Spring remove the bedding, pull the manure down between the hills, rake your soil over it and do your pruning as soon as the eyes begin to break.

Standard roses I think are most successfully grown by lifting them every Fall and burying them in 18 inches or more of soil. Better yet, plant them in small tubs and bury tubs and all. Climbers can be bent down and buried in the ground. By this method the bark is however easily cracked if not very carefully handled, and the result is the loss of many of the main shoots. Thorough binding up in long straw with outside paper cover, therefore, seems the most advisable cover for climbers in need of such protection.

Time to Plant.

Where the Winter is not too severe, I consider Fall planting preferable to Spring planting—provided the planting is done in good season, say not later than November 15.

These in short are the general cultural directions under which I have seen the happiest results in the rigid climate of the East—Connecticut, for instance.

To us all these matters of culture are a matter of course, but for the amateur they are perplexing to begin with but should not be discouraging. No one to-day hesitates to acquire an automobile, not knowing the least thing about its mechanism or underlying principles of locomotion. To begin with he or she will be puzzled, but as gradually through experience and study the mechanism and working principles of the machine explain themselves, the amateur chauffeur becomes the self-confident master of this complicated creation of the professional machinist, and he not only runs the machine but attends to ordinary repairs and before long has some suggestions to make for improvements. Why should the same amount of intelligence not be able to solve the so much easier problems of competent and sensible rose culture?

Budded or Own Root Plants.

For instance, there is quite a difference of opinion as to the relative value of budded or grafted plants and plants on their own roots. I think we must all agree that budded plants are giving much better results as to vigor of growth and quality of bloom, but we realize that the average amateur grower may be better served with plants on their own roots, because there will be no danger of his losing his flowering plant through the unrecognized or unnoticed growth of wild suckers.

Now I think we ought to at least give our friends, the customers, credit for ordinary intelligence, by telling them that if they will compare the foliage of a

wild rose with that of a hybrid, they will soon learn to distinguish between a sucker and the real thing; and they will understand that by diligently removing the former they will have the very best results with the latter. Ardent lovers of flowers will be glad to learn that. For those who are too busy or don't care, the own root plants I admit may be better, but I believe it is only fair to state to the amateur the difference between the two, and let him have his choice.

If the roses are budded low, the stock eyes removed before planting and the roses planted good and deep, comparatively little sucker trouble will be encountered, and I for one shall want budded plants wherever I have something to say in this matter of choice.

One-Year Plants.

The planting of one-year roses, which if not especially advocated is at least widely advertised, is all right as far as it goes, but it must to a certain extent be misleading and disappointing to many amateur rose growers. The offer of one dozen rose plants for \$1. guaranteed to bloom the first year from June to October is certainly very attractive and tempting, but if this one dollar is the extent of the available funds for such investment, I would advise my customer to take 4 or 6 two-year old budded plants, plant them wider apart, be satisfied with a few flowers the first year and get the benefit of better and more blooms forever afterward.

The one-year old plants, which have been planted close, will, if they grow, crowd each other in no time, consequently should be transplanted the second or third year at the latest, which in most cases is not done. If they don't grow it is because the soil to which they have been transferred out of the pots is not congenial, and the plant in itself is not of sufficiently vigorous stock to overcome this change of soil texture and quality. Yet the buyer has planted them as directed—in any ordinary soil. The two-year old plant will fare better and give much more return and value in every case.

Before I leave the subject of one-year old plants I want to ask the question whether it is not a fact that those plants on their own roots are mostly Winter cuttings from more or less continually forced stock, and some of them second cuttings from rooted cuttings in the bench? If so, can it be reasonably expected that plants so produced will attain the vigor, productive quality and sustaining strength and hardiness so essential to outdoor culture? If not, is it not more or less a fraud on the public justifying the saying "Cheap cloth, tools or help are too dear at any price." I claim that all own-root roses intended for outdoor culture should come from soft or hardwood cuttings from outdoor plants. I say, propagate from good stock and offer good stock if you want to grow good roses and satisfy and retain your customers.

As already stated, I am not an expert rose grower and don't pretend to be, but I believe that here as elsewhere the underlying principle in securing good results is good structural foundation.

It is so evident that propagation from continuously forced plant stock and through too soft wood means degeneration and deterioration of quality and strength that I need not dwell on this subject any longer. The best proof of this statement is the rapid degeneration of so many varieties used for forcing for a period of 10 or even fewer years, compared with the same varieties grown outdoors and propagated from outdoor plants.

There is one thing the buyer of budded plants is pretty sure of, and that is, he need not fear to get in his purchased plants the weak, degenerated blood which he is apt to get by buying own root plants and so-called slips.

How to Help Rose Lovers.

To discuss such matters is the principal purpose of our gatherings. The question has been put by our executive committee, "What can the A. R. S. do to help the lovers of roses and the members of the society?" There are many ways of accomplishing the same purpose, provided said purpose is clearly defined and understood. To benefit the lover and amateur grower of roses we must reach him outdoors. We must stimulate and advocate outdoor culture, and educate those we reach with our pleas. To benefit the amateurs means to benefit the growers.

To encourage outdoor rose culture, I would suggest that we work along the following lines:

1. Suggest and advocate through our trade papers, and through all other possible means, the introduction of public rose gardens in public parks; not only in the large cities, but everywhere. Such gardens could be inaugurated and helped along through donations of plants by local growers and dealers, and where the experienced gardener is missing, help along this line might be furnished through the same sources.

2. Let the florists' clubs and other kindred societies of the country arrange for free lectures, giving the public plain, true and comprehensive instruction and information on the subject, and have, if possible, a rose show connected with the lecture.

3. Let each rose grower or nurseryman establish a small rose garden in which he practises good culture;

let him arrange for a rose show of his own, and invite his customers near and far to his grounds when the plants are at their best.

4. Let the American Rose Society direct, or through local florists' clubs, award prizes in medals or certificates to amateur rose growers for good cultures.

5. Would it be possible for the A. R. S. to establish somewhere in the Middle States in connection with a horticultural college or a reputable commercial establishment, an experiment station or trial ground, where new introductions could be tested as to their true value from all points of view, giving the varieties procuring a certificate from that station the value and distinction of high standard quality?

6. Would it be possible to have in that case a semi-annual convention at that trial garden; or could not at least a standing committee on novelties, or the executive committee, meet there every year in June to pass judgment on such plants as may be on exhibition there; and would not such reports be of great value to the grower as well as the amateur?

These are questions and ideas that have occurred to me during my services as a parkman for the last few years, and I beg to submit them to you for consideration and discussion. I know that every rose successfully planted and grown brings roses, smiles and happiness to some heart and makes it better, and I love to work with you all as a gardener in this garden of usefulness and uplifting happiness.

CLUB AND SOCIETY DOINGS.**LENOX (MASS.) HORTICULTURAL SOCIETY.**

The regular meeting of this society was held on Saturday, March 2, President Heeremans in the chair. The schedules for the June, August and Fall exhibitions were read and adopted. This being caruation night, it brought out some very fine exhibits. The following exhibitors were awarded first prizes: A. J. Loveless for an excellent vase of Robert Craig; F. Heeremans for Enchantress; A. McConnachie for Mrs. T. W. Lawson, the same exhibitor winning for a vase of mixed varieties. A. H. Wingett staged a vase of stock Queen Alexandra, which was much admired, some of the spikes being fully three feet in length; it was awarded a cultural certificate, a similar award being given him for two very fine vases of Souvenir du President Carnot, and Richmond roses. I may say that Richmond is doing remarkably well up here, although we have had a very dull Winter; all the growers speak highly of it. Three silver cups were offered and accepted by the society to be placed in competition at the Fall exhibition, Messrs. Henry A. Dreer, Philadelphia; R. & J. Farguhar, Boston, and E. Jaques of Lenox, being the donors. The following firms have also donated premiums: Messrs. Vaughan's Seed Store, A. T. Boddington, New York; Chas. H. Totty, Madison, N. J.; Julius Roehrs Company, Rutherford, N. J.; A. N. Pierson, Cromwell, Conn.; Bay State Nurseries, South Abington, Mass.; and Howard & Morrow, Pittsfield. The next meeting night is March 16.

G. INSTONE, Secretary.

THE COLUMBUS FLORISTS' CLUB held its regular first meeting of the month last Tuesday evening, in the Brent Building. President Stephens was in the chair. As has been the case for many meetings a goodly number of the members were on hand, and a very enjoyable session was held. It was finally decided that after a fair and proper notice by the secretary of the club, that the names of those in arrears should be dropped from the membership rolls. The matter of the forthcoming exhibitions was taken up, and from the enthusiasm of the members in regard to it, and especially with reference to a chrysanthemum show for the Fall, there can be no question as to the most successful outcome. The committee chosen to take charge of the chrysanthemum show, to be held in November, 1907, consists of M. B. Faxon, chairman, Albert Knopf, Guy H. Woodrow, Sherman F. Stephens, and James McKellar. The club has given its committee full power to do the proper thing next November.

As in previous years the club will again this season put up, and take charge of, the distribution of the penny packets of both flower and vegetable seeds to the children of the public schools. We have had the hardest kind of fighting the past two seasons to get a foothold here in Columbus in this school and home gardening project for children; almost everybody has opposed it—seedsmen, some of the members of the school committee and many others—but the movement has come to stay, and those who have backed it from the first are beginning to see daylight through the darkness. Mr. Faxon is to take charge of this seed packet distribution, and already the prospect is very bright for a successful outcome of the scheme for 1907.

At this meeting Vice-President Currie exhibited a very fine specimen of *Selaginella casia arborea*, for which the flower committee awarded him 15 points. Andrew Blum, who is with the Clover Hill Nurseries, was elected an active member. It was proposed, and met with the club's approval, that at a near meeting an entertainment be arranged with special reference to a ladies' night. We have many women members, and it is the earnest wish of all that they have their full and fair share of pleasure and profit from the meetings of this organization.

F. W.

NEW YORK FLORISTS' CLUB.—The meeting of the club on Monday evening, March 11, was well attended, and there was an interesting exhibit of roses and carnations. President Totty occupied the chair. Mr. Sheridan made a partial report for the dinner committee, stating that but forty-nine members were in attendance at the annual function, which he said was a most enjoyable affair. He hoped to report definitely at the next meeting. The following new members were elected: George W. Geraghty, A. R. Kennedy, Herman Pause and Wm. Eccles. George Baldwin, Seacucus, N. J., and F. Bolles, Brooklyn, N. Y., were proposed for membership. The resignation of Mr. John G. Phelps was received with regret.

Mr. Sheridan's motion to establish a committee on membership was held over until next meeting.

The motion of S. S. Butterfield providing for an appropriation of one hundred dollars to the outing committee, to obviate the necessity of the committee soliciting prizes for the children's and ladies' races, was lost by a vote of eighteen to twenty-four. In the course of the discussion Mr. O'Mara, who opposed the motion, spoke of the necessity of the club securing a home of its own, and urged the conservation of all the funds possible. The secretary of the outing committee stated that responses for advertising in the program, and also donations of prizes were coming in liberally, and he stated that it would be immaterial which way the motion was disposed of. At the same time it was noticed that he voted for the appropriation.

A pleasant feature of the proceedings was the presentation of a diamond-studded gold scarf pin to President John Scott, as a token of the club's appreciation of his work in the chair during 1906. Alex. Wallace, on behalf of the members made the presentation, the recipient suitably and feelingly replying.

A communication was received from Secretary Hammond of the American Rose Society inviting the members to the exhibition and meeting of that organization, held at Washington this week. Mr. Hammond was unable to be present at the club meeting to address the members.

Julius Rochrs, Jr., who was elected trustee, made a few remarks promising his best endeavors in behalf of the club during his term of office.

On motion of Mr. Guttman the matter of devising ways and means for securing a home was referred to the officers and the board of trustees, which action President Totty considered a step in the right direction. Robert Schultz facetiously inquired whether the home was for disabled or active members.

John Birnie then read his paper on "The Needs of New York City as regards a Plant Market," as follows:

Your essay committee has requested me to read a short paper on "The Needs of New York as Regards a Plant Market." It would be useless as well as tiresome to give in detail the efforts that have been made during the last 17 or 18 years by the plant growers who dispose of their produce in New York City to find a permanent market place suitable for their purpose. Suffice it to say that those efforts have been unsuccessful, and at the present time the growers are absolutely without a place where they can legally sell plants at wholesale.

That such conditions should prevail in a city like New York is deplorable, and shows that the Civic Government is delinquent and careless regarding the needs of the masses, who are the actual plant buyers and plant buyers. The argument that the majority of the plant growers are not citizens of New York City is humbug. The eggs that every New Yorker consumes for his breakfast are not laid on Broadway; neither is the celery which decorates the dinner tables of the 400 grown on Fifth avenue. The contention that "it won't pay" is also groundless, for notwithstanding high ground rent and other drawbacks the New York Market Florists' Association paid a dividend of 25 per cent. a year ago. However, the fact remains that a plant market for New York City is a crying need, and the subject is brought before the New York Florists' Club to-night for the purpose of eliciting suggestions as to ways whereby the desired object may be attained.

It is a subject that is of vital importance to every one in any way connected with the business, be he grower or retailer, and should interest every man and woman who has the welfare of the masses of New York City at heart. The denizen of the top-story tenement may forget to say his morning prayer, but he never forgets to water his window plant. This would suggest the idea that the introduction of plants into the homes of the masses would grow to such proportions that we would have reasonable plants to sell all the year round, as is done in European cities, some of which are much smaller in population than New York.

About 17 years ago a body of growers organized and called themselves the "New York Market Florists' Association." Four years ago this organization was incorporated under the laws of the State of New York. It has an office on Broadway, and has a paid attorney. The stock issued was \$5,000 which has only partly been subscribed for. I am of opinion that if all growers would join this organization, as it is obviously their

duty to do, subscribe for the stock not sold, and issue more, the more energetic taking office and helping those already in the harness to do the work, something could be accomplished which would be of benefit to all concerned.

We are still looking for a Moses to lead us out of the land of Egypt. Will the New York Florists' Club prove to be that Moses? Or, must we stay in Egypt for forty years?

The matter was discussed by Messrs. Janicke, O'Mara and Daly, the former referring to the plant markets in European cities and characterizing the conditions in New York as shameful, the gardeners themselves being lately to blame for such conditions. Mr. O'Mara pointed out that there was a probability of a new market being established in the near future near Gansevoort street, and it was possible that the plant growers might find stands there.

F. H. Kramer of Washington made an excellent exhibit of Queen Beatrice rose, and extended an invitation to the members to visit his houses during convention week. He spoke of the free-flowering qualities of this novelty and particularly of its keeping properties. Some of the flowers on exhibition still showed up well after having been cut for eight days.

H. Weezenaar of De Nys Brothers, Hillegom, Holland, gave an interesting talk on the method of cultivating bulbs in Holland. He stated that most of the travelers from America arrived in that country when the bulbs were in storage, and did not see the beauty of the fields when the flowers were in bloom. Land in Holland adapted for the cultivation of hyacinths, he said, runs from \$2,000 to \$3,000 per acre. The manure used amounted to something like \$1,000 an acre, in addition to which there was a big water tax, levied for service of the pumping engines, the water having to be pumped at certain seasons from the canals. This water is pumped some times at the rate of 20,000 gallons every minute, the various canals emptying into a large one which connects with the ocean. The water in the canals is so regulated that there is never an overflow at any time. The soil in which the hyacinth bulbs are planted is dug to a depth of three feet, the work being done in winter, the aim being to get as much frost as possible into the soil. When Spring arrives from 10 to 15 inches of pure cow manure is dug into the soil to a depth of one foot. In that soil are planted potatoes, peas or beans, either for seed or market. In the month of August the products are gathered. The same soil is then dug to a depth of 1-2 feet, cow manure being again applied to it. The beds are rounded and there is a ditch of about 1-2 feet broad and deep, dug along the sides of the beds to carry off the water. The bulbs are planted from 2 to 2 1-2 inches deep. The beds are then covered with reeds to a depth of 10 inches. This covering is not put on until the severe weather is past, the object being to secure freezing. Part of the mulch is removed after January, and the crops are hardened as much as possible, the mulch remaining being entirely taken off when active growth shows.

During the last two years the crop of hyacinths has only been middling. This, the speaker thought, was on account of the bulbs not having been properly ripened or well enough matured. He had found that growers all over the United States were experiencing trouble with their hyacinth bulbs and his opinion was that what he had stated was the cause of this.

As regards tulips, he stated that these bulbs were generally grown in the same place where the hyacinths had been cultivated. After the hyacinths are taken out, the soils prepared and some liquid manure afforded. After the tulips are taken off, the land is allowed to lie until the next Spring and vegetables are grown upon it, thus forming sufficient additional manurial ingredients for the tulips. It is the same with crocuses.

When it comes to daffodils, these do not require any manure at all. They enjoy a rich, peaty, fresh soil. Daffodils are grown best in places where the land has formerly been meadow or pasture soil. That soil is dug to a depth of one foot, soot having been scattered over it previously, then the daffodil bulbs are planted therein. This gives a better crop than any other bulb soil used in Holland. Daffodils do not succeed well in sandy soil, the best bulbs being raised in one containing two-thirds humus and one-third sand. Daffodils are grown extensively in the Channel Islands, but there they do not get the size the bulbs attain in Holland. The Dutchmen import lots of small bulbs from the Channel Islands and "blow them out," that is, give them shape and size after one or two years.

Mr. Weezenaar then spoke of the opportunities for pushing orchids in America, as he saw them, and thought that this had only to be done in order to educate the popular taste for flowers other than roses and carnations. He believed that some of the American millionaires would part with their money for orchids as easily as did some of the fanciers in Europe; and he told an interesting story of how the famous Cypripedium Pittianum came to be re-sold for £1200, making a profit of about £400 to the original purchaser.

After extending votes of thanks to the various speakers of the evening, the meeting adjourned at 11 p. m. The exhibition committee reported the result of its recent visit to the establishment of Anton Zvolanek,

sweet pea specialist, Bound Brook, N. J. Certificates of merit were recommended for the following varieties of sweet peas: L. Marquis, deep violet of Princess of Wales violet shade; Mrs. Alexander Wallace, light lavender; William J. Stewart, deep blue; and Mrs. William Sim, salmon pink. The variety Helen M. Gould the committee desired to see again; and Mrs. Dolansky was not in condition to be judged at its best.

F. H. Kramer of Washington, D. C., made quite an elaborate display of the new rose Queen Beatrice which he is introducing to the trade, and under the artificial light it proved quite attractive and gained much favor with those who saw it. It seems to be all that is desirable in length of stem and keeping qualities, and the introducer assures us that it is a very free bloomer. The award committee granted to the variety a preliminary certificate. Paul Niehoff of Leighton, Pa., again sent a vase of his new rose Aurora, and the flowers were in much better shape than any of this variety that have previously been exhibited. This also was awarded a preliminary certificate. E. H. Pye of Nyack, N. Y., showed an excellent bunch of the rose Kaiserin Augusta Victoria, for which he was awarded a cultural certificate. It is something unusual to see such good blooms of Kaiserin at this time of the year as Mr. Pye staged, and that gentleman informed us that the plants had been grown in quite a low temperature considering what is afforded to roses at the present time, and stated that he is cutting very freely blooms of the same quality as those shown. M. Tierney exhibited a vase of his new scarlet carnation, Mrs. Robert Hartshorne, which was scored 80 points by the award committee. A. Demeusy of Clarkson street, Brooklyn, N. Y., again showed his crimson seedling carnation, for which he received a preliminary certificate at the December meeting. The flowers were even in better form than those he staged in December, and as a preliminary certificate had already been awarded this variety, which is as yet unnamed, the committee can go no further in the matter until the variety has been seen growing at Mr. Demeusy's establishment.

Maxfield & Dimond, Warren, R. I., sent on a box of their M. & D. artificial caryxes for inspection by the members. Most of the carnation growers took a few of them home and are, no doubt, making practical experiments with this new appliance for saving carnations from splitting. W. C. Krick of Brooklyn, well-known manufacturer of Krick's letters, pot hangers, plant stands, etc., staged a bunch of carnations dyed various shades of green.



Lawrence Heint.

Lawrence Heint, one of the pioneer florists of Terre Haute, Ind., died at his home there last week.

Mr. Heint was born in Austria in 1840, and came to this country when 14 years of age. He was a member of the Nineteenth Indiana Battery, and served with credit until wounded at Perryville, Ky., when he was honorably discharged. He went to Terre Haute in 1863 and since that time had been engaged in the florist business. He is survived by a widow and three brothers, Joseph, Jacksonville, Ill.; George, Toledo, Ohio, and John G. of Terre Haute.

The funeral services were conducted by the Terre Haute Commandery No 16, Knights Templar, Morton Post No. 1, G. A. R., Eastern Star, Terre Haute Lodge No. 19, F. and A. M. Burial was at Highland Lawn Cemetery.

William Griffin.

William Griffin, for years a member of the firm of Griffin Brothers, florists, of Frankford, Pa., died Thursday, March 7, 1907, at his home, No. 4915 Willow street, after a long illness. He was 58 years old and had lived in Frankford all his life. He retired from active business some time ago and spent several months in Europe in search of health. He was a member of the School Board of the Twenty-third section and a vestryman of St. Mark's P. E. Church. He was buried on Monday afternoon with Masonic honors. The services were held in St. Mark's Church. A widow survives him.

John C. Garden.

John C. Garden, of Anacostia, died at his home on Minnesota avenue, on March 11, aged 57 years. Deceased was the eldest son of the late Alex. B. Garden, and half brother of Alex. B. Garden, the well-known grower of Washington, D. C. He came of a large family of Scotch florists and in the old country was apprenticed to a gardener. After coming to America he turned his attention to growing vegetables and bedding plants.

J. L. C.

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Price \$6.00 43 W. 28th St. Grower, LYNBROOK, L. I. per 100. \$50.00 per 1000.

Britannia. Bright scarlet of large size, similar but better in every point than Victory. Premier vases of scarlet W. F. C. S. £5 per 100 for plants in pots; 25 at 100 rate.

Dutton's White Lawson Improved. This variety sported at Bexley Heath; quite distinct from American sport; has improved Lawson habit longer stem, greater perfume, and if possible freer in flower. The best market white, size equal to White Perfection; for all round points has no equal. £5 per 100 for plants in pots; 25 at 100 rate. The best two English novelties for 1907.

A. F. Dutton, The Nurseries, Iver, Bucks, England

ROOTED CARNATION CUTTINGS READY NOW

Strong, healthy and Thoroughly Rooted Cuttings of the following varieties:

	100	1000		100	1000
Victory (scarlet)	\$6.00	\$50.00	Lieut Peary (white)	\$3.50	\$30.00
Robt. Craig	6.00	50.00	Lady Bountiful	3.00	25.00
Red Sport	3.00	25.00	White Lawson	2.50	20.00
Enchantress (pink)	2.50	20.00	Boston Market	2.00	15.00
Lawson	2.00	15.00	Queen	2.00	15.00
Mrs. M. A. Patten var.	2.50	20.00	Queen Louise	2.00	12.50

Remember we guarantee satisfaction.

250 of any one variety at 1000 rate. Write for discount on large orders.

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

Rooted Carnation Cuttings

	Per 100	Per 1000		Per 100	Per 1000
White Perfection	\$6.00	\$50.00	The Belle	\$2.50	\$20.00
Light Pink Lawson	6.00	50.00	Lady Bountiful	2.50	20.00
Glendale	5.00	40.00	White Lawson	2.50	20.00
Victory	5.00	40.00	Enchantress	2.50	20.00
Robert Craig	5.00	40.00	Nelson Fisher	2.50	20.00
Flancee	3.50	30.00	Harry Penn	2.00	15.00
Cardinal	2.50	20.00	Mrs. T. W. Lawson	1.50	12.00
			Boston Market	1.50	12.00

250 at 1000 rates.

ASPARAGUS. Ready for shift, strong.
ASPARAGUS SPRENGER. 3 inch \$4.00 per 100; 4 inch \$6.00, 5 inch \$20.00.
ASPARAGUS PLUMOSUS. 3 inch \$5.00, 6 inch \$20.00. Cash or C. O. D.

W. J. & M. S. VESEY, Fort Wayne, Ind.
 Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

READY FOR IMMEDIATE OR LATER DELIVERY

Victory, \$5.00 per 100; \$50.00 per 1000
 Lady Bountiful, \$3.00 per 100; \$25.00 per 1000
 Variegated Lawson, \$4.00 per 100; \$30.00 per 1000
 Pink Patten, \$5.00 per 100; \$40.00 per 1000
 Enchantress, \$2.50 per 100; \$20.00 per 1000
 Boston Market, \$1.50 per 100; \$12.50 per 1000
 Carnation Specialists,
JENSEN & DEKEMA 674 West Foster Ave., Chicago, Ill.

DREER'S UNRIVALED STRAIN

—OF—

DOUBLE PETUNIAS

ROOTED CUTTINGS BY MAIL 100

White, pink, red, crimson and variegated...	\$1.25
Cuphea (Cigar Plant)	.75
Abutilon, New French Dwarf, B. C.	1.50
Ageratum, 4 varieties	.75
Strobilanthus Dyerianna	1.25
Heliotrope, Dark	1.00
Hibiscus, R. O.	1.50
Lantana, trailing	1.25
Moon Vine, Smith's Hybrid Seedlings	2.00
Scarlet Sage, tall and dwarf	1.00

PLANTS

Dracaenas Indivisa, 24 to 3 feet high \$15.00 and \$25.00 per 100.

Shasta Daisy, 3 in. 3.00
 Cash with order please.

GEO. J. HUGHES, BERLIN, N. J.
 Mention the Florists' Exchange when writing.

STRONG SMILAX Seedlings

\$3.50 per 1000

W. A. COWGILL, Salem, O.
 Mention The Florists' Exchange when writing.

CARNATIONS

Strong, healthy, well rooted stock

	per 100	per 1000	per 1000
White Lawson	\$5.00	\$25.00	\$3.50
Bountiful	3.00	25.00	3.50
Cardinal	2.50	22.50	3.00
Enchantress	2.50	22.50	3.00
Lawson	2.00	15.00	2.50
Harlowarden	2.00	15.00	2.50
Queen	2.00	15.00	2.50
Boston Market	1.50	12.50	2.00

Cash with Order. Satisfaction guaranteed.

SMITH & GANNETT
 Geneva, New York

CARNATIONS—ROOTED CUTTINGS

	100	1000
ENCHANTRESS	\$2.50	\$20.00
WHITE LAWSON	2.75	23.00
MRS. T. W. LAWSON	1.50	12.00
QUEEN	2.00	15.00
VICTORY (Strong plants from soil)	5.00	45.00
PEARY	3.00	25.00
VERBENA VILMORIANA, imported stock from 2 1/2 in. pots (upright grower), \$5.00 per 100.		

H. A. MOLATSCH & SON - Nanuet, N. Y.
 Mention the Florists' Exchange when writing.

Ready Now—Rooted Cuttings

Of Enchantress, \$2.50 per 100; \$20.00 per 1000.
 The best commercial light pink Carnation on the market. 1000 rooted cuttings of Robert Craig \$3.00 per 100; \$50.00 per 1000. A very nice red, just the right color for Christmas. Our stock is O. K. Write for price list of other standard varieties.

VALLEY VIEW GREENHOUSES, VILLIE BROS., Props., Marlborough, N. Y.
 Mention the Florists' Exchange when writing.

Rooted Cuttings HELIOTROPES (dark), good stock strong and well rooted, 60c. per 100; \$5.00 per 1000.
AGEATEM, PRINCESS PAULINE, well rooted, 60c. per 100; \$4.00 per 1000. Cash.
J. F. CANNATA, Mt. Freedom, N. J.

ROOTED CARNATION CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
MRS. LAWSON	\$2.00	\$15.00	WHITE CLOUD	\$1.25	\$10.00
GUARDIAN ANGEL	1.50	10.00	FRED BURKI	2.50	20.00
ENCHANTRESS	2.50	20.00	HARLOWARDEN	2.00	15.00
LIEUT. PEARY	3.00	25.00	CHICAGO	1.50	12.50
BOSTON MARKET	1.50	11.00	ESTELLE	2.00	15.00
			RED SPORT (MACEO)	2.00	15.00

CHRYSANTHEMUMS

CLEMENTINE TOUSET (Early Chadwick), finest early white, \$2.50 per 100. R. C. ready now. We have the largest stock in the country of this fine variety.

ROSES from 2 1/2 inch pots

	Per 100	Per 1000		Per 100	Per 1000
BRIDES	\$3.00	\$25.00	CHATENAY	\$3.00	\$25.00
BRIDESMAIDS	3.00	25.00	UNCLE JOHN	3.00	25.00
RICHMOND	3.00	25.00	KAISERIN AUG. VIC.	4.00	35.00

WIETOR BROS.

Wholesale Growers of Cut Flowers

51 Wabash Avenue, CHICAGO

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS.

From Prize Winning Stock, clean and healthy. First Class in every respect.

HERE IS OUR LIST.

	Per 100	1000		Per 100	1000
Red Riding Hood scarlet	\$12.00	\$100.00	Bountiful	\$3.00	\$25.00
Daybreak	6.00	50.00	Lieut. Peary	4.00	30.00
Helen Goddard	5.00	45.00	Cardinal	4.00	30.00
White Lawson	3.00	25.00	Red Lawson	4.00	30.00
			Variegated Lawson	3.00	25.00

White Perfection. The best White at the shows. Our stock won in every entry. We have the largest stock of White Perfection in the country.

Ready for delivery NOW. FIRST-CLASS Rooted Cuttings at \$6.00 per 100; \$50.00 per 1000.

Aristocrat, beautiful Cerise, the best Variety disseminated this season, April 1st. \$2.00 per 100; \$100 per 1000.

CHICAGO CARNATION CO.

A. T. PYFER, Manager.

JOLIET, ILL.

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The leading scarlet, Lilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place.
 ROOTED CUTTINGS, \$6.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa.
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CARNATION CUTTINGS

5000 ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000.
 2000 JOHN E. HAINES, \$5.00 per 100; \$45.00 per 1000.
 1000 ROBERT CRAIG, \$6.00 per 100; \$50.00 per 1000.

WHITE BROS., Gasport, N. Y.
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CARNATIONS ROOTED CUTTINGS

Ready Now—Prompt Delivery.

Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000.

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Don't Throw Away Your Easter Profits
 Save your Pinks from splitting by using the M. & D. Artificial Calyx. Easily applied and removed; lasts forever; first cost the only cost.
 \$1.75 per hundred, \$15.00 per thousand, 25¢ of thousand and rates.

Sent for MAXFIELD & DIMOND, Mant. Pa. Sep. 18, 1906.
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Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

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The Wholesale Florist of New York.
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LOOK HERE

ROOTED CARNATION CUTTINGS
250 at 1000 rate

LADY BOUNTIFUL, WHITE LAWSON, VARI-
GATED LAWSON, \$3.00 per 100; \$25.00 per
1000.

MRS. PATTEN, ENCHANTRESS, \$2.50 per 100 ;
\$20.00 per 1000.

BOSTON MARKET, FAIR MAID, QUEEN
LOUISE, HARLOWARDEN, PROSPERITY,
MRS. LAWSON, \$2.00 per 100 ; \$15.00 per
1000.

HELEN GODDARD, \$5.00 per 100.

WILSON MARSHALL, Red Seedling, \$5.00 per
100; \$45.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE,
BRIDGEPORT, CONN.
Mention the Florists' Exchange when writing.

CARNATIONS

Rooted cuttings Victory, \$9.00 per 100; \$90.00
per 1000; Enchantress, Bountiful, White
Lawson, Var. Lawson, Patten, \$2.50 per 100;
\$20.00 per 1000; Mrs. Lawson, Boston Market,
Queen, H. Fenn, and Fair Maid, \$2.00 per
100; \$16.00 per 1000. 6 per cent. discount for cash
with order.

R. ENGELMAN & SON, Pittsfield, Mass.
Mention the Florists' Exchange when writing.

White Enchantress

white sport of Enchantress, rooted
cuttings \$12 per 100; \$100 per 1000.

E. SCHRADER
NEW SPRINGVILLE, Richmond Borough, N. Y.
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS
March and April Delivery

CARNATIONS and GERANIUMS

Send for list of varieties and prices.

ALBERT M. HERR, LANCASTER, PA.
Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings

GUARANTEED
From strong, healthy plants, including
T. LAWSON, LORD and QUEEN
LOUISE; for sale cheap.

A. N. KINNEY
W. 200th St. on Ft. Wash. Ave. NEW YORK
Mention the Florists' Exchange when writing.

CARNATIONS

FINE, STRONG PLANTS

Robert Craig, 1 1/4 in. pots.....	100	1000
Variegated Lawson, 1 1/4 in. pots....	\$6.00	\$50.00
Victory, 1 1/4 in. pots.....	3.00	25.00
Victory, 1 1/2 in. pots.....	6.00	69.00

ROBT. C. PYE, NYACK-ON-HUDSON, N. Y.
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Carnations

Rooted Cuttings of all the new intro-
ductions of 1907 as well as standard com-
mercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa.
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S. J. GODDARD

Framingham, Mass.

Rooted Carnation Cuttings a Specialty.

Correspondence Solicited.

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WELL ROOTED HEALTHY STOCK

CARNATIONS

Well Rooted Cuttings

	PINK	Per 100	Per 1000
Lawson.....	\$1.50	\$10.00
Nelson.....	1.50	10.00
Nelson Fisher (cerise).....	2.50	22.50
LIGHT PINK			
Enchantress.....	2.50	22.50
VARIEGATED			
Mrs. Patten.....	2.50	22.50
WHITE			
Boston Market.....	1.25	10.00
White Lawson.....	3.00	25.00
RED			
Robert Craig.....	6.00	50.00
Cardinal.....	2.50	20.00
Estelle.....	2.00	17.50

ROSES

Strong and Well Rooted Cuttings

	Per 100	Per 1000
Richmond.....	\$1.50	\$12.50
Liberty.....	2.00	17.50
Bridesmaid.....	1.50	12.50
Bride.....	1.50	12.50
Sunrise.....	3.00	25.00
Uncle John.....	1.50	12.50
Chatenay.....	1.50	12.50
Ivory.....	1.50	12.50
Perle.....	2.00	17.50

ROSE PLANTS

From 2 1/2 inch Pots.
Ready for Shipment.

Richmond.....	\$3.00 per hundred
Bridesmaid.....	
Uncle John.....	
Chatenay.....	\$25.00 per thousand
Brides.....	
Ivory.....	
Liberty.....	\$4.00 per hundred
Perle.....	\$35.00 per thousand
Sunrise.....	\$5.00 per hundred
	\$40.00 per thousand

Killarney 2 1/2 inch pots Crafted Stock. \$12.50 per Hundred BENCH PLANTS

One year old plants from Beaches, Liberty, Ivory, and Perle. \$5.00 per hundred, \$40.00 per thousand.

AMERICAN BEAUTY. \$10.00 per hundred, \$75.00 per thousand

PETER REINBERG, NO. 51 WABASH AVENUE, CHICAGO

Mention the Florists' Exchange when writing.

MABELLE-- New Pink Carna- tion for 1907

Color--A peculiar shade of lovely pink, with a faint
yellowish cast; several shades lighter than the Lawson,
Unlike most pinks, the brightest sun does not injure the
color. Size--Three to four inches in diameter when es-
tablished. Odor--Pleasant, but not strong. Stems--
Invariably strong, but always graceful, ranging from
12 to 30 inches during the season. Habit, etc.--A very
quick active grower, making specimen plants in a short
time, even from late cuttings. On account of its rapid
growth, requires supporting very soon after benching.
Gets away rapidly, blooms early and gives long stems
right from the start. Productiveness--Prodigious is
the best word we know of to use here. It is the most
incessant bloomer early and late, we have ever grown.
Stock limited. No discount. First class certifi-
cates Madison and Indianapolis. Delivery Jan. 5th to 10th
and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD.

Mention the Florists' Exchange when writing.



SAVE YOUR SPLIT CARNATIONS

The Bear Clip and Plier will do it in a BOS-
NESSLIKE manner at a minimum of time and ex-
pense. Saves lots of money. Inexpensive in-
stantaneously applied and Practically invisible.
The Clips are made of galvanized wire and are
colored green just the color of the calyx and can
hardly be detected. Thoroughly re-liable in
every particular.

Plier \$3.00; 1000 Clips \$1.00, postage prepaid.
All the leading dealers in Florists' Supplies, or
direct from

BAUR FLORAL CO., Erie, Pa.
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

	Per 100	Per 1000
WHITE--Queen.....	\$1.60	\$12.50
PINK--Pink Patten.....	\$4.00	
Helen Goddard.....	\$4.00	
Ethel Ward ready about Mar. 25.....	\$1.50	\$12.50
Harry Fenn ready about April 1.....	\$1.50	\$12.50

All others sold out for the season. I thank the
Florists for their generous patronage.
QUIDNICK GREENHOUSES
J. H. CUSHING, Prop., QUIDNICK, ANTHONY, P. O. R. I.
Mention the Florists' Exchange when writing.

UNROOTED

CARNATION CUTTINGS

LARCHMONT NURSERIES, Larchmont, N. Y.
Mention the Florists' Exchange when writing.

Beacon Carnation

At its best
from
Nov. 1st
to
April 1st.
Just when
Scarlets
are in
demand.

Orange Scarlet

Has been proved
to be the Most
Profitable Com-
mercial Scarlet.

Causes you
no fret
and worry
to get
returns.
It works
for you
right
along.

PRICES:

Per 100, \$12.00.....	50 at 100 rate	Per 5000.....	\$90.00 per 1000
Per 1000, 100.00.....	250 at 1000 rate	Per 10,000.....	80.00 per 1000
Per 2500, 95.00.....	Per 1000	In lots of 20,000 or more, cash with order.....	\$75.00 per 1000

March Delivery.

Cottage Gardens Peter Fisher,
Company, (Originator)
Queens, N. Y. Ellis, Mass.

Mention the Florists' Exchange when writing.

REVIEW OF THE MARKET

NEW YORK.—Business in cut flowers has undergone little change since our last report. American Beauty roses of the best grade continue scarce, though there are quite a few long-stemmed flowers coming in that are malformed and off color, which have to be sold at figures much below our quoted prices. Short grades of Bride and Bridesmaid clear out better than do the special grade stocks of these varieties. This fact would seem to indicate that most of the work for which these roses are bought is of a funeral nature.

Carnations are quite plentiful, and there is not any material change in their values over our last week's quotations. Bulbous stock of all kinds is coming in quite heavily and prices realized are anything but satisfactory. Gardenias and orchids meet with but indifferent demand; and the same remarks apply to sweet peas, lily of the valley and lilac. Violets, both double and single, are quite a glut at times and are sold at extremely low figures. The most of these are handled by the peddlers just now, and when the weather is stormy there is little demand for the flowers from that source even.

The plant trade throughout the city is also in an extremely quiet state just now.

CHICAGO.—With Easter but two full weeks and a fraction away and Lent accordingly within less than twenty days of its close, with the majority of the days more than satisfactory to flower producing and consequently with large shipments along general lines continually arriving the market has on the whole shown quite a tendency to strengthen of late. To be sure prevailing prices are low and the actual demands where stock must be had by the purchaser are so uncertain that immense quantities of goods are the subject of barter which makes the prices uncertain and difficult to quote with accuracy. Local men have shown an inclination to plunge in large lots since the surplus has broken the high prices as proven by one sale witnessed a few days since when a retailer bought from one house alone 26,000 violets for \$32.00 and 3,500 good carnations for \$52.50, of which \$104.50 worth of flowers probably not one cent's worth was engaged.

The actual condition of the market has not changed in any particular line nor to any great extent from that reported for the past two or three weeks so far as prices are concerned, but the public must be buying more freely, as the large invoices do not forecast the glutty tendency which was a feature of the very recent past.

A marked feature of the trade in the early part of this week was the scarcity of white carnations, generally attributed to a reservation of that stock being made by growers in anticipation of the large increased demand and price for dyeing green for St. Patrick's Day. Green goods are still in strong demand compared to the supply and realize good prices. W. K. W.

ST. LOUIS.—Trade as reported last week continues good in all branches. The weather has been exceedingly mild and clear the past week which brought good business from the downtown shoppers. There were quite a few weddings and plenty of funeral work, so from what we can learn from most of our retailers, Lent did not hurt any this year, so far. Roses are coming in more plentiful than for some time past and prices have gone down quite a bit on extra fancy. Bride and Bridesmaid run to \$10 per 100. Killarney, Richmond and Mme. Abel Chateau are same in price. Fancy American Beauty are \$6 for top price; in other grades, \$1, \$2 and \$3 per dozen. Carnations are in abundance in all grades. The ruling average price is \$2 to \$3 per 100 for the best in 100 lots. In 1000 lots, a cent cheaper. Enchantress are extra fine in color. So are Nelson Fisher and Prosperity. White Perfection and Lady Bountiful are the ruling varieties in white. Aristocrat, Mrs. Lawson and Robt. Craig sell well. Bulbous stock is still plentiful in all lines, especially lily of the valley and Von Sion and Dutch hyacinths; Paper White narcissus and Roman hyacinths, not too many. Tulips in light colors sell well. Longiflorum and Harrisii are somewhat scarce. For callas, \$12.50 to \$15.00 per 100 is asked. California violets have been over plentiful of late but to-day the market is a bit tight on them. The growers, no doubt, are shading them to hold out for Easter. Sweet peas sell well, when long in stems, at \$1 per 100; 50c. for shorts. Smilax had a big call last week. So did Asparagus and other fancy greens. ST. PATRICK.

BOSTON.—As might be expected during the middle of the Lenten season cut flowers of all kinds are stocking up and in some instances certain kinds are much too plentiful. American Beauty roses are, in fact, about the only flower of which there is any scarcity. Other roses are now in good supply, and sell at low prices; from \$2 to \$8 being the prices continuing all the week. Violets are more abundant than at any time during the season. Sweet peas are also very plentiful; in fact, so much so that prices are not one quarter what they were two weeks ago. There is an over supply of carnations. Lilies sell slowly, and so do all kinds of bulbous stock. Lily of the valley sells fairly well at \$2 and \$4. Mignonette brings \$1 to \$2 for small. Some fine snapdragons are seen. Hardy cut ferns are very scarce, but other greens remain about in normal supply. J. W. D.

ST. PAUL.—Trade the past week has been very unsteady and the general report is that it was somewhat quiet; outside of a few good orders for funeral flowers little has been doing. Stock of all kinds is as good as we have had it at any time during the season. Roses are especially fine. Carnations are also in good condition and the cut has been unusually heavy. Considerable bulbous stock is offered at very close prices; daffodils and tulips at \$2 per 100 and occasionally a lot could be bought at \$1. A number of lilies are used for display; but the general report is that very few church orders have been booked for Easter. In all probability this week will change conditions materially and one can count on an active demand for Easter orders. While Easter is somewhat earlier this year, the growers all appear to be prepared for it. While it is probably early to make any predictions it appears evident that the lily supply is not to be any too heavy and the general impression of the growers is, that we are not to have enough. PAUL.

COLUMBUS.—For many weeks now every member of the trade has had nothing but enthusiastic praise to offer as regards the state of affairs in business that has been done. The only drawback has been the shortage of stock, which at times has worked great hardship to many of us; in fact, we have had days when there were absolutely no roses in the city and very few carnations. Of course the state of affairs owing to practically no sun from the first of December until well into this month, has prevailed everywhere; it has only been for the past two weeks that stock has again begun to come forward freely. Had it not been for a splendid lot of bulbous flowers we should have been obliged to have stopped filling orders. As it was, the result has been advanced rates at both wholesale and retail, which will be easily now maintained until the end of the season, as customers have become used to them. Carnations bring 75c. to \$1 a dozen, and sell out clean every day. The same may be said of carnations at \$1.50 to \$2.50 a dozen, except American Beauty, which bring up to \$6 per dozen and would easily realize a larger price could stock of a higher quality be obtained. Violets have been in large demand, especially for St. Valentine's Day, and fine ready buyers, in bunches of various sizes, at \$1 to \$2 per hundred. Tulips, hyacinths, narcissus and other bulbous stock, which is in large supply and of very fine quality, bring 75c. a dozen, and large quantities are used in funeral work. Callas are now coming in quite freely, and bring 25c. each; lily of the valley sells at \$1 a dozen and is in great demand. Green rods of all kinds never sold better; especially has there been a large demand for smilax, which has been selling at 35c. per two yard string.

In roses Uncle John and Liberty at \$2 per dozen are having a great run, also are Bride and Bridesmaid at the same price. As regards over-the-counter trade, it has been the briskest in a very long time; and as good prices have ruled, this branch has been especially profitable—as it is all cash. F. W.

WEYMOUTH, MASS.—Colonel William W. Castle was awarded a verdict of \$700 by a jury in the Norfolk Superior Civil Court at Dedham on February 14, in a suit against the Boston Steam Specialty Company. He sought to recover \$2000 for the failure of the defendant company to carry out a contract to install a certain heating system in his greenhouse in 1903, by the failure of which his plants, including a number of orchids, were destroyed.

INDIANAPOLIS, IND.—It is well that counter trade is brisk and funeral work at times heavy, as there is much stock brought to market and prices generally have receded. The dearth of decorative work still continues and it has been several years since this end of the business has had so little to do. Bulbous stock in occasionally offered at prices which do not permit a profit for the grower, \$2.00 to \$3.50 a hundred are the best figures obtained for well-grown flowers. Roses have been brought on rapidly by the bright weather, but prices remain about the same, namely, \$10.00 a hundred for the best Bridesmaid, Bride and Golden Gate; \$8.00 to \$12.00 for excellent Richmond and \$5.00 to \$35.00 for American Beauty, which are off crop. Carnations, white, excepted, are everywhere in abundance. The best, such as Enchantress, are many times offered at \$2.00 to \$2.50 a hundred. The small surrounding towns are offering their surplus at this season for almost any prices obtainable. Large spikes of Antherinum find a ready market at \$10.00 per hundred. Sweet peas in liberal quantities are offered daily at 75c. to \$1.00 a hundred.

Forget-me-nots, freesias, lilacs, daisies and orchids lend variety to the market. Specimen plants of numerous varieties are seen in the shop windows. It takes little inducement to sell them in place of cut flowers to the better class of customers. I. B.

TORONTO.—Business continues good. Bulbous stock is very plentiful and cheap; in fact, some of it is sold at wholesale so cheap that one wonders how the growers can get enough out of it to pay for the bulbs. Roses are coming in very good and the best are none too plentiful. Carnations are both good and abundant, and far too many have lately found their way to the ash barrel. Lilies are arriving freely and the demand for them is fairly good.

All our retail stores are showing quantities of stock, but very few of them complain of poor business. The prospects for Easter are bright. Lilies will most likely be fairly plentiful. The best growers are holding them at 10c. to 12c. per bud and bloom, while some are already offering them as low as 8c. per bloom. Roses promise a good crop. Violets and carnations are also expected to be fairly plentiful, but there is not likely to be quite enough to go around. Bulbous stock will be in ample supply. In plants there is likely to be a shortage in spiraeas, as a good many of them have turned out poorly. Azaleas will be in fair supply. There are also likely to be some good pot roses offered.

Wm. Hill of George street is just now showing some well-grown Cattleya Trianae in his window; the plants and blooms are well done.

The weather has been quite Spring-like the last few days and our seed houses are getting quite busy.

Quite a number of our Dutch friends have been in the city, and they all report business good, so I suppose they must get paid for their bulbs, even if the growers don't make anything out of them at the present prices.

THOS. MANTON.

FIRMS WHO ARE BUILDING.

ADAMS, MASS.—T. D. Brown intends erecting two new houses this season, and installing a new boiler.

EAST HAMILTON, MASS.—A greenhouse has been erected here by Wallace Knowlton; he will grow tomato, cabbage, and lettuce plants for the market.

NEW LONDON, WIS.—E. H. Olson, the proprietor of the New London Greenhouses, states that as soon as the frost is out of the ground he will begin on the foundations of buildings which will about double the capacity of his business. His present plant now consists of two buildings each 22 x 75 feet. Upon the east end of these, additions of the same width and 32 feet long will be erected. Besides these, Mr. Olson states that it is probable that he will also build a palm house extending across the west end of his property the side of the street to be constructed of glass.

ALBION, MICH.—A. H. Dew will erect two new greenhouses. One house, 37 x 100 feet, to be of steel truss construction will be devoted to carnations. The other house, 27 x 100 feet, will be built of air dried gulf cypress, and will be planted to roses, chrysanthemums and violets. In addition to this, the Albion Lumber Company has a contract for the material for a store, 20 x 64 feet, to front on Perry street, where Mr. Dew will conduct his retail business. He will also pay considerably more attention to his wholesale trade. The large additions planned this will necessarily amount to considerable. Mr. Dew has closed twelve years of prosperous business in Albion, and his friends congratulate him on his success.

CHANGES IN BUSINESS.

ROCKFORD, ILL.—H. S. Morton has bought the Wisner greenhouses and will operate them in future.

ELYRIA, O.—The L. C. Hecock Floral Company, has been incorporated by Louis E. Hecock, John E. Hecock, Louis E. Suthoff, Earl E. Smith and E. A. Phipps.

WILKESBARRE, PA.—Misses Mayme Mooney and Margaret Weir, two of the city's most popular young women, have completed all arrangements for embarking in the florist business. The young ladies have secured the site formerly occupied by Mrs. Ellen O. M. Barret, on North Franklin street, and are now making the necessary preparations for an elaborate opening.

RIVERSIDE, CAL.—The Chase Nursery Company and the Chase Rose Company have both abandoned their business here, torn down their greenhouse, and sold pots and other material to the Orange County Nursery and Land Company. They have 1,700 acres of citrus fruits, now in full bearing, which not only occupies the ground, formerly devoted to the nursery business, but also all the time and energy of the firm. P. D. B.

PETUNIA "THE QUEEN"

This is something new in the PETUNIA order, a new double extra fine, that requires no staking, 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100.
COLEUS, Golden Bedder, and other varieties, rooted cuttings, 60c. per 100; \$5.00 per 1000.
FUCHSIAS, in variety, 2 1/2 in. pots, \$3.00 per 100; R. C., \$1.50 per 100.
HELIOTROPE, in variety, 2 1/2 in. pots, fine, \$2.50 per 100; R. C., \$1.00 per 100.
SWEET ALYSSUM, 2 1/2 in. pots, fine, \$2.00 per 100, Capt. of Snows, 2 1/2 in. pots, fine, \$2.00 per 100, Little Gem, \$2.00 per 100.
LOBELIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.00 per 100.
AGERATUM, in variety, \$1.50 per 100; R. C., 80c. per 100.
ROSE GERANIUM, 2 1/2 in. pots, \$2.00 per 100.
HAPPY THOUGHT GERANIUM, \$2.00 per 100.
GERMAN IVY, R. C., \$1.50 per 100.
ENGLISH IVY, R. C., \$1.50 per 100.
SALVIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.50 per 100.
ALTERNANTHERAS, R. C., 80c. per 100.
 Cash with order.

J. E. FELTHOUSEN, 154 Van Vranken Ave.
 SCHENECTADY, N. Y.
 Mention the Florists' Exchange when writing.

A Few Good Things You Want

Cash with order.
Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100.
Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.
Geraniums, S. A. Nutt, John Doyle, Perkins, Ricard, Double Gem, Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Treco, Castellane, Poitevine and Vland, 2 in. pots, \$3.00 per 100.
Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100
Boston Ferns, 5 in., 30c. each.
Vinca Var., 2 in., \$2.00 per 100.
Gladiolus, blooming bulbs, extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.
Primula Obconica, 3 in. in bloom, \$5.00 per 100.
Heliotrope; Coleus, red and yellow; Cigar Plants; Verbena; Scarlet Sage, 2 in. \$2.00 per 100.

Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s; properly packed in good order.
GEO. M. EMMANS, Newton, N. J.

COLEUS

Golden Bedder and Fancy bedding sorts, R. C., 60c. per 100; \$5.00 per 1000. Giant variety, Coleus, \$1.00 per 100. **Labellia** Compacta, blns, R. C., 60c. per 100; \$5.00 per 1000; 2 in. pots, \$1.50 per 100. R. C., 10" 2 in. 100
Fuchsias, best varieties..... \$1.00 \$2.00
Heliotrope, dark..... 1.00 2.00
Vinca, variegated..... 2.00
Geraniums, double white..... 2.00
CANNAS (Dormant)..... 1.00
Queen Charlotte, Florence Vaughan..... \$1.50
Duke of Marlborough, McKinley..... 2.00
Esquade (Bronze)..... 2.50
 Cash with order.

ERNEST HARRIS, - Delanson, N. Y.

Sphagnum Moss and Cedar Poles

Moss, 5 barrel bales, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$8.50. **Poles**, 2 in. bnt., 8 ft. long, \$15.00 per 1000; 2 1/2 in. bnt., 10 to 12 feet long, \$22.50 per 1000; 1 1/2 in. bnt., 5 to 7 ft. long, \$10.00.
R. H. AKERS, Chatsworth, N. J.

ROOTED CUTTINGS Prepared per 100. **Agaratum**, Gurney, **Pauline**, 6 to, **Alternanthera**, best red and yellow, 50c. **Hardy**, **Salvia**, **Abbotford**, red 75c. **Heliotrope**, blue, 85c. **Flora**, **Goldie**, 75c.
SHIPPENSBURG FLORAL CO., SHIPPENSBURG, PA.
 Mention The Florists' Exchange when writing.

2,000 ASPARAGUS SPRENGERI, 3 in. pots, if sold at once will go cheap, to make room. \$3.50 per 100.

COHANZIE CARNATION GREENHOUSES,
 NEW LONDON, CONN.
 Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock WINSOR and HELEN M. GOULD, \$12.00 per 100...

VERBENAS—Best Mammoth, rooted cuttings \$1.00 \$ 8.00 Agrostum, Cope's Pet. White Cap. P. Pauline and Stella Gurney...

CANNAS Strong dormant roots in 30 fine varieties \$2.00 and \$3.00 per 100; \$18.00 and \$26.00 per 1000.

WOOD BROS. Fishkill, N. Y. Mention the Florists' Exchange when writing.

ASPARAGUS PLUMOSUS NANUS, 2 1/2 in. pots.. Per 100 4.00 " " 3 in. pots.. 8.00 " " 4 in. pots.. 10.00...

Grafted ROSES Own Roots Orders booked for early delivery. KILLARNEY, RICHMOND, JOE HILL, KAIBERIN, CABNOT, BRIDE, BRIDESMAID, GOLDEN GATE, FERLE, SUNRISE, SUNSET, etc.

MANETTI STOCKS \$1.25 per 100; \$10.00 per 1000.

CHRYSANTHEMUMS A. J. BALFOUR, COL. D. APPLETON, DR. ENGUEHARD, GEO. KALB, MRS. MCARTHUR, MONROVIA, MRS. BARCLAY, MAUD DEAN, META, MISS ALICE BYRON...

Now Ready For Delivery

New Chrysanthemums Miss Clay Frick (the white sport of Wm. Duckham), Winter Cheer and Buttercup; all good commercial sorts. Price, 2 1/2 in., pots, 50c. each; \$35.00 per 100.

American Beauty 7,000 plants in superb condition, ready to pot from 2 1/2 in. Every plant unconditionally guaranteed by me. Price, \$8.00 per 100; \$75.00 per 1000. Samples mailed.

New Carnations Pierson's Winsor; the all-around good thing. Easy to grow; hard to do without. Also Helen Miller Gould, Imperial and Pink Imperial, all at \$12.00 per 100; \$100.00 per 1000; pots 2 1/2 in., \$14.00 per 100. A splendid lot of White Perfection, in 2 1/2 in. pots, \$10.00 per 100.

CHARLES H. TOTTY, MADISON, N. J. Mention The Florists' Exchange when writing.

VERBENAS 60 Finest Varieties Perfectly Healthy Rooted Cuttings. Our selection \$.75 per 100 \$ 6.00 per 1000 Plants. 2.50 per 100 20.00 per 1000...

CARNATIONS Choice Rooted Cuttings Free From Disease Robert Craig, scarlet, very productive; My Maryland, pure white, good stems. Cardinal, scarlet, good flowers; Jessica, white, pencilled with scarlet. Price \$6.00 per 100, \$50.00 per 1000.

J. L. DILLON, BLOOMSBURG, PA. Mention The Florists' Exchange when writing.

SEASONABLE STOCK

CANNAS, two and three eyes, Alsace, Charles Henderson, David Harum, Duke of Marlborough, Itala, Milla, Berat and Shenandoah, \$2.00 per 100, \$17.00 per 1000. Beaute Poitevine, Crimson Bedder, Egandale, Florence Vaughan, Souv. de Antoine Crozy, \$3.00 per 100, \$25.00 per 1000.

The STORRS & HARRISON CO., PAINESVILLE, OHIO.

NEW DOUBLE PETUNIA THE QUEEN a wonderful bloomer; flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, ready now, \$1.50 per doz.; \$10.00 per 100; \$90.00 per 1000.

THEYATES FLORAL CO. Joseph Traudt, Prop. Canajoharie, N. Y. Scranton Florist Supply Co. SCRANTON, PA. Mention The Florists' Exchange when writing.

SEEDLINGS VERBENAS (3 colors), PHLOX DRUMMONDI, ALYSSUMS, (Little Gem), STOCKS, (3 colors), 35c. per 100; \$2.50 per 1000. SALVIA BONFIRE, DUSTY MILLER, 40c. per 100; \$3.00 per 1000. Grown from the best seed. AGERATUMS, Inimitable, Giant Blue, B. O. \$1.00 per 100; 2 1/2 in., \$2.50 per 100.

J. C. Schmidt Co., Bristol, Pa. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Bonnaffon, Ivory, Appleton, Enguehard, Robinson, 2 1/2 in., \$2.00 per 100; \$17.50 per 1000. SALVIA and HELIOTROPE, 2 1/2 in., \$2.00 per 100. DORMANT CANNAS, named varieties, \$2.50 per 100; assorted, \$1.50 per 100. Cash with order please.

W. H. PARSIL, R. F. D. No. 8, Chatham, N. J. Mention the Florists' Exchange when writing.

250,000 CHRYSANTHEMUMS

MONROVIA, POLLY ROSE, ROBINSON, WM. DUCKHAM, PINK PACIFIC, BONNAFFON, J. JONES. Rooted Cuttings, \$1.25 per 100, \$10.00 per 1000. ALICE BYRON, CHELTON, EATON, IVORY, APPLETON, DR. ENGUEHARD. \$2.00 per 100, \$15.00 per 1000. Healthy Stock. Enough said.

WM. BECKER, FARMINGDALE, L. I. 80X 48 Mention the Florists' Exchange when writing.

CHRYSANTHEMUM

Rooted Cuttings, Strong. Per 100 Per 1000 Glory of the Pacific and Polly Rose \$1.50 \$13.50 Heliotrope, R. O. 1.25 12.50 Heliotrope, 2 1/2 in. pots very strong 2.50 25.00 Cash with order please.

PATERSON ROSE CO., PATERSON, N. J. Mention The Florists' Exchange when writing.

PANSIES

Large flowering, fine mixture of colors, strong transplanted stock, \$5.00 per 1000 Good stock, transplanted, \$3.00 per 1000; 50c. per 100, by mail. Nice young stock, fine for later bloom. \$2.50 per 1000. 40c. per 100 by mail. HYDRANGEAS, good 4 in. stock, \$3.00 per 100. Cash with order. E. FRYER, JOHNSTOWN, PA. Mention The Florists' Exchange when writing.

Chrysanthemums

WHITE. Early—George S. Kalb, Polly Rose, Willowbrook. Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka. Late—Mrs. McArthur.

PINK. Early—Glory of the Pacific. Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, Ethelyn, A. J. Balfour, William H. Duckham, Dr. Enguehard. Late—Maud Dean, The Harriott.

YELLOW. Early—Monrovia. Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham. Late—Major Bonnaffon, H. W. Reiman. Root Cuttings, \$2.00 per 100; \$15.00 per 1,000.

A. N. Pierson, Cromwell, Conn. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

White Shaw, the very best second early 'Mum' takes place of Robinson. No grower should be without it. \$4.00 per 100, rooted cuttings; unrooted, \$2.00. CARNATIONS Mrs. W. T. Omwake (Eachanrees Sport), Pink Fatten and Mikado, \$4.00 per 100, rooted cuttings; \$2.00 per 100, unrooted. CASH.

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

Looking for a good, late, Yellow MUM? Invest in

GOLDEN DOME There is nothing to equal it. Stock ready now. \$35.00 per 100; \$5.00 per dozen. S. S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa. Mention the Florists' Exchange when writing.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
 54 WEST 28th STREET, NEW YORK
 Telephone: 3559 Madison Square
CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL
 Mention The Florists' Exchange when writing.



PREPARE FOR EASTER

*In Philadelphia there's a florist noted,
 Aschmann, his name, his plants beyond compare;
 To a sweet girl his heart is all devoted,
 Next rank his Araucarias, passing fair;
 When seen together they're a pair so charming—
 Brimful of beauty—both he cannot keep;
 So to his heart he'll hold his winsome darling,
 While you may have the Araucarias cheap.*

An immense stock of choice Easter plants, blooming Easter week or earlier if desired, are now ready for immediate shipment.

COME or Mail your order direct to Headquarters.
 Our reputation over the entire country, from the Atlantic to the Pacific, in growing Easter stock for many years past, is sufficient guarantee to prove what I say.
 We have every house, nook, hole and corner full; plants were never so fine as they are this year, 1907.
 While laborers, merchants, jobbers, contractors, builders, etc., have increased their prices nearly double, we **DO NOT** advance our prices; look! we sell our plants at the same old prices charged two or three years ago when the producing of plants was much cheaper.

Mr. GODFREY ASCHMANN, Philadelphia, Pa.
 Dear Sir—I received your plants in good condition. Satisfactory to me in every way. I am pleased.
 227 Loyallanna St. Respectfully yours,
 [The amount of plants was \$96.25 for Azaleas, Kentias, Araucarias and Ferns.] EDWARD LEIZMANN.

Latrobe, Pa., February 18, 1907

Huntington, N. Y., March 1, 1907

Mr. GODFREY ASCHMANN, Philadelphia, Pa.
 Dear Sir—I was well pleased with the plants that I received of you last year, so I send you another order this year. (Here follows description of order.) Yours truly,
 LEANDER D. HURD.

Philadelphia, Pa., February 25, 1907
 "I have seen Mr. Aschmann's Easter stock and I can truthfully say that it never looked finer, and stock never before so large, and I am pleased to recommend our customers to Mr. Aschmann."
 F. J. MICHELL,
 Of the firm of Henry F. Michell Co.
 1018 Market Street.

What was my duty during my trip to Ghent, Belgium, the land of Azaleas, Araucarias and Palms—last Fall, 1906? Answer: The interests of my customers, of course; not speaking of the 1100 Souvenir Cards which I mailed to my customers in America. I also bought for their benefit, **AZALEA INDICA** for Easter sales, the cream of Belgium's production. I am able to offer to my customers and the trade in general, two houses full of Mme. Van Der Cruyssen azaleas, the well-known and most favored, best double, pink azalea, giving so much satisfaction all over America. Plants as round as an apple, just covered with buds, 6-7 in. pots, at 60c., 75c., \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each. Other fine varieties adapted for the American Market, such as Niobe, Bernard Andrew, Alba, Deutsche Perle (double white), Prof. Wolters, Empress of India, Yervaeneana (double variegated), and about eight more fine sorts, all covered with buds, price 75c., \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each. We have a limited quantity of 50c. to 60c. azaleas, such as Apollo (double dark scarlet), Deutsche Perle, Simon Mardner, and a few others.

Lilium Musk-florum and **Japan Longiflorum** were never so fine as this year. All sizes: can meet all wants. 6 in. pots, 5 to 8 buds to a plant, 10c. per bud; 4 large buds and under, 12c. per bud.
Spiraea Gladstone, 6 to 7 in. pots. These plants are very large and bushy, and unusually fine this year, full of buds; price, 50c., 75c. to \$1.00 each.
Hydrangea Otaksa (pink) 6 to 7 in. pots, 40c., 50c., 75c., \$1.00, \$1.25 to \$1.50 each.
Cinarraria Hybrida, have a house full, all shades, 5, 5½ to 6 in. pots, \$2.50, \$3.00; \$4.00 to \$5.00 per doz.

Rambler Roses, 3 ft. high and over, \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each.
Begonia, new improved Erfordi, an immense bloomer, blooms all summer and winter through, 5½ in. pots \$3.00 per doz.; 4 in., \$1.80 per doz.
Primula Obconica, 5½ in. pots, \$2.50 per doz.; 4 in., \$1.80 per doz.
Arcua Sapida (palm), 6 in. pots, 50c.
Draecena Bruantii, 6 in., 60c.

FERNS, Nephrolepis Barrowsii, 6 in., 50c. to 75c.; 5 to 5½ in., 40c. Scottii, 8 in., very long, \$1.50 each; 5 in. 35c. Boston Ferns, 5 in. pots, 25c. to 30c.; 6 in., 40c. to 50c.; 7 in., 75c.
Kentia Forsteriana, 7 in. pots, make up one large one in center, three small ones around, \$1.50 to \$1.75. Kentia Forsteriana, single plant, 36, 45 to 50 in. high, \$1.00, \$1.25, to \$1.50 each.

ARAUCARIA COMPACTA ROBUSTA, 5 year old, 7 in. pots, 25 to 30 in high, same in width, 4 to 5 tiers, very well stuff, \$1.00, \$1.75 to \$2.50 each. Araucaria Excela Glauca, 20 in. high, 4 tiers, 4 year old, \$1.00, \$1.25 to \$1.50 each. Specimen Glauca, 7 in. pots, 5 year old, 5 tiers, 30 to 35 in. high, \$3.00 each. Araucaria Excela, 4 year old, 6 in. pots, 25 to 35 in. high, 5, 6 to 7 tiers; \$1.00, \$1.25 to \$1.50 each.

Hyacinths, raised from first class bulbs of my own importation. Notice: These bulbs cannot be compared with ordinary stuff flooding the market. King of the Blues, Grand Maitre (Lavender blue), Gertrude (best pink), Grandesse (white), 4 in. pots, \$12.00 per 100.

Tulips, Tournesol, red and yellow variegated; this is the best selling tulip on the market, will stay in full bloom 10 days, 3 bulbs planted into a 4 in. pot; price \$12.00 per 100 or \$1.50 per doz. pots.
Narcissus, or Double Van Slon Daffodils best double yellow in the world, will sell on sight, 3 double nosed bulbs planted into a 5, 5½ to 6 in. pot; price, \$2.50 to \$3.00 per doz. pots. All bulbs are of my own importation, now outside in cold frame, and will bloom 2 weeks after bringing them into the greenhouse.

MOON VINE, Ipomoea Multiflora, (A. W. Smith, originator), best pure white, largest and most fragrant moon vine in the world. We have made a specialty of it for the past 15 years, and are known as the moon vine growers of America. Grow 20,000 of them, 2½ in. pots, \$5.00 per 100; now ready.

Mention if pots are wanted with all plants. For the reason that the cultivation of Lilies is expensive, and because we sell our Lilies cheap, some other plants must be taken in connection with them. Cash with order, please. All goods must travel at purchaser's risk only.

GODFREY ASCHMANN,

Importer and Wholesale Grower of Pot Plants

1012 Ontario Street, PHILADELPHIA, PA.

PLANT CULTURE PRICE \$1.00

THE BEST BOOK FOR THE PLANT GROWER.

A. T. DE LA MARE Ptg. & Pub. Co. Ltd., 2-8 Duane Street, New York

THE METAIRIE RIDGE NURSERY COMPANY LTD.

NEW ORLEANS, LA.
GROWERS OF CHOICE CUT FLOWERS
Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.

New York.

The Week's News.

Our simple faith in this column being the exclusive source of information on some subjects to our Boston contemporary is, we are glad to see, properly appreciated; but why drag in cats and canaries? Esop tells about a certain fox and some sour grapes—the rest you know. News is like grapes to some editors, sour if not obtainable while fresh.

F. R. Pierson of Tarrytown, N. Y., is so busy superintending the filling of orders for his novelties, particularly Winsor carnation, that he could not attend the annual meeting of the American Rose Society in Washington this week. He was well represented at the exhibition of that society, however, sending down exhibits of roses, also a grand lot of his new carnation, Winsor. James Ivera Donlan went along to arrange the flowers, and it goes without saying that Mr. Pierson's exhibits were staged in the most artistic manner possible.

The plant auction sales commenced on Tuesday, the 12th inst., at Wm. Elliott & Sons, 201 Fulton street, with the sale of hardy decorative stock. These sales will be continued every Tuesday and Friday until the end of the season. These are the only plant auction rooms in the city, and Elliott & Sons, with their commodious quarters, have all the facilities necessary for conducting two sales every week without the slightest difficulty.

The Tarrytown Horticultural Society is considering inviting the Chrysanthemum Society of America to hold its next annual meeting and exhibition at Tarrytown.

U. G. Scollay, who is well known to our readers as having charge of the heating and building problem in our question box, and who several weeks ago underwent an operation for appendicitis, is, and is able to leave his home now for a short time daily.

S. Jacobs & Sons, manufacturers of greenhouse material—Brooklyn, have erected a five-story brick building for their factory, and expect to occupy the same in the near future.

Max Schnorr, a florist of Woodhaven, L. I., is missing. He left home on the night of March 4 to attend the meeting of a singing society of which he is a member, and has not since been heard of. As there have been several holdups in his neighborhood at various times, it is feared that he may have met with foul play. His wife is said to be prostrated with grief over his absence.

New York city storekeepers complain of the business in pot plants this winter. They say it is the worst ever known, and growers are inclined to believe that this is so, judging from the poor demand they have had for their specialties this season.

James Morton, Clarksville, Tenn., is now on the road for W. A. Manda of South Orange, N. J. Mrs. Morton will continue to run the Tennessee plant.

M. H. Norton has accepted a position as representative for F. W. Kelsey of New York in eastern New England territory. Mr. Norton has a wide acquaintance among the proprietors and gardeners in many large estates on the north and south shore, and starts on his duties with excellent prospects.

L. W. Wheeler of Vaughan's Seed Store received a telegram on Sunday, informing him of the death of his mother at her home in Dartford, Wis. The sympathy of the craft will go out to Mr. Wheeler in his sad bereavement. He had visited his mother shortly before when informed of her serious illness, and left her after a few days' visit, believing that she was on the road to recovery.

The Summit express, which ever since

Marie Louise Violets

Will have a fine crop of blooms for Easter from houses that have been run cold. Write for prices.

C. LAWRTZEN, Box 261, Rhinebeck, N. Y.

VEGETABLE PLANTS

Cabbage, New Early and Succession, 25 cts. per 100; \$1.50 per 1000. Lettuce, Grand Rapids, Big Boston, Boston Market and Tennis Ball, \$1.00 per 1000. Parsley, Moss Curled, 25 cts. per 100; \$1.25 per 1000. Beet, Eclipse, 25 cts. per 100; \$1.25 per 1000. Celery, White Plume, White Solid, also Celeric, G. Prague, 20 cts. per 100; \$1.25 per 1000. Egg Plants, New York Improved, Small, \$2.00 per 1000. Peppers, Bull Nose and Sweet Mountain, Small, \$2.00 per 1000. Tomatoes, Small Plants, Earliana, Dearly Jewel, Lorillard, May Flower, and other early kinds, 30 cts. per 100, \$2.00 per 1000. Stone Perfection and other late kinds, \$1.00 per 1000. Cast with order.

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

VEGETABLE PLANTS

CABBAGE, Earliest, \$1.50 per 1000.
LETTUCE, Grand Rapids, Black Seed Simpson and Boston Market, \$1.00 per 1000.

TOMATOES, all good kinds, \$1.50 per 1000.

ASTER PLANTS.

McKEESPORT FLORAL CO.

McKEESPORT, PA.

FOR SALE

A few hundred Feverfew, Gem, 2½ in., \$2.50 per 100. Also a few ounces of Pink June Tomato Seeds saved from selected fruits.

T. C. AUSTIN & Sons,
 SUFFIELD, CONNECTICUT

MYRTLE—Vinca Minor

20,000 MYRTLE, \$10.00, \$20.00 and \$40.00 per 1000. Other Hardy Roots and Plants. List free.

S. J. GALLOWAY, Eaton, O.

its commencement several years ago, never failed to reach the city with its load of flowers until this week on Monday morning when it did not make its appearance in the cut flower district. Evidently the heavy snow fall of last Sunday was too much for this overland express.

E. C. Horan, wholesale florist at 55 West Twenty-eighth street, is receiving in addition to a full line of other commercial flowers, a splendid cut of Princess of Wales violets. The bunches are fine and large, and fully possess that subtle and pleasing odor that is only found on fresh-picked, single violets.

F. H. Traudny left Monday for Philadelphia to attend the directors' meeting of the S. A. F. O. H. From there he will journey to Washington and take in the meeting and exhibition of the American Rose Society.

Wm. Sim, Cliftondale, Mass.; Wm. Dolansky, Lynn, Mass.; and Peter Crowe, Utica, N. Y., were among the visitors in town this week. Messrs. Sim and Dolansky made a visit of inspection to the establishment of Anton Zvolanek, Bound Brook, N. J., the sweet pea specialist.

Vaughan's are working day and night on trade and florists' orders; the demand for bulk flower seeds, sweet peas, asters, etc., being unusual.

J. K. ALLEN
Wholesale Commission Dealer in **Cut Flowers**
106 West 28th St., NEW YORK
Open at 6 a. m. every day.
Telephone, 167 Madison Square.
Consignments Solicited.
Mention the Florists' Exchange when writing.

Wm. Stuart Allen Co.
Commission Merchants in CUT FLOWERS
ORCHIDS AT ALL SEASONS
53 WEST 28th STREET, NEW YORK
Telephone 356 Madison Square
Mention The Florists' Exchange when writing.

C. BONNET O. H. BLAKE
BONNET & BLAKE
Wholesale Florists
106 Livingston Street, BROOKLYN, N. Y.
Telephone: 4633 Main.
Consignments solicited. Out-of-town orders carefully attended to. Give us a trial.
Mention the Florists' Exchange when writing.

CUT FLOWER EXCHANGE
Sixth Ave. and 26th St.
Coogan Building, NEW YORK
Open every Morning at Six o'clock for the Sale of Cut Flowers.
Wall Space for advertising purposes to Rent.
V. S. DORVAL, Jr., Secretary.
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J. S. FENRICH
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THE RELIABLE HOUSE
Valley. Gardenias.
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Telephone 324-325 Madison Square.
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FORD BROS.
Wholesale Florists
48 WEST 28th ST., NEW YORK
Telephone, 377-387 Madison Square
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GROWERS, ATTENTION!
Always Ready to Receive Fine Stock
GUNTHER BROTHERS
50 West 29th Street
Phone, 551 Madison Square. NEW YORK
Violets, Roses, Carnations, Orchids
Established 1888.
Mention The Florists' Exchange when writing.

A. M. HENSHAW
Wholesale Commission Florist.
Consignments of first class stock solicited.
Prompt returns.
THE SQUARE DEAL
Guaranteed to all who trade here.
52 West 28th Street, NEW YORK
TEL. 5583 Madison Square.
Mention the Florists' Exchange when writing.

EMERSON C. McFADDEN
Wholesale Grower
Asparagus Plumosus Nanus, Etc.
Short Hills, N. J.
Tel. 139.
Mention the Florists' Exchange when writing.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES, CARNATIONS.
Telephone
JAMES McMANUS, 75V Mad. Sq., 42 W. 28th St., New York.

WILLIAM H. KUEBLER
Wholesale Commission Dealer in
CUT FLOWERS
28 Willoughby St.,
Telephone 4691 Main
BROOKLYN, N. Y.
Mention the Florists' Exchange when writing.

JOHN YOUNG
Wholesale Florist
51 W. 28th St., NEW YORK
TELEPHONE: 468-464 MADISON SQUARE
Mention the Florists' Exchange when writing.

Alexander J. Guttman
THE WHOLESALE FLORIST OF NEW YORK
43 WEST 28th STREET
PHONES. 1664-1665 MADISON SQUARE
ENOUGH SAID

ALFRED H. LANGJAHR
55 WEST 28th STREET, NEW YORK
Telephone, 4636-4637 Madison Square
Established 1891
SPECIAL VALLEY AND TOP GRADE ASPARAGUS
Consignments of First Class Stock Solicited.

Horace E. Froment
SUCCESSOR TO
W. GHORMLEY WHOLESALE COMMISSION FLORIST
Receiver and Shipper of all varieties of Cut Flowers
Telephones, 2200 and 2201 Madison Square. 157 West 28th St., NEW YORK

Wholesale Prices of Cut Flowers, New York, March 14, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special	50.00 to 60.00	Carnations	Infr grades, all colors	1.00 to 1.50
	extra	35.00 to 40.00		STANDARD White	1.00 to 2.00
	No. 1	15.00 to 20.00		VARITIES Pink	1.00 to 2.00
	No. 2	8.00 to 12.00		Red	1.00 to 2.00
	No. 3	6.00 to 8.00		Yel. & Var.	1.00 to 2.00
	Bride, Maid fancy-special	8.00 to 10.00		*FANCY—White	2.00 to 3.00
	extra	4.00 to 6.00		(The highest grades of Pink	2.00 to 3.00
	No. 1	4.00 to 5.00		Red	2.00 to 3.00
	No. 2	3.00 to 4.00		(standard var) Yel. & Var.	2.00 to 3.00
	Golden Gate	4.00 to 15.00		NOVELTIES	4.00 to 6.00
	RICHMOND	4.00 to 20.00		FREESIAS, per doz. bunches	1.00 to 1.25
	Mme. Ahel Chsteay	4.00 to 15.00		GARDENIAS, per doz.	1.00 to 3.00
	ADANTUM	1.00 to 1.50		LILAC, per bunch	.50 to .60
	GROVEANUM	25.00 to 50.00		LILIES	1.00 to 12.00
	ASPARAGUS	15.00 to 20.00		LILY OF THE VALLEY	1.00 to 2.00
Plumosus, bunches	15.00 to 20.00	MIGNONETTE	2.00 to 6.00		
Sprengeri, bunches	15.00 to 20.00	NARCISSUS, Paper White	1.00 to 2.00		
		Yellow	.35 to 1.00		
CALLAS	15.00 to 12.00	ROMAN HYACINTHS	1.00 to 2.00		
CATYRIAS	40.00 to 50.00	SMILAX	8.00 to 15.00		
CYPRIPEDIUMS	12.00 to 15.00	SWEET PEAS, per doz. bunches	.50 to 1.00		
DAISIES	1.00 to 3.00	TULIPS	.50 to 2.00		
		VIOLETS	.20 to .30		

WALTER F. SHERIDAN
Wholesale Florist
39 WEST 28TH ST., NEW YORK
Tel. 3532-3533 Mad. Sq.
ALL VARIETIES OF CUT FLOWERS IN SEASON

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

Edw. C. Horan
55 West 28th St., NEW YORK
TELEPHONE, 1462-1463 MADISON SQUARE
CUT FLOWERS AT WHOLESALE



Telephone Call, 9
756 Madison Square
Mention the Florists' Exchange when writing.

GEORGE SALTFOED
Wholesale Florist
CONSIGNMENTS SOLICITED
46 West 29th Street, New York
TELEPHONE: 3838 MADISON SQUARE
Mention the Florists' Exchange when writing.

J. Sellgman Joseph J. Levy
JOHN SELIGMAN & COMPANY
Wholesale Florists
56 West 26th Street.
Tel. 4878 Madison Square, N. Y
Opposite New York Cut Flower Company
Mention the Florists' Exchange when writing.

B. S. SLINN, JR.
Wholesale Florist
55 and 57 West 26th Street, NEW YORK
SPECIALTIES—Violets, Carnations and Roses
Shipping orders receive prompt attention. Consignments Solicited.
Telephone 3864 Madison Square
Mention the Florists' Exchange when writing.

WM. STARKE
Wholesale Florist and Plantsman
Tel. No. 452 Madison Sq. 52 W. 29th St.
Between Broadway and 6th Ave., New York
Shipments of Plants made to any part of the country. A trial order solicited.
SATISFACTION GUARANTEED.
Mention the Florists' Exchange when writing.

FRANK H. TRAENDLY CHARLES SCHENCK
TRAENDLY & SCHENCK
Wholesale Florists
44 WEST 28th STREET, NEW YORK
and CUT FLOWER EXCHANGE
Telephones: 798 and 799 MADISON SQUARE
CONSIGNMENTS SOLICITED
Mention the Florists' Exchange when writing.

THOMAS YOUNG Jr.
Wholesale Florist
43 West 28th Street, NEW YORK
Telephone, 4850 Madison Square
Consignments of Choice Flowers solicited
Mention the Florists' Exchange when writing.

Making the Test.
An advertising test is for the purpose of demonstrating whether or not an advertisement will pay.
One would naturally think that, for a "try out," the new advertiser would take pains to find out what are the very best mediums—the ones that always pay—and choose some of them for the test. As a rule, however, the experimental advertiser selects some low-priced paper or papers for his first trial; his reason for so doing is that he doesn't want to "stake much money on the venture." Almost invariably the results of such trials are disappointing.—Agricultural Advertising.
Quite true. The Florists' Exchange has stood the test 13 years and has always "made good." It never disappoints.

S. S. PENNOCK-MEEHAN Co.

Easter Plants

WRITE FOR PRICE LIST

Headquarters for the best Valley in the country at best prices.

THE WHOLESALE FLORISTS OF PHILADELPHIA

RIBBONS and SUPPLIES

STORE CLOSÉS AT 8 P.M.

1608 to 1618 LUDLOW STREET

A COMPLETE LINE OF PLANTS FOR EASTER

Open from 7 a. m. to 8 p. m.

THE LEO NIESSEN COMPANY,

WRITE FOR LIST AND PRICES.

1209 Arch Street, PHILADELPHIA, PA.

BEAUTIES
VIOLETS
LILIES

A FINE LOT JUST RIGHT FOR EASTER—IN ANY QUANTITY

PITTSBURG CUT FLOWER CO., LTD.

222 OLIVER AVENUE
PITTSBURG, PA.

WRITE FOR WIRE DESIGN CATALOGUE JUST ISSUED.

Mention the Florists' Exchange when writing.

Wholesale Cut Flowers

Valley, American Beauties, Brides and Mails; Sprengerl, Asparagus Plumosus, Carnations and Violets, all seasonable flowers.
Large stock of Stevia on hand, can supply you at lowest market prices at short notice.
Telephone and telegraph when you need cut flowers to

HENRY M. ROBINSON & CO.,

15 Province St., - 9 Chapman Pl., BOSTON, MASS

All orders will have our prompt attention. A trial order will convince you.
Tel. Main 2617-2618,

Mention The Florists' Exchange when writing

BERGER BROS.

WHOLESALE FLORISTS
No. 1305 Fibert St., Philadelphia
Bell and Keystone Phones

H. G. BERNING

Wholesale Florist
1402 Pine Street, ST. LOUIS, MO.

W. E. McKISSICK,

Wholesale and Commission Florist
Business hours: 7 A. M. to 8 P. M.
1221 FILBERT ST., PHILA., PA.

Wholesale Prices of Cut Flowers—Per 100

PHILADELPHIA CUT FLOWER CO.

Wholesale Florists
1516-18 SANSON STREET
High Grade Cut Flowers
Open Evenings until 8.

Newport, R. I.

News Notes.

It is understood that Andrew Christensen on his relinquishing charge of the estate of Miss Foster will engage in commercial horticulture on Russell avenue on land recently purchased by him with that aim in view. Mr. Christensen has already a dwelling well under way into which he will doubtless soon move.

The intimation in a contemporary that all the lilies for Easter will have to come from out of town it is hoped will prove a little too sweeping. There are doubtless here in Newport a great many lilies that will not be in for Easter; still again, there are quite a number that will be in. About half of the number grown by Gibson Brothers will be in, but even then there will be a tremendous shortage of lilies when the time comes—a word to the wise is sufficient; there is not much time now for reflection.

George L. Stoddard has just issued his first catalogue of dahlias; it contains many of the best new varieties and a number of standard sorts.

Henry J. Hass handled an unusually fine lot of Enchantress carnations last week; they were the best seen here this season. Mr. Haas, as well as many of the other florists, was kept busy last week with funeral orders.

Gibson Brothers grow quite a number of carnations, but not nearly all they need; they intend to plant a house of Winsor this year.

Mr. and Mrs. Arendt Brandt celebrated their silver wedding anniversary last week when many friends gathered at the home of the couple, bringing with them, besides congratulations, substantial tokens of esteem and respect.
D. M.

Boston Mar. 12, 1907	Buffalo Mar. 13, 1907	Detroit Mar. 4, 1907	Cincinnati Mar. 11, 1907	Baltimore Mar. 4, 1907	NAMES AND VARIETIES	Milwaukee Mar. 7, 1907	Phil'delphia Mar. 4, 1907	Pittsburg Mar. 11, 1907	St. Louis Mar. 11, 1907
30.00 to 50.00	to 80.00	to 100.00	to	to	A. BEAUTY, fancy—special	to	75.00 to 90.00	40.00 to 50.00	40.00 to 50.00
20.00 to 30.00	to 50.00	to 80.00	to	to 25.00	" " extra	to 25.00	50.00 to 60.00	20.00 to 30.00	25.00 to 35.00
10.00 to 20.00	to 40.00	to 70.00	to	12.50 to 20.00	" " No. 1	15.00 to 18.00	25.00 to 40.00	8.00 to 12.00	12.50 to 20.00
to	to	20.00 to 30.00	to	6.00 to 8.00	" " Culls and ordinary	4.00 to 8.00	5.00 to 15.00	3.00 to 5.00	4.00 to 10.00
8.00 to 10.00	8.00 to 10.00	6.00 to 15.00	3.00 to 10.00	to 5.00	BRIDE, "MAID, fancy—special	to	18.00 to 20.00	to 15.00	12.50 to 15.00
4.00 to 8.00	8.00 to 8.00	to	6.00 to 8.00	to 4.00	" " extra	to 8.00	12.00 to 15.00	10.00 to 12.00	8.00 to 10.00
2.00 to 4.00	3.00 to 6.00	to	4.00 to 6.00	to 3.00	" " No. 1	to 5.00	8.00 to 10.00	6.00 to 8.00	5.00 to 6.00
to	to	to	3.00 to 4.00	to 2.00	" " No. 2	to 4.00	5.00 to 6.00	4.00 to 5.00	to 4.00
to	5.00 to 10.00	to	3.00 to 6.00	2.00 to 5.00	GOLDEN GATE	4.00 to 8.00	6.00 to 15.00	to	4.00 to 8.00
to	to	to	to	3.00 to 5.00	K. A. VICTORIA	4.00 to 8.00	to	to	to
to	5.00 to 20.00	to	to	3.00 to 5.00	LIBERTY	4.00 to 12.00	5.00 to 25.00	4.00 to 15.00	to
to	to	to	3.00 to 6.00	3.00 to 5.00	METEOR	4.00 to 6.00	to	to	to
to	5.00 to 8.00	to	to	2.00 to 4.00	PERLE	to	to	4.00 to 8.00	3.00 to 5.00
to	to	to 60.00	to	1.00 to 1.25	ROSES	to	to	to	to
to	1.50 to 3.50	to	to	2.00 to 1.50	" " Cattleyas	to	2.00 to 3.00	to	1.00 to 1.50
1.00 to 2.00	1.50 to 3.50	3.00 to 8.00	to	2.00 to 1.50	" " Interior grades, all colors	to	3.00 to 4.00	1.00 to 2.00	1.00 to 1.50
1.00 to 2.00	1.50 to 3.50	to	to	2.00 to 1.50	Standard Varieties	1.50 to 2.00	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00
1.00 to 2.00	1.50 to 3.50	to	to	2.00 to 1.50	" " White	to	3.00 to 4.00	1.00 to 2.00	1.00 to 1.50
1.00 to 2.00	1.50 to 3.50	to	to	2.00 to 1.50	" " Pink	to	3.00 to 4.00	1.00 to 2.00	1.00 to 1.50
2.00 to 3.00	to	to	3.00 to 4.00	2.00 to 1.50	" " Red	to	3.00 to 4.00	1.00 to 2.00	1.00 to 1.50
2.00 to 3.00	to	to	3.00 to 4.00	2.00 to 1.50	" " Yellow and var.	to	3.00 to 4.00	1.00 to 2.00	1.00 to 1.50
2.00 to 3.00	to	to	3.00 to 4.00	2.00 to 1.50	Fancy Varieties	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00	3.00 to 5.00
2.00 to 3.00	to	to	3.00 to 4.00	2.00 to 1.50	" " White	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00	3.00 to 5.00
to 4.00	to	to	to	2.50 to 3.00	" " Red	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00	3.00 to 5.00
.75 to 1.00	1.00 to 1.50	to	to	to	" " Yellow and var.	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00	2.00 to 3.00
to 50.00	40.00 to 60.00	25.00 to 60.00	50.00 to 60.00	50.00 to 60.00	Novelties	to	to	to	to
8.00 to 12.00	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00	ADIANTUM	to 1.00	1.00 to 1.50	.75 to 1.50	to 1.00
8.00 to 12.00	10.00 to 15.00	10.00 to 15.00	10.00 to 12.50	12.50 to 15.00	ASPARAGUS, Plum. and Ten	20.00 to 30.00	50.00 to 75.00	20.00 to 30.00	15.00 to 25.00
to	3.00 to 5.00	3.00 to 4.00	to	to 4.00	" " Sprengerl, bunches	20.00 to 30.00	50.00 to 75.00	20.00 to 30.00	to
1.00 to 2.00	3.00 to 5.00	to	to	to	CALLAS	10.00 to 12.50	12.50 to 15.00	10.00 to 15.00	10.00 to 15.00
3.00 to 4.00	5.00 to 6.00	to	to	to	DAISIES	to .75	1.50 to 3.00	2.00 to 3.00	to
12.00 to 15.00	15.00 to 20.00	12.50 to 15.00	to 15.00	to 20.00	LILIES	15.00 to 18.00	10.00 to 15.00	15.00 to 20.00	to
.25 to .50	to	1.00 to 2.50	to .25	to .50	LILY OF THE VALLEY	2.00 to 3.00	2.00 to 5.00	2.00 to 4.00	2.00 to 3.00
to	.50 to .75	to	to .50	to .60	MIGNONETTE, ordinary	2.00 to 3.00	3.00 to 6.00	2.00 to 3.00	to 4.00
					" " fancy	3.00 to 4.00	4.00 to 8.00	1.00 to 5.00	5.00 to 6.00
					SMILAX	to 20.00	15.00 to 20.00	15.00 to 20.00	to 15.00
					VIOLETS, ordinary	to .50	.50 to 1.00	.25 to .50	.15 to .20
					" " fancy	to .75	.75 to 1.25	.60 to .75	.25 to .35

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Wholesale Prices of Cut Flowers, Chicago, Mar. 12th, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		STANDARD VARIETIES	
86-inch stems.....per doz.	..... to 6.00	White.....	1.00 to 2.00
30-inch stems.....	..... to 5.00	Red.....	1.00 to 2.00
24-inch stems.....	..... to 3.00	Yellow & var.....	1.00 to 2.00
20-inch stems.....	..... to 2.00	White.....	3.00 to 4.00
18-inch stems.....	..... to 1.50	(The high- Pink.....	3.00 to 4.00
12-inch stems.....	..... to 1.00	st. gradea Red.....	3.00 to 4.00
8-inch stems and aborts	..... to .75	of St'd var. Yellow & var.....	3.00 to 4.00
Bride Maid, fancy special.....	8.00 to 12.00	NOVELTIES	..... to
" No. 1.....	5.00 to 6.00	ADIANTUM.....	.75 to 1.00
" No. 2.....	..... to 3.00	ASPARAGUS Plum. & Ten.....	.35 to .50
Golden Gate.....	5.00 to 10.00	" Sprangart, bunches.....	.35 to .50
Uncle John.....	5.00 to 10.00	LILIES Longiflorum.....	12.00 to 18.00
Liberty.....	5.00 to 10.00	HARRIS.....	12.00 to 18.00
Richmond.....	5.00 to 10.00	ORCHIDS - Ostrayaa.....	12.00 to 18.00
Killarney.....	5.00 to 10.00	SMILAX.....	15.00 to 20.00
" extra.....	12.00 to 15.00	LILY OF THE VALLEY.....	2.00 to 4.00
Perle.....	5.00 to 10.00	VIOLETS.....	.25 to .50
Obatensy.....	5.00 to 10.00	" single.....	.25 to .50
Callas.....	8.00 to 12.00	HARDY FERNS per 1000.....	2.50 to 3.00
HYACINTHS, Roman.....	2.00 to 3.00	GALAX.....	1.00 to 1.25
Narc. Single Yellow.....	1.00 to 2.00	NARCISSES, Paper White.....	2.00 to 3.00
Tulips, White.....	2.00 to 3.00	JONQUILLS.....	2.00 to 3.00
" Yellow.....	2.00 to 4.00	FREESIA.....	2.00 to 4.00
Mignonette.....	2.00 to 6.00	SWEET PEAS.....	.50 to 1.50
FORGET-ME-NOT.....	1.50 to 2.00	SNAPDRAGON.....	6.00 to 8.00

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 Valley, Carnations and Roses
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at Twenty-second street and Cottage Grove avenue and entered the employ of the A. L. Randall Company.
 William G. Bunde, at one time a traveling representative of Vaughan's Seed Store, but now of St. Paul, has the sympathy of his many friends in the loss of his mother in the Twin City on March 4.

P. Lautenschlager has returned from a short trip into neighboring States in the interests of Kroeschell Brothers, having booked a good business on his trip. This concern notes that over 90 per cent. of the boilers installed this season have been equipped with the firm's new scale-bearing rocking grate which was awarded a certificate by the S. A. F. O. I. at Dayton last year.
 Lacy Young of the Deamud & Young Fern Company finishes up his Winter's city business on the 16th inst., and after a few days' recreation will leave for the woods of North Michigan where he will superintend the fern gathering for the next Summer, Fall, and Winter business.

Miss Glaser of Dubuque, Iowa, was in this city last week.
 Leonard Kill returned from the St. Louis flower show with five first prizes on roses, (every class entered) to the credit of the P. Reinberg houses; in fact Chicago may well feel proud of the result at St. Louis, as in addition to the above H. N. Bruns captured first for his famous lily of the valley. The Chicago Carnation Company four firsts (every class entered) on carnations and the J. D. Thompson Carnation Company the other two firsts and two seconds on carnations.

The John C. Moninger Company announce that owing to delay caused by the printers their catalogue will not be ready for distribution for two or three weeks. A remarkable call, however, is reported for their valuable little booklet on "Greenhouse Construction" which is forwarded to any address on receipt of a dime.

John Scott, formerly with the Waban Rose Conservatories, Natick, Mass., and for a year or more past with Joy & Son Company, Nashville, Tenn., has been visiting points of interest in this neighborhood.

N. J. Wietor left on Thursday night of last week for a tour of this and neighboring states.

Mr. Devalitis of the Parker-Bruen Manufacturing Company has been calling on the trade here.

The Lawdale Floral Company (not incorporated) at 1003 West Twenty-second street is one of the latest retail ventures backed by V. A. Kohout and F. Merker, former employees of Douglas Park. Landscape work is made a specialty in addition to a general cut flower business.

Alex. Aggerholm of the Mosbak Greenhouse Company of Onarga, Ill., was a recent visitor.

Mr. Dietch soon disposed of the entire Winandy property to John Becker of Evanston, who in turn has already sold a large share of the property.

Robert Schenk left last week to accept a position in Lancaster, Pa.

Ed. Faber of Faber Brothers, Kankakee, was about last week posting himself on market conditions.

Sam Murray, Kansas City, was in town last Saturday en route to the S. A. F. O. H. directors' meeting in Philadelphia. The wonderful beauties of Mexico, where he has recently been visiting, are most entertainingly described by Mr. Murray.

At Peter Reinberg's salesroom a per diem business is reported far in advance of preceding years attributed especially to roses being in larger supply and selling at better prices, and a rooted cuttings business of wonderful proportions.

Miss Rennison of Sioux City, Iowa, was in the city the first of the week.

Percy Jones after taking a survey of the sources of his supply feels very well satisfied with his Easter prospects.

The expected invoice of European Easter novelties was announced by the A. L. Randall Company on Monday.

The J. B. Deamud Company will handle an especially fine line of Easter plants, the Rambler roses having commenced arriving early this week.

J. A. Budlong is still well to the front with teas from his grafted stock.

William W. Abrahamson, traveling representative for E. H. Hunt, has just returned from the South, where he has been on the road since the first of the year. He reports a good business.

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 Chicago.
 News Notes.
 The idea having gone abroad that the stock of carnation Aristocrat for this Spring's delivery was exhausted, an inquiry at headquarters educed the following reply from Manager Pyfer: "We are not sold out of Aristocrat by any means, but are a little late on delivery; and if our customers will wait for another week we will be able to satisfy every one and by the end of the month will have any amount of cuttings to offer."
 H. Van Zonneveld of Van Zonneveld Brothers & Phillip, wholesale bulb growers and nurserymen, Sassenheim, Holland, was in town last week and nearly winds up the list of representatives of foreign houses who make annual pilgrimages through the States.
 Jensen & Dekema are enjoying an unprecedented sale of rooted carnation cuttings of their favorite varieties, and report the call for Winsor, for which they are acting as Western agents, as something actually phenomenal.
 Michael Fink has sold his retail store

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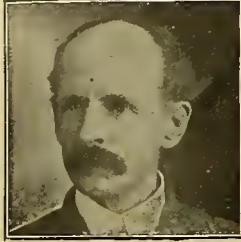
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Fancy or Dagger Ferns



- Dagger Ferns, \$1.25 per 1000.
- Fancy Ferns, \$1.50 per 1000.
- Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
- Boxwood, No. 1 Stock, 50 lb. cases, \$8.50
- Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
- Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
- Southern Smilax, fancy stock, 50 lb. cases \$3.50
- Laurel Branches, 35c. per bundle

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Galax, green or bronze, fine quality.
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Boston.

News Gittings.
The next meeting of the Gardeners and Florists' Club will be held on March 19. Carnations is to be the subject for the evening; the discussion of which will be opened by F. E. Palmer. The club will hold an outing at W. W. Edgar & Company's, Waverly, on Saturday, March 23. Members will take electric car at Park street Subway at 1:30 p. m.

Prof. H. H. Whetzel of Ithaca, N. Y., lectured on Bacterial Diseases of Plants before the Massachusetts Horticultural Society on Saturday last. The final lecture of the season will be on March 30, when J. K. M. L. Farquhar will talk on Italian Gardens.

Some of the finest narcissus ever seen in Boston are now being cut by John J. Fee of Jamaica Plain.

William Miller of Miller & Sons, West Lynn, started last week for a month's trip through the West Indies and Panama.

J. A. Pettigrew and W. N. Craig were among the Bostonians attending the annual banquet of the Worcester Horticultural Society on Wednesday last.

J. T. Butterworth is having a fine cut of Cattleya trianae at present; he will have a superb lot of lily of the valley in pots for Easter.

J. W. Duncan read a paper on trees and shrubs before the North Shore Horticultural Society on Friday evening.

Several European representatives have been in town this week, including Mr. Van Teylingen of Van Gaanten & Company, and W. A. Taat of Van Waveren & Company, Hillegom, and W. Griesinger, representing Horticultural Amadonia, Ghent.

Among Bostonians attending the Rose Society Convention at Washington were: W. H. Elliott, Alex. Montgomery, Jr., Robert Miller, W. J. Stewart, P. Welch and J. K. M. L. Farquhar. J. W. D. Spring Flower Show.

The annual Spring flower show of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, on March 22, 23, and 24. The display of Spring bulbs and Easter flowering plants at this exhibition promises to eclipse anything ever before shown at Horticultural Hall.

Baltimore, Md.

Florists' Club Meeting.
The meeting of the Gardeners' Club was very well attended and most interesting.

Professor T. B. Symmons, State Entomologist and secretary of the Maryland State Horticultural Society, attended the Gardeners' Club meeting and addressed its members on the Jamestown Exposition, urging them to put forth their best efforts to make the horticultural and floral exhibit of the State a creditable one. The club appointed five of its prominent members as a committee to communicate with the florists and nurserymen of this city and State and report the result of its labors to the club previous to the opening of the Exposition in April. It is expected from the florists and nurserymen that they will do their part to furnish a continuous exhibit from April until December 1st, the close of the exposition.

The following officers have been nominated: F. C. Bauer, for president; M. Richmond, vice-president; J. J. Perry, secretary; Geo. Talbot, financial secretary; and Chas. Wagner, librarian. The election will be held at the next meeting of the club.

A good-sized delegation will attend the Rose Society Convention at Washington.

Business conditions have improved very much and cut flowers are moving with more regularity. Prices are encouraging.

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- Southern Wild Smilax \$3.50 and \$7.00 per case.
- Laurel Festooning, good and full, 5c. and 6c. per yard.
- Branch Laurel, 50c. per bundle.
- Leucothoe Sprays, \$1.00 per 100.
- Sphagnum Moss, 50c. per bag; five bags \$2.00.
- Green Moss, \$1.00 per bbl.



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March 16, 1907



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Syracuse Red Pots enables us to make them thinner. That means space saving and a better pot for your plants. Order once. Syracuse Pottery Co. Syracuse, N. Y.

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1600 2 1/2 in. pots in crate, \$4.88	120 7 1/2 in. pots in crate, \$4.20
1600 2 3/4 " " " " 5.25	50 8 " " " " HAND MADE 5.00
1000 3 " " " " 6.10	48 9 in. pots in crate, \$5.60
1000 3 1/2 " " " " 6.00	24 11 " " " " 3.60
800 3 3/4 " " " " 5.80	24 12 " " " " 4.80
600 4 " " " " 4.50	12 14 " " " " 4.80
300 5 " " " " 4.61	6 16 " " " " 4.60
144 6 " " " " 3.10	

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10x12 10x14 10x15 10x16 10x18 12x12 12x14 12x16 12x18 14x16 14x18 14x20 14x24 16x18 16x20 16x24
C. S. WEBER & Co.,
10 Desbrosses St., New York

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FREE HOSE

trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipe. Send for Free catalogue "Key" Bolla. Ventilating apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY COMPANY,
244 Fulton Street, - - New York City
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IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.
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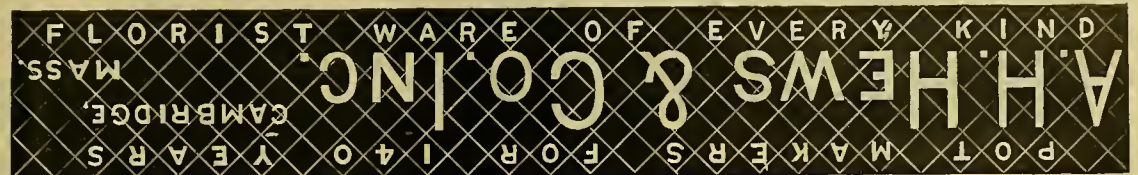


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STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
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WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



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Tobakine Products

"THEY KILL BUGS"

"Flowers and Profits"

is a profitable and interesting hooklet.

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76-78 Wabash Avenue, Chicago, Ill.

NIKOTEEN APHISPUNK
THE ORIGINAL AND GENUINE
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STRONGEST AND MOST UNIFORM
PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES
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FOR SPRAYING OR VAPORIZING
PRICE \$1.50 PER BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES.
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Bug Killer and
Bloom Saver
For PROOF
Write to
P. R. PALETHORPE CO.
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FIRES.

ELKHART, IND.—Mrs. E. M. Bullock, florist, recently suffered a fire loss of between \$2,000 and \$3,000 by the burning of her greenhouse. There was no insurance.

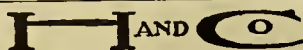
WEST BRANCH, MICH.—On March 5, fire partially destroyed the Evans Seed Company's seed house. The loss is estimated at \$10,000, partially insured.

25 lbs.
HAMMOND'S GRAPE DUST
KILLS MILDEW ON ROSES
HAMMOND'S SLUG SHOT WORKS
Fishkill on the Hudson, NEW YORK
SOLD BY
THE SEEDSMEN OF AMERICA

Hammond's "SLUG SHOT" Cleans out the Sow Bug
OR
Wood Louse IN GREENHOUSES
HAMMOND'S SLUG SHOT INSECTICIDE & FUNGICIDE

THE WHITE FLY
IS HE EATING YOU?
APHICIDE PAPER
KILLS HIM QUICKLY
TRIAL BOXES for house 100x20 25 cents post paid.
BOXES 24 SHEETS 65 " "
" 144 " \$3.20 Express " "
" 288 " \$6.50 " "
THE H. A. STOOHOFF CO.
116 West St., New York, MAKERS

THE AMERICAN CARNATION
Price \$3.50. Send for Sample Pages
A. T. DE LA MARE PTG. & PUB. CO., Ltd. 2-8 DUANE STREET, NEW YORK



ANY OLD THING WON'T DO

Neither will half the new things. Just for example: Suppose a firm does sell you materials of sap free Cypress, sun dried, and all that kind of thing, that doesn't prove you'll get a good greenhouse. There is just as much skill in knowing when not to use Cypress as when to use it. An all Cypress house can't last—our half iron frame house will. By "half iron" we mean iron at decay points, such as eave plate, posts, columns, etc. We build the house of economy—if you want that kind of house and care for pleasant dealing, write us.

Hitchings & Company

Greenhouse Designers and Builders

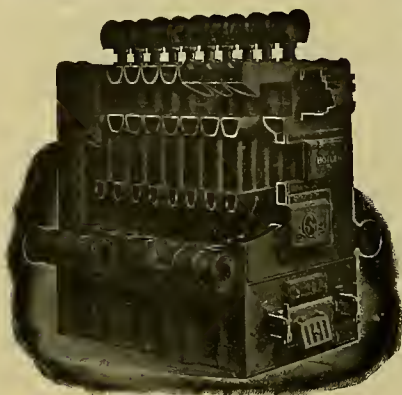
Manufacturers of Heating and Ventilating Apparatus

1170 BROADWAY

NEW YORK



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Scollay Boilers

ARE BEST

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Catalogues sent on application.

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Telephones 1492-1493 MeIn.
U. G. SCOLLAY, Manager.



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The Greenhouse Structural Co.

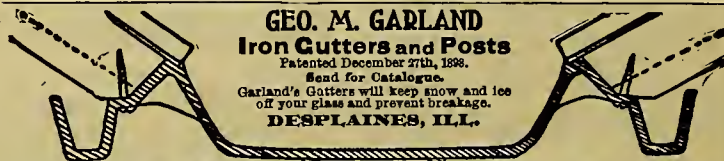
840 West 4th Street, CINCINNATI, OHIO

Manufacturers of

IRON FRAME GREENHOUSES

Re-enforcing for Concrete "Post and Board" Walls. Ventilating Machinery, Iron Fittings, Iron Purlins and Gutters for wood houses, etc., etc.

Send for catalogue and designs.



GEO. M. GARLAND
Iron Gutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at Chicago Flower Growers' Market

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

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Successors to JENNINGS BROS.

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

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Evans Improved Challenge

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

Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
RICHMOND, INO.

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STANDARD Pumping Engines

Have won their way to favor, not by being the cheapest, but by being the best. Correspondence solicited.

The Standard Pump & Engine Co.
CLEVELAND, O.

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The Foley Plant, Chicago.

The new manufacturing and milling plant of the Foley Manufacturing Company, Chicago, an illustration of which is herewith presented, is fast approaching completion and it is in every respect, even to the most minute detail of construction and machinery, a modern thoroughly up-to-date institution. The main building is 168 feet long and 115 feet wide, containing basement and three stories, strictly modern mill construction, very heavy timbers with joists 6x11 in. thick, floors four inches thick, all thoroughly equipped with the very latest machinery and most modern appliances for greenhouse construction work. In addition to the main building there will be a power plant and machine plant for the production of ventilating machinery. These buildings will cover 100x109 feet. The power for the plant will be furnished by a large Nordberg engine of latest improved type capable of generating 500 to 600 horse power. An independent electric light plant and heating system are included in the plans. The factory will be supplied throughout with the most perfect sprinkler system, thereby practically insuring it against fire.

The lumber yards, etc., of the firm cover in all about three acres of ground on the C. B. and Q railroad with switch track facilities sufficient to handle twelve cars at a time. The plant is in the great manufacturing district of Chicago in the neighborhood of the immense McCormick works of the International Harvesting Company, being at Twenty-sixth street and Western avenue.

It is expected that the new quarters will be completed and occupied by the Foley Company, by April, and local and visiting florists will always find a welcome when they wish to visit the factory and see how greenhouse material is made and handled by an up-to-date establishment.

In addition to the greenhouse business of this concern there is maintained a department for the manufacture of all kinds of woodwork necessary for the construction of any

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.

and all kinds of buildings, including factories, schools, residences, apartment buildings, and churches and in its new home the company will be in a position to ship all kinds of woodwork of this character to any point in the United States under most favorable conditions. W. K. W.



The New Manufacturing and Milling Plant of the Foley Manufacturing Company, Chicago



U-BAR

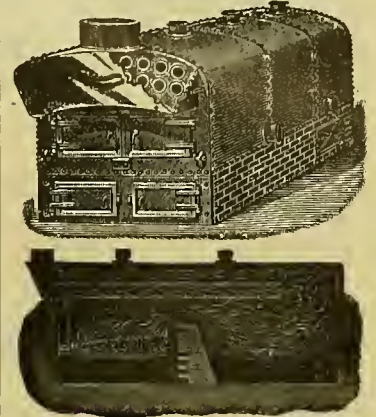
TO KEEP in repair the ordinary greenhouse is no small item—the sash bars rot—frequent painting is required. U-Bar Greenhouses are the best greenhouses built because the sash bar is thoroughly protected by the steel encasing—there is none so free from frequent painting costs because the interior has an aluminum finish that lasts years and remains brilliant and mildew free almost indefinitely. We are the sole makers of U-Bar Greenhouses. Send for Catalog. Pierson U-Bar Co., Designers and Builders of U-Bar Greenhouses, Metropolitan Building, 4th Ave., and 23d St., New York.

PLANT CULTURE
 PRICE \$1.00
A. T. DE LA MARE RTG. & PUB. CO.,
 2 Duane Street, New York

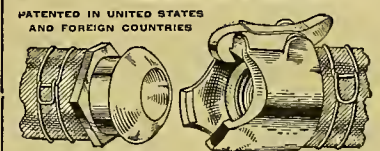
"I Was Surprised
to find everything so well made and so neatly finished. Your material is the best I have ever seen and I will recommend it wherever I can."
 This letter came from Missouri and the writer was Mr. G. M. Thost of De Soto. If you are going to build this year we would like to figure with you and believe that you will be surprised too at the thoroughness of our business methods and the excellent quality of our material.
JOHN C. MONINGER CO.
 CHICAGO
 115 E. Blackhawk Street.

Are You Contemplating Building?
IF so, now is the time to take up this important question. **IT** is only to your own interests to let me figure on your requirements.
YOUR work will be *designed* and erected by practical mechanics.
YOU will be satisfied in figures as well as results. **YOU** can have testimonials of hundreds of satisfied patrons, in all parts of the country, by writing us.
WILLIAM H. LUTTON
 West Side Ave. Station, **JERSEY CITY, N. J.**
 Tel. 412 R. Bergen. **EVERYTHING FOR HEATING AND VENTILATING**

KROESCHELL BROS. CO.
 IMPROVED
Greenhouse Boiler
 33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information. Mention the Florists' Exchange when writing.



A solid brass casting, made as shown or threaded to fit ordinary hose couplers and faucets. Hose can be coupled and uncoupled in any position with *one hand*. The washers are stationary and will last years. A half minute saved every time you change hose.

\$3.00 per doz. sets, two pieces.
 \$2.25 per dozen females for faucets.
 Discount on gross lots.

EMIL GLAUBER,
 MONTCLAIR, COLO.

Mention the Florists' Exchange when writing.

WEATHERED COMPANY.
 Builders of Iron and Cypress Greenhouses
 Greenhouse Heating and Ventilating Apparatus.
P. O. Address, Box 789,
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Commercial Violet Culture
 Price, \$1.50
 The Florists' Exchange, 2-8 Duane St., New York

GREENHOUSE MATERIAL.
 OF ALL KINDS
FOLEY MFG. Co. 471 W. 22ND ST. CHICAGO
 VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH & C.
 SEND FOR NEW FREE ILLUSTRATED CATALOGUE -

GOING TO Build a Greenhouse?
 Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.
The A. T. STEARNS LUMBER CO.
 Boston, Mass.



EASTER PLANTS

AZALEAS, Mad. Van der Cruyssen, 6 in. pots, 14-16 in. over top, \$1.00 each.

HYACINTHS, first-sized bulbs, 4 1/2 in. pots, red white and blue, in equal proportions, \$1.50 per doz.; \$10.00 per 100.

TULIPS, 8 bulbs in a 4 in. pot. **Tournesol**, double variegated; **La Reine**, white, \$1.50 per doz.; \$10.00 per 100.

ASPARAGUS PLUMOSUS, *Salvia*, Ball of Fire; *Fuchsias* variety; **Heliotrope**, **Moonvine**, the true white; **Ipomoea**, heavenly blue; **Periwinkle**, variegated; **Impatiens Sultanii**, **Abutilon Savitzii**, **Ageratum**, Blue Perfection; **Cupheas**, dwarf; **Lantana**, **Lobelias**, **Yellow Daisy**, **Etoile d'Or**; **Parlor Ivy**, from 2 1/2 in. pots, \$3.00 per 100; 50c. per doz.

AGERATUM, Inimitable; **Fuchsias**, **Heliotrope**, **Salvia Bonfire**; **Geraniums** in variety; **Rose Geraniums**, **Yellow Daisy**, **Etoile d'Or**; **White Moonvine**, **Anthericum Vitatum**, from 3 in. pots, 60c. per doz.; \$4.00 per 100.

IVY, Hardy English; **Dracaena Indivisa**, **Clematis Paniculata**, **Cape Jasmine**; **Geraniums**, **Mrs. Parker** and **William Langthorpe**; **Periwinkle**, variegated, from 3 in. pots, 75c. per doz.; \$5.00 per 100. **Rooted Cuttings**, **Heliotrope**, dark blue; **Fuchsias**, **Cupheas**, **Salvias**, **Ageratum**, **Blue Perfection**; **Parlor Ivy**, **Verbenas**, \$1.00 per 100.

SEOLINGS From Flats, **Asparagus Sprengeri**, **Smilax**, **Ageratum**, **Patunias**, Howard's Star and Rosy Morn.

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THE STANDARD VENTILATING MACHINERY

The original machine with self oiling caps; the most powerful, least complicated very compact, with ease of operation.

The New Duplex Gutter over six miles in use and highly recommended: the only drip proof gutter in the market.

The standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

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I Manufacture and Erect

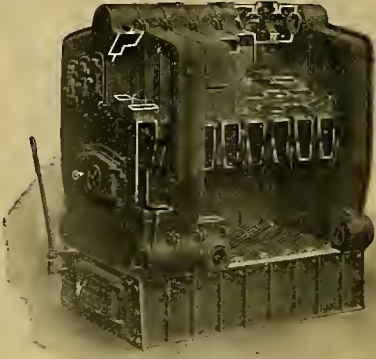
Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your requirements.

JOHN A. PAYNE
Horticultural Architect and Builder
33 Clendenny Ave., Jersey City, N. J.
Sash opening apparatus and all kinds of greenhouse structural material.
Mention the Florists' Exchange when writing.

FRANK VAN ASSCHE
Formerly Supt. for Weathered GREENHOUSE BUILDER
Private or Commercial. Iron or Wood.
Factory and Yards: Fulton and Rose Ave. and Dwight St., Jersey City, N. J.

PLANT CULTURE
PRICE, \$1.00.
The best book for the plant grower.
A. T. DE LA MARE PTG. & PUB CO. LTD
2-8 Duane St. New York.



The More Glass—More Boiler Question

When you come to putting up more glass, you'll have to have more boiler capacity. The only greenhouse boiler on the market built to take care of exactly such future wants, in a practical way, is the "Burnham." For example: You have a greenhouse, say, 100 feet long; next season you may add another 100 feet—that means you will need increased boiler capacity. Our fifty years of experience in greenhouse work has taught us to provide in the easiest, most economical way for exactly such emergencies. To increase our boiler you simply take the front section off, and add the necessary sections, and better still, you can add these additional sections to our boiler without disturbing any piping; nor do you have to take the boiler down to put in a larger base, as we have base sections to fit the corresponding number of sections added, neither do you need to buy longer tie rods to hold the "Burnham" boiler together. There are no complicated headers with their many joints requiring much time and skill to connect them; no gasket to bother with or burn out and need replacing. There's no bracing up of the sections by heavy joists when setting up the boiler, nor a chance of all the sections loosening when you saw off the joint to add each section in turn. We connect each section by itself. Each section is individually bolted, and takes care of itself. You are certain that every section with its ground push nipple connection, is absolutely tight and there to stay. You can also see what a tremendous advantage our short bolt connections must be in the case of replacing or repairing sections.

Lord & Burnham Co.

Greenhouse Designers and Manufacturers.

1133 Broadway, corner 26th St., NEW YORK.

BOSTON BRANCH, 819 Tremont Building.



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SAVE TIME AND MONEY OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING, VENTILATING APPARATUS, HOT-BED SASH

Putty--GREENHOUSE GLASS--Points

AT WHOLESALE

S. JACOBS & SONS,

GREENHOUSE CONSTRUCTION MATERIAL

1365-79 Flushing Ave., BROOKLYN, N. Y.

Greenhouse Material  **Hot Bed Sash**

of Louisiana Cypress and Washington Red Cedar

Greenhouse Hardware and Post Patent V and U Gutters.

OUR GRADE INVARIABLY THE BEST, OUR PRICES RIGHT.

Write for Catalogue and Estimate when figuring on your new houses.

A. DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

Easter Baskets for plants. Fern Baskets, zinc lined. Crepe Paper, pleated and water proof. Porto Rico Mats. Loose Magnolia and Bay Leaves for making original designs. Green Sea Moss. Tone Ware Vases, very desirable for Easter. Crepe Paper Adjustable Pot Covers. Easter Ducklings. A full line of all styles of baskets.

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A. HERRMANN
Manufacturer of Floral Metal Designs

IMPORTER AND DEALER IN FLORISTS' SUPPLIES

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THE FLORISTS' EXCHANGE

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

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

Vol. XXIII. No. 12

NEW YORK AND CHICAGO, MARCH 23, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention. Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise, for the present, late March delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time do-

ing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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



For Easter Asparagus Plumosus Nanus

Cut strings, 8 feet long,
50 cts. each.

W. H. ELLIOTT
Brighton, Mass.

Tuberose



First Size, 4 to 6 inch Write for Prices
Medium Size, 3 to 4 inch

Gladiolus

	Per 100	1000
Mrs. Francis King.....	\$4.50	\$40.00
Augusta.....	2.50	20.00
May.....	1.75	14.00
Shak-speare.....	3.75	35.00
Vaughan's XXX Florists' Mixture.....	1.75	15.00
Seedling Mixture, fine.....	1.50	12.00

Caladiums

Sound Bulbs; Live Center Shoots. At N. Y.

	Per 100	1000
5 to 7 inches in circumference.....	Write for prices	\$1.30
7 to 9 inches in circumference.....	1000	3.15
9 to 12 inches in circumference.....	1000	5.40
12 inches and up.....	1000	12.60

Sheep Manure, Bone Meal, Cane Stakes, Sphagnum Moss, Insecticides and all Florists' Supplies.



Canna King Humbert! Get it!

GET VAUGHAN'S "BOOK FOR FLORISTS."

Vaughan's Seed Store

14 BARCLAY ST., NEW YORK Tel. 1676 Cortlandt

CHICAGO, 84 Randolph St. Greenhouses, Western Springs

Miscellaneous Plants

	100	1000		100	1000
Alternantheras, six varieties.....	\$2.00	\$18.00	Dahlia Roots, Mixed.....	\$4.00	
Ageratum, Stella Gurney and Dwarf White.....	2.00	18.00	Dahlia Roots, Single mixed, from Twentieth Century.....	6.00	
Ageratum, Inimitable ...	3.00	25.00	Hardy English Ivy.....	2.00	\$17.50
Begonias, Vernon and Gracilis.....	2.00	18.00	Hollyhock, 3-in. pots, double white and mixed.....	3.00	25.00
Cannas, 3-in. pots, 12 varieties.....	4.00	35.00	Phlox, Hardy, 10 varieties	3.00	
Caladiums, Esculentum	2.00		Lobelia, Crystal Palace Gem.....	2.00	
Cuphea, Cigar Plant.....	2.00	18.00	Lemon Verbena, Aloysia Citriodora.....	2.00	18.00
Geraniums, Ivy, Caesar Franck.....	20.00		Petunias, Dreer's Superb, single fringed.....	2.00	18.00
Geraniums, Ivy, Mrs. Banks.....	3.00		Parlor Ivy, Senecio Scandens.....	2.00	18.00
Geraniums, Ivy Zonal, Alliance.....	20.00		Swainsona, Alba, fine stock.....	2.00	18.00
Geraniums, Cactus, 4 varieties.....	10.00		Verbena, Large flowering, separate colors.....	2.00	18.00
Geraniums, Sycamore.....	15.00		Verbena, Large flowering, mixed.....	1.50	15.00
Hardy Chrysanthemums Small flowering or Button	2.00	18.00	Water Lilies, Nymphaea Odorata Gigantica, strong roots.....	3.00	
Hardy Chrysanthemums Large flowering or Aster	3.00	25.00			
Dahlia Roots, Named varieties.....	6.00				

CASH WITH ORDER.

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

Don't Take a Chance

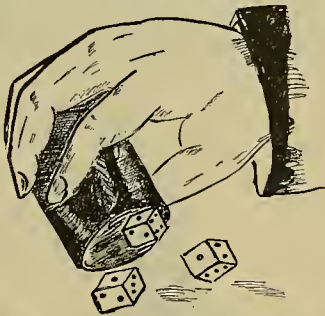
Procure Fresh Grown Seed

- Asters Queen of the Market...tr. pkt. 15c., oz. 50c.
- Asparagus Plumosus Nanus.....1000 seeds \$4.50
- " Sprenger.....1000 seeds 75c.
- Begonia Vernon, Mixed.....pkt. 25c., oz. \$2.00
- Belle Perannis, double.....trade pkt. 25c.
- Candytuft Empress.....per oz. 20c.
- Centauria Gymnocarpa.....per oz. 35c.
- Golden Feather, dwarf selected.....per oz. 40c.
- Lobelia Crystal Palace Compacts.....trade pkt. 25c.
- Potunia, grand superb fringed, mixed, tr. pkt., \$1.00.
- Phlox, choice mixed.....per oz. 40c.
- " Dwarf.....per oz. \$1.25
- Salvia Bonlire.....per oz. \$2.50
- Stocks, Ten Week, dwarf, large flowering, mixed trade pkt. 25c.
- Veronica Mammoth white.....trade pkt. 15c.
- " scarlet.....trade pkt. 10c.

BULBS

- Caladium, Medium.....\$8.00 per 100
- Large.....\$12.00 per 100
- Tuberose, 4 to 6 inches.....\$8.00 per 100
- Valley Clumps, Extra large.....\$15.00 per 100

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.



Thorburn's Seeds

Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.

New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

COLD STORAGE

Lily of the Valley Pips
BEST POSSIBLE GRADE
1000 in case, @ \$12.00 per 1000.

J. M. THORBURN & CO.
33 Barclay St., through to
38 Park Place, New York.

SEED PANSY PLANTS

THE JENNINGS STRAIN

25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, in bud and bloom \$1.00 and \$1.50 per 100; by express only. Second size, strong plants, 100 by mail, 60c.; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00; 2 oz., \$7.00; 3 oz., \$10.00. Cash with order.

E. B. JENNINGS,
Lock Box 254
Southport, Conn.

Grower of the Finest Pansies

ASTER SEED

Our descriptive price list of High Grade Aster Seed is now ready and will be sent free on application. Try our new varieties: **CARDINAL, SUNSET and ROSY CARMINE BRANCHING**; they are winners. Price per packet, 25c.; two packets for 40c. Pointers on how to grow **ASTERS** successfully sent free with every order

VICK & HILL CO.

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PLANT CULTURE

PRICE \$1.00.

A. T. DE LA MARE PTG. & PUB. CO.

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Prices Advertised in these Columns are for

New Crop Seed

ASPARAGUS PLUMOSUS NANUS (Greenhouse Grown), 1000 seeds, \$4.00.

ASPARAGUS SPRENGERI, 100 seeds, 15c., 1000 seeds, 75c.

Choice Canna Tubers

25 Varieties, \$17.00, \$19.00, \$22.00 and \$24.00 per 1000.

W. C. BECKERT, Allegheny, Pa.

ASPARAGUS PLUMOSUS NANUS (Greenhouse Grown)
FINE PLUMP SEED
\$5.00 per 1000
ESTABLISHED 1824
Bridgeman's Seed Warehouse
Rickards Bros., Props.
37 EAST 19TH ST. Near Broadway
NEW YORK CITY
Telephone: 426 Gramercy

TREE SEEDS

Send to-day for our Trade Price List and our Illustrated, Descriptive Catalog
Otto Katzenstein & Co., Atlanta, Ga

BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

W. & D.'s Specialties for Forcing

Mignonette "New York Market"
Sweet Peas "True" Christmas Flowering (Pink and White)
Tomato "The Oo"
Tomato "Sitting Castle"
Mushroom Spawo "Eggleb" and "Pure Culture"
Send for 1907 Catalogue.

WEEBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK

SOW NOW and SAVE TROUBLE

in making cuttings, the Real Dwarf Ageratum Mex. Blue Star. Tr. Pkt., 25c.; 6 Tr. Pkts., \$1.25. My Wholesale Catalogue will guide you to Reliable Flower Seeds. Ask for same.

O. V. ZANGEN, Seedsman, HOBOKEN, N. J.

RAWSON'S ASTERS

are just a little superior to anybody else's

The product of our seeds can always demand a better price than those grown from seeds obtained elsewhere. The following is an extract from a letter received last fall from a most critical grower:

"Your Midsummer Aster has been a great money-maker for me. For every flower that I have brought into the Boston Market I have received from \$1.00 to \$1.50 per hundred more than for any other variety raised from seeds purchased elsewhere". J. W. Simpson.

RAWSON'S TWO GREAT QUALITY ASTERS

RAWSON'S NEW MIDSUMMER:

in White, Delicate Lavender,

Delicate Shell Pink and Bright Rose at \$2.00 per oz.; 60c. per 1/4 oz.



W. W. RAWSON & CO.

5 UNION STREET, BOSTON, MASS.

P. S. We are now Sole Distributors for Boston for Carman's Antipest, if you wish to know what it is, send for a circular.

RAWSON'S LATE BRANCHING: in White, Shell

Light Blue, Dark Blue, Scarlet and Crimson at \$1.00 per oz.; 30c. per 1/4 oz.

No Florist knows what fresh Aster seed means unless he has tried "RAWSON'S SEED."

The crop of Aster seed has been extremely short last season and it is advisable to buy at once.

LEONARD SEED CO.

Growers and Wholesalers of Superior Garden Seeds

Seedsmen and Florists Supplied at the shortest notice and at right prices.

Our Catalogues are now ready and are mailed upon request.

Flower Seeds—Onion Sets 79 East Kiozie St., CHICAGO
145 W. Randolph St.

LAWN GRASS SEED

Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

MINNEAPOLIS

THE ALBERT DICKINSON CO.

CHICAGO

We are the sole proprietors and handlers of the famous

"EXCELLENTA" LILY of the VALLEY

Order at once if you wish any next season at \$13 per 1000, f. o. b. New York
JOHN SCHEEPERS & CO., 4 and 6 Old Slip, NEW YORK.

TRUE STOCK

Aquilegia Coerulea

Rocky Mountain Columbine

From the Rockies

SEED—1 oz. \$1.00; 1/4 lb., \$3.50; 1 lb. \$12.00 by mail.
ROOTS—4 and 5 year old, doz. \$1.25; 100 \$3.00, by express.

Order from headquarters.

THE BARTELDES SEED CO., DENVER COLO.

If you have not received our florist list, write us; we will mail it.

H. E. FISKE SEED CO.,

12 & 13 Faneuil Hall Sq.

BOSTON, MASS.

ASTER SEED

New Comet Express, new early Aster, as early or earlier than Queen of the Market; flowers much larger. White, 1/2 oz., 15c.; 1 oz., \$1.50; Queen of the Market White, Rose, Crimson, Purple, 1/2 oz., 15c.; 1 oz., 50c. Branching Aster, White Shell pink, Lavender, Crimson, 1/2 oz., 25c.; 1 oz. 60c. Above are best Covent Garden Strains, imported direct from Watkins and Simpson London.

MONADNOCK GREENHOUSES, Keene, N. H.

FREESIAS

Grand Duchess, Oxalis, Bermuda, Buttercup, Hybrid Amaryllis.

Write for prices.

A. G. REES, Box 30 R. F. D. Riverside, Cal. No. 1.



Onion Sets

AT RIGHT PRICES

VAUGHAN'S SEED STORE, 14 Barclay St., N. Y.

Gladiolus America

is becoming more popular every day. The flowers being delicate pink with lavender tinge, are BEAUTIFUL and USEFUL.

Strong bulbs, \$10.00 per 100, \$75.00 per 1000.

Other "Top Notch" Varieties

ATTRACTION. Deep, dark, rich crimson with a very conspicuous large white center and throat. At once a most beautiful and attractive sort. \$15.00 per 100.

CARDINAL. Perfect flower and spike, very large and the brightest, cleanest and most intense cardinal scarlet yet seen. Very rich and showy. \$10.00 per 100.

CONTRAST. Flowers of great substance and a beautiful compact spike of perfect form. Color intense scarlet with a large, distinct white center which is neither tinted nor mottled. One of the most striking and beautiful Gladiolus ever introduced. \$12.00 per 100.

IRENE. Fine large flower and spike. Color a fine shade of pink freely flaked bright crimson. \$10.00 per 100.

MELROSE. White flaked pink, bright crimson center. Very large and fine. \$15.00 per 100.

OCTOON. A beautiful salmon-pink; very distinct. A gem of its color. You will not be disappointed in Octo-oon. \$4.00 per 100.

Special offer: 25 bulbs each of above seven varieties for \$18.00.

JOHN LEWIS CHILDS

FLORAL PARK, N. Y.

Your Money is well spent when you

advertise in

THE FLORISTS' EXCHANGE

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

JOHNSON'S SUPERB PEONIES SWEET SCENTED
 LARGE ROOTS WITH 3 TO 7 EYES—NOTE THE VARIETIES
 THE BEST VALUE IN PEONIES OFFERED TO THE TRADE



	Per doz.	Per 100
Alba Plena, white, very popular	\$1.50	\$10.00
Agria, rich, glowing dark red	1.50	10.00
Carolina Altiss, bluish white	1.50	10.00
Fragrance, deep pink, with light center	1.50	10.00
Immel, large pink, with bluish center; fine	1.50	10.00
Madame Calixt, pure white, tinted rose	1.50	10.00
No Plus Ultra, brilliant rose, edged white	1.50	10.00
Prince Prosper d'Artemberg, flesh pink extra large flower	1.50	10.00
Poleberlima, rose violet center, rose and salmon	1.50	10.00
Rosea Superba, large, bright, pink	1.50	10.00
Reeveld, soft pink, red blotch on center petals	1.50	10.00
Rubra Triumphans, rich glowing crimson	1.50	10.00
Queen Victoria, white, red blotch on center petals	1.50	10.00
Duke of Wellington, soft white, creamy white center	3.00	
Festiva Alba, pure white, very fine	1.50	10.00
FESTIVA MAXIMA, white, center petals faded red, magnificent flower; the most popular of peonias. Each 35c	3.50	

25 Peonies sold at 100 Rate; 200 at 1000 Rate. Write for our Florists Wholesale Catalogue—Just issued. See our **Bulb Offer** in last week's Exchange.

JOHNSON SEED CO., 217 Market Street, PHILADELPHIA, PA.
 Herbert W. Johnson, of the late firm of Johnson & Stokes, President.

Look at our ad.
 March 16th
 All for the Season.
H. H. BERGER & CO.
 47 BARCLAY STREET, NEW YORK

S. M. ISBELL & CO.
 JACKSON, MICH.
 Seed Growers for the Trade
BEANS, CUCUMBER, TOMATO,
 Radish, Peas, Muskmelon,
 Squash, Watermelon, Sweet Corn.
 We are now booking orders for 1907. Fall delivery. Seed for Contract Prices also surplus List.

To The Trade
 Just issued—our special price list giving our position on
ONION SEED
 We shall send this to the Trade, being unable to make the personal visit contemplated. Please write for it.
A. J. Pieters Seed Co., Hollister, Cal.
Gladioli—NOTHING BETTER ANYWHERE.
Cannas—VERY BEST SORTS.
Carnations—THE MONEY MAKERS.
Paeonias—1200 sorts, finest sorts in liberal supply.
 Send for a list of our offers.
C. BETSCHER, Canal Dover, Ohio

Lambert's Pure Culture Mushroom Spawns.
 Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized.
 Has never failed to run. Sold by leading seedsmen. Practical instructions on "Mushroom Culture" mailed free on application.
American Spawns Co.
 St. Paul, Minn.

STOP, LOOK AND READ
 PLANTING time is near at hand, and if you are thinking of planting DAHLIAS, I would ask if you are familiar with the latest novelties.
 Now if you are interested and want the description of these beautiful new varieties, send for my Pocket Catalogue and Dahlia Guide for 1907. Regular discount to the trade on Dahlias in General List.

DAHLIAS
 Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.
DAVID HERBERT & SON,
 Successors to L. K. PEACOCK, Inc.
 ATCO N. J.

East Bridgewater Dahlia Gardens
 Not only has the largest, but the finest collection of up-to-date DAHLIAS, of any firm in America. Send for free catalog, to the
 Eastern Dahlia King, J. K. Alexander, E. Bridgewater, Mass.

DAHLIAS AND THE DAHLIA MANUAL
 An illustrated up-to-date work covering the whole field of Dahlia Culture. Price 35c.
 Send for catalogue of Dahlias, Hollyhocks and Hardy Plants. I handle only the cream of varieties. *Mrs. Winters, M. Ouel, W. M. Ouel, W. M. Ouel.*
 vajo, Dainty, Kriemhilde, etc. My Dahlias have long been celebrated as prize winners.
W. W. WILMORE
 Dahlia Specialist, Box 382, DENVER, COLO.

THE WIDE AWAKE FLORIST
 will write at once for our catalog of Roses, Shrubs and all kinds of plants for Florists' use. Write today, it's free. We have one order for this Spring's shipment of five hundred and eighty-five thousand Rose plants, and we can still fill your orders.
THE GOOD & REESE CO.
 The Largest Rose Growers in the World.
 SPRINGFIELD, OHIO

TREES, SHRUBS and PRIVET

Large Lindens, Birch, Catalpas, Oaks, Maples, Etc.

One of the largest stocks of evergreens in this country.
75,000 AZALEA AMOENA of all sizes, 5c. to \$3.00 each.
BERBERIS THUNBERGII, 12 to 18 in., \$5.00 per 100; 18 to 24 in., \$8.00 per 100; 2 ft., \$10.00 per 100; 2 to 3 ft., \$12.00 per 100.
SPECIAL PRICES on Spiraea Van Houttei and Viburnum Plicatum in quantities.
JAPAN LEMNES 5 to 6 ft. See wholesale list.
DEUTZIA LEMOINE extra heavy at \$7.00 per 100.

ELIZABETH NURSERY COMPANY, Elizabeth, N. J.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
 Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendal, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

Luther Burbank celebrated his fiftieth birthday on March 7.
 One of the leading German seedsmen writes us as follows: "We experience a considerable loss every season through a large number of our American friends not bearing in mind that the mail rate to Europe is five cents for every half ounce, and on that account we have to pay a good sum the year through. A little attention to this matter would save a good deal of annoyance, and the unnecessary enrichment of the post-office at our expense."

We willingly give publication to what seems to be a very justifiable complaint.
 The Wall Street News, New York, devotes a page of its March 4 number to a history of the well known house of J. M. Thorburn & Company, which has been established 104 years. Portraits of Grant Thorburn, the founder, and F. W. Bruggerhof, the present president of the firm, along with the new store, are also presented. The other officers of the company are E. E. Bruggerhof (son of the president), vice-president and treasurer; and J. J. Wilson, secretary.

SHIOCTON, WIS.—Negotiations are under way by which it is expected that Arthur P. Loewe, whose home is on a farm near Milwaukee, will assist M. Crawford the coming season, in his experimental work on land of the Shiocton Garden Land Company. Mr. Loewe is at present at Cornell University, where he is taking a comprehensive course in agriculture. Among other things Mr. Crawford will have ten acres devoted to gladiolus culture.

GREENHOUSE GROWN SEEDS of the better strain of lettuce have proved nearly a total failure in Massachusetts the past season, writes a prominent grower of this crop located in the eastern part of the State. There is a decided scarcity in these seeds. "We experience," he writes, "that our hothouse lettuce crop of seed grown in

C. C. Morse & Co.
 SEED GROWERS
 171-173 Clay St., San Francisco, Cal.
ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
 Warehouse, Santa Clara. Farm and Farm Headquarter, Carnadero, near Gilroy

Caryopteris Mastacantha field grown at \$6.00 per 100.
PRIVET, 3 to 4 ft., \$30.00 per 1000; 4 to 5 ft., \$40.00 per 1000; 5 to 6 ft., \$50.00 per 1000.
PRIVET Regellana, 18 to 24 in., \$5.00 per 100; 2 to 3 ft., \$6.50 per 100; 2 to 3 ft. high and 2 to 3 ft. across, \$10.00 per 100.
600,000 HERBACEOUS PLANTS. Send for our wholesale list.
LARGE WISTARIA, 5-year-old, \$20.00 per 100.
DOGWOOD of all sizes.
CATALPA BUNGEI of all sizes.

1905 will not germinate at all, and we are surprised to learn that the same has been experienced of other growers. This should be of interest to your readers. The cause of this we cannot give, as the seed germinated well with us last year."—American Agriculturist.

IMPORTS OF SEEDS.—March 11.—F. O. Boyd & Company, five cases seed, Hensel, Bruckmann & Lorbacher, four bags field seed, 13 bags mangel beet seed; F. B. Mills Company, two cases flower seed; Julius Roehrs Company, eight cases live plants, March 15.—Vaughan's Seed Store, one case bulbs; Alart & McGuire, two bags onion seed; Amerman & Patterson, 15 cases trees, eight cases plants; H. F. Darrow, seven cases flower roots and bulbs; Ellwanger & Barry 19 cases trees; W. Elliott & Sons, eight cases live plants, six cases plants; C. A. Haines & Company, 15 cases plants; J. W. Hampton, Jr. & Company, 22 cases plants; Maltus & Ware, 26 cases trees, four cases live plants, 146 packages trees, shrubs, etc.; 242 cases plants, etc.; McHutchinson & Company, 73 cases plants; F. D. Peicer, 13 cases plants; P. H. Petry & Company, 21 cases plants; C. B. Richard & Company, 27 cases plants and roots, eight packages plants, 32 cases plants; Stumpff & Walter Company, 14 cases plants; Vaughan's Seed Store, one case trees; F. B. Vandegrift & Company, 46 cases trees, 13 cases plants; Vaughan's Seed Store, five cases trees and shrubs; Wakem & McLaughlin, five cases plants.

EXPORTS OF SEED.—March 11.—Shipped from New York to Laguayra, 59 packages seed, valued at \$655; to Melbourne, 11 bags seed, valued at \$465; March 12.—To Hamburg, 1495 bags grass seed, valued at \$7,009, 24 packages seed, valued at \$447; to Hamilton, 15 packages seed, valued at \$118; to Liverpool, 50 bags clover seed, valued at \$940; to Santos, 118 bags seed, valued at \$333; March 13.—To Wellington, four packages seed, valued at \$175; March 14.—To Bucnaventura, six packages seed, valued at \$112; to Glasgow, 320 bags grass seed, valued at \$2,424, 250 bags clover seed, valued at \$3,610.

European Notes.
 A fair estimate of the position of things assures us that the season is nearly four weeks later than the average in many parts of Europe, and so long as the night frosts continue very little progress will be made, although thus far no serious injury appears to result. A brighter spell during the past week has given a much needed fillip to trade, and orders are coming in freely. The crisis in connection with the supply of spinach seed is becoming acute, such varieties as Viroflay, Victoria and Giant Thick-leaved being quite cleared out and the demand continues to be exceptionally brisk. Holders of good

Here is a list of a few: Victorlan, Wm. Marshall, Lena Ashwell, Nelly Nemsley, Good Hope, Pilot, Sole de Italla, Volcano, Fra Diavolo, Roland Von Berlin, Schneewittchen, Ortwin, Felix, Dahin, Papa Crozy, Jeanne Charmet, Mme. Keller, McKinley, Memoria, and 500 others.
EDWIN S. MANUEL, 19 Walnut St., NEWPORT, R. I.

stocks on your side should remember that they cannot be replaced until the new crop is ready and price their offers accordingly.

Peas continue to move off slowly on very easy terms, but when sowing commences in good earnest better conditions may prevail.

The clover market is quite stagnant and all exporting appears to be at a standstill. The same is true of rape and other market seeds.

Our primulas are now fairly past their best and we are busy fertilizing the plants for our seed crops. The weather is happily much more favorable than at this time last year, and if it continues the crop will be larger and the quality better.

The most noteworthy novelty of the year is an orange salmon pink variety of *sinensis* named Orange Prince. The color is very distinct and lively and

somewhat resembles the color of Henry Eckford sweet pea. Although the flower is not exceptionally large, the plants are very floriferous and robust in habit.

Cannell & Son have just gained a well-merited award for three new varieties of an improved *stellata* hybrid strain. In this strain the graceful habit of *P. stellata* is well preserved, but the individual flowers are as large as those of some of the finer varieties of *P. sinensis*. The varieties which secured this recognition are: W. Raphael, crimson; White Clipper, pure white; and Masterpiece, blue—a trio worthy of a place in every florist's collection. A blue sport from *P. sinensis* *alba magnifica* is also worthy of special mention. A pure yellow variety appears to be as far off as ever. The Duchess type is rapidly gaining in popularity; a distinct variety named Duchess Red is especially fine.

EUROPEAN SEEDS.

A NEW TYING MATERIAL

Try it on your Easter plants; pleasing, bright green color; stronger and cheaper and better in every way than string or raffia.

Sample Free—It is put up in coils and on reels. In handling it the coil is placed in the pocket and the tape drawn from the middle. The brass reels are hung from the vest buttonhole.



Price—Coils (enough for tying up 150 plants) 5c. each. 50c. per doz. (by mail).
Reels (250 yards), 75c. each. \$3.00 per doz. (by express).

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

New Early, Dwarf Pea, Laxtonian.

Laxton Brothers, the seed specialists of Bedford, England, have succeeded in

raising this new, first early, dwarf, Marrowfat pea, which they say is undoubtedly the finest and best of its class they have ever handled.

In point of earliness it is ready to gather green several days before Gradus, (*syn.* Prosperity) or Thomas Laxton. It is a true Marrowfat, having the richness and quality of the best main crop variety. The height is about eighteen inches. It has a good constitution, is very prolific, the pods being quite as large, if not larger than those of Gradus, with nine and ten large peas of the richest flavor. It is a wonderfully hardy and vigorous grower, far excelling in this respect most of the tall, early, marrow type of peas. Both pod and haulm are of a particularly rich, velvety green; the color of the seed when ripe is blue wrinkled.

The illustrations herewith show the new pea, also the comparative size of it with that of American Wonder.



CATALOGUES RECEIVED.

LAKEVIEW ROSE GARDENS.—Price List of Easter Stock.

WOOD BROTHERS, Fishkill, N. Y.—Trade Price List of Plants and Rooted Cuttings.

JOHN H. UMPLEBY, Lake View, N. Y.—Price List of Gladioli, Seedlings and Standard Sorts.

THE TAFT-HOWELL COMPANY, Cornwall Landing, N. Y.—Illustrated Catalogue of Seeds, Bulbs, Implements, etc.

P. MANN & COMPANY, Washington, D. C.—Illustrated Catalogue of Vegetables and Flower Seeds, Bulbs, Implements, etc.

HARVEY B. SNOW, Camden, N. Y.—Catalogue of Vegetable and Flower Seeds, Plants, Supplies, etc.

DIGGS & BEADLES, Richmond, Va.—Illustrated Catalogue of Vegetable, Farm and Flower Seeds, Bulbs, etc.

THE CONNON FLORAL COMPANY, Hamilton, Ont.—Wholesale Price List of Bedding and House Plants, Roses, Shrubs, Vines and Perennials. Illustrated.

ROSS BROTHERS, Worcester, Mass.—Illustrated Catalogue of Field, Garden and Flower Seeds, Supplies, etc., with a list of Novelties and Specialties.

P. J. BERCKMAN'S COMPANY, Augusta, Ga.—Wholesale Trade Catalogue of Fruit and Ornamental Trees, Shrubs, Climbers, Conifers, etc. Illustrated.

STIEGLER BROTHERS, Cannstatt, Stuttgart, Germany.—Illustrated Catalogue of Seeds, Bulbs, Plants, etc. Printed in the German language.

SCHAUM & VAN TOL, Boskoop, Holland, (McHutchinson & Company, New York, agents).—Catalogue of Azaleas, Rhododendrons, Peonies, Roses, Shrubs, Etc.

ARTHUR DE MEYER, Ghent, Belgium (McHutchinson & Company, New York, agents).—Illustrated Catalogue of Palms, Araucarias, Azaleas, Rhododendrons, and Miscellaneous Plants.

THE GRANGERS' NURSERIES, (Ellsworth Brown & Company, proprietors), Seabrook, N. H.—Illustrated Catalogue of Fruit and Ornamental Trees, Small Fruits, Shrubs, Evergreens, Roses, Herbaceous Plants, etc. The Golden Elder and Colorado Blue Spruce in color form an attractive back cover design.

HEADQUARTERS FOR

CANNA ROOTS

Now is the time to plant them. NOTE THESE SPECIAL PRICES for strong dormant roots, two to three eyes to every root, all true to name. ORDER QUICK before they go.

	Per 100	Per 1000
ALICE ROOSEVELT, crimson.....	\$4.00	\$38.00
A. BOUVIER, velvety red.....	2.75	25.00
ALSACE, creamy white.....	2.75	25.00
ALLEMANNA, salmon yellow border.....	2.75	25.00
AUSTRIA, yellow.....	2.75	25.00
BEAUTE POITEVINE, crimson scarlet.....	2.75	25.00
CHAS. HENDERSON, crimson.....	2.75	25.00
CHICAGO, vermilion.....	2.75	25.00
EGANDALE, Cherry Red.....	3.00	27.50
FAIRBOPE (New), crimson.....	25.00	215.00

	Per 100	Per 1000
F. R. PIERSON, scarlet streaked yellow.....	\$2.75	\$25.00
FL. VAUGHAN, yellow spotted red.....	2.75	25.00
FLAMINGO, crimson.....	2.75	25.00
ITALIA, golden yellow spotted red.....	2.75	25.00
J. D. HISELE, crimson yellow throat.....	4.00	38.00
LONGFORD, scarlet bordered yellow.....	4.00	38.00
MAD. CROZY, vermilion bordered yellow.....	3.50	30.00
PRESS, MCKINLEY, crimson.....	3.00	27.50
QUEEN CHARLOTTE, scarlet gold border.....	3.00	27.50

Send for our complete wholesale catalogue and price list of Seeds, Bulbs, etc.

HENRY F. MICHELL CO.,

1018 Market Street, Philadelphia

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
 Orlando Harrison, Berlin, Md., president; J. W. Hill, Dea Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yatea, Rochester, N. Y., treasurer.

KNOXVILLE, TENN.—On March 13, J. I. Tripplert secured judgment against the Knoxville Nursery Company, which is owned by Congressman N. W. Hale, for \$3,500 in the United States District Court, on the ground the fruit trees were not what they were represented to be. Evidence showed that out of a large number of Alberta peaches ordered only one proved to be an Alberta. *Knoxville Banner.*

ROCHESTER, N. Y.—Nurserymen and fruit growers may perhaps be interested to know that the farm now leased by Jas. Vick's Sons of Rochester, N. Y., contains an orchard, the culture of which is under the direction of experts of the New York Agricultural Experiment Station. Last year was the third, and the experiment is to continue through a period of ten years. One point to be determined is the relative value of a system of cultivation and allowing the orchard to remain in sod, one-half of the orchard being treated one way, the other half in the other way. All other conditions, such as spraying, use of fertilizers, etc., are the same in both parts. This last year a difference between the cultivated portion and the other portion began to be manifest, in the deeper green of the foliage, and the general healthier and hardy appearance, while more good fruit was on the trees, all of which are Baldwins. The clover raised on the sod part is cut and left on the ground for a mulch. Another test being made is that of grafting Baldwin and Northern Spy varieties, claim being made that trees thus treated bear fruit six to seven years earlier than straight varieties. C.

Seasonable Notes.

Blue dogwood, *Cornus alternifolia*, is valued in ornamental planting on account of the singular vase-like growth it makes, quite unlike that of any other well-known shrub. Its name, blue dogwood, comes from the blue berries it bears in late Summer and Autumn.

Clematis coccinea, the scarlet flowered clematis, is a good seller. True, it is but a perennial, but strong plants of it will grow ten to fifteen feet in a season. When in pots and in flower it is a plant that attracts notice, so many persons being unaware that a scarlet clematis exists.

We cannot have eucalyptus trees to drain our swamps; they are not hardy where frosts occur, but there are several fast-growing trees that will answer as well. It is the foliage of trees that does the draining by the calls the leaves make on the roots for moisture. The more foliage the quicker the swamps are drained.

Yellow locust wood is excellent for posts, but has not proven so good for railroad ties, the hard wood refusing to hold spikes satisfactorily. A great deal of seed of it is being sown looking to the setting out of groves of trees for post purposes.

Among fast growing trees the wood of which is valuable, the catalpa, osage orange and common white mulberry may be mentioned; and for frostless regions, the blue gum, *Eucalyptus globulus*. These give timber long before other good but slower growing kinds are ready.

In Europe the *Acer pseudo-platanum* is commonly known as sycamore, or sycamore maple. Here the buttonwood, *Platanus occidentalis*, is known universally as sycamore and not so well as the plane, though plane is much the better name for it.

Honeysuckles do not require a great deal of pruning. Some of the older shoots may be cut out entirely and the tops of others shortened if too long. The young growth that follows a cutting back is always pleasing, but does not at all times give the flowers older portions would.

For growing under the shade of trees periwinkle, hypericum, ivy, partridge berry and *Euonymus radicans* are all good. It needs good soil for them as trees rob the ground so much that surface rooting plants have no chance unless food is near them.

A fungus will sometimes cause a branch or more of *Ampelopsis Veitchii* to die back, but if cut off below the dead section the branch will sprout afresh, and soon make up what it lost.

Partly shaded, damp places are often untenanted by plants. Primroses, polyanthus and all the allied family do well in such spots; and then there are always ferns to fall back on. A collection of ferns is a great pleasure to look upon when in their prime of growth in early Summer.

Norway Spruce Hedges.

All who are familiar with the Norway spruce know that there are two sorts of them, if this term may be applied, one of which starts to grow considerably sooner than the other in Spring. When in hedge form this difference is very striking; and as a fact detracts from the appearance of the hedge. To have the whole line of plants break into growth at once is much more pleasing than to have them do so promiscuously. The reason why this difference in growth exists is said to be that the early growing ones are female plants, the late ones male; but whether this has ever been verified the writer does not know.

Those wishing the uniformity which a hedge all pushing at once would display can secure it by planning a year in advance. Let it be some one's task to watch a block of Norway spruce in a nursery and the strings on or otherwise mark all the ones to push early into growth. In this way a hedge could be set the season following to contain all of one kind, either all early or all late.

The early growing ones are generally of a more luxuriant appearance than the late ones; and this may have led to the supposition that they represented the female plants, as vigor is believed to indicate it.

In spite of the many changes time causes in the appearance of hedges those of the Norway spruce are useful for many a year. Their bushiness ren-

merly; on the other hand, those interested in timber culture find it useful as a screen for catalpa groves, and even as a tree to furnish posts it is of great value.

Fruiting of Hazels.

When hazel nuts are set out in open places they rarely fruit well, at times not at all, causing surprise to those accustomed to seeing them fruiting abundantly in their wild situations. The explanation suggested by those acquainted with the character of the hazel, which seems to be a proper one, is, that exposed position brings forward the male flowers in advance of the female ones, hence fertilization fails. The hazel has the two sexes apart on the same bush. The male flowers are the catkins which ornament the bush in early Spring. The females are the small red ones, close to the stems, and often not noticed unless by those who are aware of their existence. In late Spring, when cold continues a long while and then warmth comes suddenly, the two sexes are much more likely to open together than otherwise. It is the experience of those who have tried it that, when in their wild state in tangles of wood and when on the north side of a hill, growth is not as forward in Spring, and the flowers of both sorts are more likely to open together. This shows the better place to plant the hazel.

The Sand Pear as a Stock.

The sand pear and its offspring the Le Conte are found unsuitable for using as stocks for ordinary pears, much as they may be desirable for the Kieffer, Garber and other kindred bloods. When the ordinary pears are worked on them they grow nicely for a year or two, then almost cease growing and dwindle away. Whether this is true, too, in respect to the Kieffer itself, when its seed are grown, is not so well attested. As it is a hybrid between the common sand pear and a common one, supposedly the Bartlett, its seedlings may be better suited for stocks than pure sand pear seedlings would be; still, those who have tried it do not appear to consider it as good for their purpose as the common French pear stocks. Australian papers speak of the Kieffer seeds being used by the nurserymen of that country at the present time. What attracts those who use the seeds of the sand pear tribe, is, that the seedlings are just the thing for stocks for the Kieffer, this latter being popular everywhere as a profitable market pear; and then the vigorous growth of these seedlings would fit them for stocks for all sorts of pears could they be got to thrive on them.

Transplanting Hollies.

The difficulty many experience in transplanting hollies comes from inattention to the proper pruning of the bushes. Attention has often been called to the fact that unless these bushes are closely pruned and the foliage as well, success is hard to attain. Not only should the branches be shortened back fully one-half, but every leaf should be cut away as well. There are hardly any exceptions to this. Even such subjects as have been often transplanted are the better for the pruning, though it may be some would live without it. Evergreens, especially board-leaved ones, such as the holly is called, need double care when being transplanted because of their leaves. The leaves call for moisture as well as the branches, and this double demand exhausts them sooner than in the case of a shrub carrying no leaves.

Magnolia grandiflora and all evergreens not carrying balls of fibrous roots need treating just as recommended for the holly.

When difficulty is encountered in the wintering of *Magnolia grandiflora*, English holly and other evergreens that suffer in Winter, it will prove an advantage to cut off every leaf before Winter sets in. What is the use of leaving the bushes to carry foliage that will surely be browned dead by Spring? Not only are they a disfigurement; they are worse, as all Winter long they have been drawing on the roots for moisture, doubling their work and working great injury to the bushes. Evidently if dead in Spring, it will be much the better way to remove them before Winter sets in.

Lonicera Japonica.

This vine is often called Hall's honeysuckle or *Lonicera Halleana*; but more strictly speaking *Halleana* is the name given to that variety of japonica which flowers in the Fall. The foliage is dark green and very persistent; in fact, half evergreen. The flowers are white and yellow and exceedingly fragrant. This is a most useful vine in many ways. It is good for covering rough banks, trees, stumps, or rocks. As a climber for trellis work, pergolas, or porch it is indispensable. The illustration represents it as a bush.

Glen Cove, L. I. JOHN F. JOHNSTON.



Lonicera Halleana, Japanese Honeysuckle

Photo by John F. Johnston

ders them of value for screening and for defense. When of age these hedges are sometimes deficient in growth near the ground, but in this case it is as much from lack of nourishment as from any other cause, and it could be averted by giving the hedge a good dressing of manure on the advent of every Winter. This would afford the plants the food they want to keep them of a fresh and pleasing appearance.

Sowing Osage Orange Seed.

A correspondent writing from Ohio states that out of a pound of Osage orange seed he got from a seedsman last year not a plant resulted, and he blames the seedsman for selling him old seeds. It is, evidently, not known to him, as it may not be to many others, that old seed of the Osage orange will germinate very well; in fact the greater part of the seed sown by nurserymen is a year old. The large balls of Osage orange containing the seeds do not decay sufficiently to admit of the washing out the seeds until rather late in Spring, hence the use of the old seed. Just how many years it will keep viable has not been proved, but no one need hesitate over seed that is no more than one or two years old. The nursery plan is to soak the seed in tepid water for 48 hours, then sow it immediately, when good results may be confidently looked for.

There are still calls for this orange as a hedge plant, but not nearly to the same extent as for-

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- European Linden, 2 to 2½ caliper, 12 to 14 ft. high, \$10.00 per 10; \$80.00 per 100.
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ROSES

Easter will be with us now in one short week, and from present indications roses will be very plentiful. The dark cold weather has held the flowers back all winter, so that now, with longer days and more of Old Sol's rays, the plants are trying to make up for lost time. This seems to be the case everywhere this year. With large quantities of roses in the market, it is safe to say that nothing but the first-class stock will bring fair returns. Any undue forcing to bring out a few extra flowers for Easter will be a very poor plan, as the blooms become smaller and lose their color and the plants are left in a condition that invites mildew.

Any attempt to hold back stock already out will also be poor policy, for only fresh flowers can be sold. Pickled stock at any time is seldom bought, and Easter is principally a plant holiday. Keep the houses cool therefore, and the blooms will be large, full and well colored.

If the plants are in good health, it is almost impossible to overfeed them from now on. A good dose of liquid twice a week if the benches dry out, will do no harm, and if some wood ashes can be procured give the benches a dusting of these, omitting the liquid at the time. If the ashes are from hard wood and unleached as they should be, you will note the change in your plants in a very few days.

The young stock will, of course, take up a lot of our time, but it is a poor plan to let the old plants shift for themselves. Keep them tied up above all things, if straight stems are to be had. Greenfly will now prove very troublesome; keep after it.

Do not keep the young stock too wet, allow the pots to get fairly dry (not white), then water thoroughly. This will insure a strong, sturdy growth.

The early potted plants may have to be shifted before Easter, but we generally like to wait until the first growth is made and well ripened. At this time it will be found the pots are full of roots, and when in this stage there should be no delay in shifting the plants. Never allow the young plants to get pot-bound or their value is greatly diminished.

The soil used now should be the same as used in the benches, to which a little ground bone has been added—about a 4-inch potful to an ordinary wheelbarrow load of soil. The pots should be crocked to provide drainage; for this purpose, cinders or potsherds are generally used, but if the coarse sod, etc., which is left after the soil is screened, is kept this will make the ideal drainage.

The pots should be set on ashes, not on the old soil, and as recommended earlier for the potted cuttings, give the plants the best and highest space possible. In potting, have the soil in a condition to pack easily, and set the plants well in the soil. Never allow the ball to stick out of the pot. Pot firmly and then give a good soaking, being careful not to puddle the soil. When knocking out the plants it is needless to say that all the scum and weeds, if any, should be carefully removed before potting; and never plant or pot a plant that is dry. PENN.

ROSES

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Note.—We had this canna on trial among the Canadian experimental stations last summer and this is the official report of their expert: Quite distinct and one of the most beautiful shades of color I ever saw in cannas. Of 70 massed in one bed during the past season, this was the most floriferous in the collection, coming into bloom early and continuing until cut down by frost, as many as 13 expanded heads of bloom being counted at one time on a plant, and not a poor one among them, all being of immense size." 50c. each; \$5.00 per doz.; \$35.00 per 100.

New York Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of canna. The color is a solid rich scarlet covered with a beautiful glowing sheen. The flowers are large and contrast beautifully with the dark bronze foliage. 50c. each; \$5.00 per doz.; \$35.00 per 100.

Send for our list and prices of 60 other leading varieties of cannas. Are our great specialty, 2 1/2 and 4 in. pot plants we have in great variety. Teas, Hybrid Teas and H. P. Roses on their own roots. Philadelphia Rambler, Crimson Rambler, Dorothy Perkins and other climbers in strong field plants.

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	Per 1000	100	Per 1000
Maids.....	\$18.00	\$4.50	\$40.00 \$55.00
Brides.....	18.00	4.50	40.00 55.00
Gates.....	18.00	4.50	40.00 55.00
Uncle John.....	18.00	4.50	40.00 55.00
Chateau.....	18.00	4.50	40.00 55.00
Richmond.....	20.00	4.50	40.00 55.00
Perle.....	20.00	5.00	45.00 60.00
Sunrise.....	20.00	5.00	45.00 60.00
Roseland Orr English.....	20.00	5.00	45.00 60.00
Kaiserin Augusta Victoria.....	4.50	40.00	55.00

American Beauties, rooted cuttings, March, April and May delivery \$3.50 per 100, \$30.00 per 1000; 2 in. pots, April, May and June delivery, \$7.00 per 100, \$60.00 per 1000.

CARNATIONS

	Rooted Cuttings	2 1/2-in.
	per 100	per 1000 per 1000
White Perfection.....	\$6.00	\$58.00 \$75.00
Rose Pink Enchantress.....	3.00	25.00 7.50
White Lawson.....	3.00	25.00 4.00
L. Peary.....	3.00	25.00 4.00
Gov. Wolcott.....	2.50	20.00 3.50
Pink Lawson.....	2.00	17.50 3.00
Enchantress.....	3.00	25.00 4.00
Victory.....	6.00	50.00 7.00
Cardinal.....	3.00	25.00 5.00
Red Lawson.....	4.00	35.00 5.00
Prosperity.....	2.50	12.50 3.50
Patton.....	2.00	10.00 3.00
Variegated Lawson.....	4.00	35.00 5.00
Glendale.....	3.00	25.00 4.00
Orala.....	5.00	40.00 6.00

Ready for shipment, from 2 1/2 in. pots, Pink Lawson, Red Lawson, White Lawson, Variegated Lawson, Glendale, Gov. Wolcott, Cardinal, Rose Pink Enchantress and Robt. Craig.
Special price on fine, healthy, well rooted, stock of Prosperity, per 1000, \$12.50.

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BEST COMMERCIAL VARIETIES ONLY

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POEHLMANN BROS. COMPANY, MORTON GROVE, ILL.

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	Per 100		Per 100
RICHMOND.....	\$10.00	KILLARNEY.....	\$15.00
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Strong stock, 3-in. pots, \$6.00 per 100.
Careful packing, liberal count.

WEATHERED BOILER, for sale cheap.

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We offer exceptionally strong two-year-old dormant, low-budded stock (on Manetti), in the following varieties:
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Ball of Snow, pure white.
Baron de Bonstetten, dark crimson shaded.
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Mrs. Planter, white.
Mrs. John Laing, soft pink; most desirable variety.
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Prince Camille de Rohan, velvety crimson.
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Prices on H. P. Roses \$1.25 per 10; \$11.00 per 100; \$100.00 per 1000.
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Maman Cochet, pink. Maman Cochet, white. Unequaled as bedders for Summer bloom-

ing, producing buds of large size and of ideal form. The buds are of the color and form of Bridesmaid and Bride, but larger, and outside will yield more blooms than the latter will under glass. The two finest outdoor Roses yet introduced. Strong 2-year-old plants, 10 for \$1.50; \$12.00 per 100.
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Irish Grown From the Raiser.
Good strong two-year-old plants, \$3.00 per 10; \$27.50 per 100.

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Like Persian Yellow, this variety is perfectly hardy, with large, full, globular flowers, varying in color from gold and orange to reddish gold, shaded with astringent red. Two-year-old budded plants, per 10, \$2.00; per 100, \$15.00.

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ETOILE DE FRANCE
Superb crimson red velvet, the center of the bloom vivid cerise red. The flowers are very fragrant and last long. This new variety is the result of a cross between Madame Abel Chateau and Fisher Holmes. Field-grown, strong two-year-old plants, \$2.75 per 10; \$25.00 per 100.

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On Best English Manetti Stock

2 1/2 inch pots; A No. 1 Stock
KAISERIN, KILLARNEY, RICHMOND, \$10.00 per 100.

BOSTON FERNS, pot grown, strong plants, 5 in., 25c.; 6 in., 35c.

SCOTCH, 5 in., 25c.; 6 in., 35c.; 7 in., 45c.

ELEGANTISSIMA, 5 in., 35c.; 6 in., 50c.

S. J. REUTER
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2 YEAR OLD ROSES

4 in. pots; Climbers, in assortment, at \$8.00 per 100. 2 1/4 in. Roses, 40 varieties, all colors, at \$2.00 per 100; \$16.00 per 1000.

2 1/4 in. stock **GERANIUMS, AGERATUM, FERULIUMS, VIOLETS, HIBISCUS, P. BEGONIA, FUCHSIA, HELIOTROPE, HONEYSUCKLE, ASPERAGUS,** \$2.50 per 100. **OLEUS, ALTERNANFERA** \$2.00 per 100. **PERNS,** 2 1/4 in., Boston Pearson, Scotch, at \$3.00 per 100. **Tarrytown, Barrow,** at \$5.00 per 100.

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Cabbaga, New Early, and Succession, 25 cts. per 100; \$1.50 per 1000. Lettuce, Grand Rapids, Big Boston, Boston Market and Tennis Ball, \$1.00 per 1000. Parsley, Moss Cutled, 25 cts. per 100; \$1.25 per 1000. Best, Eclipse, 25 cts. per 100; \$1.25 per 1000. Celery, White Plume, White Solid, also Celeriac, G. Prague, 20 cts. per 100; \$1.25 per 1000. Egg Plants, New York Improved, Small, \$2.00 per 1000. Peppers, Bull Nose and Sweet Mountain, Small, \$2.00 per 1000. Tomatoes, Small Plants, Earlaana, Early Jewel, Lorillard, May Flower, and other early kinds, 30 cts. per 100, \$2.00 per 1000. Stone Perfection and other late kinds, \$1.00 per 1000. Cast with Order.
R. VINCENT, JR. & SON, White Marsh, Md.



QUESTION BOX

Wire Grass On Lawn

(63) Can any reader inform me how to exterminate a wire grass that bears a small blue flower and that has ruined my lawn? Last year I had the lawn plowed and raked without getting out the grass.

CHICAGO.
—Will some reader give a good remedy for this pest and oblige.

Manure from Spent Mushroom Bed.

(64) Can manure from spent mushroom bed be used outdoors without injury to general bedding stock?

Penna. A. M. B.
—Manure from a spent mushroom bed is a very good fertilizer for outdoors, can be used freely and there is no danger of any injurious effects from its use.

Ants in Carnation Houses.

(65) What is the best means of eradicating ants from carnation houses?

Cal. D. B.
—A very good remedy for ants is the following: Make a mixture consisting of one-third Fowler's solution of arsenic and two-thirds common sugar syrup. Scatter a few drops of this near the runways of the ants. This is a sure remedy and one from the use of which no danger will result.

Hydrangeas in Tubs.

(66) Is it advisable to give tub hydrangeas a heavy cutting back, about the same as Hydrangea paniculata? Can a plant too large for its tub be safely divided? What soil is best for tub hydrangeas?

Mass. H. H.
—Hydrangeas that are grown in tubs flower only on the wood that was made the preceding year, consequently it will be seen that to cut these back heavily will be to cut away all the flowering wood, and by so doing a season's flowers would be entirely lost. We would advise cutting out a few of the weak growths that are not likely to be strong enough to bloom, if there are any such, and in re-tubbing we would use a soil composed of one-fifth thoroughly decomposed manure and four-fifths fresh loam. We do not think the plant could be divided with any degree of success.

ENDTZ, VAN NES & CO.
BOSKOOP, HOLLAND

Are offering this season the grand New Pink Baby Rambler rose

ANNY MULLER

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EXTRA SELECTED, TWO-YEAR FIELD GROWN, including Hy. Irid Teaz, H. P. Climbers, Standards, Etc. Specimen Evergreens, Rhododendron, Maximium and English Hybrids, Shrubs, Fruits, Ines, Etc.

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Now is the Time to Order EASTER PLANTS

- PLUMOSUS, 2 1/2 in., \$3.00 per 100
- 4 in., 10.00
- Bridesmaids, Golden Gate, Ivory, Kaiserin, etc., 2 in., \$3.00 per 100; \$25.00 per 1000.
- MUMS, General Nolia, 2 1/2 in. pots, \$3.00 per 100
- " " " R. C. " " " 2.50 " "
- Mrs. G. A. Lotze, fine com. white, 5.00 per doz.; \$25.00 per 100.
- Mrs. Geo. Truffett " " " 2.00 " "
- Bestrice May " " " .75 " "
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- Mrs. John E. Dunne " " " .75 " "
- General Hutton " " " .75 " "
- Mrs. D. V. West " " " .75 " "
- Ivory, Kalm, Willow Brook, Jerome Jones Queen, Nellie Pickett, Robinson, Ben Wells, Glory of the Pacific, Joha K. Shaw, Chamberlain, Dr. Enguehard, Wm. Duckham, Balfour, Helen Frick, Quits, Cobbold, Boaffon, Halliday, Appleton, H. A. Parr, G. T. Bear, Brutus, Edgar Saunders, rooted cuttings, \$1.50 per 100; 2 in. pots, \$2.00 per 100.

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- DEUTZIAS, 50c. each.
- GENISTAS, 15c. to \$2.00 each.
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- HERMOSA BOSS, 35c. and 50c. each.
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- PALMS and FERNS in fine condition.

JOHN BADER, Mt. Troy, Allegheny, Pa.

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 strong and well rooted, 60c. per 100; \$5.00 per 1000.
AGERATUM, PRINCESS PAULINE, well rooted, 60c. per 100; \$4.00 per 1000, Cash.
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 - 5 in. 1.00
 - 3 in. .50
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 - 6 in. 2.00
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- Outor in pots, 12 1/2 and 15c. per bud or bloom.
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 - Tulips, 6 in. pans, \$3.00 per doz.
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 - All plants in very reliable condition.
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Fine, young stock; 2 1-4 in., \$8.00 per 100; \$75.00 per 1000.
Bride, Bridesmaid, Perle,
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250,000 CHRYSANTHEMUMS

MONROVIA, POLLY ROSE, ROBINSON, WM. DUCKHAM, PINK PACIFIC, BONNAFFON, J. JONES.
Rooted Cuttings, \$1.25 per 100, \$10.00 per 1000.
ALICE BYRON, CHELTONI, EATON, IVORY, APPLETON, DR. ENGUEHARD.
\$2.00 per 100, \$15.00 per 1000.
Healthy Stock. Enough ssid. BOX 48 FARMINGDALE, L.

WM. BECKER, Farmingdale, L.

CHRYSANTHEMUMS

White Shaw, the very best second early 'Mum' takes place of Robinson. No grower should be without it. \$4.00 per 100, rooted cuttings; unrooted, \$2.00.

CARNATIONS

Mrs. W. T. Omwaka (Enchantress Sport), Pink Patten and Mikado, \$4.00 per 100, rooted cuttings; \$2.00 per 100, unrooted. CASE.
HENRY EICHHOLZ, Waynesboro, Pa.

GOLDEN DOME

There is nothing to equal it. Stock ready now. \$35.00 per 100; \$5.00 per dozen.
S. S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa.

GERANIUMS

Rooted in sand, then grown in pots a month. Sent free of Soil.
Dbl. Grant, Bachaer, Pottvine, Ricard, Perkins, Viand, Nutt, Doyle, La Croix and Mixed, \$1.50 per 100. Geraniums are ready. Coleus are all sold to April 10th.
COLEUS Verschaff., G. Bedder, and brightest. Fancy mixed, strong, 60c. per 100.
GLADIOLI Groff's Hybrids, blooming size, 50c. per 100.
SAGE, Ball of Fire, best in every way, R. C. 50c. per 100.
We send plants by express only and not prepaid.
DANIEL K. HERR, Lancaster Pa.

MYRTLE—Vinca Minor

20,000 MYRTLE, \$10.00, \$20.00 and \$40.00 per 1000. Other Hardy Roots and Plants. List free.
S. J. GALLOWAY, Eaton, O.

First Class Stock

200,000 Bedding plants. Dreer's superb, single, fringed PETUNIAS, N. VERBENAS, SALVIAS, AGERATUM, LOBELIA, COLEUS, strong, 2 in., \$1.75 per 100; \$18.00 per 1000.
Standard GERANIUMS, extra strong branched, 3 in., \$40.00 per 1000.
DRACAENA INDIVISA, 5 in., \$2.00; 6 in., \$3.00; 3-4 ft., \$4.00 per doz.
Wanted some MME. SALLEROI GERANIUMS and VINCAS.
For sale, 50 Hotbed Sash, in good condition, \$1.25 each. Cash.

WM. S. HERZOG, MORRIS PLAINS, N. J.

GERANIUMS

Big lot of 3 inch plants ready April and May.

PETER BROWN, Lancaster, Pa.

Cineraria

4, 6 and 8 in., 10c. to 25c.
Primula Obconica 2 1/4, 3 and 4 in. pots 2 1/2c. 5c. 8c. and 10c.
Primula Chinensis 4 in., 10c. Oxalis (pink) 3 1/2 in., 8c.
Double Alyssum, 2 1/4 in., 2 1/2c. All the above in full bloom.
R. O. Double Alyssum, Salvia, Heliotrope, Gnaphes, \$1.00 per 100.
Double Nasturtiums, two kinds, \$1.50 per 100.
Chrysanthemums, all best varieties.

STAFFORD FLORAL CO., Stafford Springs, Conn.

Ivy English, 2 to 3 1/2 ft., one to three branches, per 100, \$12.50.
Apparagus Plumbeus, 2 1/2 in., per 100, \$4.00; A. Spranger, per 100, \$3.00; 3 1/2 in., per 100, \$6.00.
Branched Ferns, from pots and bench.

Write for Prices.
THOMAS STOCK, 251 Minor Street, Dorchester, Mass.

GERANIUMS

for bedding out. Ready May 10th.
WM. J. CHINNICK, Trenton, N. J.

COLEUS

VERSCHAPPELTIL, GOLDEN QUEEN, FIRE BRAND, LORD PALMESTON, QUEEN VICTORIA, BECKWITH'S GEM.
Prices of Rooted Cuttings by Express, 60 cents per 100; \$5.00 per 1,000.
GOLDEN BEDDER. Golden Yellow—the old original, true to name. Rooted cuttings, 75c. per 100; \$6 per 1,000.
FANCY VARIETIES. In addition to those named we offer a fine stock of twelve kinds, 75c. per 100; \$6 per 1,000. Strong cuttings. Free from Mealy bugs.

AGERATUM
STELLA GURNEY, Dwarf Blue, 75c. per 100; \$6 per 1,000.
PRINCESS PAULINE, a combine of blue and white in same flower, 75 cents per 100; \$6 per 1,000.

SALVIA
SPLENDENS, tall standard, one of the best, rooted cuttings, 75c. per 100; \$6 per 1,000.

BONFIRE, medium dwarf, very good, rooted cuttings, 75c. per 100; \$6 per 1,000.

HELIOTROPE
ROOTED CUTTINGS, 75c. per 100; \$6 per 1,000.

A. N. Pierson, Cromwell, Conn.

SEEDLINGS

VERBENAS (6 colors), PHLOX DRUMMOND, ALYSSUMS, (L'th's Gam), STOCKS, (3 colors), 38c. per 100; \$2.50 per 1000. SALVIA BONFIRE, DUSTY MILLER, 40c. per 100; \$3.00 per 1000. Grown from the best seed. AGERATUMS, imitable, Giant Blue, R. O. \$1.00 per 100; 2 1/2 in., \$2.50 per 100.

J. C. Schmidt Co., Bristol, Pa.

CYCLAMEN SPLENDENS GIGANTEUM

The best strain in the market, in five colors, transplanted from flats, \$3.00 per 100.
C. KRETCHMAN, Hewletts, L. I., N. Y.

DREER'S SPECIALS

— IN —

HARDY PERENNIALS

Largest assortment of desirable varieties, plants of proper size to give the best immediate results. For our complete list of varieties see our current wholesale list

	Per doz.	Per 100
ACHILLEA, The Pearl, 3-in. pots.....	\$0 75	\$6 00
Millefolium Roseum, 3 in. pots.....	85	6 00
ACONITUM in variety. Strong roots.....	1 25	8 00
ANTHERICUM Lillago and Lillastrum	75	6 00
ALYSSUM Saxatile Compactum, 3 in. pots	75	6 00
ANEMONE Japonica, 3-in. pots.....	85	6 00
Alba, 2-in. pots	85	6 00
Elegantissima, 3-in. pots	85	6 00
Lady Ardian, 3-in. pots	85	6 00
Queen Charlotte, 3-in. pots	85	6 00
Rosa Superba, 3-in. pots	85	6 00
AQUILEGIA in variety, 3-in. pots	85	6 00
ARABIS Alpina, 3-in. pots	75	6 00
Flore Plena, 3-in. pots	85	6 00
ARMERIA Meritima Splendens, 3-in. pots	85	6 00
Alba, 3-in. pots	85	6 00
ARTEMISIA in variety, 3-in. pots	85	6 00
HARDY Asters (Michaelmas Daisies). Strong plants	1 00	7 00
BOCCONIA Cordata. Strong roots	85	6 00
BOLTONIA Asteroides, 4-in. pots	85	6 00
Latisquama, 4-in. pots	85	6 00
CALLIHOE Involucrata, 3-in. pots	1 00	7 00
CAMPANULA Carpatica. Blue and white, 4-in. pots	85	6 00
Medis. Double and Single, 4-in. pots	85	6 00
Calycothemata, 4-in. pots	85	6 00
Persicifolia Moerheimi, 3-in. pots	1 25	10 00
Frymidaalis, 3-in. pots	85	6 00
CARYOPTEIS Mastacanthus, 3-in. pots	85	6 00
CASSIA Marylandica. Strong roots	85	6 00
CERASTIUM Tomentosum, 3-in. pots	85	6 00
CHELONE in variety. Strong plants	1 25	8 00
CHRYSANthemum Maximum Triumph, 4-in. pots	85	6 00
Shasta Daisy, 2-in. pots	75	5 00
Hardy Pompons, 25 varieties, 2 1/4-in. pots	60	4 00
CLEMATIS Davidiana. Strong 2-yr-old	85	6 00
Recta. Strong 2-yr-old	1 50	12 00
Integrifolia. Strong 2-yr-old	1 25	8 00
COREOPSIS Lanceolata Grandiflora, 4-in. pots	75	5 00
DELPHINIUM Belladonna, 3-in. pots	2 00	15 00
Chinese, 1-yr. field grown	75	5 00
Alba, 1-yr. field grown	75	5 00
Formosum, 1-yr. field grown	85	6 00
Mixed Hybrids, 1-yr. field grown	85	6 00
DICTAMNUS Fraxinella and Alba. Strong plants	1 25	8 00
DIELYTRA Spectabilis. Strong clumps	85	6 00
Formosa, 4-in. pots	1 00	7 00
DIGITALIS Gloxiniflora, 4-in. pots	85	6 00
DORONICUM in variety, 3-in. pots	1 25	8 00
EPIMEDIUM in variety. Strong plants	1 50	10 00
ERYNGIUM Amethystinum, 4-in. pots	1 50	10 00
ERIGERON in variety, 3-in. pots	1 00	7 00
EUPATORIUM Ageratoides. Strong plants	85	6 00
Celestinum, 3-in. pots	85	6 00
EUPHORBIA Corollata, 3-in. pots	75	5 00
FUNKIA Cœrulea. Strong roots	75	5 00
Subcordata Grandiflora. Strong roots	1 25	8 00
Undulata Media Pieta. Strong roots	85	6 00
GAILLARDIA Grandiflora. Strong, 4-in. pots	85	6 00
GERANIUM Sanguineum, 4-in. pots	85	6 00
Album, 4-in. pots	85	6 00
GEUM in variety, 3-in. pots	1 00	7 00
GLECHOMA Variegata. Strong plants	85	6 00
GYPSOPHILLA Panlœnata. Strong roots	85	6 00
Fl. Pl. Strong roots	3 00	
HEMEROCALLIS in variety. Strong plants	85	6 00
HIBISCUS Crimæon Eye, 2-yr-old	85	6 00
Moschentos, 2-yr-old	85	6 00

	Per doz.	Per 100
HELENIUM Antumnale Superba, 4-in. pots	1 00	7 00
Grandcephalum Striatum, 3-in. pots	85	6 00
Hoopel, 4-in. pots	1 00	7 00
Pumilum Magnificum, 4-in. pots	1 00	7 00
Riverton Gem, 3-in. pots (New)	3 00	
HELIANTHUS in variety. Strong plants	85	6 00
HELIOPSIS Pitcheriannus, 4-in. pots	85	6 00
Semi Plena, 3-in. pots	85	6 00
Scaber Major, 4-in. pots	1 00	7 00
HOLLYHOCKS—Dreer's Superb Double. White, yellow, pink, salmon, maroon, red, 1-yr-old clumps	1 50	10 00



DELPHINIUM BELLADONNA

HOLLYHOCKS, Dreer's Double in mixture, 1-yr-old roots	1 25	8 00
Fringed Allegheny, in mixture, 1-yr-old roots	1 25	8 00
Single Mixed, 1-yr-old roots	1 25	8 00
HYPERICUM Moserianum, Strong plants	1 25	8 00
IBERIS Sempervirens, 3-in. pots	85	6 00
Flora Plena, 3-in. pots	1 00	7 00
IRIS Kampeferi (Japan Iris). 20 choice-named varieties	1 50	10 00
In choice mixtures	1 00	7 00
Germanica, 12 choice-named varieties	85	6 00
In choice mixture	60	4 00
INCARVILLEA Delavayii. Strong roots	1 50	10 00
LIATRIS in variety. Strong roots	85	6 00
LOBELIA Cardinalis, 3-in. pots	85	6 00
Syphilitica, 4-in. pots	85	6 00
LYSIMACHIA Clethroides, 4-in. pots	85	6 00
LYCHNIS Chalcedonicæ, Alba and Carnea, 3-in. pots	85	6 00
Flora Plena, 3-in. pots	2 00	15 00
Haagsana, 3-in. pots	85	6 00
Semperlorens Plenissima, 3-in. pots	1 25	8 00
Vespertina Alba Plena, 4-in. pots	1 50	12 00
Viecris Splendens, 4-in. pots	1 25	8 00

	Per doz.	Per 100
LYTHEUM Roseum Superbum, 4-in. pots	85	6 00
MONARDA Didyma in variety, 4-in. pots	85	6 00
OENOTHERA in variety, 3-in. pots	85	6 00
PAPAVER Orientale. Named varieties, 4-in. pots	1 50	10 00
Choicest mixture, 4-in. pots	85	6 00
Nudicaulis (Iceland Poppy). Choice mixed, 3-in. pots	85	6 00
PAEONIES, Choice Double Herbaceous	1 50	12 00
PENTSTEMONS in variety. Strong plants	1 00	7 00
PHYSOSTEGIA Virginica and Alba	85	6 00
PINKS, Hardy Garden in variety, 4-in. pots	85	6 00
PLATYCODON Blue and White, 2-yr-old roots	85	6 00
PLUMBAGO Larpentæ. Strong 3-in. pots	1 00	7 00
POTENTILLAS in variety. Strong plants	1 00	7 00
PHLOXES. These are one of our leading specialties. Send for special list of new, popular and standard varieties, strong plants	75	5 00
PHLOX Subulata Rosea, Alba, Nelsoni, The Bride, Lilacina and Atropurpurea. Strong clumps	75	5 00
PRIMULA Cortusoides Sieboldi. 6 distinct varieties	1 50	10 00
Veris (English Cowslip). Choice mixture	75	5 00
Superba, Giant yellow	1 00	7 00
PRYETHRUM Hybridum. Choice seedlings, 4-in. pots	1 25	8 00
Uliginozum. Clumps	85	6 00
RANUNCULUS Acris Flora Plena. Strong plants	85	6 00
RUDEBECKIA Golden Glow. Strong plants	85	6 00
Newman, 3-in. pots	1 00	7 00
Purpurea, 3-in. pots	1 00	7 00
Sub-Tomentosa, 4-in. pots	1 00	7 00
Trioba, 4-in. pots	1 00	7 00
SALVIA Azurea Grandiflora, 4-in. pots	1 00	7 00
SAKIFRAGA (Megasea) in variety. Strong plants	2 00	15 00
SCARIOSEA Caucasica, 3-in. pots	1 25	8 00
SEDUM Spectabilis. Strong clumps	1 00	7 00
Atropurpurea. Strong clumps	1 50	10 00
In variety. Strong clumps	85	6 00
SENECIO Pulcher, 3-in. pots	1 00	7 00
SOLIDAGO in variety	85	6 00
SPIRÆEA Aruncus, clumps	1 00	7 00
Chinese, clumps	1 25	8 00
Filipendulina Flora Plena, clumps	85	6 00
Gigantea, clumps	1 50	10 00
Palmata, clumps	1 00	7 00
Elegans, clumps	1 00	7 00
Ulmaria Flora Plena, clumps	85	6 00
Venusta, 4-in. pots	85	6 00
STATICE in variety, 4-in. pots	85	6 00
STOEBIA Cœnea. Strong, 4-in. pots	75	5 00
THALICTRUMS in variety. Strong plants	1 00	7 00
TRILLIUS Arantiacus, 4-in. pots	2 00	15 00
Europæus, 4-in. pots	1 00	7 00
Japonicus Excelsior, 4-in. pots	2 00	16 00
Orange Globe, 4-in. pots	2 00	15 00
Fortunei Flora Plena, 4-in. pots	2 50	20 00
Giganteus, 4-in. pots	2 50	20 00
TRITOMA Corallina, strong divisions	1 50	10 00
Obelisque, strong divisions	1 50	10 00
Enfus, strong divisions	2 00	15 00
Tricolor, strong divisions	2 00	15 00
Uvaria Grandiflora, strong divisions	1 00	6 00
VALERIANA Coccinea and Alba. Strong roots	1 25	8 00
Officinalis, 4-in. pots	1 25	8 00
VERONICA Longifolia Subsessilis. Strong plants	1 25	8 00
Spicata, Blue and White, 4-in. pots	1 00	7 00
VIOLA Cornuta (Tufted Pansies), 4 colors	50	3 00

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

The above prices are only for the trade and not for the retail buyer

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.



Decorative Plants.

TUBEROUS BEGONIAS.—Although in Summer flowers are reasonably plentiful, also plants for decoration by retail florists, still I have often known it to occur that a difficulty arose out of the scarcity of suitable material even in the middle of Summer when an order called for plants in bloom for a table decoration. Tuberosus begonias, although now principally made use of for outdoor planting, are nevertheless very suitable for such purposes as I have referred to. For these purposes the plants can be grown in a bench and lifted when called into action; or, better than that, they can be grown in 5-inch pots and reserved for such use. This type of begonia is now so much improved that in some of the choicer varieties will be found material for very effective work in decoration. Many persons favor the double varieties, but I think there is but little if any fault to be found with a well-grown plant of the single, especially the red.

Tuberosus-rooted begonias are easily raised from seed from which, flowering plants will develop within the year, but at this time of the year, when it is a little late for seed sowing, it will be better for those desirous of securing serviceable plants to purchase bulbs from some reliable source where they can be obtained nowadays at a very reasonable price.

CALADIUMS are among the most showy and attractive of decorative foliage plants and the increasing demand for a greater variety for commercial purposes is causing more attention to be given to these beautiful plants. The culture of caladiums does not differ very much in point of difficulty at least from that of many other plants commonly grown. Caladiums are easily propagated by division of the tubers early in Spring, or just when growth commences. About the first of March it is time to start the tubers growing; and probably the best and most expeditious method is first to sort all the available tubers into sizes, keeping each size separate, and then place each separate batch in a box

of boxes, using nothing but moss in the boxes. The tubers may be placed close to one another, as their stay in the boxes will not be long enough to injure them by crowding. Cover the tubers with about three-fourths of an inch of moss. If a temperature of at least 70 degrees cannot be kept up, it will be better to construct a covered frame over the pipes, where by keeping the sash on that temperature can be maintained.

When from the tubers roots have made their appearance, the plants should be potted in the smallest size pots into which they can be put, in soil composed of leaf mold two parts with the other part of sand and peat in equal proportions. Shift the plants into larger pots whenever they show that they need it. Water should be carefully and rather sparingly given at the roots until they have made some progress in growth. For subsequent potting afford soil composed of leaf mold, fibrous loam and peat in equal parts, with the addition of a little well rotted manure and sand.

Caladiums should be grown in a position near the glass but shaded from bright sunlight. They like a rather humid atmosphere, and when growing vigorously and pushing ahead to final development a liberal supply of water is absolutely essential. In the Fall, when their season of usefulness is over, caladiums should be gradually deprived of water until they drop all their leaves, when they may be stored for the Winter underneath a bench, laying the pots on their sides. Or when ripened, as noted, the tubers may be taken out of the soil in the pots and placed in sand for the Winter. In either case the temperature surrounding them should not be under 50 degrees, neither should the tubers be allowed to get bone dry or too wet.

ALOCASIAS in their tropical luxuriance of growth are almost indispensable where a large and varied collection of plants are under cultivation in greenhouses or private estates, as well for their unmatched qualities for making such houses attractive to visit as for their usefulness when removed temporarily to conservatories for display or

even for brief periods to the less favorable conditions of private dwellings where they will, if carefully attended to, stand for a time uninjured.

It is fully as much because of the immense proportions of their leaves, their great adornment, as from any other cause incident to cultivation that alocasias are not more largely grown commercially for decorative purposes, although recently it has been noted that florists doing a first-class business have frequently made effective use of one or more noble specimens in the decoration of windows. When a florist has on hand a decoration in plants, where full scope is allowed, the use of a few alocasias will add a richness to the effect that the use of but few other plants can give.

Alocasias are propagated by suckers or cuttings of the rhizomes. These may be placed in small pots filled with peat and sand in equal proportions, and the pots plunged in a close frame over bottom heat in a temperature of 70 degrees. It is very important to put drainage material in the pots to at least fill one-third of the pot room. The stems of alocasias can also be cut up, leaving with each piece one bud, then placing them in boxes much the same way as suggested for caladiums, and treated in like manner and started about the same time. It is essential for success that in the case of the evergreen species the potting material should be raised up cone-shape above the rim of the pot, with a surface covering of live sphagnum moss. Alocasias require liberal supplies of water at the roots, but they should not be violently syringed; an occasional spraying with an atomizer will, however, benefit the foliage greatly. A humid atmosphere is a necessity to their well-doing. On nearing Winter the evergreen kinds should receive less water and be kept in a drier atmosphere than formerly. With herbaceous kinds, water can be sparingly given until finally they can be put to rest without receiving any for a time, and kept thus in a temperature not lower than 50 degrees for the Winter.

PHENIX ROEBELENI.—With in the past year it is wonderful how this palm has pushed into prominence and that considering that it is by no means a new variety; but perhaps it is still more wonderful that its claims for universal recognition were not long since recognized.

Phenix Roebelenii is for many purposes far ahead of any other variety of phenix, and I might go as far as to say that in some respects and for some practical uses it will in time take the place of Cocos Weddeliana, because it is of a more rugged constitution and capable of standing rougher usage, while at the same time it possesses, to a certain degree at least, the characteristic coccosfulness of frond that has made the coccos so much prized.

In another way it has the advantage of the coccos, in that the longer it is in the owner's possession the more valuable it becomes for more imposing effects; and although the other may also be valuable at maturity, so few survive to that stage because of the difficulty in keeping them in perfect condition, that as specimens they are not taken much into consideration. Not so with Phenix Roebelenii, however, because it becomes easier to manage the larger it gets. Anyone having use and space should not delay purchasing a number of Phenix Roebelenii; in fact, those who do not will before long understand they have made a mistake.

D. M.

BOOKS

GARDENER'S ASSISTANT,	\$15.00
Write for Prospectus	
VIOLET CULTURE,	1.50
THE HEATHER,	1.50
AMERICAN CARNATION,	3.50
PLANT CULTURE,	1.00
HOUSE PLANTS, cloth	1.00
“ “ paper	.50
RESIDENTIAL SITES,	2.50
TELEGRAPH CODE,	2.50

A. T. De La Mare Ptg. and Pub. Co. Ltd., N. Y.

Orders Booked Now

For Henderson's Superior

Lilium Harrisii Bulbs

For Delivery (crops permitting) in July and August 1907,

Prices—f. o. b. N. Y. City

	100	1000
First Size Bulbs (5 to 7 inches in circumference)	\$3 75	\$36 00
Intermediate Size (6 to 7 inches in circumference)	4 50	42 00
Extra Size Bulbs (7 to 9 inches in circumference)	7 50	72 00
Mammoth Bulbs (9 to 11 inches in circumference)	18 00	

Let Us Quote You on Your Other SUMMER and FALL BULBS

ROMANS, PAPER WHITES, FREESIAS,
DUTCH HYACINTHS, TULIPS, NARCISSUS,
VALLEY, Etc.

We import the greatest variety and largest quantities of strictly High Quality Bulbs of any Firm in America!

Everything to gain Nothing to Lose

By placing your bulb orders with us early, for should anything be offered by us later at a lower price we will give you the benefit

Send for Henderson's "Bulb Bargains" for Florists, Just Issued—Mailed Free

PETER HENDERSON & CO.

35 @ 37 Cortlandt Street, NEW YORK

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ASTERS

Are our specialties, and great care is taken to have only the best, and those that will give the greatest satisfaction. We have been very highly complimented on the choiceness of our strains.

ASTER. Queen of the Market. This is the earliest of all, fully three weeks earlier than other Asters.

	Trade	pkt.	1/2 oz.	oz.
Selected white.....	\$0	10	15	\$0 50
Selected crimson.....		10	15	50
Selected rose.....		10	15	50
Selected light blue....		10	15	50
Selected dark blue....		10	15	50
Selected flesh color....		10	15	50
Selected lilac red.....		10	15	50
Selected mixed.....		10	15	40
Giant Comet, pure white.	25	75	3 00	
Giant Comet, dark blue..	25	75	2 00	
Giant Comet, light rose..	25	75	2 00	
Giant Comet, mixed.....	20	60	1 75	
Comet Empress Freder- ick, pure white.....	25	1 00	3 00	
Comet King Humbert, giant pure white of the most refined comet shape	25	1 00	3 00	
ASTER. Dwarf Chrysanthemum. Fine for growing for pot plants.				
Pure white	25	75	2 00	
Dark blue.....	25	75	2 00	
Scarlet	25	75	2 00	
Mixed	20	50	1 75	
ASTER. Hohenzollern. Excellent robust new class, with enormous flowers, superb for cutting and exhibiting; flowers often measuring 6 to 8 inches in diameter.				
Hohenzollern. White....	25	75	2 00	
Rose	25	75	2 00	
Dark blue.....	25	75	2 00	

	Trade	pkt.	1/2 oz.	oz.
Crown Prince.....	\$0	25	\$0 90	\$3 00
Syringa blue.....		50	1 50	5 00
Mixed		25	75	2 00
ASTER. Truffaut's Peony Flowered Perfection. A fine Aster either for pots or cutting.				
Pure white.....	20	60	1 75	
Dark blue.....	20	50	1 75	
Scarlet	20	50	1 75	
Rose	20	50	1 75	
Mixed	15	40	1 50	
ASTER. Victoria Dwarf.				
Pure white.....	25	75	2 50	
Dark blue.....	25	75	2 50	
Rose	25	75	2 50	
Scarlet	25	75	2 50	
Mixed	20	60	2 00	
ASTER. Dwarf Queen. Beautiful early class for pots, beds and borders.				
Dwarf Queen. White....	20	75	2 00	
Brilliant rose.....	20	75	2 00	
Light blue.....	20	75	2 00	
Dark blue.....	20	75	2 00	
Crimson	20	75	2 00	
Mixed	10	50	1 50	
Carlson's Improved. A fine Aster for cutting.				
Carlson's Early, white..	25	50	1 50	
Carlson's Late, white..	25	50	1 50	
Carlson's Late, pink...	25	50	1 50	
Carlson's Late, lavender	25	50	1 50	
Triumph.				
Dark Scarlet.....	25	90	3 00	
Violet	25	90	3 00	
White	25	90	3 00	
Mixed	20	80	2 50	



ASTER PURITY

GOLD MEDAL STRAIN

BEGONIAS

Tuberous Rooted

	doz.	100		doz.	100
Single White	\$0 40	\$2 50	Double White	\$0 65	\$5 00
" Yellow	40	50	" Yellow	65	5 00
" Nankeen	40	50	" Orange	65	5 00
" Pink	40	50	" Rose	65	5 00
" Rose	40	50	" Dark Rose.....	65	5 00
" Red	40	50	" Dark Red.....	65	5 00
" Dark Red.....	40	50	" Red	65	5 00
" Salmon	40	50	" Salmon	65	5 00
" Orange	40	50	" Mixed	50	4 00
" Mixed	35	25			



BEGONIAS

Caladium Esculentum

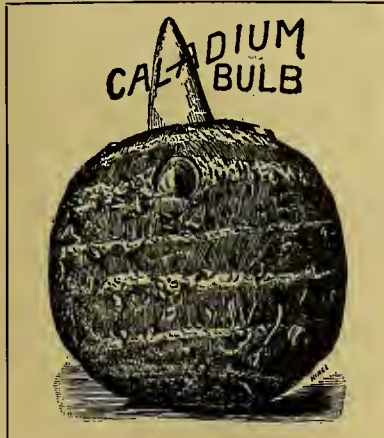
Or Elephant's Ear

	doz.	100
Size 5x7 inch bulbs	\$0 26	\$2 00
Size 7x9 inch bulbs	48	3 00
Size 9x11 inch bulbs	35	6 00
Size 12 inch and over bulbs.	2 40	16 00

Gladiolus Bulbs

Of the following varieties we have exceptionally large and choice stock.

	100	1000	5000
Augusta	\$2 50	\$20 00	\$95 00
Brenchleyensis, selected 1st prize....	1 50	10 00	47 50
May	2 00	15 00	60 00
White and Light....	1 50	12 00	57 50
Special Mixed, extra large selected bulbs	1 00	8 00	37 50
Tuberoses Excelsior Pearl, 4x6—1st size	9 00	40 00	



Stumpp & Walter Co., 50 Barclay St. New York

VICK'S ASTER SEED

The Standard of Excellence

We have introduced more up-to-date Florists' varieties than all other American Seedsmen combined

Vick Quality ASTERS

Introduced by us
grown everywhere

Vick's Branching
(7 colors)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Mikado
Vick's Violet King

For descriptions, illustrations
and prices see our Aster
Book for Florists.

How To Grow Asters
is a little handbook
compiled by us for the
practical uses of Aster
Growers.

Price 10 Cents
Free with an order of
Aster Seed.

SPECIAL OFFER
One paper of each of
Five New Varieties
and How to Grow
Asters for \$1.00.

SEND FOR OUR NEW Illustrated and Descriptive

Aster Book For Florists

It describes in detail not only the
varieties originating with us, but also all
the other leading sorts.

The largest and handsomest work of its
kind ever issued.

Intended only for wide-awake florists
who appreciate the fact that

The Best Quality is Always the Cheapest

Mailed free upon request.

If you want our complete Florists' Wholesale Catalogue,
ask for it.

JAMES VICK'S SONS ROCHESTER, N. Y.

The Leading Specialists and Largest
Growers of High Grade Asters
in the World.

Five New Varieties For 1907

VICK'S SUNSET. Companion to Daybreak
and Purity, in color a delicate pink shading to
a deep rich pink in center. Profuse bloomer.
Price per packet, 25c.; 2 pkts. 40c.

VICK'S UPRIGHT. Long graceful stems
branch out at the ground and grow directly
upward. Flowers are symmetrical, double
and full to the center. Splendid for cutting.
Especially valuable for shipping. Price per
packet, 25c.; 2 pkts. 40c.

VICK'S ROYAL PURPLE. An offshoot from
the Branching. Unlike its parent it sends out
stems close to the ground. A medium early
variety but lasting until late in fall. Nearly
every stem produces specimen flowers. Price
per packet, 20c.; 2 pkts. 35c.

VICK'S BRANCHING ROSY CARMINE. A new
color in the Branching Class. Leading florists
pronounce it a shade which will be popular
with the trade. Price per packet, 25c.; 2
pkts. 40c.

VICK'S CARDINAL. The best bedding Aster
ever introduced. A good one for cutting.
With its profusion of flowers and brilliant
coloring it makes a handsome showing. Price
per packet, 25c.; 2 pkts. 40c.

For illustrations and prices per ounce see our
ASTER BOOK FOR FLORISTS.

As we would like to know where you saw this adv. please mention The Florists' Exchange when you write.

Miscellaneous Stock---Surplus

ASPARGUS SPRENGERI, 2½ in., \$2.50 per 100.
ANTHERICUM VIVATUM VARIEGATUM, \$3.00 per 100.
BEGONIA VULCAN and **VERNON**, 2 in. ready for shift, \$2.50 per 100.
HARDY PINES, 2 in. in variety, \$2.50 per 100.
GLOXINIA BULBS, Separate colors, \$4.00 per 100.
CANNAS—Chas. Henderson, David Harum, Mlle. Berat, Shenandoah,
Italia, Duke of Marlborough, Pres. Carnot, 2 and 3 eye pieces, \$2.00
per 100, \$17.00 per 1000. (See catalog No. 5 for complete list.)
ROSES—Strong young plants of Clothilde Soupert, Champion Climbing
Soupert, Empress China, Golden Gate, Gruss Au Teplitz, Meteor-
Mosella, Papa Gontier, Safrano, \$3.00 per 100, \$25.00 per 1000.
CARNATIONS—Fairmaid, Mrs. Lawson, The Queen, Queen Louise, Bos-
ton Market, from flats of soil, \$2.50 per 100.

The **STORRS & HARRISON CO.**,
PAINESVILLE, OHIO.

The Best Either to Buy or Sell

It has been my desire for some
time past to inform you of a re-
cent sale of greenhouse property.
The property in question is that
formerly owned by John Dingwall,
purchased by R. W. Zobel.

Mr. Dingwall, over a year, tried
to sell his property, and placed
such in the hands of every real
estate agent in this city; but they
all reported their inability to find
a purchaser. Being a personal
friend of Dingwall, I interested
myself in his affairs, and hence
suggested that if he would insert
an advertisement in The Florists'
Exchange, he would surely get a
purchaser before the Summer of
1906. Advertisement was written
up and signed "Graveline," for-
warded to The Florists' Exchange,
and in less than one month the

property was sold, and the pur-
chaser is well satisfied, and would
not sell for 50 per cent. more than
the purchase price.

My object in writing to you is
to set forth the great value of
your paper as the best advertising
medium from a florist's standpoint.

Personally, I have procured
good bargains through your paper.
Pardon this lengthy letter; the
sale was too good to keep down.
J. H. VOGEL.

Albany, N. Y.

P. S.—In a recent purchase of
glass, I procured such of the
Metropolitan Material Company of
Brooklyn at \$1 less per box than
of local houses. Again it shows
the necessity of careful perusal of
the advertisements as noted in The
Exchange.

THE WEEK'S WORK.

Timme's Timely Teachings.

Bedding Plants.

It is surprising to behold the growth
of the plant trade as the years roll by.
The annual increase in business, how-
ever this branch of horticultural activ-
ity has been made a specialty or an
important side line, has in every in-
stance been far greater than was an-
ticipated. Great numbers of potted
plants for indoor embellishment and as
holiday offerings are raised and readily
disposed of, and their culture has be-
come an item of diligent study and close
attention. But more than this has the
trade increased in bedding plants and
anything of whatever kind or class
suitable for outdoor planting in the
Spring of the year. It is a trade not
confined to any one part or locality but
flourishing and gaining in importance in
all sections of the country wherever flor-
ists are willing to give it the attention
it deserves. There is even no need of
being favorably located for the retailing
of bedding plants and they may still be
grown and disposed of by the thousands.
A few good orders from some good-sized
resorts, summering places, hotels or
brother florists running short of stock,
will often make away with the entire
contents of an establishment. A good
grower may make a specialty of any one
of the leading kinds, such as geraniums,
pansies, etc., and he will encounter no
trouble in gathering in orders in plenty;
and if his stock comes anyway near
being uncommonly good, it will soon be
known, and a sound foundation for a
thriving business is laid. As in all
other lines of trade quality is the path-
finder to success, and knowing how wins
out against all odds.

Not Everybody's Hobby.

That the culture of bedding plants,
though highly profitable, is not to every-
body's liking is a fact and it is one
not hard to understand. There are a
great many reasons which deter florists
starting into business from going into
this. The raising and oft-repeated
handling of many and varied kinds of
plants involves a great amount of labor,
diversified culture, economical manage-
ment and wise forethought, requires ade-
quate and proper facilities and all this
work of well-timed preparation finally

culminates in a few weeks of the most
strenuous business activity, each trans-
action in character differing widely from
the other, but all alike in their being
rushed along under the high pressure
force, exerted by a fleeting season and
augmented by the element of impatience
strongly manifest in every order received.
Such high-speed trading and multi-
farious activity has naturally little at-
traction in it for the man of easy going
habits and staid composure, but the
principal objection to the business in
nearly all cases is the raising and care
of many kinds of stock, a phase of
gardening that does not appeal to the
adepts of present day floriculture. To
a few of the very best of us, though,
and to a host of others it is a line of
industry eminently congenial. Those
truly interested in gardening and not op-
posed to hustling, like the business, and
the number of these is growing from
year to year. Still one cannot help but
admit that the retail florist in a good
location, who refuses no business in his
line, makes up floral pieces, plants trees,
shrubs and climbers, raises everything
in the bedding and pot plant line, makes
lawns, decorates, fills vases and boxes,
is a mighty busy man.

Care of Bedding Stock.

Making a good and timely start in
the raising of bedding plants means
much in making it a successful line of
business. Of equal importance is the
kind of care the stock receives after it
is started. Being intended for outdoor
planting, this object should never be
lost sight of by the grower, nor should
he ever forget that if his stock does well
for his customers this season it will be
more heavily called for next year. Any-
thing new, exceedingly pleasing and do-
ing finely in one garden this Summer
will certainly be wanted by a number
of new customers next Spring. Any-
thing of the more common species,
frivolous things as ordinarily grown by
the people themselves, often arouse won-
der and admiration when raised by and
bought from the florist. Asters, stocks,
zinnias and petunias are examples.
These and many others things, easily
and quickly grown into salable size,
must now be included in every complete
collection of bedding material and are
called for every Spring. It is plain that
the profit on stock of this description
must be far greater than that realized
from the sales of geraniums, pansies,
coleus and all the hundred and one kinds
of greenhouse plants carried along for
nearly a year or more. I sow petunias
in the beginning of March and sell them
in May for from 40c. to \$1 per dozen
out of two, three or four-inch pots. Of
course, it is understood that none but
the very best strains of seeds procurable
are used in handling any of these com-
mon annuals. This is one point de-
serving attention; and the other of even
more importance is stocky, robust
growth, made in cool, light and airy
quarters, as much as ever possible away
from fire heat and up to the clear light.
A temperature close down to freezing,
even occasionally dipping below the
mark, will do less harm to such things
as petunias, asters, stocks, verbenas, lo-
belias, myosotis, snapdragons, phlox,
pinks and carnations, than would a
steady temperature of 55 or 60 degrees.
Most bedding plants of this kind are
grown in too great a heat at just about
this time. From now on outdoor frames
should freely be used for the more hardy
plants, so as to gain more room in the
houses for those of tender growth, which
latter should not be transferred to
frames before May.

Bedding plants of rapid growth—and
nearly all kinds are such at this season
—should be allowed to become reason-
ably well root-bound in their pots by
the time sales begin, so that in packing,
shipping and handling they do not lose
what in being pot-grown they may have
gained in price and value. Stock thus
becoming more firmly root-bound from
day to day, while at the same time the
sun heat grows stronger right along,
needs the closest attention as to water-
ing, and if this is given as it should,
will remain in a better condition for
marketing and planting out than when
re-potted at the eleventh hour. And
here is a good place for the remark that
size and condition of the plant, of what-
ever kind it may be, should govern the
height of the price, not the size of the
pot. Needless repotting of stock which
would be in better selling shape without
it, too late a transplanting of such that
needs it, a frequent shifting of stock

A Special Light Mixture of GLADIOLI for Florists

¶ You cannot duplicate the quality for several times the price.

¶ There are varieties in this mixture you would not sell for fifteen dollars per hundred.

¶ The vitality and power of multiplication is exceptional.

What Do You Think of This UNPARALLELED OFFER?

1907

ARTHUR COWEE, Gladiolus Specialist
Meadowvale Farm, Berlin, N. Y.

Dear Sir:

Herewith find \$ _____ for which you may enter
my order for _____ thousand of your Meadowvale
our Florist's Light Mixture to be shipped via ^{freight}_{express} about
_____ F. O. B. Berlin, N. Y.

This order was given by ^{me}_{us} and taken by you with the understanding that if given proper soil and cultivation, we can, after blooming this season (1907) conscientiously say we have not received full value ^I_{we} can, at harvest time, return the stock, together with its increase in bulbs and cormels to you via ^{freight}_{express} and you will refund the above amount paid.

If returned ^{freight}_{express} charges will be paid by ^{me}_{us}.

Name _____

Town _____ County _____

State _____

This order has been accepted and entered under the above Conditions.

Berlin, N. Y., _____ 190_____

¶ For forcing I can recommend it as being almost equal to the best named varieties generally used for that purpose.

¶ It contains named novelties of merit, and hybrids bred especially to supply the needs of Florists requiring light colors.

HAVING for many years experimented extensively to the end of supplying a White and Light Mixture especially adapted to the Florist's trade, for Funeral and Decorative Work where light colors alone would be appropriate, I am now prepared to furnish my Meadowvale Florist's Light Mixture, which I can guarantee to contain the best quality obtainable in the world at the price. There is such a variation in Florist's Mixtures, as generally offered, that I do not wonder at the frequent disgust of the purchaser, and in my preparation of this stock I have endeavored to eliminate every variety with which the most critical Florist could find fault.

This Mixture was offered last Spring for the first time and over 500,000 were placed and not one complaint received, a sure indication that it was favorably received by the Florists. For this season, 1906-1907, it will be sold only by me and in lots of not less than 1,000 or more. Price \$15.00 per thousand F. O. B. Berlin, N. Y., cash with order, and will be sold subject to the conditions on above order blank.

This offer will hold good as long as the stock lasts and orders will be entered in their turn, although shipment may not be required until later.

When the stock is all sold, this offer will be withdrawn, without further notice, therefore do not delay and miss it.

May I not have the opportunity of demonstrating that I have a Mixture which, after growing one season, you would not part with for double the price paid? If so, fill out the order blank and send to me with remittance; I will sign and return duplicate to you.

Illustrated Catalogue of other collections, mixtures and named varieties will be mailed upon application.

ARTHUR COWEE, Gladiolus Specialist
Meadowvale Farm, Berlin, N. Y.



**NEW DOUBLE
PETUNIA
THE
QUEEN**

A wonderful bloomer; flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer.

Strong plants in bud and bloom 24 in. pots, \$10.00 per 100. Rooted Cuttings will make fine plants for Decoration Day, \$5.00 per 100.

The Yates Floral Co.
Jos. Traudt, Prop.
Canajoharie, N. Y.
Scranton Florist
Supply Co.
SCRANTON, PA.

from place to place when a rightly chosen position in the first potting would have answered right along until such stock is disposed of, in short, mismanagement of whatever description cuts down profits considerably.

Marketable Condition of Stock.

Bedding plants, which, of course, includes anything and everything made use of in the filling of boxes, urns and vases, must be in proper condition for the uses assigned to them when leaving the establishment of the florist. They must not only look well when sold, delivered and planted out, but must continue to do well right along when properly taken care of. The remark so often made by a large class of people that they would rather raise their own plants as best they could, than to buy plants from the "hothouse," which invariably die down with them as soon as put in the garden, tells the whole tale, and to disprove its truth should be the aim of every plantsman. The transfer of bedding stock from the florist's place to the grounds of his customers, instead of acting as a set-back, should impart renewed vigor and be a guarantee for continued well-being. In trying to build up a flourishing trade in bedding plants this point is worth while considering.

Stock especially raised and dealt in for outdoor planting should, in the first place, never be actually forced or grown under conditions causing a too rapid or a too soft growth. A gradual hardening off, a weaning to outdoor conditions as the planting season draws nearer properly prepares the stock for its last move, and renders the final change beneficial rather than a risky or harmful proceeding. As the weather becomes warmer and the plants stronger it will be safe and proper to reduce fire heat and atmospheric moisture, to expose the stock to the fullest light and to admit air in ample measure. How soon this hardening off should begin and in what manner it can best be accomplished depends largely on the character of the stock, which, of course, varies greatly.

The selling of bedding plants out of trays, as practiced years ago and still in vogue on many places, is one of the causes of disappointment to buyers. Many of the things usually so grown could just as well be raised in pots. It takes no longer to pot a plant than to transplant it into other trays, and what little more room it takes up when potted, is well paid for by the higher price it brings, by increased sales and by the greater satisfaction it gives to those that buy and plant it. A petunia, snapdragon or an aster coming out of a small pot is quite a different thing from any such dug out of trays or cold frames, which latter are possibly all right for the gardener's own use but are not what should be offered to a good patronage. To illustrate how unwise it is to follow the course set by an old custom I need only point to the difference in the price obtainable for plants

raised in either form. Verbenas, phlox, petunias and like plants, sold out of trays, bring from fifteen to twenty cents per dozen, while those coming out of two or two and a half-inch pots easily sell at more than double that price and are preferred by most buyers.

The Price of Plants.

The question coming up every Spring and forming the essence of a letter before me: "What is the proper retail price of the various kinds and sizes of plants raised for Spring sales and outdoor planting?" is one not easily answered if put in that form. Attempts have been made to establish a fixed standard of quality in plants—a thing plainly impossible to do. As long as this cannot be done—yes, and even if it could—the fixing of, and holding to a uniform standard of ruling prices will ever remain a difficult undertaking. At present retail prices of plants of the same size and grade vary considerably, even among growers located in one and the same narrow precinct. Keen competition, of course, has much to do with this and will always have to be reckoned with, more or less. Killing off a number of price-cutting competitors is probably the only remedy, but I believe that is against the law.

I probably come nearest to answering the question intelligently by briefly stating the prices asked and obtained in the last two years for the stock raised and handled on my own place. Geraniums, heliotropes, lantanas, salvias and anything from the ordinary run of greenhouse stock in four-inch pots and in bloom, excepting novelties, is sold at from \$1 to \$1.50 per dozen, from 15c. to 25c. a piece or from \$3 to \$10 per 100 (retail); the range in price being governed by grade or quality of plants. Extra good five-inch plants of this kind easily bring \$2 per dozen. Good 3-inch stock of this and all kinds of bedding plants, including cannas, dahlias, coleus, perennials, ferns, climbers, etc., brings from 60c. to \$1 a dozen, or 10c. a-piece and three for 25c.—always excepting anything new or rare. Pansies, daisies and a few other things, coming out of frames, retail at 40c. or 50c. a dozen and are often sold to customers by the hundred at \$3 per hundred, in which case they usually take them as they come, whether all in bloom or not. All the commoner kinds of bedding stock, coming out of two-inch pots, bring the same price as pansies. Any planting of purchased or ordered stock to be done by us, is charged for at the rate of 25c. per hour. All delivering within two miles is done gratis; if much farther than that, car fare or extra pay is collected. Vases of about two feet in diameter are filled for from \$3 to \$5; boxes of about nine inches in width for from 60c. to \$1 per running foot, the carting back and forth, if this is wanted, being included in the price.

FRED. W. TIMME.



**PREPARE
FOR
EASTER**

*From lands afar, where the choicest are,
I gather the plants I supply;
Or grow my own, with care unknown,
So the best are the sort you buy.
Then send in your orders, and see your
trade grow,
None can surpass Aschmann, wherever
you go.*

An immense stock of choice Easter plants, blooming Easter week or earlier if desired, are now ready for immediate shipment.

COME or Mail your order direct to Headquarters.

Our reputation over the entire country, from the Atlantic to the Pacific, in growing Easter stock for many years past, is sufficient guarantee to prove what I say. We have every house, nook, hole and corner full; plants were never so fine as they are this year, 1907.

While laborers, merchants, jobbers, contractors, builders, etc., have increased their prices nearly double, we DO NOT advance our prices; look! I sell our plants at the same old prices charged two or three years ago when the producing of plants was much cheaper.

Latrobe, Pa., February 18, 1907

MR. GODFREY ASCHMANN, Philadelphia, Pa.

Dear Sir:—I received your plants in good condition. Satisfactory to me in every way. I am pleased.
227 Loyalhanna St.
EDWARD LEIZMANN.

Providence, R. I., March 13, 1907.

MR. G. ASCHMANN, Philadelphia, Pa.

Dear Sir:—Lilies received to-day in fine condition. Am very much pleased with them; not a bud damaged. Thanking you for your kindness, I remain,
76 Atlantic Avenue. F. B. SUTKER, Florist.

Philadelphia, Pa., February 25, 1907

"I have seen Mr. Aschmann's Easter stock and I can truthfully say that it never looked finer, and stock never before so large, and I am pleased to recommend our customers to Mr. Aschmann."
F. J. MICHELL,
1018 Market Street.
Of the firm of Henry F. Michell Co.

What was my duty during my trip to Ghent, Belgium, the land of Azaleas, Araucarias and Palms, last Fall, 1906? Answer: The interests of my customers, of course; not speaking of the 1100 Souvenir Cards which I mailed to my customers in America. I also bought for their benefit, AZALEA INDICA for Easter sales, the cream of Belgium's production. I am able to offer to my customers and the trade in general, two houses full of Mme. Van Der Cruyssen azaleas, the well-known and most favored, best double, pink azalea, giving so much satisfaction all over America. Plants as round as an apple, just covered with buds, 6-7 in. pots at 60c., 75c., \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each. Other fine varieties adapted for the American Market, such as Nibbe, Bernard Andrew, Alba, Deutsche Perle (double white), Prof. Wolters, Empresa of India, Vervaeckena (double variegated), and about eight more fine sorts, all covered with buds, price 75c., \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each. We have a limited quantity of 50c. to 60c. azaleas, such as Apollo (double dark scarlet), Deutsche Perle, Simou Mardner, and a few others.

Lilium Multiflorum and Japan Longiflorum were never so fine as this year. All sizes; can meet all wants 6 in. pots, 5 to 8 buds to a plant, 10c. per bud; four buds and under, 12c. per bud. Fully 3/4 (one-half) of 3-4 buds to a plant must be taken in addition with 5 and above. Plants are very large and bushy, and unusually fine this year, full of buds; price, 50c., 75c. to \$1.00 each.
Hydrangea Otaksa (pink) 6 to 7 in. pots, 40c., 50c., 75c., \$1.00, \$1.25 to \$1.50 each.
Cineraria, Hybrida, have a house full, all shades, 5 1/2 to 6 in. pots, \$2.50, \$3.00, \$4.00 to \$5.00 per doz.

Crimson Rambler Rose, 3 ft. high and over, \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each.
Begonia, new improved Erfordi, an immense bloom, blooms all summer and winter through, 5 1/2 in. pots \$3.00 per doz.; 4 in., \$1.80 per doz.
Primula Obconica, 5 1/2 in. pots, \$2.50 per doz.; 4 in., \$1.80 per doz.
Arauca Sapida (palm), 6 in. pots, 50c.
Draacna Braunii, 6 in., 50c.
FERNS, Nephrolepis Barrowsi, 6 in., 50c. to 75c.; 5 to 5 1/2 in., 40c. Scottii, 8 in., very long, \$1.50 each, 5 in. Sc. Boston Ferns, 6 in. pots, 25c. to 30c.; 6 in., 40c. to 50c.; 7 in., 75c.
Kentia Fosteriana, 7 in. pots, make up one large one in center, three small ones around, \$1.60 to \$1.75. Kentia Forsteriana, single plant, 36, 45 to 50 in. high, \$1.00, \$1.25, to \$1.50 each.

ARAUCAARIA COMPACTA ROBUSTA, 5 year old, 7 in. pot, 25 to 30 in. high, same in width, 4 to 5 tiers, very awell stuff, \$1.00, \$1.75, to \$2.50 each. Araucaria Excela Glauca, 20 in. high, 4 tiers, 4 year old, \$1.00, \$1.25 to \$1.50 each. Specimen Glauca, 7 in. pots, 5 year old, 5 tiers, 30 to 35 in. high, \$3.00 each. Araucaria Excela, 4 year old, 6 in. pots, 25 to 35 in. high, 5, 6 to 7 tiers, \$1.00, \$1.25 to \$1.60 each.

Hyalocynth, raised from first class bulbs of my own importation. Notice: These bulbs cannot be compared with ordinary stuff flooding the market. King of the Blues, Grand Maitre (Lavender blue), Gertrude (best pink), Grandese (white), 4 in. pots, \$12.00 per 100.

Tulips, Tournesol, red and yellow variegated; this is the best selling tulip on the market, will stay in full bloom 10 days, 3 bulbs planted into a 4 in. pot; price \$12.00 per 100 or \$1.50 per doz. pots.

Narcissus, or Double Von Sion Daffodils best double yellow in the world, will sell on sight, 3 double nosed bulbs planted into a 5 1/2 to 6 in. pot; price, \$2.50 to \$3.00 per doz. pots. All bulbs are of my own importation. Ready for immediate sale.

MOON VINE, Ipomoea Multiflora, (A. W. Smith, originator), best pure white, largest and most fragrant moon vine in the world. We have made a specialty of it for the past 15 years, and are known as the moon vine growers of America. Grow 20,000 of them, 2 1/2 in. pots, \$5.00 per 100; now ready.

Mention if pots are wanted with all plants. For the reason that the cultivation of Lilies is expensive and because we sell our Lilies cheap, some other plants must be taken in connection with them. Cash with order, please. All goods must travel at purchaser's risk only.

GODFREY ASCHMANN,

Importer and Wholesale Grower of Pot Plants

1012 Ontario Street, PHILADELPHIA, PA.

J. F. ROSENFELD, WEST POINT, NEBR.

WHOLESALE GROWER OF PEONIES

WOULD LIKE TO FIGURE ON YOUR WANTS FOR NEXT FALL

SEND FOR TRADE LIST

AMONG THE GROWERS

A Visit to Tarrytown and Scarborough, N. Y.

A number of gardeners from Orange N. J., on the invitation of F. R. Pierson recently visited Tarrytown and Scarborough, N. Y. The visitors were met at the Tarrytown greenhouses by F. R. Pierson, who conducted them through the place. The various stocks looked well, and much of interest was seen. A new fern of dwarf compact growth was particularly noted. This will undoubtedly be heard from later, as it will make a splendid house plant.

After the party had been hospitably entertained to dinner by Mr. Pierson at the Florence Hotel they were taken for a five-mile sleigh ride to the Scarborough greenhouses, noted these many years for roses, American Beauty in particular, and at present for Winsor carnation.

Mr. Pierson courteously explained in detail the erection and working of the new houses. Many varieties of carnations are grown and all are looking well, but Winsor stands in a class by itself. A U-Bar house, 56 feet wide and 300 feet long, filled with this variety simply loaded with bloom is a sight that will be remembered by the writer for many a year. As showing its free flowering qualities even in cloudy weather there had been cut from February 1 to 15 21,290 flowers. The beauty of this variety also is that there are practically no culls, and no splits. A look into the new flower cellar was of much interest. This building just finished is 25x50 feet and is thoroughly equipped with every convenience for ship-



Sweet Pea Christmas

Grower, William Sim, Cliftondale, Mass.

William Sim, Cliftondale, Mass.

In these days of specialization of crops no better example of the success of the master of this art can be found than at the well-known establishment of William Sim, Cliftondale, Mass. There are two specialties grown at the present time at this now mammoth establishment, violets and sweet peas. The flower-loving public of Boston have decreed that in violets the single varieties are the favorites, and it is to these flowers that Mr. Sim devotes most of his space. The variety mostly grown is Princess of Wales, and the magnificent blooms supplied from this establishment to the Boston trade have become well known and are readily sought after by those handling the better class of trade.

It is within a comparatively few years that advancement has been made in the improvement of varieties of violets, but just as surely as roses or carnations have made improvement will violets have to keep pace with the times. Apropos of this we find here a violet of superb quality, of a color and form of flower its own, in short, as much superior to the best variety we have heretofore seen as that variety is superior to the once famed California now never heard of. This variety originated with James Wheeler of Brookline, Mass., and is being grown in quantity for the first time this year by Mr. Sim. It has been named Boston, and that it will prove worthy of the appellation the growers are already assured. The individual flowers are large and well

formed, of the shape of a small sized pausy. The foliage is entirely distinct, being much more tomentose than that of any of the other varieties. It is a strong grower and free bloomer and will, without doubt, be the violet of the future. We have pleasure in presenting to our readers the first illustrations ever given of this variety. The view of the house shows the beds as they appeared during the last week of February, and the other illustration will demonstrate the distinctness of the foliage and blooms.

It is within the past five years that sweet peas have become a standard flower during all of the Winter months and I believe I am right in giving Mr. Sim the credit for making this possible. The sweet peas at this establishment this year are quite up to the record of former years. The blooms are large and have grand stems; they all average eighteen inches in length and many of them over twenty. The illustration shows the variety Christmas in its present state of perfection. The variety Mont Blanc is equally good. Besides these varieties Mr. Sim is this year trying a lot of varieties that have been originated by A. C. Zvolanek. Some very fine flowers are seen among some of the shades of lavender and purple, while among the scarlets the most striking sort seemed to be Mrs. Wild.

Mr. Sim follows his Winter crops of violets and sweet peas with tomatoes, and as an expert grower of these he has also established himself. Already thirty thousand plants are potted and of good size to fill the space in the houses which will be empty in the near future. The only variety grown is Comet, it having proven the best and most prolific sort for cultivation under glass.

JOHN W. DUNCAN.



Flowers and Leaves of Violet Boston

Grower, William Sim

ping. Among other varieties we saw a cut of 3,900 Winsor. It was a beautiful sight. The flowers are shipped in paper boxes to the New York market, 52 in a box, and a piece of tissue paper is placed between every layer. When filled in this way the boxes have a neat, taking appearance.

The two latest houses built contain the standard varieties of carnations, and although planted late these look well. These houses, size 56x350 feet, are heated by hot water on the most approved and we believe the most economical system in existence. There is one boiler to each house, and although they have lots to do in keeping such immense structures warm, Mr. Pierson assured as they did the work easily. There were over a quarter of a million carnation cuttings in the propagating benches, looking in the very best of health. The whole place was spick and span and reflects great credit on Mr. Pierson and his foreman, Mr. Hill. Many things too numerous to mention were taken note of by the party both inside and in the nurseries.

On the return journey by sleigh to Tarrytown a call was made at Wm. Rockefeller's place. Here we were escorted through the large range of houses by the genial head gardener, George Middleton. Everything looked well, and a wonderful quantity of flowers, fruits and vegetables is produced from this range in a year.

From here the sleigh was taken for Tarrytown, where Mr. Pierson bade the visitors good bye and all returned to Orange highly delighted with their pleasant outing.

GARDENER.



House of New Violet Boston

Grower, William Sim, Cliftondale, Mass.

MISS KATE MOULTON

What Richmond Is in Red
Kate Is in Pink

YOU WILL NOT MAKE ANY MISTAKE IN PLANTING
A LARGE STOCK OF THIS BEAUTIFUL ROSE

Rooted Cuttings All Sold Out

Plants in 2½ inch pots for late March delivery will be ready.
Order direct from Headquarters. Write for Prices

MINNEAPOLIS FLORAL CO., MINNEAPOLIS, Minn.



THE NEW PINK ROSE "AURORA"

This rose is a seedling from Bon Silene and Souvenir du President Carnot. The flowers are large and full and are produced on strong and stiff stems, with a rich dark green foliage. The color is a beautiful pink with a deeper shading in the center. The keeping quality of the flowers is excellent, and it does not lose its brilliancy of color when kept in the cellar. The habit of growth is strong and vigorous; it has absolutely no tendency to go dormant during the Winter and every shoot has a flower bud.

Aurora has inherited the productiveness of Bon Silene and has the free flowering qualities of this well known prolific variety. It is easy to grow, and does not need a high temperature.

Plants from 2 1-2 in. pots, \$6.00 per doz.
\$ 30.00 per 100 } 50 at 100 rates
250.00 per 1000 } 250 at 1000 rates

Ready for delivery on and after April 15, 1917.
Order at once if you wish to receive the early prepared stock. All orders filled in rotation.
Unknown parties, cash with order, please.

PAUL NIEHOFF
LEHIGHTON, PA.

Grafted Roses

We offer this year the following assortment: **Bride, Bridesmaid, Bon Silene, Etolle de France, Franz Deegan, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta, Victoria, Killarney, La Detroit, Mme. Abel Chatenay, Mme. Caroline Teetont, Mme. Koete, Mrs. Pierpont Morgan, Maman Cochet, Marechal Niel, Perle Des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.**

The above grafted from 2½ inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2½ inch pots, repotted from 2 inch, \$5.00 per 100; \$50.00 per 1,000.

The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.

AMERICAN BEAUTY

On own roots, from 2½ inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

OUR GUARANTEE GOES WITH EVERY PLANT.
A. N. PIERSON, Cromwell, Conn.

GRAFTED ROSES

On Dicksons' Irish Manetti.
We are now booking orders for March delivery. **KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND;** \$120 per 1000.
Order Now

ROBERT SCOTT & SON,
SHARON HILL, DEL. CO. PA

PLANT CULTURE
Price, - - - \$1.00.

A. T. De La Mare Ptg. & Pub. Co.

HARDY PHLOX

MISS LINGARD, best white summer cut flower, R. C., \$30.00 per 1000.
CARNATION ABUNDANCE, R. C., \$40.00 per 1000; from 2 in. pots, \$60.00 per 1000.
HYDRANGEA HORTENSIS GRANDIFLORA, R. C., \$50.00 per 1000. Cash with order.

L. I. NEFF, PITTSBURG, PA.

GRAFTED ROSES

Brides and Bridesmaids.
EDW. J. TAYLOR
Southport, Conn.

Kaiserin Roses

From 2-in. pots, for sale at Rose Lawn Greenhouses, \$3.00 per 100.
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Indianapolis Ind. News Items.

The outlook for an immense Easter trade was never better, notwithstanding a few dismal reports in regard to the lily situation. The bulk of humanity is well supplied with money and the local florists have an unprecedented amount of fine material to offer. Why should not this Easter be a record-breaker? Fred. Huckleide's establishment is fairly alive with a quantity of unseasonable lightning bugs. Even his best friends accuse him of burrying his lily crop with artificial light.

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The seed business has opened up and is most gratefully received after a long period of rest. Huntington & Page are making extensive preparations to handle more trade than in the past. About twelve members attended the March meeting of the State Florists' Association. The Spring show will be held April 10th at the State House Horticultural Rooms. H. W. Rieman, F. Alley, F. Harritt and H. Schilling were appointed a committee to arrange for the exhibit. Premium lists may be had of A. F. J. Baur, secretary.

Herman Junge inspected the Noblesville greenhouses; they are to be disposed of shortly. Stuart & Haugh of Anderson, Ind., are contemplating a new water tank system.

Walter H. Bertermann transacted business in Cincinnati the latter part of the week. Bert Eschner spent Sunday in Indianapolis with friends.

Charles Ealand has accepted a position with A. Wiegand & Son. W. Dunderstadt and Homer Weigand have been taking an inventory of the Easter preparations in Chicago.

I. B. TOLEDO, OHIO—Louise K. Miller, curator of gardening in the Cleveland schools, delivered a very interesting lecture before the City Federation of Women's Clubs on "School and Home Gardening." Miss Miller talked interestingly and showed photographs of city yards before and after the planting.

Our Home Gardening Association has distributed for several years flowers and vegetable seeds to the amount of about \$150 each year and there is no question, but that this tends largely more than anything else to create love for flowers and gardening in general, and that these children when grown up will be steady customers of florists, seedsmen and nurserymen. Such institutions should certainly be encouraged by the trade through the offer of prizes for well grown plants.

Artificial Coloration of Flowers.

There are in the trade some who believe in "painting the lily," dyeing carnations green, and things of that sort, and for the information of all such we submit the following: Everybody knows, says l'Horticulture Nouvelle, that by plunging the stems in aqueous solutions of various colors, we can obtain in less than an hour's time, flowers with petals artificially tinted in a beautiful way. The solutions should be of a strength of 7 or 8 gms. to the liter of water. When the desired tint is obtained withdraw the stems and put them in plain water. The colors that may be employed are as follows: Acid yellow AT, which imparts a canary yellow. Cyanol FF, which colors a deep blue. Orange GG, tints in orange. Acidmagenta, colors in purple red. Grocline MOO, colors in salmon red. Crystal scarlet, CR, colors in pale salmon. Beta naphol black, colors a deep grey. Mixtures of equal parts of acid yellow and cyanol yield a green color; acid yellow and acid magenta, a crimson; and cyanol, with acid magenta, a purple.

ALTERNANTHERAS STRONG ROOTED CUTTINGS. RED and YELLOW at 50c. per 100, or \$4.00 per 1000. BRILLIANTISSIMA (the best red) at 60c. per 100, or \$5.00 per 1000. DAVIS BROS., Morrison, Ill.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties
 Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

A. J. GUTTMAN,

JOHN E. HAINES,

The Wholesale Florist of New York,
 43 WEST 28TH STREET.

BETHLEHEM, PA.

Rooted Carnation Cuttings

WHITE PERFECTION, pure white, extra fine stock, \$6.00 per 100, \$50.00 per 1000
 DAYBREAK LAWSON, or MELODY, the ideal light pink, better than Enchantress
 in many respects, \$6.00 per 100, \$50.00 per 1000.

Here is our list of other varieties for March Delivery

	Per 100	Per 1000		Per 100	Per 1000
White Lawson	\$3 00	\$25 00	Cardinal	\$4 00	\$30 00
Lady Bountiful	3 00	25 00	Red Lawson	4 00	30 00
Lieut. Peary	4 00	30 00	Helen Goddard	5 00	45 00
Red Riding Hood	12 00	100 00	Variegated Lawson	3 00	25 00
			Harlowarden, crimson	2 00	15 00

CHICAGO CARNATION CO.,

A. T. PYFER, Mgr.,

JOLIET, ILL.

Chrysanthemum Cuttings

\$2.00 per 100, \$15.00 per 1000. **Cromo**, Mrs. Nathan Smith, Majestic, Ivory, Marstham Yellow, Adelia, Yellow Bonaffon, White Bonaffon, Pink Ivory, W. H. Chadwick, Estelle, Tousef, Glory of Pacific, Mrs. Robinson.

Roses

from 2 1/2 inch pots, \$3.00 per 100, \$25.00 per 1000. **Mme. Chatenay**, Bride, Richmond, Bridesmaid, Uncle John, Golden Gate. American Beauties from 2 1/2 inch pots \$50.00 per 1000.

Aristocrat.

As we have no more room in the propagating house we beg to offer UNROOTED cuttings of ARISTOCRAT at \$60.00 per 1000, for immediate delivery.

ARISTOCRAT is a very rapid grower and you will find this is not too late for this variety to make good plants to sell from the field this Fall.

NOTICE—We expect to have all orders for Aristocrat filled before the end of the month. We now have 100,000 cuttings in the sand for April delivery.

CARNATIONS

FROM SOIL.

	Per 1000	Per 100		Per 1000	Per 100
THE QUEEN, at	\$15.00	\$1.50	NELSON FISHER, at	\$20.00	\$2.00

FROM THE CUTTING BENCH.

	Per 1000	Per 100		Per 1000	Per 100
THE QUEEN, at	\$12.50	\$1.25	ENCHANTRESS, at	\$17.50	\$1.75
NELSON FISHER, at	15.00	1.50	BOUNTIFUL, at	17.50	1.75

About the middle of April I will have a big lot of BOUNTIFUL, QUEEN, ENCHANTRESS NELSON FISHER and JOHN E. HAINES at late in the season prices

ALBERT M. HERR, Lancaster, Pa.

Rooted Carnation Cuttings

	Per 100	Per 1000		Per 100	Per 1000
White Perfection	\$6.00	\$50.00	The Balls	\$2.50	\$20.00
Glendale	5.00	40.00	White Lawson	2.50	20.00
Victory	5.00	40.00	Enchantress	2.50	20.00
Robert Craig	5.00	40.00	Nelson Fisher	2.50	20.00
Flances	2.50	20.00	Harry Penn	2.00	15.00
Cardinal	2.50	20.00	Mrs. T. W. Lawson	1.50	12.00
Lady Bountiful	2.50	20.00	Boston Market	1.50	12.00

ASPARAGUS. Ready for shift, strong.
 ASPARAGUS SPRENCERI. 3 inch \$4.00 per 100; 4 inch \$6.00, 5 inch \$20.00.
 ASPARAGUS PLUMOSUS. 3 inch \$5.00, 6 inch \$20.00. Cash or O. O. D.
 COLEUS. Assorted rooted cuttings, 60c. per 100; \$5.00 per 1000; 2 in. \$2.00 per 100.

W. J. & M. S. VESEY, Fort Wayne, Ind.

MABELLE--New Pink Carnation for 1907

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size.—Three to four inches in diameter when established. Odor.—Pleasing, but not strong. Stems.—Invariably strong, but always graceful, reaching from 12 to 30 inches during the season. Habit, etc.—A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after bending. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness.—Productions the best word we know of to use here. It is the most incessant bloomer early and late. We have ever grown stock limited. No discounts. First class certificates Madison and Indianapolis. Delivery Jan. 5th to 15th and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD.

White Enchantress

white sport of Enchantress, rooted cuttings \$12 per 100; \$100 per 1000.

E. SCHRADER
 NEW SPRINGVILLE, Richmond Borough, N. Y.

CARNATIONS

Strong, healthy, well rooted stock

	per 100	per 1000	from pots
White Lawson	\$3.00	\$25.00	\$3.50
Bountiful	3.00	25.00	3.50
Cardinal	2.50	22.50	3.00
Enchantress	2.50	22.50	3.00
Lawson	2.00	15.00	2.50
Harlowarden	2.00	15.00	2.50
Queen	2.00	15.00	2.50
Boston Market	1.50	12.50	2.00

Cash with Order. Satisfaction guaranteed.

SMITH & GANNETT

Geneva, New York

Ready Now—Rooted Cuttings

Of Enchantress, \$2.50 per 100; \$20.00 per 1000. The best commercial light pink Carnation on the market. 1000 rooted cuttings of **Robert Craig** \$6.00 per 100; \$50.00 per 1000. A very one red, just the right color for Christmas. Our stock is O. K. Write for price list of other standard varieties.

VALLEY VIEW GREENHOUSES,
 VELLIE BROS., Props., Marlborough, N. Y.



SAVE YOUR SPLIT CARNATIONS

The Hair Clip and Plier will do it in a BERNESLIKE manner at a minimum of time and expense. Saves lots of money. Inexpensive, instantaneously applied and Practically invisible. The Clips are made of galvanized wire and are colored green just the color of the calyx and can hardly be detected. Thoroughly UP-TO-DATE in every particular.

Plier \$3.00; 1000 Clips \$1.00; postage prepa'd. All the leading dealers in Florists' Supplies, or direct from

BAUR FLORAL CO., Erie, Pa.

LOOK HERE

ROOTED CARNATION CUTTINGS

250 at 1000 rate

LADY BOUNTIFUL, WHITE LAWSON, VARI-GATED LAWSON, \$3.00 per 100; \$25.00 per 1000.

MRS. PATTEN, ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000.

BOSTON MARKET, FAIR MAID, QUEEN LOUISE, HARLOWARDEN, PROSPERITY, MRS. LAWSON, \$2.00 per 100; \$15.00 per 1000.

HELEN GODDARD, \$5.00 per 100.

WILSON MARSHALL, Red Seedling; \$5.00 per 100; \$45.00 per 1000.

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JOHN E. HAINES

The leading scarlet, Lilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place.

ROOTED CUTTINGS, \$8.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

CARNATIONS ROOTED CUTTINGS

Ready Now—Prompt Delivery.

Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000.

F. DORNER & SONS CO., La Fayette, Ind

UNROOTED

CARNATION CUTTINGS

LARCHMONT NURSERIES, Larchmont, N. Y.

CARNATIONS—ROOTED CUTTINGS

	100	1000
ENCHANTRESS	\$2.50	\$20.00
WHITE LAWSON	2.75	23.00
MRS. T. W. LAWSON	1.50	12.00
QUEEN	2.00	15.00
VICTORY (Strong plants from soil)	5.00	45.00
PEARY	3.00	25.00
VERBENA VILMORIANA, imported stock from 2 1/2 in. pots (upright grower),	\$5.00	\$50.00

H. A. MOLATSCH & SON - Nanuet, N. Y.

CARNATION CUTTINGS

READY FOR IMMEDIATE OR LATER DELIVERY
Victory, \$6.00 per 100; \$50.00 per 1000
Lady Bountiful, \$3.00 per 100; \$25.00 per 1000
Variegated Lawson, \$4.00 per 100; \$30.00 per 1000
Pink Patten, \$5.00 per 100; \$40.00 per 1000
Enchantress, \$2.50 per 100; \$20.00 per 1000
Boston Market, \$1.50 per 100; \$12.50 per 1000
 Carnation Specialists,
JENSEN & DEKEMA 674 West Foster Ave., Chicago, Ill.

CARNATION CUTTINGS

5000 ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000.
2000 JOHN E. HAINES, \$5.00 per 100; \$45.00 per 1000.
1000 ROBERT CRAIG, \$6.00 per 100; \$50.00 per 1000.

WHITE BROS., Gasport, N. Y.

CARNATIONS

Rooted cuttings **Victory,** \$8.00 per 100; \$60.00 per 1000; **Enchantress, Bountiful, White Lawson, Var. Lawson, Patten,** \$2.50 per 100; \$20.00 per 1000; **Mrs. Lawson, Boston Market, Queen, H. Penn, and Fair Maid,** \$2.00 per 100; \$16.00 per 1000. 6 per cent. discount for cash with order.

R. ENGLMAN & SON, Pittsfield, Mass.

CARNATIONS

FINE, STRONG PLANTS

	100	1000
Robert Craig, 1 1/4 in. pots	\$8.00	\$50.00
Variegated Lawson, 1 1/4 in. pots	3.00	26.00
Victory, 1 1/4 in. pots	6.00	60.00

ROBT. C. PYE, NYACK-ON-HUDSON, N.Y.

Don't Throw Away Your Easter Profits
 Save your Pinks from splitting by using the M. & D. Artificial Calyx. Easily applied and removed; lasts forever; first cost the only cost.
 \$1.75 per hundred, \$16.00 per thousand, 250 at thousand rates.
 Send for **MAXFIELD & DIMOND, Manf.** Pat. Sep. 18, 1896
 Sample, P. O. Box 804-A Warren, R. I.

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Price \$6.00 per 100. \$50.00 per 1000. 43 W. 28th St. NEW YORK.

Grower, LYNBROOK, L. I.

ROOTED CUTTINGS

WHITE—Queen	Per 10	Per 100
PINK—Pink Patton	.....	\$12.50
Helen Goddard	.....	\$4.00
Ethel Ward ready about Mar. 25	.....	\$12.50
Harry Fern, ready about April 1	.....	\$12.50

All others sold out for the season. I thank the Florists for their generous patronage.

QUIDNICK GREENHOUSES
J. H. CUSHING, Prop., QUIDNICK, ANTHONY, P. O. R. I.

S. J. GODDARD

Framingham, Mass.

Rooted Carnation Cuttings a Specialty.

Correspondence Solicited.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

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FERNS MY SPECIALTY

Please notice the big reductions. Cibotium Schiedei, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:

3 in. pots	\$20.00 per 100;	4 in. pots	\$40.00 per 100;
5 " "	60.00	7 " "	170 each.

Adiantum Rhodophyllum, 4 in., \$20.00. Assorted ferns for jardiniere, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate. Fresh Fern Spores, Choice collection in 55 varieties, true to name, including all the best market sorts. 30c. per trade package; \$3.00 per doz.; \$12.00 for the whole collection. Write for list of varieties.

J. F. ANDERSON,

Successor to Anderson & Christensen, SHORT HILLS, N. J.

WHITMANI FERN

Large stock of strong plants, 2 1/4 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN

3 inch pots.....\$ 8.00

SCOTTII

2 1/4 inch pots.....\$ 5.00
4 inch pots..... 12.00

KENTIA FORSTERIANA

4 inch pots, made up, strong and bushy.....\$25.00
6 inch pots, made up, strong and bushy..... 50.00

No order for less than 10 plants accepted.

CHAS. H. CAMPBELL, 3601 GERMANTOWN AVE., PHILA., PA.

Adiantum Farleyense

The Very Best Only

5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 per dozen.

JULIUS ROEHR'S COMPANY
Exotic Nurseries Rutherford, N. J.

Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round

JOHN SCOTT

Rutland Road & E. 45th St., BROOKLYN, N. Y.
Telephone 2890 Bedford.

FERNS

TARRYTOWN FERN, 3 in., 10c.
PIERSONI FERN, full, 4 in., 10c.
BOSTON FERN, full, 4 in., 10c.
BOSTON FERN, full, 5 in., 20c.

J. H. MENARD NEW ORLEANS, LA.

10,000 FERNS YOU MUST HAVE

Boston, 4 in. 15c., 3 in. 8c.; 2 1/2 in. 3c.
Pierston, 4 in. 15c., 3 in. 8c.; 2 1/2 in. 3c.
Scottii, 4 in. 15c.; 3 in. 8c.; 2 1/2 in. 4c.
Barrowsii, 4 in. 20c.; 2 1/2 in. 6c.

Also 10,000 potted Canas 4c.

3000 Ampelopsis Veitchii, pot grown, dormant, long tops	.....	\$4.00
2000 Clematis Paniculata, 1 year old, pot grown	.....	4.00
1000 Clematis Jackmanii, 2 year old, field grown, \$2.50 per dozen	.....	.....
1000 English Ivy, 3 1/2 in. pot grown, heavy, long tops	.....	0.00
3000 Vinca Major, variegated, 2 1/2 in. pot plants	.....	2.50
Triloma Uvularia, strong roots	.....	4.00
500 Eucnymus Radicans, variegated, 3 1/2 in. pots	.....	0.00
1000 Hydrangea Otakaa, 3 1/2 in. pots, \$4.00 per 100, 2 1/2 in.	.....	2.50
2000 Hydrangea Paniculata Grandiflora, 3 year old, Sc.; 2 year, 6c.; 1 year, 4c.	.....	.....
2000 Spiraea Anthony Waterer, 3 year old, 6c.; 2 year, 4c.	.....	.....
500 Variegated Weigela and Yucca Filamentosa, 3 year old	.....	6.00
5000 California Privet, 5 ft., \$5.00 per 100; 2 1/2 to 3 ft., \$2.50 per 100; 12 to 18 in.	.....	1.00
1000 Hellebora Honeyuckle, 2 year old, 4.00	.....	.....
Baby Rambler, 2 year old, 5 in. pots	.....	20.00
3000 Madeira Vine roots, \$5.00 per 1000	.....	1.00
1000 Stokessia Cyanea, pot grown, dormant, 3c.	.....	.....
500 Caladium Esculentum, 7x9, 5c.; 5x7, 3c.	.....	.....

BENJ. CONNELL, West Grove, Pa.

Ferns a Specialty

BOSTON, 6 in. pots, 50c.; 7 in., \$1.00; 8 in., \$1.25; 9 in. pans, \$1.50 and \$2.00 each. From the bench, ready for 4 and 5 in. pots, \$10.00 and \$15.00 per 100.

CIBOTIUM SCHIEDEI, 6 in. pots, \$10.00 each.

ASSORTED FERNS for Jardiniere, good plants, 2 1/4 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

FRANK N. ESKESEN, Madison, N. J.

ADIANTUM FARLEYENSE

Good, thrifty stock, 3-4-5 in.

ROSES

Grafted and Own Roots, Killarney, Richmond and Beauties.

POINSETTIA STOCK

Strong plants from bench.

THORN HEDGE GREENHOUSES, NEWTOWN SQUARE, PA.

NEPHROLEPIS

Whitmani, 2 1/4 in., \$10.00 per 100.
Boston, 2 1/4 in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass.

It takes long years of patient hard work to build up a wide circulation, no matter the merit of a publication. We have been at it for about two decades, and can safely say we have now on our list of subscribers every tradesman whose business is worth having. Don't be deceived by claims born of hallucinations. Advertise in a live paper and then you are sure your money will not be wasted. The Florists' Exchange will suit you exactly in every particular.

Cincinnati, O.

In connection with the explosion which occurred early Sunday morning in Avondale, in which all the glass in the Jewish Hospital and Altenheim was broken, amounting to a loss of over \$20,000, nearly all the inmates were thrown from their beds. But what I want especially to call attention to is one particular person, who by profession was a gardener. His name is Gottlieb Graul; his age, 108 years. He was at one time gardener to the Duke of Westenberg, at the time Napoleon fought the battle of Jena, and in America was gardener to Mr. Longworth, great grandfather of Congressman Longworth. Mr. Graul is in comparatively good health, and walks out every nice day. His eyesight is good and he has full control of his faculties. He undoubtedly is the oldest gardener in America.

The fates seem against Cincinnati. On last Tuesday hail at College Hill destroyed fifteen hundred or more panes of glass for George Corbett and the same number for Harry Corbett and George Magrie. Max Rudolph also was a loser, but not quite so heavily as was Walter Gray. On the other hills hail fell, but did no special damage; and with it all came a deluge that has again for the second time since January 1, brought a river, which, at this writing, is 62 feet high and is rising. Untold damage is being done to property. J. Charles McCullough has water on his floor at Second and Walnut streets, and the warehouses of both the McCullough firms are surrounded by water; but thanks to Providence, the weather is fine, and the thermometer standing at 58 to 60 degrees relieves much suffering.

Sunday morning at 7:25 o'clock, the spans at the Eighth street viaduct were washed by the extreme pressure of the water and fell. Fortunately it was Sunday, St. Patrick's Day, and few people were stirring; otherwise the death list would have been appalling. As it was, a street car had just passed over before the span fell. This viaduct leads to Price's Hill, and three lines of street cars pass over. No one was hurt, but a hundred thousand dollars' worth of damage was done to the city, and much inconvenience was caused to Price Hill people. The writer, also Louis Kyrk and Will Murphy, all live in this hill, and both Kyrk and myself had a 3 1/2-mile walk each way Sunday. Monday, and probably for three weeks to come, we shall have to walk half the distance.

Then a terrific dynamite explosion occurred at midnight, or about 1 a. m., Sunday morning, in Avondale, that broke every pane of glass in the Jewish Hospital and all the residences within two squares. Julius Baer tells me that two-thirds of all the glass in the house wherein he lives was broken, and all fell outside of the house.

So, taking it all in all, St. Patrick's Day, 1907, in Cincinnati will be remembered for many years to come.

Chas. Lodder of Hamilton, O., was a caller Saturday. He says his venerable father, who has had a hard struggle with the grim reaper, is now able to be up. Uncle John, as we all call him, is in his seventy-fifth year and is one of the veterans in the florists' business of this section—a man of truth and justice, and we hope he may be spared many more years for the good of mankind.

George F. Crabb of Crabb & Hunter, Grand Rapids, Mich., writes me he is just recovering from a severe attack of pneumonia. He also had a close call.

We now have a Greenhouse Structural Company at 840 West Fourth street, Cincinnati, O., who are prepared to do building of both iron and wood. Give them a trial. They are responsible.

The outlook for Easter is only fair. A report from the New Castle district says American Beauty will not be available, all wood gone blind. Of teas, of

course, there will be a fair supply, but not half enough to go around. Carnations, the same. There will be another question. It now looks as though the bulb growers were to be strictly in it this season. Sweet peas and violets will be good property at Easter. Ferns are very scarce and the outlook gloomy. Leucothea sprays will be good stock, as will adiantum, smilax and asparagus of all kinds.

John Evans was a caller Friday. I am glad to say he is looking much better. His brother Charlie is very poorly. E. G. GILLETT.

Pittsburg.

A Damaging Flood.

Greater Pittsburg the past week experienced the greatest flood ever known. After three days of business stagnation and floods throughout the district work was begun on cleaning up and in a few days everything was brought back to normal conditions. The highest stage of water known for the last century was 35 feet in 1832, but this time the record was 36 feet 6 inches, the water reaching as far up as Liberty street in Pittsburg and almost to beneath the Fort Wayne railroad tracks in Allegheny. Damages to property and merchandise in general will reach up in the millions of dollars. The florists' trade suffered as much as any; most of the stores being in the low district were surrounded by water. The greatest sufferer was W. C. Becker, the Allegheny seedsman on Federal street, where the water rose to about 7 feet above the level of the store room floor. All goods from the cellar and store room were removed to upper floors. Their stock was not damaged to any extent, and in a few days business went on as usual, but it required heroic work on the part of all the employees to straighten out matters just at the beginning of the busy season of the year. In Pittsburg proper, Mrs. E. A. Williams, on Penn avenue, had several feet of water on the floor; also Blind Brothers, Fifth street and L. I. Neff on Sixth street. Breitenstein & Flemm on Liberty and Market streets, just escaped, the water reaching to the curbstone on their side, but their cellar was full almost to the top and all goods were removed. The wholesale florists' commission houses had troubles in various ways; trains were delayed, roads impassable and water in cellars; besides telephones were out of order. Electric light and gas failed, poor street car service, and communication between the two cities was almost impossible; all the approaches to the bridges were under water and the Pennsylvania Railroad bridge was the only one used, trains running to and fro all day carrying thousands of people.

News Notes.

Too much rain is interfering with the growers' work in making hotbeds and other outside operations. The weather up to date has been the worst we ever had in March. The plant trade has started up and from now on should be good, as Easter is close. The market stands are almost all ready for the plant trade, making good displays, particularly with bulbous plants which seem so far to be of good quality. The cut flower business is still active and prices are higher than usual in the Lenten season. Good carnations bring \$3 and better; lilies range from 12c. up, good ones bringing 20c. The Easter crop is yet uncertain, although it looks more favorable now than a few weeks ago. Violets are abundant.

Meischke of Castle Shannon is cutting some fine stock of roses and carnations and will have a good supply for Easter.

John Bader has a good and well assorted stock of Easter plants—azaleas by the thousand well in bloom, genistas, spiraeas and a large stock of potted bulbs in fine shape. E. C. REINEMAN.

FOUNDED IN 1888



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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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



James Draper.

James Draper, secretary of the Worcester board of parks commissioners, and member of that body for the last 20 years, prominent as a horticulturist and agriculturist, and who was the first president of the Massachusetts Fruit Growers' Association, died in his home, in Worcester, Mass., on the morning of March 13, of anemia following an illness that became serious the day after Christmas.

Mr. Draper, who was one of the most prominent nurserymen in the State, was best known in Worcester through his long connection with the parks commission. Much of the beauty of several of the Worcester parks was due to his work and he was constantly interested in the development of the system. Mr. Draper was born at Worcester, Mass., in 1842. He was educated in the public schools and at the age of 18 began his business career as a market gardener. He was among the earliest in the vicinity of Worcester to engage in the cultivation of small fruits on a large scale for the market.

In 1867 he issued his first nursery catalogue. Other departments were added to those of the small fruits and they have continually increased until the reputation of the Bloomingdale nurseries extended all over New England. Mr. Draper's collection of the choicest varieties of native and foreign fruit and ornamental trees and flowers, shrubs and plants ranks among the first in this section of the country.

He was an active member of the Worcester agricultural and horticultural societies for 35 years and the special judge in the fruit department of the Horticultural Society for 15 consecutive years. He was a trustee of the Massachusetts agricultural college and one of the originators and the first president of the Massachusetts Fruit Growers' Association. He was master of the Worcester grange when it was organized in 1872 and became master of the State grange and of the national grange and was recognized as one of the leaders of the order. He was vice-president of the Worcester Five Cents savings bank and of the Rural Cemetery Corporation, being manager also of the latter.

He was also a member of Massachusetts Sons of the Revolution, Morning Star lodge A. F. & A. M., Eureka Royal Arch chapter, Worcester County Commandery, Knights Templar, Altheia Grotto, M. O. V. P. and Hiram Council R. & S. M.

A widow, five daughters and one son, James Edward, mourn his loss.

Hearing on Express Rates.

On Friday and Saturday of last week the Interstate Commerce Commission at Washington, D. C., heard the complaint of the S. A. F. O. H. against the United States Express Company regarding the recent advance in the company's tariff on cut flowers and returned empty packages between Pennsylvania and New Jersey points and New York City.

It may be remembered that these rates were advanced in May, 1906, to double what they had been previous to that date; that the S. A. F. O. H., through Secretary Stewart, had entered into communication with the United States Express Company looking toward a reduction in the rates, but his effort had been unsuccessful. Finally the matter was brought to the attention of the Interstate Commerce Commission, the society desiring that the commission shall fix a reasonable express rate on cut flowers between the points named, as the present rate is said to be excessive and discriminatory. Chairman Knapp and Commissioners Clements and Walker heard the case.

Attorney Frank Lyon, Roslyn, Va., appeared for the S. A. F. O. H. In opening the case Mr. Lyon pointed out that there was no apparent reason for the advance in rates, that conditions regarding collection and delivery of cut flowers and empties were similar to those existing before the rates were increased. He stated that the area over which the consignees in New York were located was within two or three city blocks, and that in the majority if not all of the cases, the shippers loaded their own boxes on the train at the forwarding points.

Frank L. Moore, Chatham, N. J., was the first witness called for the complainants. He testified to the extent of the cut flower traffic in the neighborhood of Chatham, Madison and Summit, N. J., the methods of packing employed; the prices obtained for the product, etc. He also stated that the increased express rate had caused the establishment of a wagon express, which is still in operation. He was followed by L. B. Coddington, Murray Hill, N. J.; L. M. Noe, Madison, N. J.; A. Farenwald, Hillside, Pa.; and Robert M. Schultz, Madison, N. J.; all of whom testified as to the apparent unjust and uncalled for increase of the rates by the United States Express Company. Frank H. Traendly and Wm. J. Stewart were also witnesses for the society, the latter explaining the aim and objects of the organization, one of these being to safeguard its members in matters of transportation.

On Saturday Mr. Stewart again took the stand, answering several questions regarding cut flower prices, both wholesale and retail, in New York City.

The attorney for the express company said the evidence so far before the commission had shown there was considerable profit in the selling of flowers; and he would show just as conclusively that there was no profit to the express company in delivering these flowers, even at the present rate of one dollar per hundred pounds. Through witnesses he brought out the information that at most of the forwarding points the agents of the express company operated on a commission basis of from 15 to 18 per cent., that the non-collection of cut flowers at the growers' places was a violation of the rules of the express company, saved nothing to the company, as the agent received his commission in any event. He tried to show that the self-imposed task of the growers' loading their own boxes on trains was really a detriment rather than a help to the agent, as all such goods were held till the last possible moment, leaving but little time to make out the necessary way bills.

The company's agent at Hoboken, N. J., testified to the especial care and attention given consignments of cut flowers. These are unloaded by special men at the passenger platform at Hoboken, N. J., instead of at the usual express terminus. Three special wagons are employed to convey the shipments to the consignees; taking no other goods. A shipment of only one box receives the same special attention. The aim was to expedite delivery as much as possible. Special collections of empties were also made daily except Sunday. The bulk of these had been greatly reduced since shippers had begun to use the "knock down" boxes. He showed that the total earnings per load of cut flowers per diem prior to May, 1906, was \$4.43; since that date \$4.32. This was partly accounted for by the fact that notwithstanding the higher rate charged, the wagon express had diverted considerable of the traffic.

Another employee of the express company testified as to the cost of delivery service, maintenance of teams, drivers' and helpers' wages, ferry charges, etc.

Alex. J. Guttman, New York, narrated his experiences with express companies other than the United States, whose scale of rates had not been advanced, and whose service was just as satisfactory in every particular. James I. Donlan gave an approximate percentage of the cut flower traffic carried by companies competing with the United States, and also showed samples of the boxes, both "knock down" paper, and wooden, in which these shipments are generally made. In his argument Attorney Lyon urged that there

should be some excellent and controlling reasons for an advance in rates of the character of that complained of. After an industry had been built up at certain rates from the point of production to market, it was unjust and unreasonable that the express company should without consultation with the producers, suddenly double these rates without any good and sufficient reason for the change. He referred to the restricted area in New York City over which the flowers had to be delivered and the empties collected. The present was the first case of its kind brought before the commission, and was peculiar in that when the traffic increased the rates had also increased, whereas the reverse condition generally prevailed. He contended that nothing had been brought before the commission by the other side showing that any extra burden had been thrown upon the express company that did not exist prior to May, 1906. It was not the duty of a common carrier to dictate to its patrons the kind of packages they shall use; and whether the florist business was a highly profitable one or not formed no justification for excessive or exorbitant express rates being charged for conveyance of their goods, which had a tendency to limit or destroy that particular industry. It was a peculiar doctrine, to say the least, to preach the throwing of the burden of the increased rate on the public.

The express company's attorney denied that the company was taking an arbitrary or unreasonable position for the purpose of dictating the policy of any one. The policy dictated, as far as choice of packages was concerned, had been to the advantage of the shippers. The burden rested on the complainants to show why the express company should do this cut flower business at a loss, when the florists' profits were abnormally high or above those of other merchants. There was no reason why express business should be done for the benefit of this class of merchandise which is classed among the luxuries and accessible only to the rich. The shippers also had failed to show that the increased rates had in any way affected the amount of their business. He referred to the agent as "bluffing" the shippers out of doing the collecting, again stating that the agent's refusal or neglect to make collections or deliveries was in violation of the company's rules. He once more urged that the cut flower traffic had been carried by the company at a tremendous loss, and on being asked by Commissioner Clements as to why the company had been living in ignorance of this for so many years, replied that he did not know; it was one of those things that had just been allowed to persist. Going into statistics the company's attorney showed that on consignments of cut flowers from Somerville, N. J., prior to the increase, 45 per cent. of every dollar was paid to the railroad; 18 per cent. the cost at point of origin; 37 7-10 per cent. cost of wagon service, making a total of 100 7-10 per cent. From Chatham the total cost was 102 7-10 per cent.; Allentown, Pa., 97 53-100, where the agent is paid a salary instead of commission; Philadelphia 102 7-10 per cent.; Hillside, where there is no delivery service, 92 7-10 per cent. In every case cited the railroad received 45 per cent.

Attorney Lyon denied that flowers were a luxury purchased only by the rich; they were used at weddings, at births, and at funerals, by the great body of the people. He called attention to the fact that the higher the rate charged by the express company, the more money it seemed to lose, according to its own figures, and submitted that the increased rates had been imposed to reimburse the company for the loss sustained through the diversion of traffic to other modes of conveyance. The fact that the express company had bad contracts with the railroad was no concern of the complainants.

Chairman Knapp announced that he would give the express company's attorney ten days in which to prepare his brief, the attorney for the S. A. F. O. H. to complete his within five days thereafter.

The hearing was then adjourned.

PAMPHLETS RECEIVED.

RAWSON'S GUIDE FOR FLOWERS, and RAWSON'S PRACTICAL GUIDE FOR VEGETABLE GROWING. Published by W. W. Rawson & Company, seedsmen, Boston, Mass., as free literature.

These booklets are written in an eminently practical manner and should prove of the greatest value to amateur gardeners; in fact, to professional gardeners as well. The firm is to be congratulated on its enterprise in distributing free literature of the kind under consideration.

Serviceable planting tables for flowers and vegetables accompany the booklets named.

THE NEW IDEA IN GARDENS is the title of a handy pamphlet published by Frank Hamilton, landscape gardener, 55 Liberty street, New York. It gives plans and practical directions for the laying out and planting of home grounds, with approximate cost for a given area—a new idea, certainly, and one to be commended.

Surplus of Elizabeth Nursery Co.

	Per 100
ACER POLYMORPHUM, 2 to 3 ft.	\$35.00
ACER POLYMORPHUM, extra blue 3 to 4 ft.	40.00
AZALEA AMOENA, 8 to 10 in.	20.00
AZALEA AMOENA, 14 in. high, 12 to 14 in. across	35.00
AZALEA AMOENA, 15 to 18 in. high, 12 to 14 in. across	50.00
For larger sizes see wholesale list.	
AZALEA MOLLIS, 8 to 10 in. well budded	15.00
AZALEA MOLLIS, 12 to 15 in. well budded	20.00
BERBERIS THUNBERGII, very low, all sizes, see trade list.	
BLUE SPIREA, strong field grown	6.00
CORNUS SANGUINEA, 3 to 4 ft.	6.00
CORNUS SANGUINEA, 4 to 5 ft.	7.00
CORNUS SPATHI AUREA, 2 to 3 ft.	8.00
CORNUS STOLONIFERA, 5 to 6 ft.	15.00
DEUTZIA LEMOINEI, very fine, 2 to 3 ft., extra	7.00
DEUTZIA GRACILIS, 15 to 18 in.	6.00
EUONYMUS EUROPEUS, 4 to 5 ft.	10.00
EUONYMUS EUROPEUS, 5 to 6 ft.	12.00
EUONYMUS RADICANS, 3 year, strong	10.00
HYDRANGEA P. G., 2 to 3 ft.	6.00
HYDRANGEA P. G., 3 to 4 ft.	10.00
HYDRANGEA P. G., 4 to 5 ft.	15.00
PURPLE LILAC, 3 to 4 ft.	8.00
LONICERA, Red and White, 2 to 3 ft.	6.00
LONICERA, Red and White, 3 to 4 ft.	8.00
SPIREA WATERER, 18 in. to 2 ft., fine	7.00
SPIREA BUNALDI, 2 ft.	7.00
SPIREA VAN HOUTTEI, 2 1/2 to 3 ft.	6.00
SPIREA VAN HOUTTEI, 3 to 4 ft.	8.00
FORSYTHIA VIRIDISSIMA, 4 to 5 ft.	10.00
FORSYTHIA VIRIDISSIMA, 5 to 6 ft.	15.00
VIBURNUM DENTATUM, 2 to 3 ft.	8.00
VIBURNUM DENTATUM, 3 to 4 ft.	12.00
VIBURNUM Plicatum, 2 to 3 ft.	12.00
VIBURNUM Plicatum, 3 to 4 ft.	15.00
VIBURNUM Plicatum, 4 to 5 ft.	18.00
VIBURNUM Plicatum, 18 in. to 2 ft.	8.00
WEIGELA, in variety. See wholesale list.	
AMPELOPSIS VEITCHII, 2 year, No. 1	6.00
AMPELOPSIS QUINQUEFOLIA, 3 year	7.00
CLEMATIS, Jackman, Henry, M. Koester, Sieboldi, very strong	20.00
50,000 HONEYSUCKLE. See wholesale list for varieties and prices.	

EVERGREENS

For varieties and prices see wholesale list.

	Per 1000	Per 1000
BOXWOOD, 4 to 5 in.	\$30.00	
BOXWOOD, 5 to 6 in.	50.00	
2 to 4 ft. see price list.		
PRIVET		
3 to 4 ft. transplanted	\$ 3.50	\$30.00
3 to 4 ft. heavy, transplanted	5.00	40.00
4 to 5 ft. heavy, transplanted	6.50	60.00
5 to 6 ft. heavy, transplanted	10.00	80.00
REGELIANA, 18 to 24 in.	6.00	
REGELIANA, 2 to 3 in.	8.00	
RIGELIANA, 3/4 ft. high by 3/4 ft. across	15.00	

CREEPING ROSES

	Per 100	Per 1000
WICHURAIANA HYBRIDS	\$ 5.00	\$40.00

See wholesale list for varieties.

20,000 ROSES from 2 inch pot. Write for prices.

4 in. pot ROSES	10.00
5 in. pot ROSES	\$15.00

ROSE (Grass an Teplitz)

20,000 extra fine from 2 in. pots	\$2.00 per 100
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HERBACEOUS PLANTS

Our stock cannot be excelled. Write for list of varieties.

PINK PAEONIAS	\$35.00 per 1000
PHLOX, 50,000 field grown. See wholesale list.	

LYCHNIS (Flos-Cuculi Plenissima Semperflorens)	
One of the finest herbaceous plants grown.	
2 in. pots	per 10, 60c., per 100, \$5.00

CANNAS

4 inch pots, named varieties	\$6.00 per 100
ALTERNANTHERA, red and yellow	25.00 per 1000
DAHLIAS, dry bulbs and 2 in pots.	
SALVIAS, 2 in pots.	

Send for our 40 page wholesale list. We believe we have one of the largest assortments of nursery stock in this country.

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

LILIES FOR EASTER

My Lilies are even finer than they were last year and I can book a few more orders for Easter delivery at \$15.00 per 100.

I have also on hand a fine stock of **Crimson Ramblers, Baby Ramblers, Azaleas, Hydrangeas, Queen Alexandra Daisies, etc.**, in grand condition for Easter trade.

JOHN SCOTT

Rutland Road and East 45th St.

Brooklyn, N. Y.

The Latest Novelty

NEW rose "ANNY MULLER" cross between **Crimson Rambler** and **George Perret** (Baby Rambler growth), of a delicate bright pink color. Order early: a few thousand unsold yet; delivery, Fall 1907. Our Mr. Wiegand Bruss will visit you some time in April or May. All kinds of nursery stock, such as hardy **RHODODENDRONS, BOXWOOD**, our own growing all sizes up to 5 feet, etc., etc. Offered by

VAN DER WEIJDEN & CO.,

The Nurseries, Boskoop, Holland.

No agents.

Catalogue 1907-1908 now ready. For the trade only.



Hardy cut ferns,
FANCY or
DAGGER,
\$1.50 per 100.

LAUREL ROPING,
\$4.50 per 100 yd.

GALAX LEAVES,
75c. per 1000.

Sphagnum Moss,
50c. per hbl.

Cash with all orders.

All orders by mail or dispatch promptly attended to.

Thomas Collins, HINSDALE,
MASS.

ROSES

READY FOR SHIPMENT

Strong, well rooted stock—Cash with order.

	R. C.	2 1/2 in. pots	Per 100	Per 1000
American Beauty	\$37.50	\$7.00	\$65.00	
Richmond	37.50	7.00	35.00	
Bride	17.50	3.00	25.00	
Bridesmaid	17.50	3.00	25.00	

ALFRED P. SMITH Madison, N. J.

VIOLET CULTURE

Price, \$1 50 Postpaid

A. T. De La Mare Ptg. & Co. Ltd., New York

ENGLISH IVY

R. C., 75c.; 2 in., \$2.00.

BEX BEGONIA, 2 in., \$3.00; 4 in., \$8.00. **ASPAGAGUS SPRINGERI,** 2 in., \$2.00 per 100. **ABACANTHUS,** 60c. and 75c. each. **CANNAS, Austria,** \$1.50; **America,** \$1.50; **D. Harum,** \$2.00; **Pennsylvania,** \$1.50; **K. Gray,** \$3.00 **Marborough,** \$2.00; **Italia,** \$1.50; **A. Bouvier,** \$2.00; **C. Henderson,** \$2.00; **Egandale,** \$3.00 per 100.

Will exchange for Enchantrass, Boston Market or Guardian Angel Carnations.

J. H. DANN & SON,
WESTFIELD, N. Y.

EVERGREENS

Two or more times transplanted, well furnished.

	Per 10
300 Irish Juniper, 12-18 in.	\$5.00
200 " " 18-24 in.	8.00
200 " " 2-2 1/2 ft.	10.00
300 " " 2 1/2-3 ft.	12.00
200 " " 3-4 ft.	15.00
300 " " 4-5 ft.	20.00
500 Norway Spruce, 15-18 in.	5.00
500 " " 18-24 in.	7.00
100 " " 2-4 ft.	20.00
100 Austrian Pine, 2-2 1/2 ft.	10.00
100 Retinispora Plumosa, 1 1/2-2 ft.	10.00

MAURICE J. BRINTON, Christiansa, Pa.

CLUB AND SOCIETY DOINGS.



Begonia Vernon



Double White Hyacinth

Box of Tulips
Easter Stock Grown by Wm. Berger, Germantown, Pa.

THE COLUMBUS FLORISTS' CLUB has held two meetings since my last report, and both have been most enjoyable and successful. President Sherman F. Stephens occupied the chair, but at the last meeting Secretary McKellar being confined to his home by the grip, M. B. Faxon took his desk for the evening. The greatest interest has developed among our members as regards the chrysanthemum show to be held this Fall; the opinion of the club would seem to be that liberal prizes, and if necessary fewer of them, will bring out the best show. The enthusiastic members advocate a public exhibition on a large scale; others feel that if we offer say three prizes of \$10, \$8 and \$5 in each class, and have a class for each standard commercial color and a novelty division, that we can stage a show in our club rooms that will be a credit to the club and city. The chrysanthemum committee—Messrs. Faxon, Kopf, Woodrow, and McKellar—were requested to make a full report, and submit a prize list at an early meeting.

Our members have taken more interest in the displays of plants and cut flowers at these meetings than ever before; and Messrs. Roth, Sexton, Metzmaier, Reichert, Brust, Williams, Monk, and Torrey, have had their hands full awarding points, for the point total prizes of \$5, \$3 and \$2, to be awarded in May next. The awards have been as follows: To R. A. Currie 20 points for a fine specimen of Simon Mardner azalea, and 15 points for *Spiraea superba*; I. D. Siebert received the only maximum award made so far this year—25 points—for a bunch of Princess of Wales violets. The same exhibitor also was given 20 points for a Mne. Van der Cruyssen azalea, and it certainly deserved them. A. Wedemeyer took 10 points for a good plant of *Genista fragrans*. Tulips were well represented, 15 points for a vase of Murillo going to Sherman F. Stephens, and 10 points for a fine bunch of Keiserkroon being taken by Jacob Reichert. Many other entries not for competition were displayed.

Our club has for several years been greatly interested in civic improvement work, especially the distribution of both flower and vegetable seeds to the children of our public schools; and the consequent cleaning up of yards, etc., that always immediately follows this good work, has been very marked. It has been the policy of the club from the start, that each child should pay for these penny packets of seeds. This season we have a complication of matters to straighten out; some well disposed persons have donated some seeds, the Government has also sent some "free seeds," so those children who have previously paid in former seasons, see no reason why they should continue to do so, and the matter has become certainly mixed. To get in tune all these conflicting interests, and still continue the good work of "penny packets of seeds for the children," is not a sinecure for any committee, I assure you. But after a long discussion of this matter, pro and con, our club has appointed M. B. Faxon, Sherman F. Stephens, and R. A. Currie a committee to confer with the Columbus Board of Education, and try and arrange these matters to the satisfaction of all concerned. I will here state, that our club is firm in its opinion that the children should be allowed to individually pay for whatever penny packets of seeds they wish to plant. We believe a child will take much more interest in something paid for. On the other hand, no money can be collected from the school children without the permission of the Board of Education. Our club had this permission before all the confusions mentioned above so complicated affairs.

Our last meeting was a ladies' night, and the regular business was shortened so that our guests might be entertained. Our next meeting will be held Tuesday evening, March 26. F. W.

MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY.—March 13 was without doubt the most notable meeting this society has held in a long time. It was carnation night, and well it deserved the name. The hall was a dreamland of the divine flower. We had, too, roses, cyclamen, sweet peas and stocks in abundance but carnation was queen. The exhibits were goodly in number and high in quality. F. R. Pierson Company, Tarrytown, had Winsor and White Enchantress in great shape; each had been previously certificated. Dailedouze Brothers, Flatbush, L. I., sent Welcome and Seedling No. 303. Welcome got a certificate of merit and the other was, in the words of the judges, "Sure to be a winner in the variegated classes." Bassett & Washburn, Hinsdale, Ill., staged two vases of Red Seedling No. 20; it got a certificate of merit. John Riemels, Woodhaven, L. I., brought one vase each of Winsome and Red Seedling number 32; each was awarded a certificate of merit. Geo. Harvey, Madison, N. J., had two fine vases of carnations, one of them a very promising white seedling. Alex. J. Guttman, New York, had a fine vase of Victory. Paul Niehoff, Lehighton, Pa., sent on a fine vase of new

rose Aurora; and F. H. Kramer, Washington, D. C., sent a sensational lot of rose Queen Beatrice. Both of the rose exhibits secured a certificate of merit.

Our own members came up to the call well. A. Herington had six vases of carnations in the following kinds; Robert Craig, Eucharistess, Piancée, Pink Eucharistess, Mrs. M. A. Patten, Jessica. In the opinion of competent judges a finer lot was never before staged. H. B. Vyse, gardener to Mr. G. E. Kissell, had a

Berger Brothers, of Philadelphia, his sons, and his store on the Main street, Germantown, Pa., call for flowers and flowering plants the whole year through; and on the other hand the city house of Berger Brothers is called on largely to supply the Germantown folk with such flowers as are not produced by them.

There are six sons, I think, who with the father, William Berger, find their hands full with the city

ernul of the plants illustrated in this issue. Primula obconica, Begonia Vernon, Astilbe japonica Gladstone, and daisy Queen Alexandra among them.

Mr. Berger considers the Astilbe (Spiraea) Gladstone the best of all for forcing, the plant being more vigorous in both foliage and flower than the common japonica. Of the Paris daisy, the variety photographed is called Queen Alexandra. It is considered better than the common white one, having a larger flower and



Yellow Narcissus

Grown by Wm. Berger, Germantown, Pa.



Marguerite Queen Alexandra

Grown by Wm. Berger, Germantown, Pa.

dozen specimen plants of cyclamen. John Heeremans, gardener to Mr. A. R. Whitney, staged a fine lot of myosotis and one vase of mixed carnations. Geo. H. Hunt, gardener to Mr. R. D. Foote, had three vases of fine carnations in as many kinds. Samuel Stewart, two vases mixed carnations; E. Reagan one vase mixed carnations; Andrew Kennedy one vase of sweet pea Blanche Ferry and one vase of Victory carnation which he brought from Brooklake, Dr. L. D. Ward's place, Madison. Wm. Duckham brought one vase of Robert Craig.

The foregoing gentlemen received certificates of culture of their exhibits.

Among the visitors were: Harry A. Bunyard, New York; Fred. Heeremans, Lenox, Mass.; Wm. Ross, Tarrytown; Parker T. Barnes, of Doubleday, Page & Company, New York; John Riemels, Woodhaven, L. I., and Joseph Manda, Orange, N. J.

Three papers were read on the carnation in its different aspects, by Wm. Duckham, R. M. Schultz and Percy Herbert. A hearty vote of thanks was accorded the essayist in each case. Many questions were asked and many points were animatedly discussed to the advantage of all concerned. Deep interest was manifested in the novelty carnation classes by the assemblage, and high compliments were paid to them and to the enterprise of their introducers.

The evening of April 10 will be "rose night," and it ought to be a drawing card, for the word rose is magnetic in Madison. We want to get all the novelties we can from far and wide, and our home industry ought to be able to supply some creditable standard sorts. Two papers on the rose are to be read that night, one by David Falconer, Chatham, N. J., and one by Andrew Kennedy of Brooklake. E. R.

Our Illustrations of Easter Stock.

Visiting recently the greenhouses of William Berger, Queen Lane, Germantown, Pa., we were in time to see the beginning of the Easter rush in flowering plants. The greenhouses, above and below the hanches, were filled with plants of the general run of Easter sorts, the most of them just showing flower, excepting those of a bulbous nature which had been in frames all winter. These were just being given a place under the hanches, allowing them two weeks until Easter.

But Mr. Berger's plants are not all for Easter week.

store, the one on Main street, Germantown, and the greenhouses on Queen Lane, Germantown.

At the time of our visit, Easter was two weeks off, so the great bulk of flowering plants were not yet in bloom; but as there is a constant demand for plants the season through we were able to get photos of sev-

the disc being of a purplish color instead of yellow as the other is, making more contrast. This daisy is really a chrysanthemum—frutescens—and, humble flower though it be, it is always in demand, and always procurable, flowering the whole season through.

JOSEPH MEEHAN.



Astilbe (Spiraea) Japonica Var. Gladstone

Grown by Wm. Berger, Germantown, Pa.

Propagating Rhus Glabra Laciniata.

There is so much grace in the foliage of the Rhus glabra laciniata that it has often been said the plant should have been called fern-leaved sumach instead of cut-leaved. It finds a place wherever pretty foliaged shrubs are valued, and not only for the beauty of its Summer foliage, but for its Autumn display as well, for it then takes on the rich orange crimson color for which so many of this family are renowned.

Those not accustomed to propagating sumachs are not aware that nearly all can be increased by root cuttings. Pieces of root of about three-inch lengths, set lengthwise in the ground or upright, the top just below the surface, in Spring, will make plants the same season. The one of these notes, the cut-leaved glabra, is one that can be so handled. Whether it would come true from seed, I do not know, for on the many bushes seen at times, a seed pod has never been observed.

Although this cut-leaved variety of sumach is a distinctively American one, it was disseminated from Europe. It was found wild in a wood in Chester County, Pa., by a gardener who is still remembered by the older ones of the trade. Robert Kilvington, of Philadelphia. He disposed of it to Europe, as in those days there was more appreciation there of such varieties than here. Landscape gardeners of to-day appreciate it, as its frequent presence on lawns indicate.

JOSEPH MEEHAN.

LILY TIME

Is no special time any more—you can have lilies three hundred and sixty-five days in the year—"Excepting leap year, which comes once in four"; then it is three hundred and sixty-six; we always provide for this extra day.

Hardy Japan Lilies for Immediate Delivery

For Outdoor Planting, or Growing in Pots for Summer Flowering

LILIUM AURATUM.
Golden-Rayed Lily of Japan.
Monstrous pure white flowers, thickly studded with crimson spots, each petal marked with a wide gold band. A good forcer and excellent for outdoor effect.
8 to 9-in. per doz., 75c.; per 100, \$5.50; per 1000, \$50.00.
9 to 11-in. per doz., \$1.00; per 100, \$8.00; per 1000, \$75.00.

LILIUM SPECIOSUM ALBUM
Pure white; a grand variety.
8 to 9-in. bulbs, per doz., \$1.00; per 100, \$7.00; per 1000, \$66.00.

LILIUM SPECIOSUM MELPOMENE
Very rich crimson.
8 to 9-in. bulbs, per doz., 75c.; per 100, \$6.00; per 1000, \$55.00.
9 to 11-in. bulbs, per doz., \$1.25; per 100, \$8.50; per 1000, \$80.00.

LILIUM SPECIOSUM RUBRUM
White ground, spotted rose on each petal; very handsome.
8 to 9-in. bulbs, per doz., 75c.; per 100, \$5.50; per 1000, \$50.00.
9 to 11-in. bulbs, per doz., \$1.25; per 100, \$8.50; per 1000, \$80.00.



LILIUM AURATUM

Lilium Candidum

Last fall, to cover an increasing demand for this variety in the spring, we placed in cold storage about twenty-five cases. We have about five cases left and they are large bulbs in excellent condition, perfectly dormant and sound—and offer them as follows: \$1.00 per 12, \$7.50 per 100, \$70.00 per 1000.

LILIUM LONGIFLORUM GIGANTEUM FROM COLD STORAGE

Having placed a large quantity of *Lilium longiflorum giganteum* in cold storage upon their arrival in this country, we are in a position to furnish sound, firm bulbs all the year round. Florists all over the country are now forcing lilies in continual succession every month in the year. Why not you? We can refer you to the best people in the country, who now have orders with us, for a monthly shipment—some take 50 bulbs, some 100, others a case, still more, five cases, a month, and we shall be pleased to write you more fully on this matter. Remember that *Giganteum* is the only variety held in cold storage successfully, and you can have them delivered now for Decoration Day, or the end of September, for December Flowering. 7 to 9-inch bulbs, per 100, \$8.00; per 1000, \$75.00. 9 to 10-inch bulbs, per 100, \$13.00; per 1000, \$125.00.



CALADIUM ESCULENTUM, OR ELEPHANT'S EAR

MISCELLANEOUS SPRING BULBS

CINNAMON VINE
Largest size bulbs, per doz., 50c.; per 100, \$3.00.
First size bulbs, per doz., 40c.; per 100, \$2.50.

CALLAS—Spotted Leaf (Richardia albomaculata)
Very free summer blooming variety. \$3.00 per 100; \$25.00 per 1000.

ISMENE CALATHINA (Pancratium.)
A grand summer-flowering bulb, producing throughout the season large

Amaryllis-like, pure white, fragrant blossoms. 10c. each, \$1.00 per doz.; \$7.50 per 100.

DIELYTRA SPECTABILIS (Bleeding Heart), \$1.25 per doz.; \$7.50 per 100.

HYACINTHUS CANDICANS (CAPE HYACINTH.)
Large Bulbs, \$1.25 per 100; \$10.00 per 1000.

MADEIRA VINES
\$1.25 per 100; \$10.00 per 1000.

BODDINGTON'S QUALITY LARGE FLOWERING TUBEROUS-ROOTED BEGONIAS

For planting in beds and where color effect is desired, our stock of these bulbs will be found true to color and free from mixture.

Single-Flowering Tuberos-Rooted
Large bulbs measuring 1½ inches and upward. Crimson, Scarlet, White (pure), Rose, Pink (light), Yellow, Salmon, Orange, Copper. Separate colors, or all colors mixed.
Per doz., 35c.; per 100, \$2.25; per 1000, \$20.00.

Extra large bulbs 1½ inches and up, same colors as above. 50c. doz.; \$2.75, 100; \$25.00 per 1000.

Double-Flowering Tuberos-Rooted
These can be depended upon producing 100 per cent. double flowers and contain very large and choice show varieties.

Large bulbs measuring 1½ inches and upward. Crimson, Scarlet, Rose, White (pure), Orange, Salmon, Yellow, Copper Bronze, Light Pink. Separate colors, or all colors mixed.
Per doz., 55c.; per 100, \$4.00; per 1000, \$35.00.

Extra large bulbs 1½ inches and up, same colors as above. 75c. doz.; \$4.50, 100; \$40.00 per 1000.

CALADIUM ESCULENTUM (Elephant's Ear)

All sound and with eyes.
Bulbs measuring 6 to 8 inches in circumference, \$1.50 per 100; \$10.00 per 1000.

Bulbs measuring 8 to 10 inches in circumference, \$3.50 per 100; \$30.00 per 1000.

Bulbs measuring 10 to 12 inches in circumference, \$5.50 per 100; \$50.00 per 1000.

Monster bulbs measuring 12 inches and upward, \$10.00 per 100.

BODDINGTON'S "QUALITY" GLOXINIAS

This popular flowering plant is coming into greater vogue than ever, not only as a pot-plant for house decoration, but also for cut flower purposes. Our strains of Gloxinias are the true erect flowering type, grown by a specialist in Europe.

Blanche de Vera, white, rose bordered.
Defiance, glittering crimson.
Emperor William, blue, white border.
Etoile de Feu, carmine red.
Kaiser Frederick, scarlet, white margin.
King of the Reds, dark scarlet.
Madame Helene, white, with violet crown.
Marquise de Peralta, white, red bordered.
Mont Blanc, snow white.
Prince Albert, deep purple.
Princess Elizabeth, white, bordered blue.
Princess Mathilde, white, with rose crown.
Queen Wilhelmina, dark rose.

Price above named sorts 65c. doz., \$4.50 per 100, \$40.00 per 1000.
All Colors Mixed, 50c. doz., \$4.00 per 100, \$35.00 per 1000.

FANCY LEAVED CALADIUMS

A grand Brazilian collection containing twenty varieties personally selected by us from over one hundred sorts submitted by pressed leaves last summer—from which we selected the cream.

Extra fine bulbs in 20 varieties, per doz., \$1.50; per 100, \$12.00.

Fine bulbs in 20 varieties, per doz., \$1.25; per 100, \$10.00.

Mixed varieties, per doz., \$1.00; per 100, \$8.00.

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INCLUDE THE BEST DECORATIVE DAHLIA—SYLVIA. Flowers 4 to 6 inches in diameter, of fine form and full to the center, which is white, shaded to soft pink on the outer petals. One of the best cut-flower varieties. 10c. each; \$1.00 doz.; \$8.00 per 100.

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ARTHUR T. BODDINGTON, 342 West Fourteenth St., NEW YORK.

Some Dianthus—All Dianthus are Divine Flowers.

Next to the violet, these divine flowers are the sweetest and most deliciously scented of all small growing plants. They possess most exquisite colorings and are delightful in all gardens, being among the best known and most popular plants of the world. In the very smallest gardens in the remotest parts of Europe, there will be found some one or more of the dianthus family, as surely as one may find a common lilac.

Taking those members of the family in the order of their popularity, the first being carnations, they are the most prominent of the dianthus. Their several sections embrace those known as Water flowerlet, or perpetual, florists', Summer flowering, florists' picotees, tree carnations and hardy cloves.

The Water flowering carnations are to-day of nearly as much commercial importance as the rose. There are hundreds of varieties and millions of plants grown annually.

The florists' Summer flowering carnations give but one crop each year, in July. They have always been the artisan amateur's flower in England, where they need no glass of any kind to protect them. For more than 150 years these Summer flowers have been the joy of hundreds and hundreds of men whose income would not average five dollars a week, whose collections, if large, contained no more than 48 varieties and on average three or at most four pairs of plants of each. The plants are layered in pots, two plants in each pot, in round numbers 400 plants. Each pair as one clump, planted in September in prepared beds, 4 feet 6 inches wide, the front row 9 inches from the edge and the back row 9 inches from the back and the 4 rows of plants 9 inches apart—in the beds both ways. All tall growing varieties, each kind together, are planted lengthwise of the bed in the back row; the next tallest in the second back row and the shortest growing varieties in the front row. Tying, staking and handling are done from both sides of the bed, each bed being covered with roof and sides made of fringed muslin or canvas as soon as the flowers begin to show color.

Smaller collections of half the number of varieties and number of plants receive the same treatment. The beds are raised above the ground level six or more inches, and are well drained. September is the month for planting. The plants are mulched during the winter. Care is taken to keep them clean, and toward flowering time the buds are thinned out to four or six on each plant. Clubs, with a small membership fee, are general. Members compete with each other, with flowers both on and off the plants. A club collects the best flowers from its members, and exhibits them against other clubs' flowers. Nottingham against Derby, small clubs, village against village.

Carnations are divided into seven sections, crimson, pink, purple and scarlet bizzarres. These are marked with more than two colors on each flower; rose-purple and scarlet flakes on white grounds and self. Each class is shown separately as a rule, one flower of each, except in special sweepstakes, where two to five dozen are in one competition consisting of all or any classes. They are exhibited on stands 15x9 inches, painted dark green and most highly varnished, each flower on a white disc of stiff paper, large enough to write the name legibly on the lower edge, thus, "Taylor's Lord Napier." The prizes consist of anything from a silver pencil case to a silver cup or more.

All this has been going on before any railways, or street cars, when the stage coach was the only public conveyance. I have heard and do now hear men say with upturned noses, what a ridiculous way to show flowers—with paper collars on them! These same men would hardly be capable of making the paper collars, much more grow the flowers. True lovers of flowers never make such remarks.

Other carnations are the old clove, the sweetest smelling of all. A clump of the old oxblood crimson, 2 feet high, and as much through, is a sight, and a scent never forgotten. There are several lighter colored cloves all of which are desirable.

The tree carnations of the continent differ somewhat from the perpetual form of our greenhouses, some of which are acceptable.

The picotees are grown the same as the carnations and are shown in the same manner, being divided into sections, heavy purple red and rose-edged, light purple, pink and red edged, and yellow grounds.

The florists' pinks are grown more extensively, requiring less room, and are not quite as fastidious in their requirements. They are shown in the same manner as carnations and are divided into sections of crimson, red, purple and rose markings on white grounds known as lacing. Good collections consist of from 75 to 100 varieties. These florists' pinks should be more extensively cultivated here as they are as hardy as the old garden pink and require only a rich friable, well-drained soil to be successfully grown in any locality. Other pinks desirable for the garden are: Anne Boleyn, very, very old but a beauty still; Derby Day, Lord Lyons, Mrs. Jas. Welsh, Miss Owens and Rubens, finely colored varieties; Ambriata major, Lady Blanche, Mrs. Pettifer, Mrs. Sinkins, Pilgrig Park and Delicata, white and light varieties.

Still another section is the mule pinks or hybrids. The really old blood red crimson, with good sized

double flowers is rarely seen. It is one of the very best garden plants. Hybridus multiflorus, introduced around 1864 or '65, raised from Quercuili and a garden carnation, a pure white Marie Parc, a crimson; Napoleon the III, a deep rose and a rose and white striped are all excellent garden plants, and for florists' Spring plant trade there is none better, when properly cared for.

The following list of species contains only those possessing characteristics valuable for garden purposes generally.

The recorded number of known dianthus species is nearly 250.

Alpestris, flowers red, two or more together; petals margined with lighter color; leaves narrow, lance-shaped; height 6 to 10 inches. July, E. Alps, 1817. Good rockery plant.

Alpinus, flowers deep rose spotted deep crimson, very freely produced; petals fringed; leaves, short, blunt, deep green; height from 4 to 6 inches. Austrian Alps, 1759. A gem for rockeries.

Arbusculus, flowers rich, deep purple crimson borne solitary, double and single blossoms; inside petals spotted at the base with pink and cream, outer petals toothed and fringed; leaves, lanceolate glabrous; stems, strong. June-August. Height from 1 1/2 to 2 feet. China 1824. Plant not hardy; a fine Summer plant out of doors and should make a good parent.

Arenarius, flowers spotted crimson on white ground; petals, lobed, narrow at base; leaves nar-

Gigauteus, flowers many, deep purple, borne in round heads supported by leafy bracts; leaves very long and narrow on round stems; height from 2 to 4 feet. Summer, Eastern Europe, 1828. Not hardy, but a telling Summer plant, worth breeding.

Latifolius, flowers, plak to red borne in flat trusses on strong stems; leaves broad and blunt. A hardy and desirable plant. Native country not described.

Plumarius, garden pink, mother of many forms, including the florists' kinds; known also as pheasant's eye. Flowers either double or single, white, purple, red or crimson, spotted, striped and variegated; petals more or less fringed or jagged; sweet scented; leaves narrow, stiff, glaucous and numerous; stems carry two or more flowers. Height from 9 to 14 inches. Eastern Europe, 1629. Everybody's plant.

Superbus, the night scented pink, flowers deep rose colored, extremely fragrant at night, of medium size; petals much divided, bearded and feathered; leaves lance-shaped, smooth and dark green; stems smooth topped with many flowers. Height from 9 to 18 inches. All Summer. Northern Europe, 1596. A grand old plant.

With the growing interest in Summer gardening, the getting together of a number of species of one genus, and colonizing them as it were, affords not only delight to the eye, but pleasure and study to the mind in their display of structural differences.

It does seem to me that the American Carnation Society could some time, in some place, in its publications, or at some of its meetings, find room, or time, or both, to intimate that there are more than one member of the family to recognize; or is the Carnation Society an organization for cut flowers of one kind only? If so, the title is a misnomer!

JOHN THORPE.

Mixed Pollen.

Editor Florists' Exchange:

I have been somewhat amused by the various opinions expressed of late on the artificial fertilization of the carnation and I may add, other flowers. There seem to be some who "think" that pollen of several varieties can be gathered and "mixed together," and be used in fructifying the seed-bearing carnation flower to produce new and desirable improved varieties. If this was so, we then would have in nature endless varieties of every conceivable color. But such is not the case. If it was so, the results would be shown on every hand.

We will suppose that a good red carnation is to be taken for the seed-bearing plant, and "mixed pollen" from a white and a pink variety is used to fertilize the red variety for the desired seeds. In this case of "mixed pollen," why may we not expect the seedling plants to produce plants giving white flowers and pink flowers on the same plant? We might also expect parti-colored flowers, of red, white and pink of even colors.

There certainly is a field for the so-called "wizard," Mr. Burbank, to show his cunning. The climate of California is peculiarly suitable and propitious for the purpose. Let Mr. Burbank take "mixed pollen" of the sweet orange and the lemon and cross it on the lime, or some other distinct variety, and from the seeds raise plants that will produce fruits, half orange and half lemon; and if he succeeds in doing so, it will really be "a new creation," as nothing like it has been seen before.

Our friend E. G. Hill might also take a hand in mixing rose pollen, and give us in due time rose bushes producing several colored flowers on the same plant. This then would show that mixed pollen had been effective, and would convert the skeptical into believing it.

A few seem to think that "mixed pollen" from stated colors will produce desired results, as the several colored pigments which are mixed by the painter on his palette give the desired tints wanted. This in the abstract cannot be done by mixing pollen for new carnations, nor any other flowers. One variety of pollen only will be prepotent in the fertilization. Remember, Mr. Editor, "of Brian's birth strange things were told," and some would tell us that desired results had been obtained in the vicious resultless system of using "mixed pollen."

A conscientious hybridizer and crosser for new varieties will not experiment with "mixed pollen," but would use one variety as the male in first cross and would in crossing the seedling use the other color contemplated. I wonder if Victor Lemoine uses "mixed pollen" in his crosses? I doubt it very much. As an earnest of my convictions that it is useless to try it, I stand ready to donate a respectable sum to any hospital in the country, or to the raiser of these "new creations" as indicated above as an incentive to the production of same. Then if produced (?) I think that an advance beyond our present conception has been made, and the "mixed pollen" experimenter will then be in the foreground on a pinnacle of success too high for us at present to contemplate, and will deserve the plaudits of his fellow craftsmen.

Rochester, N. Y. JOHN CHARLTON.



Dianthus Plumarius

Photo by Joho F. Johnston

row. Height from 6 to 10 inches. July-August, Eastern Europe, 1724. Rockery.

Atrorubens, flowers dark red in clusters, freely produced; leaves narrow and persistent; height, 1 foot. Summer, Eastern Europe, 1802.

Barbatus (sweet william) hardly needs describing. It is not nearly as much grown as it deserves, and there has been scarcely any improvement in it the past thirty years, which is to be regretted. One doesn't see Hunts' Improved, with flowers as large as a quarter and with clear and decided colors.

Cesius (Cheddar pink), a little beauty with its cheerful, delicate, rose colored flowers, crinkled petals, and delicious scent. Growth short in tiny tufts covered with glaucous bloom. Height from 3 to 6 inches. Britain. Time of introduction not noted.

Caryophyllus, carnation, clove pink, the parent of many kinds of carnations and picotees. The only really hardy kind. It is known as the old clove. The plants are hardly to be classed as hardy in the Western states. They are beautiful and worthy of any care given them. Other kinds have been previously described.

Chinensis (Indian pink), flowers very variable in color double and single like those of sweet william. It does not receive the attention it merits. All Summer. China, 1817.

Cinnabarinus, a comparatively new species of great merit; flowers large, deep, fiery red; leaves narrow and quite stiff; of fine shrubby habit. Height from 10 to 16 inches. Flowers all Summer. Thessaly, 1888. This should make a valuable plant for the hybridist.

Deltoides (maiden pink), an exquisite little plant for the rockery, dainty, prim and polished; flowers rose with deeper colored centers; leaves small; stems branched. Height from 6 to 9 inches. All Summer. Britain.

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OUR stock was never finer. If you cannot come to inspect it send for price list.

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Robt. Craig, My Maryland, Jessica. Price \$6.00 per 100; \$50.00 per 1000.
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Mrs. M. A. Patten, Judge Hinsdale. Price \$2.50 per 100; \$20.00 per 1000.
Mrs. Thos. Lawson. Price \$2.00 per 100; \$17.50 per 1000.
Golden Beauty, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000.
Mrs. E. A. Nelson, Dorothy, Wm. Scott, Ethel Crocker, Eldorado, Mrs. Joost, Portia. Price \$1.50 per 100; \$12.00 per 1000.

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Verschaffeltii, Golden Bedder, Firebrand, Gluck Aaf. Mixed varieties, fine rooted cuttings. Price \$0.75 per 100; \$6.00 per 1000.

GRAFTED ROSES The Finest and Best Grown
Liberty, Richmond, La France, Killarney, rose pots, \$15.00 per 100; 3/4 in. pots, \$18.00 per 100.
Bride, Bridesmaid, Golden Gate, Kaiserin, rose pots, \$10.00 per 100; 3/4 in. pots, \$15.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

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Golden Bedder and 15 Fancy Bedding varieties. R. C., 60c. per 100; \$5.00 per 1000.
Verschaffeltii, 75c. per 100; \$6.00 per 1000. **Coleus**, Giant Fancy Leaves, \$1.00 per 100. **Lobelia Compacta**, blue, R. C., 60c. per 100; \$5.00 per 1000. 2 in. pots, \$1.50 per 100.

R. C.	2 in.	100
Fuchsias, Best Varieties.....	1.00	\$2.00
Heliotropes, Dark.....	1.00	2.00
Vinca, Variegated.....	2.00	2.00
Geraniums, Double White.....	2.00	1.50
Verbenas, Purple, Scarlet, White.....	1.50	.75
Agaretum, Pauline and Gurney.....	.75	1.50
Geraniums, 3 in. pots, \$4.00 per 100.		

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COLEUS, Golden Bedder, and other varieties, rooted cuttings, 60c. per 100; \$5.00 per 1000.
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SWEET ALYSSUM, 2 1/2 in. pots, fine, \$2.00 per 100, Capt. of Snows, 2 1/2 in. pots, fine, \$2.00 per 100, Little Gem, \$2.00 per 100.
LOBELIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.00 per 100.
AGERATUM, in variety, \$1.50 per 100; R. C., 80c. per 100.
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SALVIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.50 per 100.
ALTERNANTHERAS, R. C., 80c. per 100.

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WINSOR and **HELEN M. GOULD**, \$12.00 per 100, \$100.00 per 1000.
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BOSTON MARKET, GENERAL MACEO, MRS. T. W. LAWSON, PINK ARMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

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ACERATUM, "Gurney," best dwarf blue. \$2.00 per 100.
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PETALONIUMS, Fancy mixed, 3 in., \$8.00 per 100.
ROSE GERANIUMS, 3 in., \$5.00 per 100. Also Seeds as per our recent adv.
CASH. Extras added liberally.

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The Home of Primroses.

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on what you will have to pay for

PEONY BLOOMS on DECORATION DAY

but send your order now and have it booked at a reasonable price. In cities where Commission Houses are located, we sell through them, but re-shipment takes off the luster, therefore, if you are not near a Wholesaler, send your order direct to us and receive your blooms in first-class condition. Orders received for any quantity, from one-half dozen to one thousand.

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DREER'S UNRIVALED STRAIN

DOUBLE PETUNIAS

ROOTED CUTTINGS BY MAIL 100
White, pink, red, crimson and variegated... \$1.25
Abutilon, New French Dwarf, R. C.....1.50
Heliotrope, Dark.....1.00
Lilibeus, R. C.....1.50
Hibiscus, trailing.....1.25
Moon Vine, Smith's Hybrid Seedlings.....2.00

PLANTS
Dracaena Indivisa, 2 1/2 to 3 feet high \$15.00 and \$25.00 per 100.
Shasta Daisy, 3 in..... 3.00

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3-in. plants, 10c.; 4-in. plants, ready for 5-in., 15c.; 5-in. plants, 25c.; 6-in. plants, 35c.
VINCA, variegated, strong, 4 in., 10c.
ASPARGUS SPRENGERI, 3 in., ready for 4 in., 6c.
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PLUMOSUS NANUS , 2 1/2 in. pots..	Per 100	4.00
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Dwarf double, 2 in., 2c.
COLEUS, 2 inch, 2 cts.
SALVIA, Bonfire, Splendens, 2 in., 2c.
ROOTED CUTTINGS, prepaid per 100.
FUCHSIA, 5 kinds, \$1.25. **AGERATUM**, white, GURNEY, PAULINE, 60c. **VINCA VARIEGATA**, 90c. **SALVIA BONFIRE**, SILVERSPOT, SPLENDENS, 90c. **ALTERNANTHERAS**, 3 kinds, 50c. **HELIOTROPE**, 3 kinds, \$1.00. **FLOWERING BEGONIAS**, 8 kinds, \$1.25. **PARLOB IVY**, 75c.; **DOUBLE PETUNIAS**, 10 kinds, \$1.00. **MUMS**: TRANTOR, ALLIANCE, and **PACIFIC**, \$1.25. **STEVIA SERRATA**, and **VARIEGATA**, 75c. **COLEUS**, 10 kinds, 60c.
FEVERFEW, dwarf double, nice young plants \$1.00 per 100.
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Cash with Order.
Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100.
Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.
Geraniums, S. A. Nott, John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellane, Poitevine and Viand, 2 in. pots, \$3.00 per 100.
Rox Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100
Boston Ferns, 5 in., 30c. each
Vinca Var, 100.
Gladiolus, blooming bulbs, extra fine mixture, to close nut while they last, 60c. per 100; \$5.00 per 1000.
Primula Obconica, 3 in. in bloom, \$5.00 per 100.
Heliotropes; **Coleus**, red and yellow; **Cigar Plants**; **Verbenas**; **Scarlet Sage**, 2 in. \$2.00 per 100.
Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s; properly packed in good order.
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Three inch stock ready for four inch at \$6.00 per 100. Samples ten cents.
ALBERT M. HERR, Lancaster, Pa.

STRONG SMILAX Seedlings

\$3.50 per 1000
W. A. COWGILL, Salem, O.

A Good Investment.

Referring to a full page advertisement he recently used in The Florists' Exchange, S. S. Skidelsky says: "I am well satisfied with the results and consider the advertisement a good investment."

The Poehlmann Plant at Chicago.

On the occasion of a recent visit to the West one of the most prominent and successful horticulturists which the phenomenal strides of commercial floriculture of the past two or three decades have produced was met one day on his return from the Poehlmann Brothers Company's ranges at Morton Grove, Ill., where he had spent the better part of the day enjoying a thorough inspection of the immense establishment, and he remarked to the writer that that day alone had more than repaid him for traveling one thousand miles from home and leaving his business at a comparatively busy season.

Descriptions of the Poehlmann plant have appeared from time to time, and yet it seems that innumerable visits but tend to increase one's interest in the establishment, as something new is always to be found, "the latest and best" being the maxim of the concern, one, too, which unquestionably accounts for much of the success which here pre-eminently prevails. It matters not what the price of an article or of stock is. If the one is a money-saver and the other a money-getter it is the policy of this house to buy; consequently one may search far and near among places large and small with the positive assurance that a more thoroughly up-to-date and perfectly equipped establishment will be hard to find. No detail is overlooked, however trivial it may appear, that tends to expedite or more perfectly execute the manifold branches connected with the work of so large a business, and the results speak for the care, attention and system which are in constant evidence every minute of the twenty-four hours at this well-managed establishment.



Partial View of Poehlmann Brothers Company Plant, Morton Grove, Ill.

was a large supply, probably 2,000 tons, on hand, so it was estimated that the year's consumption from July to July would be in the neighborhood of ten thousand tons.

This concern, though one of the youngest of the very

grade than most others, as among their products are included not only roses, carnations and chrysanthemums, but lilies, lily of the valley (of which 400,000 pips are ordered for next year), Asparagus plumosus and Sprengeri, smilax, great benches of adiantum, antirrhinum, Holland bulbs in all popular commercial sorts, mignonette and, in fact, practically all commercial staples for which they have a call.

The propagating department is run on a very large scale. On March 1 upwards of 200,000 carnations were already potted off into 2½-inch pots and a second lot was in the sand. Rose cuttings in different stages were seen in proportionately large numbers and hundreds of feet of bench were filled with chrysanthemum stock plants, which it was estimated would produce 800,000 cuttings within the next few months.

The list of commercial varieties of roses, carnations, and chrysanthemums grown is a long and complete one, embracing this season twelve, fifteen and twenty-eight sorts respectively, and a good stock of the new carnations has been ordered, including 12,000 White Perfection, 5,000 each of Aristocrat, Winsor, Beacon and Pink Enchantress, and smaller lots of Mabelle and Welcome. In this manner it may be seen that the carnations are kept thoroughly up to the times, and that no sign of degeneracy is perceptible in many standard varieties which in other places are evidencing symptoms of die-back, attributable doubtless to the great pains taken in preparing the soil in which they are grown, the field plants never occupying the same location twice without the intervention of a grass crop, and the sod for compost for benches being selected from different sections with great care.

Permanent improvements are constantly being executed at Morton Grove, these at present under way or in immediate contemplation being a packing shed 50x150 feet, for which the foundation is already laid, and a complete electric light and cold storage plant.

WILLIAM K. WOOD.



Dwelling House of August Poehlmann, Morton Grove, Ill.

One million square feet of glass, a round million, is now the claim for the area of this noted range, and it will probably measure up more than that, as by exact measurement the addition of last Summer filled out 250,000 square feet to what was generally conceded to be an 800,000-foot plant before.

The business arrangements of the concern are well nigh perfect, August Poehlmann and Adolph Poehlmann having respectively general supervision of plants A and B into which about equal subdivisions the glass area is separated, while the salesroom and shipping department are under the management of John Poehlmann. At plant A Foreman Richard Salm is in charge of the roses, and Foreman Guy W. French of the carnations and chrysanthemums; while at plant B, which is all devoted to roses, the foremen are William Keimel and Robert Hand.

A few facts will give the reader a slight idea of the immense scale on which the flower business is carried on at Morton Grove. The matter of help is, of course, a vital one, as there are constantly employed in connection with the establishments one hundred and fifteen men, the one item of heat requiring one chief and two assistant engineers and fifteen firemen and temperature men, a numerical force in itself which would doubtless have fulfilled all requirements in the largest similar plant in the country not many years ago. Twenty draught horses are continually kept busy in connection with the work, notwithstanding the fact that spur tracks deliver the coal and manure right where they are desired and where they are unloaded by latest improved appliances. But there are 7,000 to 8,000 loads of soil to be hauled each year in addition to which 125 carloads of manure are used annually. The freight-book showed the receipt from the 28th day of July last to March 1, seven months, of 261 carloads of coal, averaging from 38 to 40 tons to the car, but there

large places, is certainly one of the most progressive and probably produces a larger variety of stock of high



August John Adolph
The Poehlmann Brothers

Plants for Spring Trade

	Per Doz.
Dracaena Terminalis, finely colored, 4 inch pots,	\$4.00
" " " " 5 " " "	5.00
Cocos Weddeliana, fine plants,	3 " " 2.00
Kentia Belmoreana, " " 24 to 28 inch high,	9.00
" " " " 18 to 20 " " "	7.50
Araucaria Excelsa, " " 15 to 18 " 4 tiers	7.50
" " " " 20 to 24 " 5 " "	10.00

Peter Henderson & Co., 35 & 37 CORTLANDT ST. NEW YORK

Brazilian Canes of Dracaena Terminalis

The only true variety and must not be confused with West Indian Stock.

Per foot 30 cts. Per 100 feet \$25.00. Per 1000 feet \$200.00.

**Arthur T. Boddington, 342 West 14th Street
New York City**

GERANIUMS

10 varieties, 2 and 2½ in. pots, my selection	\$3.00
10 varieties, 3½ in. pots, my selection	4.00
Alternantheras, red and yellow	2.00
Pansy Plants, April 1	1.50
Pansy Seed, Giant flowering, oz.,	\$4.00

CANNAS

10 varieties, 1 and 3 eyes, my selection	2.00
Coleus	2.00
Double Petunias, mixed	3.00
Vinca, variegated, 2 in. pots	3.00
Verbenas, April 1	2.00

CASH

JOS. H. CUNNINGHAM, Delaware, O.

SALVIA ZURICH

THE EVERBLOOMING SALVIA

One of the most important novelties in bedding plants introduced for a long time, produces its wealth of flowers while very small and is in its full glory long before any other kind shows even a bud, grows also much dwarfer and more compact. Our stock is raised from cuttings and seed, which was procured in Zurich, Switzerland.

Strong plants from 2½-in. pots, 75c. per doz., \$5.00 per 100, \$45.00 per 1000. For full description send for circular or see American Florists' Carnation Number, page 19, Florists' Exchange, page 185, and Horticulture, pages 140 and 202.

PERENNIAL GARDENS CO., Toledo, O.

AZALESA

All colors 50c., 75c., \$1.00, and \$1.25 each. Well budded. Shipped in Pots unless otherwise ordered.

Cash only

BINLEY the FLORIST
Glens Falls, N. Y.

O. K. Orchids

A large shipment of *Cattleya Mendelli* just arrived in splendid condition. Prices on application. Also three cases of specimen plants.

Orders taken now for *Cattleya Trianae* for delivery in May.

Write for prices

John De Buck, Collector of Orchids
College Point, L. I., N. Y.

A COMPARISON OF COSTS

\$46⁸⁰

Is the cost of a one inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$140⁴⁰

Is the cost of a three inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$280⁸⁰

Is the cost of a six inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$3692⁰⁰

Is the cost of the *one cent stamp* required to mail 369,200 circulars, exclusive of the great additional cost of paper, printing, addressing, etc.

The advertisements in *The Florists' Exchange* are ALWAYS read. The circular generally goes into the waste basket, without being read.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.

Sander, St. Albans, England
and
235 Broadway, Room 1, New York City

ORCHIDS

Arrived in fine condition, *Cattleya Harrisonlee*, *C. Intermedia*, *C. Gigas*, *C. Trianae*, *Speicalissima*, *C. Leopoldii*, *Laella Purpurata*, *Oncidium Varicosum Rogersii*, *O. Marshallianum*, *Phalaenopsis Amabilis* and *P. Schilleriana*.

Write for prices.
LAGER & HURELL, Summit, N. J.
Growers and Importers

KENTIA BELMOREANA

5 in., clean and bushy, 50c. and 75c. each. 2½ in., for center of fern dishes, 10c. each; \$9.00 per 100.

SCOTTI FERNS, 6 in., 40c.
DRACAENA INDIVISA, 6 in., 35c.
FERNS FOR JARDINIERS, etc., \$3.00 per 100

H. WESTON, HEMPSTEAD, N. Y.

ROBERT CRAIG & CO ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS
Market and 49th Sts. PHILADELPHIA. PA.

PALMS AND FERNS

Write for Price List.
The Geo. Wittbold Co.
1657 BUCKINGHAM PLACE CHICAGO

ROOTED CUTTINGS Prepaid per 100. *Ageratum Ourney*, *Pauline*, 60c. *Alternanthera*, best red and yellow, 60c. *Coleus*, asst. 60c. *Heliotrope*, b.ue, 85c. *Salvia Bonfire* 75c. Cash.
SHIPPENSBURG FLORAL CO., SHIPPENSBURG, PA.

Orchids for Florists' Use.

(Paper read by J. A. Newsham before the Society of Southern Florists at New Orleans, La., February 15, 1907.)

The orchid family comprises many thousand varieties, some of which are both beautiful and curious, but are not available for florists' use many owing to their scarcity and the high price; others from the fact of their shyness to bloom under the treatment the ordinary florist has time and facility to give them; so that at the present time the number grown for cut flowers is limited to a few that are easily managed and not too expensive to buy in quantity. But I am sure the time will come, and that before very long, when there will be many more varieties added to the present list of orchids for florists' use, especially when their requirements become better understood by the general run of florists, without being expert orchid growers.

When we look back a few years in the cultivation of the rose and carnation, we could count the few men who then really made a success of their cultivation while to-day they are being grown in every part of the country, by the thousands, by men who have not spent a lifetime in learning how to grow them successfully. So it will be with orchids, which are plants that will stand rougher treatment without showing the immediate effect of it or ruining the season's crop of flowers, as is often done by a little mismanagement of either the carnation or the rose. At the same time, when once an orchid gets into a very bad condition, it is often better to throw it away than try to bring it around again. This is one reason why so many have failed to make orchid growing pay; one-half of the space is filled with plants which bring no returns and, in most cases, only make a breeding place for all kinds of insects and fungous diseases to ruin the balance. Of course, there may be exceptions in which a plant may be of some special value, and may pay for the time and attention necessary to restore it to a healthy condition.

How to Start.

The first question for the beginner to ask is, "What kinds of orchids shall I start with?" My advice to him is to begin with what are generally termed "semi-established plants;" that is, plants that have been recently imported and have already commenced to grow; and get them from a first-class house making a specialty of this business. By doing so he not only learns how they are potted, but will also stand the chance of securing special varieties among them as they are not all collected while in bloom, and many of the finest and most valuable varieties have turned up among imported plants. For this reason one may often buy old established plants cheaper than newly imported ones, but he may be sure all of the good varieties have been picked out of them.

While I will give a list of varieties to grow especially for cut flowers, I am sure it will pay anyone who runs a store to grow a nice collection of other orchids as an advertisement, using them when in bloom for the decoration of the store window, or for any other purpose, as they always command attention and are talked about wherever rare flowers are mentioned.

Pottings.

Orchids are grown in many ways; in ordinary pots and pans, baskets made of wood and earthenware; and the small growing kinds do well on blocks of wood. I prefer pots or hanging pans, mostly for their lasting quality, for although the plants will grow as well in wooden baskets there is always the drawback that these commence to rot and get full of fungus, and it is not an easy matter to remove the plants as the roots become grown around the baskets. To put the plants in larger baskets without taking the old ones away, is sure, sooner or later, to end badly on account of the fungus from the rotten wood. With pots there is not so much danger; they last much longer and are cheaper as well. For potting material peat is good where it can be easily procured; if not, fern root and live sphagnum moss are all right. The pots ought to be more than half full of broken pots and charcoal, and the plants must be firmly potted and staked until they have become established. This is very important, for if they are loose and shaky they seldom do well. And by all means, use as small pots as possible, especially with newly imported plants or any that have gotten into a bad condition at the roots from over-watering or any other cause.

Watering.

This is one of the most important things in orchid culture. Too much water at certain seasons is the cause of many failures, especially in Winter, during their resting period. In our climate where we do not have to fire very hard, very little water is necessary; perhaps a little twice a week is sufficient, just enough to keep the plants from shriveling. I make it a rule in the Winter when I have any doubts as to a plant wanting water to pass it by until the next time; and in the Summer, under the same conditions, I water it then. I have found this a good plan, not only with orchids but also with other plants. Of course, weather conditions have a great deal to do with the amount of water needed. In the Summer, with outside plants and good drainage, there is not much fear of over-watering; twice a day not being too much for established plants or plants in baskets

or blocks. Of course, newly potted or imported plants would require less heavy watering until they commence to grow freely.

Resting.

This is also important with many orchids, especially cattleyas, bellas and dendrobiums, also some varieties of oncidiums. When a plant has about finished its growth it is time to reduce the watering by degrees until you give just enough to keep the bulbs plump and maintain them in that condition until they commence to show flower, when they require a little more water. But never get them soaked or the buds are liable to turn yellow and fall before opening, especially in a low temperature. After flowering they generally commence to grow, and this is a good time to pot them or change them in any way needed.

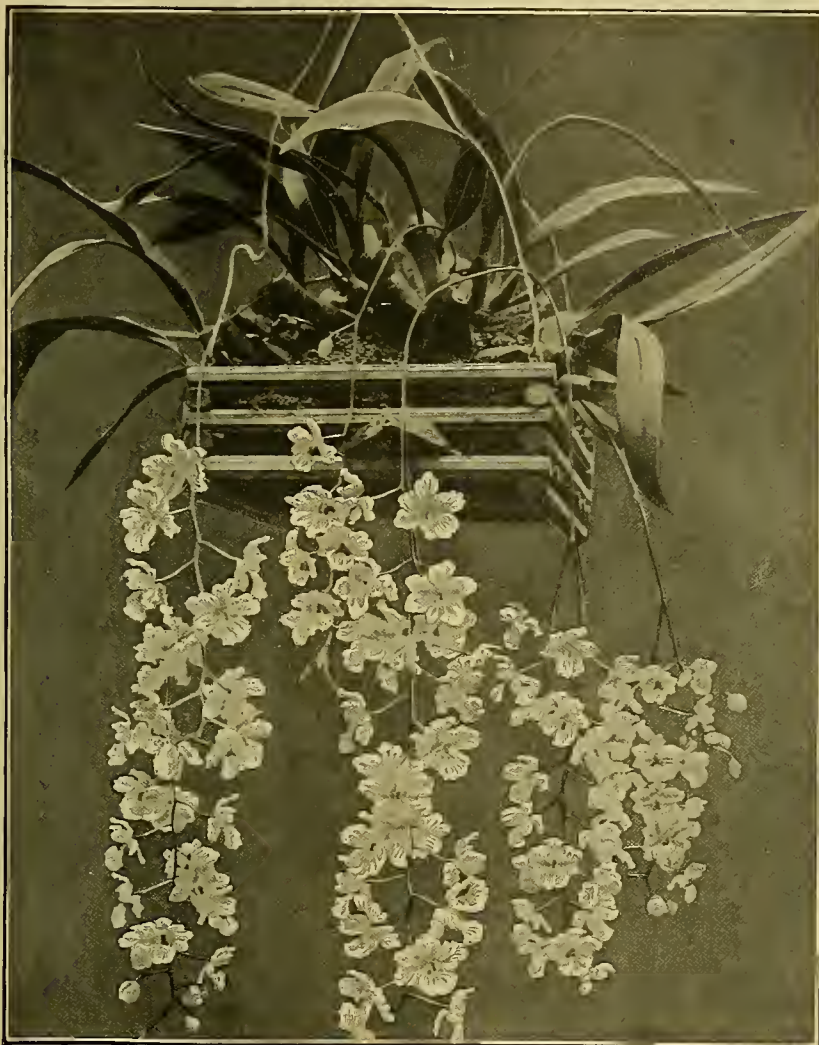
List of Vegetables.

Cattleya Trianae from Colombia, is considered one of the best for florists' use, being one of the easiest to grow. It varies very much in color, from pure white to deep rose. It blooms here from November to April and sometimes twice.

Cattleya Mendell, from Colombia, is of about the same color as, is somewhat larger, and blooms a little later than C. Trianae.

Cattleya Mossiae form Venezuela, varies very much in size and color, some varieties being almost double the size of that of others. It blooms after C. Mendell. A good variety of C. Mossiae is hard to beat.

Cattleya gigas, from Colombia, is the largest flowering cattleya and in its native country one of the freest bloomers, having as many as seven flowers



Odontoglossum citrosamm

Club Management.

As we cannot grow any of the cool orchids in this climate we need only to place them in two houses: one for the East Indian and the other for the American. There need be very little difference in the temperature of the two houses, but the one for the East Indian sorts such as the cypripediums phalaenopsis and dendrobiums need to be kept much moister and require less ventilation, as this class, most of them not having bulbs, cannot be allowed to become so dry or they will lose their foliage except dendrobiums which may be wintered in the same house as cattleyas, as they require, about the same treatment while resting. The American orchids do better outside under slat shades, from about the first of April until they have completed their growth, when they must be brought under cover, as a wet season would start them into growth again. I have not given the East Indian kinds a thorough trial outside during the Summer months, but most of these make more growth with us in one year than they do in the North in two, without interfering with their blooming.

on a single spike. Under cultivation it is not often seen in this condition, but by growing it in pans or baskets hung close to the glass, and given a little more heat, it will flower quite freely during July and August.

Cattleya labiata (Brazil) is the best for Fall flowers and a very easy orchid to manage. While not so fine a variety as some, it comes in when flowers are scarce and should be grown on that account.

Cattleya Percivaliana is considered a small variety of C. Mossiae with a shade darker lip, and is the latest of the large flowering cattleyas to bloom.

Cattleya Skinneri (Central America) is the best of the smaller flowering cattleyas; it blooms in the Spring; is of a deep rose color, and bears as many as eighteen flowers on a spike.

Laelia purpurata (Brazil) is a very fine orchid, blooming in the Summer months; it is becoming very scarce.

Laelia anceps (Mexico) and its many varieties are easy to grow. It blooms in the Fall, throwing long spikes of flowers, making it always useful in any kind of work or decorations. In color it runs from pure white to deep rose.

Phalaenopsis amabilis (Philippine Islands) is one

WIETOR BROS.

CANADA

QUALITY



VARIETY

MEXICO

AROUND THE CIRCLE
 WE LEAD ALL COMPETITORS
 AND

We Cover the Country With Delight

WITH the best Shipping Facilities and Railroad Connections in the world, with a stock of goods of our own growing that cannot be excelled anywhere, we are prepared to quote prices for your Easter Requirements for Cut Flowers in any quantity. Our specialties are ROSES and CARNATIONS. Our Reputation is a guarantee of satisfaction to our Customers. Write to us for Prices.

Rooted Carnation Cuttings

	Per 100	Per 1000		Per 100	Per 1000
Mrs. Lawson.....	\$2.00	\$15.00	White Cloud.....	\$1.25	\$10.00
Guardian Angel.....	1.50	10.00	Fred Burki.....	2.50	20.00
Euchantress.....	2.50	20.00	Harlowarden.....	2.00	15.00
Lieut. Peary.....	3.00	25.00	Chicago.....	1.50	12.50
Boston Market.....	1.50	11.00	Estelle.....	2.00	15.00
			Red Sport (Maceo).....	2.00	15.00

Roses from 2½ inch pots

	Per 100	Per 1000		Per 100	Per 1000
Brides.....	\$3.00	\$25.00	Chateauy.....	\$3.00	\$25.00
Bridesmaids.....	3.00	25.00	Uncle John.....	3.00	25.00
Richmond.....	3.00	25.00	Kaiseric Aug. Vic.....	4.00	35.00
Rosalind Orr English.....	4.00	30.00			

CHRYSANTHEMUMS

Rooted Cuttings from sand ready April 1st

White	Per 100
Estelle.....	\$2.00
Geo. S. Kalb.....	2.00
Mrs. Robinson.....	2.00
T. Eaton.....	2.50
Mayflower.....	2.00
Wanamaker.....	2.00

	Per 100
Ivory.....	\$2.50
Mrs. Swinburne.....	2.50
C. Tousey.....	2.00
Mrs. Jerome Jones.....	3.00
W. H. Chadwick.....	3.00
Yellow	
Monrovia.....	3.00
Golden Chadwick.....	3.00
Yellow Mayflower.....	2.00
Yellow Jones.....	2.50
Yellow Eaton.....	2.50

	Per 100
Col. Appleton.....	\$2.00
Mrs. Geo. Beech.....	2.50
Roi d'Italia.....	2.00
Chas. Croun.....	2.50
Percy Plumridge.....	2.00
Maj. Bonnafeon.....	2.00
Pink	
L. Filkins.....	2.00
Pink Ivory.....	2.50
Roziere.....	2.00

	Per 100
Lady Harriet.....	\$3.00
Glory of Pacific.....	2.00
Win. Duckham.....	2.00
Mrs. Perrin.....	2.00
Mrs. Mary Mann.....	2.50
Marie Liger.....	2.00
Monogram.....	2.00
Cash.....	2.00
Red	
Intensity.....	2.00
Oakland.....	2.00
Black Hawk.....	2.00

WIETOR BROS., Wholesale Growers '51 **Wabash Ave.,**
 of Cut Flowers **CHICAGO**

of the finest orchids to grow in this section, bearing as it does large spikes of almost pure white flowers in the Spring months when they are always in demand. It is considered rather hard to manage, and as it comes from a hot climate it is grown too close and confined in the attempt to keep up the temperature especially in the Winter time, when much fire heat is required. Here we have plants which only receive fire heat a few times during the Winter, the temperature often going down to below 45 degrees, and still these plants do not seem to suffer in the least. But they are grown in an open house all the time, where everything is left open night and day, except where there is fear of a frost, and they have been growing that way for years.

Phalenopsis Schilleriana, from the same country as the last named, is a stronger grower, bearing a spike with as many as 100 flowers at one time; color from pale to dark pink.

Vanda cerulea (Northern India) is one of the few blue flowering orchids varying from light to dark blue. It is always salable.

Notes from Pittsburg.

Tuesday evening, March 5, was the regular monthly meeting night of the Pittsburg and Allegheny Florists and Gardeners' Club, and although the attendance was somewhat thin we had a lively time and a good show of Easter plants. We wished to get an Eastern man to come to this meeting to talk to us, but so soon before Easter he couldn't reasonably absent himself from his business for a couple of days. After the Spring rush is over, though, we may have better luck.

Between 6 and 7 o'clock the evening of our meeting, there arose over this town a Dakota-like blizzard—terrible wind, blinding snow and piercing frost—and this interfered with the attendance at the club. President Jones declared that with nailing down ventilators, tacking muslin and canvas over holes in the roofs, and chusing after wind-tossed sashes no doubt the poor fellows had enough to do at home for one night and could justly be excused.

same thing in Belle Alliance, and several reported blind bulbs among their Paper White narcissus. The Blind boys used to grow us fine lilies as ever came to Pittsburg, but now they cannot grow them at all; they don't know why. They showed very fine stocky Gertrude hycinthus.

Splendid Mrs. T. W. Lawson and Lady Bouotiful carnations came from a grower at Allison Park. This is a station a few miles out from Pittsburg; it, and Etna, Dehaven and Bakerstown are all within a short distance of one another. The whole neighborhood there is considered an A 1 carnation country.

John Bader sent extra fine potted spiraeas of the Gladstone variety. These plants are worth \$50 to \$75 a hundred wholesale, but the retailers claim that they cannot get more than a dollar a piece for them, and at this price there is very little money in them.

Only a rather limited number of genistas can be sold. A pretty 16-inch specimen in a 9-inch pot was shown. Wm. Leow said, "It would wholesale for 50c. and retail for a dollar. But if a lady came in and bought it, as soon as she'd see that pot, she'd exclaim 'Oh, I can't carry that pot, please send it!' Then where would I be? 50c. for the plant, 25c. to a boy for delivering it and 10c. for his carfare, allowing myself the extravagant sum of 15 cents!" Then you should have seen Henry Blind turn up his nose. "No, no," said Billy, "I don't care how big the plant is if it is good, but for mercy's sake, let the pot be small."

Walter James sent some very pretty cinerarias in bloom in 5 and 6-inch pots. There isn't much demand for them; 35c. to 50c. a piece is a fair price for them in 5-inch pots; more for proportionately large plants. And the growers claim there isn't much profit in them; they take up too much room. But they are invaluable for private conservatory work. Mr. Price sent stellata cinerarias 6 feet high and much branched. While these are not popular commercial plants there is a use for them, and Smith, the Sixth avenue florist, has fine decorations of them. There is much room for improvement in the selection of color among them.

Mr. Jenkinson sent very fine obconica primroses of the grandiflora strain and a dense ball of Gloire de Lorraine begonia. The primroses were raised from seed sown last May and grown on all Summer in a cold frame; they were brought into the greenhouse after the chrysanthemums were over and away. He raises his stock afresh from seed every year; it doesn't pay him to keep over old plants. An exceptionally fine dark variety was named Crimson Queen, of Sutton. The begonia was one of a batch that was in full bloom at chrysanthemum time, then cut over a little, slightly rested and started again to be in greatest glory at Easter. Mr. Price had the biggest plant of a Chinese primrose ever seen at our meetings—big as a bushel basket. Harry Blind said he could get \$2.50 for it. Mr. Price also had some very vigorous red amaryllis in bloom, and an attractive little bulbous iris—I. tuberosa. The Phipps conservatories contributed some fine tall Bermuda lilies and other plants and cut flowers.

A noticeable feature of the exhibition was that every flower pot had been washed clean. This is as it should be. Bringing plants in dirty pots to an exhibition, no matter how fine the plants may be, is reprehensible.

There were a couple of Scotchmen present, one a little man with a bald head, and the other a bashful young chap "wi' a cutty pipe stuck in his cheek." The old man got up and told "of a florist friend of his in another State, a Scotchman, who this week was going to a social gathering where there was to be a band of 16 pipers, three drummers and a drum major 6 feet, 4 inches tall." He tells me—"won't it be heavenly?" and suggests that I too come on and enjoy myself. Now, why should we have to go to foreign parts, when we have the men and the music right here at home?" That struck attention, and a "so say all of us" expression glowed cheerily on every face. But the thought of "A hundred pipers an' a' an' a'" a skirlin' till "the roof and rafters a' did dir!" overset the Dutchmen crazy. The majority of the florists here are German, and they well know that there is a strenuous bagpipe band in the Smoky City and that it is bot' heard and felt, while only tooting horns and fiddles stir the Teuton's heart. The president being a Welshman cared not whether we had pipes or pianos, providing we had good singing, and judging from the nervous twitching of the eyes of Pat, the primrose man, he didn't care a fig should Tubn's "blether" usurp Erin's harp, if he only got loud noise enough and quick enough for a breakdown or a jig.

The upshot of the matter was: As we have worked hard all Winter and times are fair and our spirits light, a little innocent recreation will do us good, and as there is no recreation so fine and enjoyable as that where our wives, our sisters, our daughters, our mothers, our sweethearts and our aunts are present with us, it was resolved that we consider this matter favorably, and some time between Easter and Decoration Day have a happy little social gathering. But as so many of our leading members were absent, the matter was deferred for final action until our next meeting.

WILLIAM FALCONER.



Dendrobium Wardianum

Dendrobium nobile (India) is one of the oldest varieties; easy to grow and flower.

Dendrobium Wardianum (Burmah) is also an old favorite.

Dendrobium Phalenopsis (New Guinea) is one of the best for cut flowers, giving spikes sometimes two feet long, with from twenty to twenty-four flowers of various shades of pink, lasting a long time in bloom.

Dendrobium formosum (Burmah) is a good orchid to grow, bearing white flowers which are much used for bridal bouquets.

Odontoglossum citrosium (Mexico) is about the only one of this class we can manage here. It should be given the same treatment as *Lælia anceps*. It throws long spikes of light pink flowers.

Oncidium erispum, *O. splendidum* and *O. varicosum* are three good kinds to grow, bearing long spikes of yellow or spotted flowers which are very suitable for decorations.

Blind Brothers had magnificent *Coleur de Cardinal* and *Murillo* tulips. They were in large pans, 30 bulbs in a pan and close together. When in bloom as they now are they get \$2.50 to \$3 each pan, retail for them. "No, they wouldn't grow them in smaller pans; when people come in for tulips they want tulips and it is as easy for us to sell these pans at \$3 as it would be smaller ones for \$1, and we have less trouble." They grow only four varieties, namely, *Yellow Prince*, yellow; *La Reine*, white; *Murillo*, double pink, and *Coleur de Cardinal*, crimson-scarlet; and they buy the best bulbs in the market.

John Jones showed *Prince of Austria* tulips and praised it highly for a day-light orange-scarlet variety, but the tradesmen declared it wouldn't stand the night-light test and they had no use for it. Mr. Jones complained that a majority of their *Keizerskroon* tulips have failed to bloom at all. Another grower noticed the

ORCHIDS ORC

ORCHIDS



NO man is bound to be rich or great—no, leader as a flower seller is bound to cannot do without them. ❁❁ A man if he be a florist and possesses not ORCHIDS

My Supply of ORCHIDS for Easter include C. Mendelii, C. Mossiæ, C. Maxima, C. Dendrobium Densiflorum, D. Wardian O. Rossii, Oncidium Sarcodes, Phalænoburgkia. ❁❁ Place your orders with me and you

Also a Superfine stock of Yellow and White

NOTE THE

JAMES J

TELEPHONE
759 Madison Square

42 We

Orchid growers seeking a profitable market in every part of the country enables me to dispose

ORCHIDS ORC

ORCHIDS ORCHIDS

It is not to be wise, but every retail florist who would be a success must include ORCHIDS in his regular stock in trade—he may possess industry, frugality and integrity, yet he is behind the times.

Such as Cattleya Schroederæ, C. Speciosissima, C. Godefroyana, C. Goyne Cristata, Cymbidium Eburneum, C. Fendleri, D. Nobile, Odontoglossum Crispum, O. Fendleri, P. Schilleriana, and Schomburgkiana—entire satisfaction is a foregone conclusion.

Such as Daisies, as well as Valley and Gardenias.

My ADDRESS

McMANUS

28th Street, NEW YORK CITY

Would you try me. The steady demand from retailers in New York and all other cities of Orchids at all times and to guarantee satisfaction

ORCHIDS

ORCHIDS ORCHIDS

Notes on Dahlias.

Now that the time is fast approaching when growers of dahlias will be making a start in the work of propagating by means of cuttings, a word here again may not be amiss about the importance of correctly labeling the varieties in order that after the plants are sold to customers and by them grown and flowered there will not be the disappointment and certain loss ensuing from plants incorrectly named.

As far as professional gardeners in charge of large private estates are concerned, dahlias have perhaps already reached the top-notch of popularity; and while the importance of that class as buyers is not questioned at all still I think dahlias are destined to spread out to far greater dimensions than the confines of the estates of the very wealthy. They will in years to come be the all popular flower for the million. I mean by that, dahlias will be cultivated by the million.

The cactus-flowered varieties are perhaps, the most beautiful and most interesting of the several types of dahlias, although I am not so sure that now they are on the whole considered the most useful from the florists' point of view. I rather think the florists find the latest developments in singles and decoratives of more utility than the cactus-flowered sorts, and that for several reasons, all of which are evident to any making extensive use of dahlias as cut flowers for decoration, principally because of their general superiority of qualification for effect in decorative work, in that they are also susceptible of a greater variety of arrangement and that they hold together longer than the cactus-flowered varieties. The latter, however, hold by far the greater fascinating power over the amateur and the man who grows for exhibition, as well as those of both classes who are so enthusiastic that they are all impatient from the time a new variety is announced until it is in bloom on their premises.

The standard varieties of all the types are already so well known that it seems useless again naming them. Herewith I list some of the best of recent introduction of the various types as well as a few others not so new because I think they may not be generally known.

Cactus Dahlias, Introduction of 1907.

- Aphrodite, a beautiful ivory-white with a tinge of pink; very narrow petals.
- Briantilla, clear brilliant lilac without shading.
- Daisy, yellow at the base and rosy pink at the extremity.
- Else, delicate yellow passing to amber, edged deep rose.
- Faunus, yellow shaded and tipped with salmon.
- Hazer Kind, lavender pink, one of the most profuse bloomers.
- Helene, cream yellow, center shading to a delicate pink.
- Ivanhoe, bright straw color, very long petals; good for exhibition.
- Mikado, blood red shaded scarlet, very narrow, pointed petals.
- Mrs. F. Grinstead, rich crimson with a tinge of crimson; very good.
- Mrs. H. Shoesmith, white; the best of the lot for exhibition.
- Mrs. Gaskill, pink, delicate and beautiful; good form and large size.
- Primrose, primrose yellow; large, very good.
- Roland von Berlin, scarlet; good stem color of foliage.
- Star von Berlin, orange, yellow, good stems.
- Stern, the finest yellow in cultivation.
- The Pilot, the tips are bright terra cotta, base yellow; excellent.
- Venus, deep apricot; fine exhibition variety.
- Victorian, pinkish white speckled with crimson and purple.
- William Marshall, orange with yellow center; very large.

Standard Varieties of Cactus Dahlias.

Aurora, the finest dahlia in cultivation, cream colored center shading to amber pink to white tips; Standardbearer, scarlet; Ella Kraemer, clear rosy pink; Walker, yellow; Fairy, white, very good; Winsome, white; Harbor Light, orange red; Lord Roberts, white; Schneewitchen, one of the best whites offered; Charm, yellow base white tips and edges; Gaillard, crimson; Thunelda, rose-pink; Dainty, lemon yellow; Florence M. Stredwick, pure white, very good; Alpha, white striped purple and lilac; Amos Perry, bright scarlet, very free; Britannic, salmon; Clara G. Stredwick, bright salmon, very good; Keynes, white; Countess of Lonsdale, salmon red; Etna, lilac shaded violet; Alfred Vasey, pink; Jealousy, deep yellow; Romeo, maroon; Kriemhilde, pink white center; Rosine, crimson with purple shading; Lovely Eynsford, deep amber; Floradora, blood red; Magnificent, rose salmon; Capstan, orange scarlet, shaded apricot; Phineas, bright scarlet, large and fine; Flamingo, bright red; Spatters Queen, pure white; Victor von Scheffel, somewhat like Kriemhilde but better.

Decorative Dahlias.

Catherine Duer, brilliant scarlet, one of the best for florists and gardeners; C. W. Bruton, bright yellow; Delice, light pink, excellent for cutting; Dolly, pink and white; Mrs. Winters, pure white; Mrs. Charles Turner, yellow very fine; Jeanne Charmet, white splashed with deep violet red and

edged with lilac; Oban, lavender, good; Lyndhurst, bright scarlet; Maid of Kent, cardinal red; Nymphæa, clear pink, one of the best dahlias for florists; Henry Patrick, pure white.

Single Dahlias.

Blush Century, white and blush; Gorgeous, scarlet tipped with white; Iris, light ground blotched with white, very large; Pink Century, one of the best; Twentieth Century, rosy crimson shading to white; The Fairy, rosy pink, good for cutting; Wild-fire, orange scarlet; White Century, pure white; Imperialino, the best single dahlia in cultivation, a distinct improvement on Twentieth Century, very fine for cutting.

D. M.

Nephrolepis Todeaoides.

Editor Florists' Exchange:

Under separate cover I send you a photograph of the new Nephrolepis todeaoides, which has originated with Thomas Rochford & Sons, of Broxbourne, England, and received a first-class certificate last year from the Royal Horticultural Society. Although you already have a number of variations from the type, this one is quite distinct from any nephrolepis shown on this side. It was exhibited with several of the latest American varieties. There is, however, an American sport named



Nephrolepis Todeaoides

Originators, T. Rochford & Sons

N. Amerpohlii which I have not seen, but I hear it is an improvement on all existing varieties.

I have seen N. todeaoides growing, and it shows its true dense character in small plants, which is compact, robust, and makes it valuable as a commercial variety. I hear that Messrs. H. A. Dreer of Philadelphia will carry quite a stock of this plant for distribution your side.

A. DIMMOCK.

London, Eng.

Express Rates on Nursery Stock.

When in New York recently attending the meeting of the Association of Economic Entomologists, says the National Nurseryman, President Harrison, of the American Association of Nurserymen with E. Albertson called upon the traffic manager of the American Express Company to discuss the general subject of express rates in reference to nursery stock. They were courteously received by H. Bradley who expressed himself as being most anxious to meet the nurserymen on satisfactory terms and to do what he could in the way of removing real or fancied difficulties. At the request of Messrs. Harrison and Albertson, Mr. Bradley presents the following on the matter of express rates:

What these gentlemen wanted particularly, says Mr. Bradley, was the correct express classification of shipments of nursery stock, which information I gave them, and for the benefit of nursery stock shippers I will repeat the information to you.

On small packages, charges prepaid, value declared not to exceed \$10, our rate is one cent for each two ounces, or fraction thereof, with a min-

imum charge of ten cents for each company carrying, on the following named articles:

- Bulbs, Plants, not growing, completely enclosed,
- Cuttings, Roots, for planting,
- Decorative Greens, Scions,
- Grain Samples, Seeds,
- Holly, Smilax,
- Mistletoe, Tubers,
- Onion Sets,

On heavier shipments, we charge what is known as our "General Special" rate, on the following named nursery stock items:

- *Branches of Pepper Trees, *Holly,
- *Bulbs and Cuttings, *Mistletoe,
- Cape Jessamines, *Moss,
- Celery or Celery Plants, *Roots,
- Cactus, *Scions,
- *Cuttings, *Smilax,
- *Decorative Greens, *Tubers,
- *Ferns, cut, Vegetables,
- Fertilizer, Water Cress,
- Fruit,

Note—Articles indicated thus (*) are not subject to general special rates unless "completely boxed and packed so that they may be handled without extra care, prepaid or guaranteed."

When completely enclosed in baskets and so packed that they may be stowed with other freight, merchandise, pound rates, minimum 35 cents, unless the graduate charge is less.

PLANTS—Our Classification of plants is as follows:

PLANTS, N. O. S., prepaid or guaranteed, . . . D. Mds. Sec. D.

Growing in pots or other receptacles, crated, and so packed that they may be stowed with other freight and may be handled without extra care, and without injury to the plants. . . . G. S.

Growing in pots or other receptacles, completely boxed or enclosed in baskets must be Refused.

Not growing in pots or other receptacles, completely boxed or crated, and so packed that they may be stowed with other freight and may be handled without extra care and without injury to the plants. . . . G. S., Sec. D.

Not growing in pots or other receptacles, completely enclosed in baskets, and so packed that they may be stowed with other freight, and may be handled without extra care and without injury to the plants, pound rates, minimum 35 cents. . . . Mds., Sec. D.

SEEDS—In boxes or cloth bags, or otherwise securely packed for transportation, prepaid or guaranteed, G. S.

SHRUBS AND TREES—For setting, when boxed or baled and strawed, prepaid or guaranteed, . . . G. S.

Now, in explanation of our general special rate. This is what is known as "Scale 'N'" of the classification and is a little more than 20 per cent. reduction from merchandise rates. For example:

Where M'dise	Gen'l Spec'l	Where M'dise	Gen'l Spec'l
Rate is	Rate is	Rate is	Rate is
\$.50	.40	\$3.00	\$2.25
.60	.50	3.50	2.50
.75	.60	4.00	2.90
1.00	.80	4.50	3.00
1.25	1.00	5.00	3.40
1.50	1.20	6.00	4.00
2.00	1.50	7.00	4.75
2.50	1.90	8.00	5.50

It will be seen from the above that the reduction ranges, for short distance rates, from 20 per cent. up to 33-1-3 per cent., for long distance rates.

From what the gentlemen named stated to me, and also from your letter, it would appear that nurserymen have gleaned the impression that we have increased or changed our rates or classification in filing them with the Interstate Commerce Commission. In reply, I beg to say that we have not made any change. The rates and classification as above referred to have been in effect for a number of years, except that we recently added smilax and decorative green to the list of articles enumerated under the head of general specials in classification.

J. H. BRADLEY,

Gen'l Traffic Manager, American Express Co. New York.

Residue from Acetylene Gas.

Inquiries are frequently made as to the commercial value of the lime compounds left behind in the generators in which acetylene gas is prepared by acting upon calcium carbide with water. Analysis of a sample of such residue has been made by Messrs. F. B. Guthrie and A. A. Ramsay, who give the following results in a recent number of the Agricultural Gazette of New South Wales:—

	Per cent.
Moisture	41.36
Combined water, carbonic acid and organic matter	15.37
Insoluble matter	1.03
Oxides of iron and alumina	5.41
Lime	35.19
Magnesia	0.24

There are small quantities of sulphur-compounds (sulphides) present. With the exception of these, which are present in quantities too small to be harmful, there are no deleterious substances present.

The value of this product is due entirely to the lime it contains, other plant-foods, such as nitrogen, potash, and phosphates, being absent. The lime is present either as slaked lime (in fresh samples) or carbonate of lime (mild lime), in samples which have been exposed to the air. It should prove an effective and cheap dressing for all purposes for which liming is recommended, and should be of special value on soils which are sour and deficient in lime or inclined to be stiff, and as a top dressing for pastures.

FOR THE RETAILER

EASTER SUGGESTIONS.

Only one more week is left in which to prepare for the Easter rush. The opinion is general that flowering plants, especially lilies, will be scarce; but as this rumor is repeated each season there is no great alarm expressed by the buyers, as there are usually enough lilies and to spare.

Pot Covers.

The covering of pots has become a necessity and bare pots are no longer tolerated. Much thought is expended in getting up new ideas for this purpose. Crepe paper has had its day, but the improved product, waterproof crepe paper, is still used extensively, and makes a cheap and effective covering. Wood ribbon mats are also very handy, and have the advantage of being more durable. Those made of the wider material are preferable, and have a handsomer appearance. Very little is being offered that is really new. Among the materials shown is raffia, which is light and cheap, and in its natural coloring does not detract from the plant—something that should always be the first consideration. Light colors, or dark green are safest, although white is the favorite for the Easter season. And you can never make any mistake in using it.

A distinct breakaway from the conventional pot cover is shown in the accompanying photographs. The square idea is entirely new. The material used is birch bark, which seems to adapt itself perfectly to any combination of colors. These boxes, or pot covers, are substantially made and can be used to plant in, the same as metal linings, without the additional cost. They are practically waterproof, but a good-sized saucer can be placed within, if occasion requires.

The chief endeavor of the basket makers has always been to conform the shape of their wares to the lines of the pot. This may or may not have been necessary, but I believe the square pot covers in all materials have a future, and they certainly have a style and dignity worth considering.

Made-Up Holiday Baskets.

There is always a good demand for made-up baskets, and with the great variety of material on hand at this season, some very attractive combinations are to be obtained. Lilies, of course, are most eagerly bought by our customers, and should be introduced whenever practicable. They look well with anything, but good bright combinations sell best. Mixtures, however, should be avoided and great care taken as to the shade of ribbon employed.

The Crimson Rambler roses or the Baby Rambler go particularly well with lilies and form a striking contrast. The bottom should be filled in with Adiantum Farleyense or mixed ferns. Azalea mollis also makes a handsome basket and looks especially well with lilac.

The demand for very large pieces seems to have fallen off, but good prices are obtained for the smaller and neater combinations. Lily of the valley, and the pretty little Firefly azalea, with two or three plants of A. Farleyense, look well together. A basket of imansophyllum, with its unique orange-colored flowers, makes a splendid showing. The ribbon used should be "burnt orange."

Orchids also have a prominent place in the better stores, and are highly appreciated as Easter gifts, giving tone to an Easter display. Oncidium sarcodes, with its pretty yellow sprays, can be had at this season, and Dendrobium Wardianum, Cattleya Schrederae, C. Trianae, and several others. They are best sold as individual plants, and are most attractive on their own blocks, or in cribs. Customers are attracted by their unique appearance.

Gardenia plants are also offered for Easter and some of them are very well flowered.

Some very fine plants of Princess of Wales violets are seen this Easter, which, I believe, is a novelty. Violet plants, nicely done up, make excellent small gifts, and sell at a good profit.

Church Decorations.

Church decorations have a prominent place in the Easter trade and comprise a goodly portion of the business. White is most generally used, and exclusively so in most churches. Lilies in pots, white azaleas, lilac, deutzia and spiraea are all useful. Pot plants are preferable for church decorations at this season, as they usually have to stay two or three days and can be watered in place.

A good solid background of palms is necessary where white is employed, otherwise the flowers will be lost. A much better effect is obtained by grouping the flowering plants than by scattering them here and there; and it is well to remember that anything lower than six feet is usually lost, as it cannot be seen from the body of the church. Advantage should be taken of the more prominent features of the chancel. The pulpit and lectern should be especially well done. A



New Hybrid Rhododendron
Courtesy The "Rosary" Flower Co., New York.

handsome feature for the altar would be a large standing cross of lilies. Little is done with the body of the church for Easter; but wild smilax can be used to advantage, on the pillars, and in front of the choir stalls.

A Handsome Casket Cover.

A casket cover made of violets, constructed by a prominent florist this week, attracted much attention. The top was covered entirely with violets, and a large cross of lily of the valley, the full length of the casket. The side pieces were made solid with violets, but the manner of their construction was entirely new.



New White Lilac
Courtesy The "Rosary" Flower Co., New York.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words: each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unexcelled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

OUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

They measured twelve inches at their greatest depth and tapered toward each end of the casket. Attached to this was a fringe of violets encircling the entire cover. The effect of the fringe of violets was particularly graceful, doing away with the set appearance of the old style casket cover. D. RAYBUN.

ELBERON (N. J.) HORTICULTURAL SOCIETY.—The regular meeting of the society was held on March 4, Vice-President Henry Wood in the chair. Three new members were elected. The schedule of the Second Annual Summer show, which will be held on July 24 and 25, was drawn up and adopted.

Some fine exhibits were staged, notable among which were a vase of stock, Queen Alexandra, shown by A. Bauer; vases of tulips, Belle Alliance and Proserpine, shown by J. Kennedy; vase of violets, Marie Louise, by A. Greile; vase of violet, La France, by F. Dettlinger; cauliflower and lettuce, by P. Murray, and carnations, by W. Swain.

A delegation of the society visited the establishment of F. R. Pierson Company, Tarrytown, the other week. W. F. Ross, representing Mr. Pierson, met the company in New York. Arriving in Tarrytown, they were conducted to the Florence Hotel, where an excellent repast was waiting for them. After satisfying the inner man, the party was conducted through the Tarrytown establishment, after which they enjoyed a sleigh ride to Scarborough. The carnation houses were a sight worth seeing. Carnations were seen in every stage of growth, from the cuttings in the benches, to the flowering plants. The house of Winsor was certainly very fine. This variety, I believe, is the best carnation introduced in recent years. White Enchantress was also good, and Beacon as a scarlet will be hard to beat. A very enjoyable and profitable day was spent by all.

GEORGE MASSON.

Notes on the Iris.

By J. Woodward Manning before the Massachusetts Horticultural Society.

While the genera of Iris are confined almost exclusively to the Northern Hemisphere, ranging from the Atlas Mountains in Northern Africa to a latitude of about 40 degrees north, the Iris family is closely represented in the tropics by the moreas and maricas similar in effect, but botanically distinct; while crocuses, gladioli, freesias, tigridias and ixia are familiar genera and serve to represent the family in all parts of the temperate and tropic world.

The iris, or as popularly known the fleur-de-lis, rainbow-flower or poor man's orchid, etc., has more than 170 described pure species, of which about 100 have been cultivated at times by American horticulturists while somewhat more than 150 species are grown by English iris fanciers among which, however, a portion fail to combine sufficient distinction, beauty or ease of cultivation to warrant their extended use. While, however, perhaps less than a hundred species are to be recommended for cultivation in American or particularly New England gardens, this is but a fraction of the number of varieties which by selection or cross-fertilization have been produced and contribute most advantageously to garden ornamentation.

The question of the best species, their peculiar requirements, if any, their ornamental and color effect, their better varieties and season of bloom are matters of interest to the New England flower lover, because there is much of neglected beauty in the class from lack of this knowledge and danger of disappointment from a misunderstanding of the limitations in color range. It is possible, too, to very materially extend the period of bloom as compared with the usual results attained.

Such irises as figure in horticultural uses are divided into two classes, those of bulbous nature and those with rhizomes, the latter varying in this character from the conspicuous surface rhizomes of the very familiar Ger-

man iris to very narrow, inconspicuous, subterranean types of rhizomes in which the roots are the more conspicuous.

Both English and Spanish iris are of easy garden culture, planted in Autumn, the English Iris requiring the greater moisture of the two, the bulbs being planted at a depth of from three to five inches while a mulch is an advantage. There are a few other species of tall growing bulbous irises, such as Iris Juncea and the rare Boissieri, but they probably are seldom imported and do not compare horticulturally with the selected varieties of the last two species.

The dwarf bulbous species are most familiarly represented by the Iris reticulata, a native of Palestine, varying somewhat in type but gorgeous in coloring with its brilliant shadowings of purple and gold and a delicious violet fragrance. Flowering as it does naturally in March our climatic conditions require its cultivation in frames to protect the flowers from staining by dampness, though it is hardy and can be used very advantageously in rockeries or in protected, sunny situations within easy access to the house. The Armenian Iris Bakeriana is even earlier, but less showy, though of rich markings of purple and orange in connection with its general blue tone. I. Vartiana is another species from Asia Minor, but more difficult to manage than the others and more tender.

Another class of bulbous species are known under the name of Juno irises, natives of the Caucasus, Afghanistan and Northern India. They are comparatively large bulbs and require well drained situations and a thorough sun baking in Summer to insure their continuance and future flowering. They have generally leafy stems with several flowers closely set to the stalk and combine all the ranges of colorings in the family. They closely follow the last group in their flowering period, but their inadaptability for cutting and the peculiar cultural conditions they demand without particular increase in their color range fails to promise much

ably more easily cultivated, but of even greater importance is the fact that they hybridize freely with the Onocycylus group and the progeny are comparatively easily cultivated, increase rapidly and are of prolific blooming quality. Mr. C. G. van Tubergen, Jr., of Haarlem, Holland, has been largely responsible for this group of so-called Regelio-Cyclus irises, obtaining them by crossing Iris Korolkowii and its varieties; I. Leichdini, I. Sara and I. Suwarowi with various species of the Onocycylus group. Such resulting progeny as Psyche, lavender beautifully striped with rich purple with darker toned falls, Charon, rich coppery purple with deep purple markings and Iphigenia, intermediate in its color range, show something of the result, while the shape of the flowers is a happy medium between the two groups.

Probably this group has not been extensively cultivated in this country as yet and we will look forward with deep interest to the results.

We now arrive at a point where it is impossible to make a distinct horticultural line between classes based on botanical classification, but by dividing the remaining classes and groups into those with and without surface rhizomes it is possible to make a form of subdivision.

The German Irises

The surface rhizome forms are more popularly known as German irises, though the true Iris germanica is but one of many species. The dwarf forms are greatly neglected, being but seldom seen in American gardens, yet possessing great merit in their range of bloom and the earliness of flowering period. Iris pumila is better known than the other species and growing about nine inches high bears in April showy flowers of deep purple in profusion. As an edging plant it has much merit and there are various selected varieties ranging from pearly white, through clear blues to the deeper colored typical form. Iris pumila is certainly worthy of far greater use than has been the case in the past. I. verna, another dwarf species from the Carolinas, is equally dwarf, quite prolific in bloom with purple shades and blooms about the same time. This does not show the improvement and fixed forms, however, that is true with the last species. The gem among dwarf irises, however, is the crested Iris cristata, only growing about six inches high with light green foliage. It forms a carpet of verdure and bears freely of light blue flowers beautifully blotched with golden yellow. I know no form of dwarf iris with as great adaptability of uses as this either for naturalizing or for varied garden usage.

Commonly confounded with Iris pumila is a form with flowers borne singly on the stalk, somewhat broader leaves. This is Iris chamæiris, or its variety obiensis or talaca. The type bears yellow flowers with the falls veined with purple.

Another small and showy dwarf species known as Iris flavissima or Bloudovii, a native of Siberia, bears showy pure yellow flowers. While there are a number of other dwarf species they have no particular horticultural merit over these.

The Alpine Group.

Intermediate between these dwarf iris and the taller growing German iris has appeared a new race within a few years under the name of Alpine iris, these being produced by W. J. Caparne of Rohais, Guernsey. These are the result of crossing many of the dwarf species with taller growing kinds; the progeny vary in stature and are claimed to give flowers over a period of six to nine months. Probably, however, this refers to a collection of the hybrids rather than any single variety. Undoubtedly they have much interest, and trial will eventually prove such merit and distinction as they may possess.

For perfect hardihood, freedom of bloom and range of color we can with the dwarf and taller growing German irises feel quite independent of the more difficult forms, however. The German iris, as popularly known, varies in growth in the varied forms from fifteen to forty inches. The earlier varieties commence blooming in early May, and by a careful selection of kinds it is possible to keep up a succession of flowers until late June.

Many species are responsible for the beauty of the class, and their crossing and selection have confused their origin. Iris variegata shows its influence in the prevailing yellow color of the standards of the following varieties with the rather remarkable exception of Innocenza, a very fine form, pure white throughout. Other popular and good named kinds are Beaconsfield, standards yellow, falls crimson, edged with primrose; Græculus, standards yellow, falls crimson reticulated with white, Maori King, standards yellow; falls rich velvety crimson margined with gold. Sans Souci, standards yellow, falls yellow, reticulated with crimson brown; and Regina, standards yellow, falls white, conspicuously veined lilac and edged with primrose yellow.

Iris sambucina crossed with I. pallida has given us the very beautiful variety Madame Chereau, while the cross between variegata and sambucina produces Iris neglecta by selection from which we have Clarissima with lavender standards and falls reticulated with crimson purple on a white ground; Cythere, standards lavender blue, fall clear blue; Florence Barr, with both falls and standards bluish, with rosy lilac tinge, and Mons de Sible, with lilac standards and deep crimson purple falls.

Some beautiful forms are embraced under the doubtful species hybrida, all with white standards, of which Due de Nemours, with purple edged white falls; George Thorbeck, falls rich violet purple veined with white at base; Mrs. George Darwin, falls white, the upper part veined with gold and violet, are among the best.

The species Iris germanica is undoubtedly more common than any other type, particularly in the older gardens. In this purple is the predominant color,



Scene in the Valais, Switzerland; Home of the Alpine Iris. Alpine Hybrids in the Foreground

From Painting by W. J. Caparne, Guernsey, C. I.

man iris to very narrow, inconspicuous, subterranean types of rhizomes in which the roots are the more conspicuous.

Bulbous Irises.

The bulbous irises are most familiarly known by the English and Spanish types, both of which have been very greatly improved by selection. The English iris (Iris xiphoides,) growing to a height of a foot and a half to two feet, bears two or three flowers to a stalk and varies in color from the purest white form of Mont Blanc through shades of lavender, blue and purple, of which Lord Palmerston with deep rich crimson purple falls and purple-claret standards, is perhaps the best of the darker colored varieties. Many too are showily striped, flaked and blotched with shades of richer colors than the general tone of the flowers. The Spanish iris (Iris xiphium) has taller and more conspicuous standards than the last and the markings are more clearly defined on the falls than is the case with the English iris; possibly the improvement by selection has covered a longer period with the Spanish iris. In any event such a variety as the Thunderbolt is very noteworthy in its large comparative size of flower and grows two feet or more high. The flowers are richly colored in bronze with a remarkably broad signal patch of yellow on each of the falls. The better varieties

for their culture in American gardens except to the fancier. Of them I. Rosenbachiana, Sindjarensis and Assyrica are perhaps the best.

Rhizomatous Irises.

Of rhizomatous irises the hugar bear class is that of the Onocycylus group, generally known as cushion irises. The most familiar species is the Mourning iris or Iris Susiana. All have very broad petals, and among them are the most remarkable forms in coloring. Many of the flowers are most delicately veined and reticulated generally with a darker color on a light background, and were they of easier growth they could not fail to be popular in every garden. They are from Persia, Armenia and Afghanistan and naturally require hard sun baking after their short blooming season. They can hardly be called hardy, and in any event require such special cultural attention that they cannot be recommended. The wonderfully full flowers with their peculiar markings such as shown in I. paradoxa, Iberica and the so-called (Prince of Irises), I. Gatesi makes them particularly interesting and tantalizing.

The Regelia Section.

Closely allied to the Onocycylus group is another popularly known as the Regelia section in which the petals are narrower and the plants are hardier and consider-

St. Paul.

News Items.

Considerable activity is shown by some of the Minneapolis florists in the Chicago flower show for 1908. Already a number of our dealers have signified their willingness to make liberal contributions, and from the report of the solicitors, the Twin Cities will be well to the front in boosting the show not only in cash contributions but also in attendance.

Ralph Latham and Osear Carlson of Minneapolis were in town Friday last, visiting all of the trade.

The Seegar greenhouses, according to report, have been sold to two young florists of this city, but it has proved impossible to get the names of the buyers. The plant has been allowed to run down considerably, and a great many repairs will be necessary before the houses can be used. Mrs. Seegar is now employed by a Chicago concern.

L. L. May & Company's Easter stock looks indeed promising; they estimate having between four and five thousand lilies in bloom. They also have large assortment of some of the finest azaleas they have ever put on the market.

Otto Hieserkorn has placed the large florists refrigerator of the Seegar Floral Company in his store and it will be sold at auction by the receiver within the next two weeks.

Mrs. Colberg, wife of Gus Colberg of the firm of Colberg & Lemke, has been in the hospital for the past two weeks, having undergone an operation which turned out successful and she is now rapidly improving. PAUL.

Rochester, N. Y.

Trade Notes.

Business the past two weeks has been very good. This, no doubt, is due to the increased demand made for products by the Spring openings in the different stores, also the formal opening of the new department store, the event calling for the decoration of the entire seven story building, by J. B. Keller's Sons, the firm using palms, ferns, araucarias, etc., also thousands of bulbous flowers, and 500 American Beauty roses.

Reports from the local growers are very satisfactory, except perhaps in the matter of Easter lilies. In going through the different greenhouses, visitors do not have to look long to find out that in this town at least, a decided shortage will occur, especially among those upon whom the retail men depend for a regular supply. Salesmen, too, traveling for outside firms, and who perhaps are in a position to know, report similar conditions existing in a great many towns. The scarcity of this useful flower will have a tendency to advance the price to 15c. and 20c. per bud or flower for well grown stock, and this, considering the quantity of diseased bulbs thrown away, and the extra amount of heat and attention owing to such a small amount of available sunlight this year, growers feel to be none too high. Carnations and roses have held their own, in spite of the increased supply, George Hart having wholesaled more the past week than at any period to his knowledge, season considered.

Prices have now taken somewhat of a drop, \$1.50 to \$2.50 for standard grades of carnations, while for roses, quality and stem determine the price. Pans of daffodils have found a ready sale; an 8-inch pan of bulbs in full flower, being most desirable, retailing at from \$1 to \$2 each, especially if fixed up tastily with ribbons and paper, etc.

In spite of the approach of Easter, violets are holding their own, at fairly good figures, and in this line the Greeks are a factor, as they usually clean up what is left on Saturday.

The mail order trade of the various seed houses has commenced in good earnest, although operations in the open are still out of the question owing to much frost being still in the ground.

Jas. Vick's Sons have closed the deal, thereby leasing property for a number of years consisting of 90 acres. Preparation is now going on for the planting of 30 acres to asters, for which this firm is noted, also for the erection of some greenhouses, to be able to meet its increasing business in mail order trade. COCKNEY.

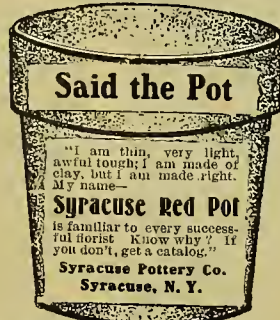


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THE ORIGINAL AND GENUINE
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STRONGEST AND MOST UNIFORM

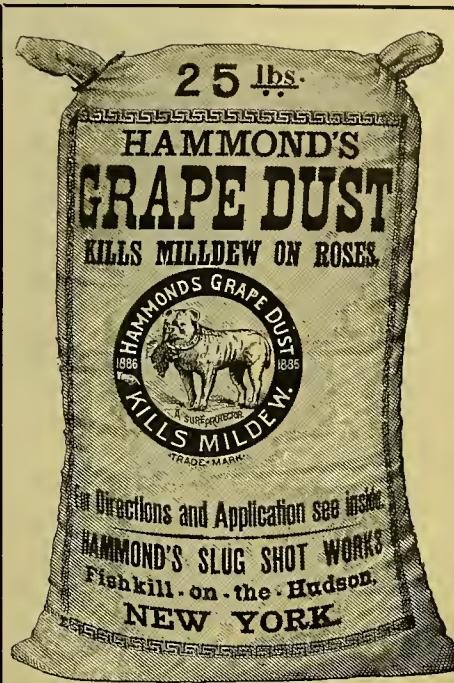
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NIKOTEEN
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PRICE \$1.50 PER PINT BOTTLE. \$13.00 PER CASE OF 10 PINT BOTTLES.

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ROBERT SIMPSON
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Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

GEORGE RIPPERGER,
LONG ISLAND CITY N. Y.

and of which Purple King and Black Prince are the best representatives.

Iris Florentina, the orris root of commerce, is one of the most popular, and very deservedly so, for over a hundred years it has occupied a conspicuous position in every large New England garden and during the period has lost none of its popularity. Free blooming, with flowers of pearly whiteness, it annually leads the way to the charms of the early Summer garden flowers. There are three forms, the common type just described, the variety albicans, of a purer white, and Princess of Wales, even more floriferous, with slightly longer flowers and the most deliciously fragrant of any German iris.

The crowning beauty of all German irises is traceable to the blood of *Iris pallida*, the broadest leaved of all, with sword-like foliage often attaining a height of two and one-half feet and an inch and a half across the blade; the flowers borne on long stems bearing these flowers well above the foliage, altogether producing a most charming effect. The variety Dalmatica, or sometimes known as Princess Beatrice and occasionally in this country as Madam Almyra, is the finest, with immense flowers of a rich lavender blue and with a charming though subtle fragrance. Delicata is of weaker growth, with falls lavender, shading to white and French gray standards. Hybridizing has not improved this species, as seen in the variety Queen of May, which, while beautiful, with its soft, rosy lilac, almost pink flowers, is a comparatively weak grower, though floriferous. The beautiful cross of the species with *Iris sambucina* shown in the variety Madame Chereau is an exception, however, and this is a most delightful flower, with its pure white petals richly feathered with lilac.

The varieties of German iris mentioned are but a fraction of those that can be purchased from horticultural sources; they represent, however, the best, and among them are varieties far advanced in horticultural merit over many of the more common varieties seen. Of clear yellow German irises we have two species, flavescens and aurea; both are good, the former attaining a height of three feet, with lemon yellow flowers, and the latter of dwarfer growth, with rich golden yellow flowers.

All of these irises with surface rhizomes are of the easiest cultivation, thriving in ordinary garden soils, requiring subdivision and replanting in re-enriched soils as their clumps become large or the soil becomes exhausted. This replanting should be done as soon as the foliage shows signs of ripening and must not be delayed so long that they may not become thoroughly re-established in the soil before Winter. In planting it is better not to sink the rhizomes over an inch below the surface unless the situation is naturally a very dry one. As the plants become established, the rhizome soon assumes its proper elevation. Until of late few diseases troubled this class. Unfortunately, however, a seemingly microbe rot is found to affect the roots so that the foliage becomes detached from the rhizome. The disease is little understood and no remedy has been proved effective, though it is quite possible that over richness of soil may serve to foster the disease.

Jacob's Sword.

The Jacob's sword (*Iris pseudacorus*) occupies an intermediate position. Never being classed as a German iris it is a beautiful plant to associate along water courses and yet will thrive admirably in ordinary garden soils; with ample dark green foliage, it makes a vigorous and healthy clump and bears abundantly of rich golden yellow flowers with a conspicuous orange zone on the base of the falls. Two types are common, one with narrower petals than the other. The Gladwin, or Roast-Beef plant (*Iris foetidissima*), while pale blue in its typical form, in its variety citrina is of a clear yellow, but the main interest in this centers in the ornamental effect of the bursting seedpods within which fleshy bright orange-colored seed show to advantage.

Siberian and Japanese Classes.

Those irises with so-called tufted roots are represented familiarly by the Siberian and Japanese classes. The Siberian has a number of distinct forms of which the type forms a tall leafy plant four to five feet high with many flowering stems bearing from three to five flowers to a stem, and with dark blue coloring marked with white pencillings. The two most useful forms, however, are the pure white variety which grows about two feet high, bearing purest white flowers in small clusters, an admirable plant for any flower border, and the variety orientalis, with broad, short foliage, growing to a height of eighteen inches and bearing with wonderful profusion flowers of the richest blue with faint white throat markings. There is no better true blue in the iris family than this. It, too, is one of the few irises which will bloom a second time, though sparingly it is true, by cutting down after the flowering period. This can hardly be recommended, however. No iris reproduces itself any faster than this. It quickly forms broad colonies and necessarily requires frequent division and transplanting.

Japanese irises comprise perhaps the par excellence of the family; they are much misunderstood and require more judgment in their cultivation than do German irises. If planted in situations where water will not collect about the crowns in Winter, they are perfectly hardy. To flood them at the flowering period is an advantage, not a necessity. This need is nearly as fully met by thorough mulching to retain all possible soil moisture during the flowering period and with artificial watering is far safer than to plant in a moist situation. It is a false impression that the Japanese plant them where they are subject to excesses of moisture in Winter. During this period the Japanese iris fields are drained. All Japanese irises are seemingly improved and selected varieties, rather than hybrids. Their range of color is a very ample one, but has decided limita-



Spanish Iris (*I. Xiphium*)

Photo by John F. Johnston

tions. Aside from the variety of self colors and their combinations in flaking and veining, together with the single and semi-double forms, nothing can be expected. A dozen distinct sorts represent the class far better than a large collection of varieties whose distinction is more dependent on their labels than on any visual evidence of variety. Probably no class of plants have been more cruelly foisted on the public as new than these, by means of fanciful names in which Japanese terms have been used as indicative of new sorts.

It is highly improbable that any distinctive improvement of the class has resulted in comparison with the first sets of varieties shown in our halls twenty years ago. The following list is probably no better than others that could be named, but possesses distinction in the sorts quoted. Arthur Silbard, double, white,

shaded with violet; Blue Jay, single, clear blue, spotted with white; Calypso, double, lilac, richly veined with purple; Dagmar Georgeson, rich royal purple, single; Goliath, double, white, marked with violet; Emperor of Japan, double, velvety maroon; Goldbound, double, white, margined with gold; Painted Lady, single, white, veined with claret.

The wonderful size of the flowers of the Japanese iris, their late period of bloom, carrying on the flower effect to early August, renders the class indispensable to every flower garden. Their massing in groups of a single variety, rather than in promiscuous clashing of colors is, however, essential for the most artistic effects.

Our London Letter.

BY A. HEMSLEY.

The question I am most frequently asked both by growers and retail florists is, What is there fresh or new in the way of flowers? And in answer to this, after attending all the meetings of the Royal Horticultural Society during the past year, and many other shows, besides visiting the leading nurseries, I am unable to pick out any one very striking novelty that I could recommend for the ordinary florist's trade, except the carnations Britannia and Mrs. H. Burnett, to which I have previously referred.

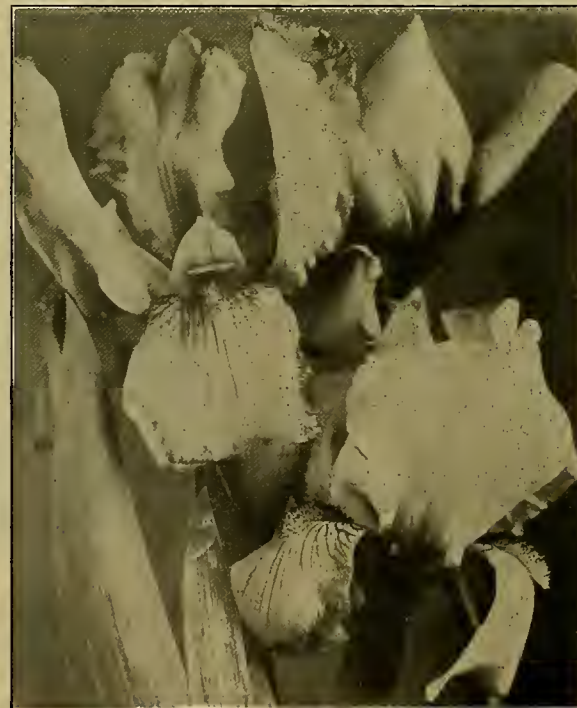
IN DAHLIAS we have had a good many new varieties submitted during the season, but I would not like to be responsible for saying that any very great advance has been made. The introduction of what are now termed the "pæony-flowered" varieties has been the greatest feature. Other sections have received some good additions, but to say that there were any startling novelties would be wrong.

FERNS.—Messrs. T. Rochford's *Nephrolepis to-dæoides* will bear further recommendation. I have seen many plants of it and they all sustain the character of being the best of any variety of the Pteris type that I have witnessed, but I find much depends upon how this as well as all the other *nephrolepis* are treated. Grown in hangers (or wire suspenders) close up to the glass, they make short, sturdy fronds. I was told by one grower that Pteris was of no use; yet at another nursery I found beautiful plants with short sturdy fronds. I took a plant home where it lasted well for fully four months in a room where there was gas, etc. But the plants grown in a moist and high temperature would not last many days.

I am rather disappointed to find that the true form of *Nephrolepis davallioides furcans* is being neglected. Properly grown, it is one of the best ferns we have. One year when I had a grand lot, every plant I could spare was sold to go to America. Here in England fashions change; setting them rests a good deal with the florists, and I find that most of these are now inclined to go in for the light, graceful plants, rather than the dense, bushy stock that has

had a long run. I have always condemned the practice of growing a number of ferns in the same pot to get a mass of foliage, and I find now that there are many who accept my ideas in regard to real beauty. It takes longer to make a really well-finished fern when growing from a single plant, but it is much prettier if properly grown. There may be some exceptions. Take the *davallias* when propagated from the rhizomes; it requires three or four to make a good pot. But with seedlings they branch out more freely and soon make well-furnished plants from single seedlings. I find here in England that the growers who do a limited number and finish them well do much better than those who over-crowd, and have very large quantities of second quality plants to send to market.

When I get on to ferns I don't know where to stop, but I have to be brief, and to finish I will refer to the *platyceriums*. I was given a plant of *P. alcicornne majus* some months ago and looking at it now it is in perfect health. I may add that everyone who has seen it has remarked on its novelty and beauty, for it is a really handsome plant. I have previously strongly recommended the staghorn ferns, but they have not yet made a start; yet I feel certain they will, and when their value is once known there will be nothing in the market that will sell better. Since ferns have been so extensively grown it has become difficult to say which may prove the most profitable, but we want those which are bold and effective without being too dense. At one time it was only dwarf, compact plants that were appreciated; now things are quite reversed—we must have those that are bold or imposing.



New Intermediate Iris, Having the Character of the Tall Summer Flowering Irises, but Blooming With the Early Dwarf Sorts

Courtesy of W. J. Caparne, Guernsey

American Rose Society

CONTINUATION OF PROCEEDINGS

President Simpson's Address Concluded.

At the 1906 meeting you will remember that much time was taken up discussing the desirability and practicability of establishing a permanent fund of considerable size for the uses of the Society; all agreed that it was desirable, but the meeting could not determine on any particular plan of action. We have to-day in America many men so enriched with this world's goods that their chief concern in life is to find the best way to spend their vast accumulation of wealth, that it may accomplish the greatest amount of good for the largest number of people.

Art, education, science, religion, humanitarianism, have each received their millions to aid in prosecuting the work of blessing mankind along their particular lines. It is a good thing to pay out \$100,000 for a fine painting and present it to a museum of art where it can be seen and admired, and furnish inspiration to thousands of people. It is noble to endow our institutions of learning so that our youth may have the privileges of higher education. It is still better to provide the means for caring for the sick, the suffering, the aged and the homeless, but it is a question if in establishing a fund of ample proportions out of which this Society might disseminate information and furnish the inspiration which would result in the beautifying of hundreds of thousands of homes all over our land, and bringing joy and brightness into the hearts and lives of still larger numbers of our people, the man of means would not be choosing the very best way, from an artistic, educational, humanitarian or sociological point of view investing the wealth which a kind Providence has placed in his hands and made him the steward and custodian. I am sufficiently optimistic to think that if a committee composed of the right men should take hold of this matter and present it properly to men of large means and philanthropic tendencies, that a fund could be established, permanent in character, the income of which only could be used by the Society.

Gentlemen, it rests with you to take such action on this and other matters as your combined wisdom may consider best.

I trust your stay in the City of Washington may be both pleasant and profitable.

Reception by President Roosevelt.

On Thursday afternoon, March 14, 1907, the delegates attending the Rose Society's meeting and exhibition, along with their ladies, visited the White House, and were there introduced to President Roosevelt. The party, which assembled in the East Room of the Executive Mansion, was in charge of George H. Brown, superintendent of the gardens and grounds of the Department of Agriculture, who introduced President Bisset of the Washington Florists' Club to Mr. Roosevelt, Mr. Bisset in turn introducing Robert Simpson, president of the American Rose Society, and Robert Craig, the first president of that organization. The society presented President Roosevelt with a vase of fifty Richmond roses, grown by Mr. Simpson, and winning the Hill Company's prize.

Mr. Craig in a few words explained to the President the objects of the society, stating that previous to its inauguration twelve years ago our new roses were mostly obtained from England, Ireland, Germany and France. He thought the President would be interested to know that the flowers now presented to him were of American origin and second to none. Mr. Roosevelt expressed himself charmed with the roses, and asked if any one from Richmond was present. E. G. Hill, the originator of the Richmond rose, was then introduced to Mr. Roosevelt, who commended him on his work as a rose hybridizer.

The President then made a short speech, expressing his appreciation of the work of the American florists. He believed in everything American, in science, art, sculpture, architecture, horticulture and agriculture. He was glad to meet the rose growers of America, especially the ladies. Each of the visitors then received a warm handshake from the Chief Executive

of the nation, thus bringing to a termination an epoch-making event in the history of horticultural organizations.

Second Session.

The second session of the society, held on Thursday afternoon, was opened by the reading of a paper by E. G. Hill on the subject of "Having an Ideal in the Hybridization of Roses." (See last week's issue, page 354.)

In the discussion Mr. Farenwald asked Mr. Hill how he got American Beauty to produce seed. He had tried it often but without success.

Mr. Hill: I think it is a very unsatisfactory method of procedure to take plants of American Beauty that are grown in benches for cross-fertilization purposes. The trouble is you cannot control the moisture in the bench. I do not think there is any particular difficulty in getting the American Beauty to seed, but it would be better to pollinize the plants grown in pots so that you can have perfect control of the water and the moisture in the pot. I find it is quite easy to get American Beauty and other roses to set seed when grown in pots. The trouble is to get them to ripen the seed. I think you would overcome the difficulty if you were to grow your mother plants of American Beauty in pots and keep them rather on the dry side.



Bloom of Rose Rhea Reid
Originators, E. G. Hill Company.

A. H. Langjahr stated that there was a plant of American Beauty now in seed in the Agricultural Department greenhouses.

Mr. Farenwald: Do you grow all your roses in pots for seed?

Mr. Hill: No, not all. I cross-fertilize a great many when they are growing in the bed, but after they have developed to a certain size—that is, the heps—I take them up and pot them, or else put them in a bench by themselves where we can control the water given.

Mr. Farenwald: I suppose it is better not to feed them too much?

Mr. Hill: I think it would be a mistake to feed them in any way. A rather poor soil is conducive to best results.

Mr. Craig complimented Mr. Hill on the work he was doing in the raising of new roses, and hoped that the results he was obtaining would stimulate younger men to experiment along this line. He eulogized the nature of the matter contained in Mr. Hill's paper, and believed it would be certain to take root somewhere. He then asked John Cook of Baltimore to say a few words regarding his experience in the line of securing new varieties of roses.

Mr. Cook stated that his experience agreed with that of Mr. Hill. In regard to American Beauty, it might be possible to get one out of a hundred to seed, for the simple reason that the pollen cannot get down to

the ovules. The cross-fertilization of the rose was a great study, and the mountain gets higher all the time as one ascends it.

Mr. Hill explained that crosses made from American Beauty almost always reproduce that variety entirely. He had obtained some very good seedlings from such crosses. He spoke of an instance where he had taken pollen from American Beauty that had been cut back. The results from these cut-back flowers were almost all red roses. He now had about 1100 seedlings made from that cross. Some one had told him that Hugh Dickson could only get about three seedlings out of every 1000 that were worth putting on the market, and that was about the percentage generally.

Mr. Farenwald stated that he had used pollen from a red variety on the American Beauty, which had seeded, but it had scarcely more than one or two seeds to the hep. Mr. Hill stated that this was on account of the imperfect organs of that variety.

Mr. O'Mara: What would be the average number of seeds obtained in one hep?

Mr. Hill: It would vary very greatly with the variety. For instance, in General Jacqueminot crosses you can get all the way from 28 perfect seeds; with other varieties it would run about 9. You take the varieties of the type raised by Pernet, and they rarely ever produce more than two or three seeds.

Mr. O'Mara: Supposing you crossed two red roses and obtained 10 plants raised from that cross, is there any stated percentage of different colors? We know that in crossing carnations and obtaining six or eight seedlings, no two may be alike, and yet the original cross may be of the same color. Is there the same variation in crossing roses?

Mr. Hill: My experience with roses is that they follow the color line more than either carnations or chrysanthemums. I have several thousands of crosses of red roses, and have never got a radical variation from the color; but, of course, the likelihood is that there are no two seedlings just alike in color. This statement was corroborated by Alex. Montgomery, Jr. He stated that there were certain sorts that seem to produce new varieties more readily than others, but the difficulty was to get a rose that was better than any that was now on the market. The scarcity of new varieties of roses was not at all due to the lack of enthusiasm on the part of hybridizers.

Wm. C. Barry, who had just entered the room, stated that he was interested more in hardy roses, and would particularly direct the American Rose Society's attention to that class. He would suggest that rose growers endeavor to get something hardier than the rososa family. He spoke of the good qualities of Conrad Myer, a rose that had become very popular, as also of the New Century and Mercedes; and referred at length to the progress that had been made with the Wichuriana type of rose in America.

Robert Craig: I am glad Mr. Barry has called attention to the work to be done in the line of obtaining hardy roses. Most of the members of the American Rose Society are identified with forcing roses under glass. We are very apt to forget the aspect of the matter that Mr. Barry has brought out. I think the American Rose Society will never reach its full purpose until it does a work that will interest the most of the people—those who have no greenhouses, but who like to grow roses in the garden, on porches, fences and verandas. Mr. Craig then spoke of the work of Mr. Walsh of Woods Hole, Mass., who has brought out roses that have electrified the people on the other side of the water, especially mentioning Lady Gay, which had received the gold medal of the National Rose Society of England, whereas in America that particular variety had received no award at all. The matter was not overlooked intentionally, but, of course, such things are apt to happen. He believed it would be better for the American Rose Society to take more interest in new varieties that have possible merit. No plant or flower having merit should be exhibited before the Rose Society without having due consideration and a report made upon it. This was necessary in order to stimulate the men who are engaged in that line of work, for if no notice is taken of their endeavor they are apt to become discouraged, and the society loses enthusiastic members.

Mr. O'Mara: One of the points brought out by Mr. Hill's paper was with reference to what the Carnegie Institute might have done had it offered prizes for new roses. My information is that the Carnegie Institute only gives a subvention for scientific purposes. One gentleman is receiving a very large subvention for scientific purposes. It is well-known that there are men in this room who think we have many in our own membership who are quite as scientific as that gentleman—at least judging by results. I know that an application was made by one man who has quite a reputation in the growing of new roses and other new plants, but his application for a subvention has been hung up three or four years in succession, al-

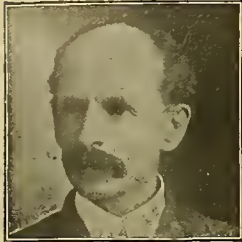
(Continued on page 417)

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Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
Boxwood, No. 1 Stock, 50 lb. cases, \$8.50
Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
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Southern Smilax, fancy stock, 50 lb. cases \$5.50
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Notes from New Hampshire.

LACONIA.—The leading florist of this city is going out of business. Since the death of S. P. Don about two years ago, Mrs. Don has carried on the business assisted by her daughter, Mrs. F. A. Clough. It is Mrs. Don's intention at the close of the Spring trade to tear down the houses and close up her florist's business entirely.

DOVER.—A very peculiarly constructed plant is that of C. L. Howe, built on a very steep hill side. There are ten houses covering about 40,000 feet of glass. Among outside florists Mr. Howe has a reputation for producing fine stock and a visit to his houses only strengthens this record. Everything is kept up in a first-class manner. Mr. Howe grows general stock, hence no special mention of any one thing can be made, excepting his callas and roses. In one rose house nearly one mile of piping was used. There are five boilers using about 600 tons of coal each season. In the Spring Mr. Howe contemplates building another house. Mr. Howe claims The Florists' Exchange is the best paper of the kind published.

MANCHESTER.—To be a first-class florist one ought to have more or less mechanical ingenuity. Such a man is F. J. Bixby of this city. He has about 15,000 feet of glass and expects to extend one of his houses 120 feet the coming season. This is a carnation house with solid beds. Mr. Bixby has one curious fixture—a 50-foot chimney made of cobble

stones and cement, with a smooth outer surface. He is replacing his 1-inch steam pipes with 1 1/4-inch in all his houses, and is using the discarded pipe as framework for new benches. The bed of the benches consists of cement slabs, made of five parts ashes to one of cement. Carnations are chiefly grown. Mr. Bixby has a fine lot of lilies coming along for Easter.

The Bay Brook Garden Company, of which Dr. G. A. Campbell is treasurer and general manager, is doing the largest business in the city. There are 14 houses with 30,000 feet of glass. Dr. Campbell was formerly a practicing physician but now devotes his entire time to his floral business and a rapidly growing coal business. Mrs. Campbell is general designer and makes up most of the funeral work. The store is in charge of Miss Marion Campbell and Mrs. Elba Dow.

Herman C. Stache, though a smaller grower than some, has six houses of 10,000 feet of glass. Mr. Stache's lilies (longiflorum) stand second to none in the State for quality and general appearance. His carnations and violets are also in fine condition.

MADBURY.—William H. Elliott of Brighton, Mass., who has in this town the largest single rose house in the county, viz, about 812 feet x 55 feet with an extension for propagating, is planning to build one even larger the coming season.

Nashua, N. H.

One of the best appearing lot of greenhouses in Southern New Hampshire is that of August Gaedeke & Company of this city. The houses are built in the best residential portion of the city, and add to the general attractiveness of the pleasant surroundings. A very handsome office building is the approach to about 20,000 feet of glass, compactly arranged. The heating system is perfect, the Furman boiler being used. Mr. Gaedeke grows many carnations and roses, but cannot begin to cut stock enough to supply their rapidly growing trade. Balls, private parties, and a large amount of funeral work have taxed their capacity to the utmost. The violet house, 50 x 20 feet, was a sight on the morning of February 8.

Easter coming so early and so little sunshine, finds Mr. Gaedeke short of lilies, but he has made up his deficiency through the open market.

President William J. Stewart of the Society of American Florists has just appointed Mr. Gaedeke vice-president for New Hampshire.

One of the old-timers in Nashua is C. H. Blake, who has been a florist here for about 36 years. Mr. Blake does not remember when they have had such a cold Winter as the present season. He reports that for the month of December there was only 38 hours of sunshine. Mr. Blake has had some trouble with his lily bulbs, and will not be able to show his usual good stock.

For a city of its size there is an unusually fine series of greenhouses in Nashua. Your correspondent had the pleasure of visiting the four well kept houses of George C. Buxton in the outskirts of the city. Mr. Buxton has about 25,000 feet of glass, and a first-class propagating house 75 feet long. Carnations are grown largely; among them we saw some fine benches of White Enchantress, Helen Goddard, Mrs. M. A. Patten and Queen. Mr. Buxton last Summer enlarged one of his houses, and the coming season will see more of the same kind of work going on.

CAROLUS.

WEST CHESTER, PA.—West Chester will soon be entirely surrounded by nurseries, as the extensive nursery firms of this place are gradually acquiring leases on all the available farm land in and around the place, on which to plant trees and shrubbery for cultivation for the increasing trade.

ways with the answer that the money is only given for scientific purposes.

Another point in Mr. Hill's paper was that the work be taken up by young men. It is almost an invariable rule that all the great work that is accomplished in hybridization has been done by elderly men.

Mr. Hill: I was greatly pleased with what Mr. Barry said, and I must confess I feel a little ashamed that I have not given greater attention to this particular line of work. There is a wonderful field here, whether scientific or not. A fund entrusted to this society by Mr. Carnegie ought to be valuable to some one, or more than one, to stimulate work along this line. See what a blessing it would be if we could have ever-blooming hardy roses blossoming all over this country!

I visited Peter Lambert of Germany a year ago, and he showed me an ever-blooming climbing rose. I do not know whether or not he has put it on the market, but he assured me that it bloomed almost continuously throughout the Summer months. Whether it would do this under our climatic conditions, I do not know. I would like to see the young, or old, men take up this line of work. I feel that the nurserymen are a little slow about coming forward in this respect. They are the men who ought to help in this particular line. I do not want to find fault with them, but I do think they have not given this subject proper attention. They do not seem interested enough, and it seems to me to be more in their line than in that of the florist.

Mr. Barry again referred to the great need of hardy roses for America. He thought it was the province of the Rose Society to promote interest in every class of roses cultivated. He agreed with Mr. Hill that the nurserymen were much to blame for the lack of progress along this line. It should not be the aim of any rose grower to disseminate varieties that would pass out of existence in a few years. The nurseryman is careful to send out trees and flowering shrubs that last for a long time and which are suitable to American conditions. He was anxious to get a rose hardy enough to stand out in all parts of the country.

William Fraser of Baltimore thought that the American Rose Society had been a one-sided affair up to this time. Very much of its work had been directed to roses under glass. Continuing, he said, "We do not know what creations they have thrown away, which might have been in the class Mr. Barry is looking for. If a new variety does not come up to the standard of the rose grown under glass, out it goes. Probably there might be some useless for that purpose which would be valuable as outdoor garden roses."

Mr. O'Mara referred to the matter of the limit of hardiness of a rose, particularly the hybrid perpetual class, and spoke of a bulletin issued by the South Dakota Experiment Station, dealing with the subject of hardiness of h.p. roses in the Northwest. He believed the matter had never previously been taken up, with the exception of some systematic work in crossing with the *Rosa rugosa*, but on account of the spiny character of the seedlings they were useless for garden purposes. He referred to an inquiry which had been received from Alberta, Canada, concerning a list of varieties that would be hardy there. He had answered the question to the best of his ability, mentioning the kinds given in the bulletin referred to, also other varieties known to possess hardiness, but was surprised to receive a reply to the effect that such sorts as *La France* and *American Beauty*, and others of that kind, were already being grown there. He believed that under some conditions of culture many of our roses that are supposed to be tender might be found hardy, much depending upon the cultivator.

Mr. Farenwald said that there was a number of roses that would prove hardy if taken good care of before the Winter starts in. He was hurt to hear the Rose Society characterized as one-sided. The society had been formed and maintained chiefly by the men who cultivate roses under glass. The cultivation of hardy roses belongs more particularly to the nurserymen, very few of whom are members of the American Rose Society. This statement brought Mr. Fraser to his feet with the remark that the Rose Society should cover both the cultivation of roses indoors, as well as those outdoors.

Mr. Barry here explained that the nurserymen were wanted in the society, as well as the men engaged in forcing roses. He could not see why the men who were making money in growing roses under glass should not have their gardens of roses outside, and unless they are imbued with that kind of spirit, the Rose Society is not going to do for the rose what it could do, or attain the success that it should. If its work is to be limited, the society will not succeed to the extent that is desired. A broad view should be taken of the matter. He wanted all the best people in the land to be interested in the rose question, and hoped soon to see the day when the Rose Society would make an exhibition of hardy roses. When that



Climbing Rose Paradise
Exhibited by M. H. Walsh, Woods Hole, Mass.

day comes, then the nurserymen "will show you what they can do."

W. A. Manda stated that if they wanted to make a success of the Rose Society it would be necessary to give a general rose exhibition, where every lady who had a rose bush could make an exhibit. He thought there was too much commercialism in the society, as it existed, and stated that if the members wished others to be enthusiastic, they, first of all, must be enthusiastic themselves. He urged the holding of a June show. The public ought to be advised as to the proper kinds of roses to grow and receive proper directions as to how to cultivate them. The Carnation Society is devoting its attention only to commercial flowers. An effort should be made to get a race of hardy carnations as well as hardy roses. Show the public something and they will follow you.

Mr. Craig referred to the work of the National Rose Society of England in the issuance at certain intervals of bulletins on the rose which give proper information as to the varieties suitable for certain purposes. "If we could so arrange matters that we could



Myers & Samtman's New Rose
American Beauty × *Safrano*

send out, say four times a year, a little bulletin stating what roses are good for the North and the South, and what is being done from time to time in the way of raising new varieties, we might get thousands of new members."

Mr. Craig likewise touched upon the necessity of publicity being given to the exhibitions of the Rose Society, a difficulty that disclosed itself in most of the florists' undertakings along that line.

Supplementary Report of the Judges.

Mr. Craig here read the following supplemental report: Your committee desires to make the following report. Recognizing the value of the extensive exhibit of *Wichuraiana* and other climbing roses in large pots and tubs, made by M. H. Walsh, of Woods Hole, Mass., which formed the most attractive feature of the show, we desire to recommend, if it can be done without violating any rule of the society, that a certificate of merit be given to each of the following four varieties, which we deem worthy of the honor: *Paradise*, *La Flamme*, *Delight*, and *Juanita*.

Mr. Elliott in endorsing the supplementary report, stated that the object of the society should be to encourage rosarians to produce new varieties and exhibit them at the Rose Society's meetings. It was necessary, according to the rules, to judge novelties under the point system, something that did not impress the judges of these new kinds as doing all for the exhibitors that ought to be done. If the new varieties did not score sufficient points entitling them to any of the society's medals, and if the flowers showed merit, some recognition should be given them. He therefore moved that the four varieties of roses named be awarded a preliminary certificate. He considered all of them promising; some are good, and in another year may be worthy of a higher award.

Mr. O'Mara endorsed the views of the previous speaker. The only official recognition that can at present be given a new variety, under the rules, is a gold or a silver medal, to obtain which a score of 95 and 85 points respectively was necessary. He thought some official recognition should be taken of promising new varieties failing to win medals.

The judges' supplementary report was then adopted.

Mr. O'Mara moved that the society recommend to the executive committee the advisability of extending the list of prizes to be given to novelties; that, provided a new variety scored 80 points, it should be awarded a preliminary certificate of merit. Carried.

Mr. Elliott said the point system as laid down did not apply well to novelties. In the case of new varieties the originators had not the means or the opportunity of growing them to perfection that was possible with standard sorts, so as to get the length of stem and the full development of the blooms. But if the new varieties have prospective merit rose growers in general will judge them on these grounds. He suggested that it might be well to recommend to the executive committee for consideration the judging of novelties on their merit rather than by points. Mr. Elliott added: "We have our point system of judging roses which is excellent when applied to full grown and perfectly developed flowers, but to novelties it does not apply well."

Mr. O'Mara: Another matter in connection with novelties is whether or not some stipulation can be made as to the specific number of blooms to be exhibited. I move that we recommend to the executive committee, in drawing up the schedule for next year's show, the advisability of specifying a particular number of blooms to be exhibited for a preliminary certificate of the society, with the suggestion that twelve be the number adopted.

Mr. Elliott thought any person having a new rose should not exhibit it before the society until he had quite a large number of plants to cut from; Mr. Heacock adding that to do otherwise would cheapen the certificate.

Climbing and Trailing Roses.

M. H. Walsh, Woods Hole, Mass., then read his paper on "Climbing and Trailing Roses in the Hardy Rose Garden." (See page 356 of last week's issue.)

On motion of Mr. O'Mara a vote of thanks was extended to Mr. Walsh for his able essay.

Mr. Barry praised the work done by Mr. Walsh, and spoke of the climbing roses produced in Europe, mentioning as worthy of cultivation such sorts as *Leuchstern*, *Rubin*, *Blush*, *Waltham Rambler*, and *Queen Alexandra*, the latter one of the most floriferous of the multiflora type.

Mr. Hill told of the work of Barbier, Orleans, France, who showed him a number of varieties with *Wichuraiana* blood in them, and having blooms larger than any of the *Wichuraiana* type yet produced here. He was shown a plant 15 feet high which had been grafted on the top of a standard; many of the blooms on it were as large as those of tea roses. Mr. Hill

also told of the display of Queen Alexandra seen at Veitch's nursery, as an effective method, of creating custom for roses. Mr. Hill also referred to the collection of M. Graveran of the Bon Marche in Paris, France, which embraced every known named variety of rose. That gentleman has experimented with the rugosa, using on it the ever-blooming varieties, and had obtained several good seedlings. These show a remarkable absence of spines. Mr. Hill believed it would only be a question of a few years before the objectionable part of the rugosa family could be bred out of its progeny. "I believe," said he, "we have got to have an infusion of rugosa blood if we want to get hardy roses in this country. I believe roses can be obtained that will resist the rigors of our Winters and prove, in a measure, free from the dreaded disease which strips the roses of their foliage in the Summer months in our hot climate. I believe this will come about by painstaking, persistent work."

Mr. Farenwald spoke enthusiastically of the rose garden in Keney Park, Hartford, Conn., adding that private gardeners and park superintendents could do far more to educate the masses in the matter of roses than any man in the business.

President Simpson also alluded to the wonderful Hartford display, which, he said, had stimulated him to have a rose garden of his own. Some varieties intended for last year's show had missed that date, and were planted in his garden. He treated them as recommended by Mr. Wirth in his paper, and the results had surprised him. Frau Karl Druschki was wonderful in the extreme, and Cardinal had given great satisfaction. He could not recall the names of all the varieties he had employed.

Mr. Barry suggested that florists should plant climbing roses to the outside walls of their greenhouses; Mr. Walsh explained he had already done so, and the roses make a beautiful covering during the Summer months.

Mr. O'Mara eulogized Mr. Walsh's rose garden at Woods Hole, which occupied about two acres of ground. To look over it when the plants were in bloom was an inspiring sight indeed.

Mr. Elliott stated there had been a good deal said about getting the rose to bloom continuously throughout the Summer. Take the Crimson Rambler rose—none better and none more appreciated. If that rose which produces all the flowers that any rose can be expected to produce, divided its blooming over the whole year, it would never be the rose it is to-day, when it gives out all the gorgeousness of bloom at one time. You cannot get out of a rose plant but only so much; and if it gives its flowers all at once, it makes a gorgeous showing more so than if it distributed its blossoms over the whole season.

Mr. Manda spoke of his experience in growing the Wichuraiana varieties. The main object was to obtain foliage. Multiflora was a good blood to introduce, giving profusion of bloom but with poor foliage. It was a question which to use. He had made a cross of Perle des Jardins with the Wichuraiana type and obtained seeds. From these he had secured the varieties Gardenia and Jersey Beauty. With other crosses, in which he had raised 8,000 seedlings, it was necessary to throw all of them out.

How to Increase the Membership and Usefulness of the Rose Society.

In the discussion of this matter Mr. O'Mara advocated the establishment of a periodical devoted to matters pertaining to the rose, which could be named "The Rose." He thought such a publication could be made profitable, and it might be possible to get some of the present publishers to take up its publication. He thought a subscription price of one dollar per year would largely increase the membership of the Rose Society. Mr. O'Mara pointed out the necessity of supplying information regarding soils and varieties to the general public, which could be accomplished through the medium of such a periodical. He believed that if all the work that had been outlined and discussed at the present meeting is brought to a culmination, the Rose Society would be much further advanced a year from now than it is to-day. He had great hopefulness for the future of the organization.

Mr. Hill spoke of the attitude shown by most of the men in the business to the Rose Society, which viewed in the light of the extent of the business and the money that had been made in rose growing, was somewhat incomprehensible. He thought the suggestion of publishing a periodical devoted to the rose was timely, and referred to the success of the "Rosen-Zeitung," printed in Germany.

Mr. Elliott urged the necessity of getting rose literature before the public, and suggested that the society might secure the services of the National Council of Horticulture for that purpose. He was not in favor of the subject of outdoor roses being continuously thrashed out before the society. The rose growers under glass would look for some literature on their specialty. The speaker was also of the opinion that the Rose Society, in its present state, was not in a position to invite the amateur rose growers into its ranks, and until it had obtained some stability, the commercial men should continue to be prominent in its operations.

Mr. Hill suggested that it might be well to appoint a committee to go before the American Association of Nurserymen and make an appeal to them in behalf of the American Rose Society looking to the holding of a combined June show, at which outdoor roses could be exhibited. On motion of Mr. Heacock, the president and Mr. Hill were appointed such a committee. The meeting here adjourned at 7 o'clock.

The Banquet.

On Thursday evening a banquet was tendered the visiting delegates by the Washington Florists' Club in the dining room of the Arlington Hotel. The decorations, under the superintendence of George Schafer, were magnificent. The carnation Winsor entered largely into the mirror decoration at one end of the dining hall. While the dinner was in progress, songs were rendered by Messrs. Stanley and Lynch, which were much appreciated, as was the elocutionary entertainment provided by a local professor. Peter Bisset occupied the chair and briefly welcomed the guests, introducing J. R. Freeman as toastmaster.

The first toast was "Our Country," responded to by the Hon. Simon Wolf in a patriotic address. The toast of "The American Rose Society" was replied to by President Robert Simpson, who expressed his appreciation of the hospitality extended by the Washington fraternity. He regretted that weather conditions were against a more favorable showing of roses especially of American Beauty. He spoke of the American Rose Society as an educator, and hoped that some of the money now being given for educational purposes would be devoted to the development of rose culture in the United States.

At this point the toastmaster introduced John Brady, who he said was the first man to discover the American Beauty rose in America. It seems that Mr. Brady was gardener to Hon. George Bancroft, in whose garden at Washington the American Beauty was first grown. A plant was sold to Field Brothers, and at the instigation of William R. Smith of the Botanic Gardens, the opinion of the late Peter Henderson on the merits of the rose was asked and obtained, and acting on Mr. Henderson's advice, the rose was introduced into commerce by Field Brothers of Washington.

The next toast on the list was "Washington, the City Beautiful," responded to by District Commissioner H. B. F. Macfarland. He told of what was doing in the way of city adornment and what they hoped to accomplish. Every intelligent American feels a pride in the national capital and wants to see it made beautiful in every possible way.

George H. Brown, superintendent of Gardens and Grounds of the Department of Agriculture, gave a very interesting talk on the subject of "Washington Parks." He traced the history of the park development from its inauguration at the instigation of the late A. J. Downing in 1851 up to the present time, until there are now about 3,500 acres in parks, and about half of that acreage had been partially improved.



William S. Clark's New Rose
Liberty X Mme. Abel Chatenay

Dr. B. T. Galloway, chief of the Bureau of Plant Industry, next spoke on the subject of "The Department of Agriculture and its Work for the Horticulturist." Dr. Galloway told interestingly of the development of the florist business, and incidentally remarked that if the glass of the standard size, 12 x 12, now comprising all of the establishments in the United States, was placed end to end it would reach to a distance of 12,000 miles. The Department of Agriculture during the past fifteen years has given a great deal of attention to the study of diseases of plants and insects which affect them. A conservative statement of saving effected by the work of the Department along this line would be between nine and ten million dollars. Dr. Galloway told of his first experiment with hydrocyanic acid gas in an ordinary washtub and of the experiments now being conducted with Easter lilies, hardy oranges and lettuce, as well as the interest of the Department in the teachers' work concerning school gardens.

The next speaker was Patrick O'Mara, his theme being "The Gardener and His Work for the Rose." Mr. O'Mara was in fine form, and characterized the gardener as the Atlas who is bearing the horticulture of the United States upon his shoulders. He eulogized the gardener and his work, the title being one which any man might be proud of. He also paid a high tribute to the influence exerted by women on floriculture. He mentioned among gardeners who had done good service for the rose, M. H. Walsh, James Comely, Peter Bisset and others, and said that we in this country ought to be proud that we have a man who had produced the Richmond rose in so short a time, a rose which surpasses the best in the whole wide world.

The next toast was "Horticulture, Past, Present and Future," replied to by Superintendent Wm. R. Smith of the National Botanic Garden at Washington. Mr. Smith said he gloried in the name of gardener, and under that name he had had the opportunity to associate with the greatest intellects in this country. The rose, he said, had been queen of flowers for the past 2,500 years.

President William J. Stewart responded to the toast of "Our Parent Society," and commended the Washingtonians in having the good sense to bring the ladies to the banquet, thus emulating Boston; he hoped that other societies would follow that good example. He spoke of the efforts making by the society in the matter of express rates; they were endeavoring to find out whether the florists were made for the express companies or the express companies for the florists. The executive committee's work done at Philadelphia was next touched upon by Mr. Stewart, who said he hoped to present a program at the August convention that would show strongly how this society is leading; how it is showing the way for other horticultural organizations in the country. An endeavor is making to secure closer affiliation with other societies and clubs, and he referred to the strength that would result from



John Cook's New Seedling Red Rose

such affiliation. The Rose Society, he said, was one of the parent society's brightest children.

Other toasts were, "Our Guests," by Wm. F. Gude, and "The Ladies," by Robert Craig. Mr. Craig paid a neat compliment to the fair sex, quoting from the Bible, Emerson, Shakespeare and others. His remarks were witty and much enjoyed.

He was followed by E. G. Hill, who made a humorous speech, stating that two of the most remarkable things at the present banquet were to hear Patrick O'Mara, a confirmed bachelor, giving sop to the ladies, and Bob Craig quoting Scripture. (Laughter.)

Robert Kiff of Philadelphia then sang an original song, after which W. H. Elliott and Benjamin Hammond, secretary of the Rose Society, each made a few remarks.

It is to be hoped the June rose show will materialize, if for no other purpose than to "see what the nurserymen will then do."

Chicago in 1908 should mean a record-breaking exhibition, and a largely increased Western membership. The "silk stocking" element is no longer a bugbear to affiliation with the Rose Society.

The re-election of President Simpson was a well-merited tribute. And there are no more enthusiastic members in the Rose Society than Treasurer Harry May and Secretary Hammond.

The addition of Phil. Breitmeyer to the list of officers means lots of unselfish, hard work injected into the society's operations.

Additional Awards.

Twenty-five Uncle John—First, Robert Simpson, Clifton, N. J.; second, John N. May.

Best exhibit of Rambler roses—M. H. Walsh, Woods Hole, Mass., the Simpson cup. Most artistic arrangement of roses in a vase—Robert Simpson, the Welch Brothers' cup.

Best Collection of Hybrid Wichuaniana roses—M. H. Walsh, the F. R. Pierson cup.

Special growers' prizes given to the actual workman growing the roses—First, Wm. H. Elliott; second, Robert Simpson, the Moore, Hentz & Nash premiums.

General display of roses in pots or tubs—M. H. Walsh, the American Rose Society's prize of \$100.

Six pots of Baby Rambler rose—First, F. H. Kramer, Washington, D. C.

Six climbers, distinct varieties—First and second, M. H. Walsh.

Rose Rhea Reid.

Editor Florists' Exchange:

The photograph (herewith reproduced) shows the character of the flower very nicely, the stem being stiff, the canes heavy and the bloom of a splendid red color. It is as large as American Beauty, is absolutely continuous in bloom and so full that it is equally good in warm or cold weather. The variety is a seedling of American Beauty x an unnamed red seedling of our own. It shows all the characteristics of a profitable commercial red rose for the American grower.

THE E. G. HILL CO.

[This novelty was awarded the May cup at the Washington exhibition of the American Rose Society last week for best American seedling rose not yet introduced.—Ed. F. E.]



Carnation May

Originators Baur & Smith, Indianapolis.

Carnation May.

Editor Florists' Exchange:

We send you under separate cover photograph (herewith reproduced) of our new light pink carnation May.

It is a strictly commercial variety and will be offered to the trade as such. It is not a giant exhibition prize winner and it will not displace Enchantress in the fancy class, but it will be grown for its revenue-producing qualities, and to grade with Lady Bountiful, Victory, Winsor, Mrs. Lawson, etc. It comes into bloom early and is extremely free, covering the whole season from end to end. The color is deeper, more even and more pleasing than that of Enchantress. The bloom is round and high built and not too crowded in the center, thus allowing it to open up perfectly and quickly. The calyx never bursts and the stem is always strong. The plant is strong and healthy and of very easy culture and grows in height about the same as Lady Bountiful. It has only two parents. Both parents were seedlings of ours.

We have a nice stock and expect to put it on the market next season.

Indianapolis, Ind. BAUR & SMITH.

The group photograph of the American Rose Society delegates, taken on the steps of the Treasury Building, after the reception by President Roosevelt, has not reached us in time for reproduction in this week's number. We hope to publish it in a later issue.



The F. R. Pierson Cup

Awarded by the American Rose Society at Washington Show to M. H. Walsh, Woods Hole, Mass., for Best Six Climbing Roses

On motion of President Simpson a rising vote of thanks was tendered to the Washingtonians for the many courtesies extended the Rose Society and visitors during their stay in the Capital City. This closed the proceedings which throughout were greatly enjoyed.

Notes.

The name of the worthy president of the American Rose Society was inadvertently given in last week's issue in several instances, as William instead of Robert Simpson. We regret the blunder.

The parentage of the new rose of Myers & Samtman is American Beauty and Safrano not La France as the types had it last week.

It was Robert Craig and not William P., who acted as one of the judges at the rose show.

There are some who are of the opinion that the fire-proof liquid used in the exhibition hall militated against the keeping qualities of the carnations, some varieties noted for their lasting powers going to sleep long before their wonted time.

A combined rose and carnation show would certainly prove a great attraction. Hopes were expressed that such a combination might be possible in the near future.

The "Wars of the Roses" were brought to a peaceful termination by the patriotic address of the Hon. Macfarland.

The Asparagoides myrtifolia was shown by the Washington Florist Company. Its gracefulness was much admired.

A more suitable exhibition hall for the carnation show next January will be sought by the Washington craftsmen.

Richmond rose was the talk of the show. President Roosevelt was de-lighted with the bunch of it presented to him.

A paper on Mendel's theory as applied to rose crossing would prove an interesting feature at next year's meeting.



Rose Crimson Rambler, grown for Eater

Photo by J. W. Duncao.

CONFIDENCE in the business bringing qualities of The Florists' Exchange is well exemplified by the large volume of advertising appearing in this Spring Number. The best firms are represented here; the stock which they handle is always satisfactory.

You make no mistake when you deal with them. And you should place your orders Early.

MISCELLANEOUS WANTS

WANTED—Will exchange Grotf's Gladioli for Peonies, Iris, Phlox or Dahlias. E. R. Macomber, Woodford, Me.

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WANTED—A florist's refrigerator, 6 to 8 ft. long, of modern construction, complete and in good condition. Address Northampton Nurseries, Northampton, Mass. Thos. Foulds, Supt.

RARE OPPORTUNITY—For a florist to establish a good paying business; 10,000 inhabitants; one of the fastest growing towns in the State. The grounds are especially adapted for the business. Make application by filling out a form, five minutes from station. White Plains, N. Y. For full particulars apply to Elmo Brown, 3 Court street, White Plains, N. Y.

WANTED—A corporation on the Pacific coast doing a growing and shipping business, can arrange for a profitable position for a wide-awake, competent young man; he must be a worker in every sense of the word, have a fair education and more than just ordinary intelligence. The position carries with it the necessity of buying from the man whose place he will take with the company about one thousand dollars' worth of the capital stock of said corporation. Applications must be accompanied by full particulars concerning applicant, just what line of work competent in, what concerns engaged with during past five years, age, married or single, nationality. Address, Pacific Coast, care The Florists' Exchange.

FOR SALE OR RENT

FOR SALE—Cheap, greenhouses on ground leased for as long a term as you like, 5,000 sq. ft. glass. Address, A. Akers & Company, Johnstown, Pa.

TO LEASE—On account of ill health, three greenhouses, each 150 ft., in good condition. Stocked with roses. Thomas Rhedican, Prospect Street, Madison, N. J.

FOR SALE—4 greenhouses, each 20 x 150 ft., fully stocked and in good repair; situated on corner property; also dwelling, windmill, sheds, etc. Address, C. T. Hiner, Flemington, N. J.

FOR SALE—Greenhouse property, 5,000 sq. ft. glass, 7 acres of land. Dwelling house and barn. All stocked. One mile from station; ninety miles from New York. Price reasonable. Address, E. D., care The Florists' Exchange.

FOR SALE—A Chicago range, new greenhouses, 70,000 ft. glass, complete, full running condition. Now in fine crops. Don't answer unless prepared to deal. Good dwelling and out buildings. Address, A. Reeves, 420 Aspland Block, Chicago, Ill.

FOR SALE—Greenhouse property, 5,000 sq. ft. glass, 7 acres of land. Dwelling house and barn. All stocked. One mile from station; thirty miles from New York. Price reasonable. Address R. D., care The Florists' Exchange.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousands feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing a large business all through the season. Address, E. Hppard, Youngstown, O.

FOR SALE

Three Greenhouses, 150x30 feet, potting shed, 90x22 ft., boiler room, 30x22 feet, built about three years ago, practically new. Everything in complete working order and stocked. One acre of land; 3/4 of a mile from railroad station; 13 miles from New York City. Price, \$3,000.00. Terms reasonable. Apply to A. V. D. Snyder, Ridgewood, N. J.

FOR SALE

FOR SALE—Greenhouse material and hot bed sash, milled from Gulf Cypress to any detail furnished. Oxford putty, specially made for greenhouse and hotbed sash. W. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

BOILERS. BOILERS. BOILERS.
SEVERAL good, second-hand boilers of standard make on hand; thoroughly tested, complete in every detail. William H. Lotton, West Side Avenue Station, C. R. R. of N. J. Jersey City, N. J.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. **KROESCHELL BROS. CO., 33 Erie St. Chicago.**

Boston.

News Items.
William J. Haverty, for fourteen years shipper in Galvins, who has been sick for the past few weeks, died on Sunday.

Welch Brothers will make a specialty of lily plants in cases of twenty-five for Easter, direct from the grower, and their new market, with its abundance of room, will greatly facilitate the quick handling of goods and getting orders out on time, which has always been one of the chief aims of this reliable firm. Sweet peas were never seen better than they are at present in this market, and several growers seem to have reached the height of perfection in cultivating this favorite flower.

E. Sutermeister of Hyde Park has been confined to his home with sickness the past week.

Henry M. Robinson & Company have a rapidly increasing business in the cut flower trade, a department which they recently started, and already talk of increasing their cold storage facilities.

Easter outlook is very bright in this locality. The growers of lilies have good showings and many thousands of plants will be in fine shape. Azaleas, too, will be fine as several growers will have an exceptionally nice lot of well-flowered plants. Violets have recently been among the most popular flowers at this time and there is no question this year that there will be an excellent supply of this stock.

Conger & Gormley have taken the vacant store next to their State street stand for an Easter annex.

Club Notes.

The regular meeting of the Gardeners and Florists' Club was held on Tuesday evening. President Westwood in the chair and an attendance of 125, notwithstanding it was one of the stormiest nights of the season. Eight new members were elected and the name of Jackson Dawson presented for honorary membership. It was decided to hold a club banquet during April. It was voted to appropriate \$25 for a special prize to be awarded at the chrysanthemum show of the Massachusetts Horticultural Society next Fall.

It was carnation night and there were many fine exhibits on the tables. Some of the most striking were a vase of new variegated carnation Bay State, from Albert Roper, Tewksbury, which was awarded a report of merit; a vase of Afterglow from William Nicholson which received a report of merit; and a vase of Alma Ward from Peter Fisher, which also received a report of merit. Honorable mention was awarded to H. A. Stevens for seedling carnations; to F. R. Pierson Company for White Enchantress; to Elijah A. Wood for seedling scarlet number 405; to A. Roper for seedling number 21; to W. W. Rawson for lettuce and radishes grown with the aid of electricity; and to Daniel Iliffe for an adjustable plant stand. Votes of thanks were awarded to W. N. Craig for vase of larkspurs; to E. B. Beals for seedling carnations; to F. R. Pierson Company for Winsor carnation and to Peter Fisher for Beacon and Evangeline carnations, these latter three varieties having had former awards

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of the club. Not the least important among the exhibits was a collection of sweet peas in some sixteen separate varieties, all Winter-blooming, from Wm. Sim; an award of report of superior merit was made for the same.

There was a lengthy discussion on carnation growing introduced by F. J. Palmer and Peter Fisher, M. A. Patten, F. R. Pierson and others freely expressed their experiences with the different modes of cultivation. Indoor Summer culture was much discussed and was favored by the three gentlemen named as the best method for producing high grade blooms with long stems for early Winter purposes when the prices were highest.

The co-operation of florist clubs with the National Society was talked on by President W. J. Stewart of the S. A. F. and O. H. and by J. K. M. L. Farquhar, but the hour was late and discussion had to be deferred till some future time. Gentlemen present from a distance were F. R. Pierson Tarrytown, N. Y., Geo. Baldwin, Secaucus, N. J., and E. B. Beals Springfield, Mass. J. W. D.

St. Louis, Mo.

Spring Flower Show.

The St. Louis Horticultural Society held its Spring flower show last week. The show opened Tuesday afternoon at 2 o'clock. The exhibition was a good one and created much favorable comment from all the visitors. The displays were mostly made up of bulbous stock, also carnations, roses and violets in cut flowers, and made-up work. The officers of the society are to be congratulated in getting together such a splendid exhibition in so short a time. Many new features were displayed in made-up designs and floral booths—like those at Chicago last year. One of the most handsome booths was that by F. C. Weber, on which a great deal of good taste was displayed. C. Young & Sons' booth was also well gotten up. That of the Koenig Floral Company was in the form of a greenhouse covered with smilax. The St. Louis Seed Company had a seed and bulb exhibit in their booth, also live birds and all kinds of implements pertaining to the garden. This attracted a great deal of attention from the visitors. The booth was in charge of Walter Retzer.

In the made-up work class a fine dinner table was set up by Thomas Miller, the only display of its kind. Mr. Miller's basket and vase of flowers were much commented upon. The basket taking first and the vase second prize. F. C. Weber and R. J. Windler were the others to show baskets and vases. In groups, Schray, Young, and Sanders made good displays, and Weber, Windler and Schray made handsome exhibits of bulbous stock in bloom.

S. S. Skidelsky staged for the E. G. Hill Company of Richmond, Ind., the new and beautiful red rose, Rhea Reid, which was the center of attraction. George Kuhl of Pekin, Ill., displayed well-grown ferns. Vaughan's Seed Store also made a display of plants.

In the afternoon of the opening day the prizes were awarded, the judges being R. F. Basson, Andrew Meyer, Sr., and Albert Walhart. The awards were as follows:

Collection of plants in bloom—Wm. Schray & Sons, first; G. B. Windler, second; and Koenig Floral Company, third.

Collection of bulbous plants in bloom, accessories admissible—F. C. Weber, first; Wm. Schray & Sons, second; R. J. Windler, third.

Fifty foliage and blooming plants—C. Young & Sons Company, first; Wm. Schray & Sons, second; C. C. Sanders, third.

Specimen plants, Schray & Sons, first with a fine kentia; Koenig, second; and Sanders, third.

Specimen blooming plant—A. Jablonsky, first, with a fine acacia; F. C. Weber, second.

Six blooming lily plants—C. Young & Sons, first with longiflorus; A. Jablonsky, second; and F. H. Meinhardt, third.

Display of pansies—R. J. Windler, first; Sanders, second.

Display of violets—Schray, first; Weber, second; and Wm. Winter third, all California.

Display of bulbous cut flowers—No first; F. C. Weber, second.

Five vases of carnation blooms, five varieties, twenty-five in each vase—Chicago Carnation Company, first, with White Perfection, Red Riding Hood, J. A. Valentine, Aristocrat and Enchantress; J. D. Thompson Carnation Company, second.

Fifty white carnations—Chicago Carnation Company, first with White Perfection; John Steidle, second with Lady Bountiful.

Fifty light pink carnations—Chicago Carnation Company, first with Enchantress; J. D. Thompson Carnation Company, second with Evangeline.

Fifty dark pink carnations—Chicago Carnation Company, first with Aristocrat; J. D. Thompson Carnation Company, second with Mrs. E. W. Lawson.

Fifty red carnations—J. D. Thompson Carnation Company, first with Robert Craig; A. Jablonsky second, with Cardinal.

Fifty variegated carnations—J. D. Thompson Carnation Company, first, A. Jablonsky, second, both with Mrs. M. A. Patten.

Fifty carnations any other color—A. Jablonsky, first with Harlowarden; John Steidle, second with Enchantress.

Four vases of roses, in four varieties—Peter Reinberg, Chicago, first with Richmond, Mme. Abel Chatenay, Ivory and Bridesmaid; W. J. & M. S. Vesey, second.

Twenty-five American Beauty—W. J. & M. S. Vesey, first; F. C. Weber, second.

Twenty-five pink—Peter Reinberg, first; W. J. & M. S. Vesey, second, both showing Bridesmaid.

Twenty-five white roses—P. Reinberg, first; W. J. & M. S. Vesey, second, both with Bride.

Twenty-five red roses—P. Reinberg, first; W. J. & M. S. Vesey, second with Richmond.

Twenty-five roses, any other color—Peter Reinberg, first with Uncle John. Best floral basket—Theodore Miller, first; F. C. Weber, second; R. J. Windler, third.

Best vase of flowers arranged for effect—Fred C. Weber, first; Theodore Miller, second.

Among visitors attending were S. S. Skidelsky, Philadelphia; Mr. Knoll, Bloomington, Ill.; M. Barker, Chicago; J. S. Wilson, Vaughan's Greenhouses, Western Springs, Ill.; Leonard Kill, Chicago; G. Kuhl, Pekin, Ill.; G. Washburn, Chicago; A. C. Brown and A. C. Canfield of Springfield, Ill.; A. F. Longren of The Chicago Carnation Company and J. D. Thompson of Joliet, Ill. The visitors were tendered a complimentary dinner by the members of the society on Wednesday afternoon at the Colonial Cafe. The attendance throughout the three days of the exhibition was large.

On Wednesday night the society held its annual meeting with a good attendance. The election of officers resulted as follows: Edward Mallinckrodt, president; Leonard Mathews, vice-president; F. C. Weber, treasurer; and O. G. Koenig, secretary.

On Tuesday and Thursday evenings Dillwynn M. Hazlett illustrated with stereopticon views things the society aims to accomplish.

The St. Louis Florists' Club held a very interesting meeting last Thursday afternoon, which was only fairly well attended, owing to the fact that most of our growers were kept busy at home. The meeting was promptly opened by President Irish at 2 o'clock. The committee on the flower show made its final report, in which it was stated that in view of the fact of the great opposition placed in its way by certain members of the club the committee was unable to raise the guarantee fund of \$10,000. The committee was discharged with thanks for their great efforts.

President Irish made a request on behalf of the Engelmann Botanical Club for the loan of the club's tables and vases, to be used at their annual Spring flower show, to be held next month. The request was granted. On motion, the club decided to hold its annual rose show meeting next month, and \$50 in prizes will be offered for local growers only in competition. Growers of new roses are requested to send a few blooms of novelties for the inspection of our growers. The trustees were given instructions to make arrangements for some kind of entertainment for the members and their families, to celebrate the club's twentieth anniversary on June 28. They were allowed \$100 for expenses. Thomas G. Brown made application for membership. Mr. Brown is a local grower. Treasurer Bentzen's report showed that the club was in good standing.

The question box brought out a big discussion on Easter-blooming plants, especially lilies, in which J. F. Annano, E. W. Guy, F. J. Fillmore, A. J. Ammann and others took part.

The next meeting of the club will take place Thursday, April 11, at 2 o'clock. **ST. PATRICK.**



Front View



Rear View

Wittbold's Combination Vase and Plant Stand

Has been used for the past 15 years and has proved itself an invaluable asset to the decorator. We refer to unsolicited correspondence and description in Florists' Exchange of March 16th, 1907 page 357. **Price \$18.00 per dozen.**

THE GEO. WITTBOLD CO.,

1657 Buckingham Place, Chicago

Philadelphia.

The Easter Outlook.

Present indications point to a good Easter business; it looks as if all the growers are to sell out clean without any special effort. The only scarcity noted is in the case of hydrangeas; several growers could not get these in. There are plenty of lilies for local trade, but on Monday demands increased from outside cities and prices have stiffened considerably. It looks now as if prices on cut stock will be 15c. and 18c. per flower next week.

The Wm. Graham Company had on Saturday last passed their last year's Easter sales and have a lot of stock yet to dispose of. They expect to clean out everything. All stock is in good shape. They grew 15,000 azaleas and 20,000 pots of lilies besides quantities of hyacinths, tulips, spiraeas, etc.

The Robert Craig Company have a fine lot of stock; in addition to azaleas, lilies and general stock they have a grand house of Magna Charta roses and a nice lot of gardenias in 5-inch pots 4 to 6 buds just ready to open.

Local Items.

The firm of Dunn & Walsh, retail florists and decorators at 618 Chestnut street, has been dissolved. J. Dunn will continue to carry on the retail store at that address, while James Walsh has accepted a position with the Wm. Graham Company as a decorator, he having done quite an extensive business in the hunting and flag decoration line.

The Floral Exchange, Inc., 335 N. 6th street have given up the decorating end of the business, which has been turned over to the Wm. Graham Company together with the stock of hunting, draperies and other effects used in that work.

C. S. Ford of this city formerly of 1417 Columbia avenue, manufacturer of floral novelties and representing A. Herrmann of New York on the road, was called home suddenly last week from Cincinnati on account of the death of his eldest daughter, Charlotte, aged 20 years. Miss Ford was a stenographer and had just accepted a position with Henry A. Michel Company, seedsmen, at 1018 Market street, when stricken with appendicitis, the cause of death. Miss Ford was an earnest church worker, and very popular. She was buried Saturday, March 9 in a bower of flowers with 30 floral offerings from friends and relatives. Mrs.

Ford is prostrated and Mr. Ford sees no chance to continue his trip in time for Easter business.

S. A. F. O. H. Executive Session.

The officers and directors of the S. A. F. O. H. were here last Monday and Tuesday holding their annual executive session, the only absentee being Treasurer Beatty who is now in the South. Those present were President Wm. J. Stewart, Ex-president Wm. F. Kasting, Secretary P. J. Hauswirth, Directors E. V. Hallock, Theo. Wirth, F. H. Traendly, W. H. Elliott, Samuel Murray, J. K. M. L. Farquhar, P. Welch, of Boston, being present, was appointed to act on the board in the absence of Treasurer Beatty. The recommendations of the local club to hold the meetings of the S. A. F. in the Broad Street Theatre and the exhibition in Horticultural Hall were approved, upon the recommendation of the local club. David Rust was appointed superintendent of exhibition.

Alex. Scott has returned from a two months' sojourn at Summerville, S. C. He intends to devote most of his time from now on to the propagation of the new rose Mrs. Jardine, one of the introductions of Dickson of Belfast. It is of a flesh color, good growth, large flower and bids well to make a good record.

F. Le Gierse has sold his seven greenhouses, each 25 x 75 feet, at Swarthmore, Pa., to Emil Wohler of Bala, Pa. The latter will take possession at once as the lease on his present place expires in June.

Visitors this week were E. G. Hill, Richmond, Ind.; P. J. Hauswirth, Chicago; F. Smith of Smith & Fetters, Cleveland, O.; L. McBean, Lakewood, N. J.

The steamer Menominee which was reported in collision in the English Channel two weeks ago and which has 140 cases of goods for Bayersdorfer & Company has proceeded and is due here on March 19.

The Pennsylvania Horticultural Society meeting on Tuesday evening was well attended. H. L. Frost of Boston gave a very interesting talk on "Tree Surgery," illustrating his remarks with specimens of injured limbs of trees. Wm. Kleinheinz read a paper on his trip to Europe.

The Spring flower show takes place next week—Tuesday, Wednesday and Thursday. **DAVID RUST.**

New Orleans, La.

News Notes.

Chris Holst and Eugene Boudenay, who for many years have been the proprietors of "The Half Way House" Nurseries, located right in the midst of the most fashionable cemeteries of New Orleans, have decided to retire from business, having amassed a competency. They will travel for a year, taking in most of the places of interest in Europe and Asia, with a trip to the Holy Land, after which they will reside permanently in Europe. James A. Newsham, the proprietor of the Nashville Avenue Rose Gardens, purchased the stock and good will of their business and, having taken a five years' lease of the grounds, will carry on business at both places until his present lease expires, when he will devote his entire attention to the Half Way House Nurseries.

C. W. Diehling is cutting fine Harrisii lilies daily for which he finds a good demand. He also has a nice lot that will be just right for Easter. Abele Brothers report theirs will be just in time. At the Wm. Rehm establishment it is to be seen a fine lot with practically no disease. The Metairie Ridge Nurseries are also cutting fine lilies, but Mr. Papworth reports that unfortunately at least 50 per cent. of their crop is diseased.

CRESCENT CITY.

AMHERST, MASS.—G. A. Bishop of Waltham has been appointed instructor pro tem. in floriculture at the Agricultural College to fill out the current semester in place of Francis Canning, who has left to take charge of an estate in Altoona, Pa. Mr. Bishop has had a thorough training in various lines of agriculture, horticulture and gardening in the English way. In 1898 he was appointed head of the department of experimental agriculture in the Bermudas, which position he held until the Spring of 1905. During 1905 and 1906 he was engaged in commercial horticultural enterprises on his own account in the Bermudas, coming to Massachusetts to make his home in the Fall of 1906.

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Easter Plants

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LILIES packed in Cases of 25 direct from the Grower
ROSES, LILIES, VIOLETS, AMERICAN
BEAUTIES, LILY OF THE VALLEY,
GARDENIAS, SWEET PEAS.

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Mr. John A. Scollay,
 74-76 Myrtle Avenue,

Brooklyn, N. Y.

My Dear Sir:—

I take great pleasure in writing you that your No. 5 boiler, which has only now given out, has been in use in my greenhouses thirty-two years. This I consider a long time for a boiler to last. The original grate were the only ones used during the thirty-two years. I have also at present twelve boilers of your make, which are giving perfect satisfaction.

Yours very truly,

ABRAHAM VAN SICKLAN.

Feb. 21, 1906.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

Easter Baskets for plants. *Fern Baskets*, zinc lined. *Crepe Paper*, pleated and water proof. *Porto Rico Mats*. *Loose Magnolia* and *Bay Leaves* for making original designs. *Green Sea Moss*. *Tone Ware Vases*, very desirable for *Easter*. *Crepe Paper Adjustable Pot Covers*. *Easter Ducklings*. A full line of all styles of baskets.

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Send for catalogue and designs.



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several years. It is not likely, however, that there will be any dearth of cut flowers, either of lilies or any other kinds, and out-of-town buyers may rest assured that anything they need in this line can be had in this market. For those who have to buy for the Easter trade, we would refer them to the advertisements of New York's most prominent wholesalers which will be found in this issue, and we would also say, get your orders in as early as possible.

S. Groot, representing the firm of Sluis & Groot, seed growers of Enkhuizen, Holland, arrived on Thursday, the 14th inst, on the steamer New Amsterdam for a tour of the United States in the interests of his house.

The delegation from this city to the Rose Society's show at Washington included: President Robert Simpson, Treasurer Harry O. May, Secretary Hammond, and Patrick O'Mara, Paul and Henry Dalledouze, Walter F. Sheridan, F. H. Traendly, A. H. Langjahr, Alex. J. Guttman, George Struck, James Ivera Donlan, L. M. Noe, Robert Schultz, L. B. Coddington, W. A. Manda, Alex. Wallace and others.

Among the visitors this week were P. J. Hauswirth and son, E. J., Chicago; Peter Crowe, Utica, N. Y.; B. F. Meyers, foreman for W. J. Palmer & Son, Lancaster, N. Y.; W. W. Edgar, Waverly, Mass.; Philip Breitmeyer, Detroit, Mich.; A. J. Loveless, Fred Heeremans and A. H. Winget, all of Lenox, Mass.; E. G. Hill, Richmond, Ind.

T. Mellstrom, representing Sander & Sons, St. Albans, England, arrived in this city last Saturday on the steamer Campania on his semi-annual visit to the trade. His address is 235 Broadway, Room 1.

J. McHutchison left on the 21st inst. for a business trip to Europe on board the steamship Amerika.

Newport, R. I.

News Notes. The program for the conference on Rural Progress to be held in Newport, March 26, includes an address by Dean L. H. Bailey of Cornell University. The list of speakers includes also President Butterfield of Amherst, President Edwards of the Rhode Island Agricultural College and Dr. Wheeler of the same college.

An extensive range of glass is in course of erection at Oakland farm, Portsmouth, for Mr. Alfred G. Vanderbilt.

Carl Jurgens has leased a large tract of land which he will utilize in connection with his greenhouse operations.

A local paper announces the rental of the "Fadden" store on Bellevue avenue to a New York party. If that means the retirement of the Faddens from active business, a name well known in retail florist circles for more than forty years will disappear. The business of Thomas Galvin is much older than that of the Faddens, with the still further gratifying and interesting feature of the founder still in harness.

Alexander Nicol, part owner of the Copeland street greenhouses, Brockton, Mass., who is a resident of Newport, visited the greenhouses last week and reports the stock in good condition and prospects bright in Brockton for Easter business. D. M.

Detroit, Mich.

News Notes. The Detroit Florists' Club meeting was well attended in anticipation of a paper prepared by A. J. Stahelin on "Carnation Growing." Murray G. Patterson was unanimously elected a member.

Kroeschell Brothers kindly submitted a souvenir carnation measure, and the secretary very graciously took up the matter of getting one for each member. Samples of calyx fasteners were also pleased to all present. Fred Pantke showed some seedling carnations, one of which was of mammoth size.

J. F. Sullivan will prepare a paper for April 3, on the subject "Florist Clubs and the Importance of Attending their Meetings." E. A. Scribner talked in favor of the ladies auxiliary of the S. A. F. O. H.

The Club indorsed Geo. A. Rackham as a candidate for school inspector in the seventeenth ward. The secretary was authorized to correspond with Mr. Thomas, Dayton, Ohio, in regard to a stereopticon lecture in Detroit. HARRY.

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WILLIAM H. KAY COMPANY,
 244 Fulton Street, - - New York City

New York.

The Week's News.

The flower and plant section of the large department store of Abraham & Straus, Brooklyn, is now in the hands of the firm of James Weir's Sons, the prominent Fulton street florists. It goes without saying that the flower stock at this mart will be second to none, and Abraham & Straus are to be congratulated upon this acquisition to their establishment.

Hicks & Crawbuck, wholesale florists and supply dealers at 76 Court street, Brooklyn, have discontinued their cut flower business and will hereafter devote all their energies to the supply department. Most of the growers who have been shipping to this firm will hereafter be found with Bonnet & Blake, wholesale florists at 106 Livingston street, Brooklyn.

Charles Meisinger, a West Hoboken, N. J., florist, had a narrow escape from being injured one day last week. He was carrying a large floral design, and, in crossing a street, was suddenly run down by a horse from behind, the horse having got beyond control of the driver. Fortunately, Meisinger was not injured, he having fallen in the slushy snow, but the floral design was a total wreck, and Meisinger had to go back to his home and make another one. The driver of the horse reimbursed Meisinger for the loss of his flowers.

The Department of Parks is advertising for sealed bids or estimates for furnishing all the labor and materials for erecting and completing a greenhouse, a boiler house and steam trench in the Botanical Garden at Bronx Park. Bids will be received until 3 o'clock p. m. Thursday, March 28.

L. W. Wheeler of Vaughan's Seed Store has gone to Bermuda to look over the firm's contract crops of lily bulbs.

Those from this city who attended the annual show and meeting of the American Rose Society at Washington last week report having had a very enjoyable time while in the capitol city.

An illustration showing a truck load of seed catalogues going up Barclay street toward the post-office was shown in one of the Sunday papers last week as being a sure indication that Spring was here.

A. Moltz, wholesale florist at Twenty-sixth street and Sixth avenue, is mourning the loss, by death, of his mother, whose funeral was held on Thursday, March 14, the interment being in Washington cemetery.

To-morrow is Palm Sunday and lilies are in fairly good demand. Present indications point to a shortage of plants of lilies for Easter, and prices are expected to be somewhat higher than has been the rule for

A. L. YOUNG & CO.

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54 WEST 28th STREET, - - NEW YORK
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CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

REVIEW OF THE MARKET

NEW YORK.—Tuesday brought us another snow storm which lasted all day, and the effect it had on the flower business can better be imagined than described. Flowers of all kinds are coming in rather more plentifully than they were; especially is this noticeable in American Beauty, Bride and Bridesmaid roses. The values of the first mentioned rose have been more than cut in half and still the stock cannot be moved satisfactorily. With Bride and Bridesmaid there seem to be no fixed prices, as boxes containing all grades of them have been sold at \$2 per 100 to effect clearances.

Carnations, through some reason or other, seemed to sell fairly well on Monday, but since then there has not been much call for them. Prices are ruling no better than they were a week ago. Cut lilies, perhaps, are not quite so plentiful as they were; presumably they are being held for next week with the supposition that better prices will prevail at that time.

Violets are extremely plentiful, and the prices they are bringing are anything but satisfactory. Tulips and narcissus continue to move at some figure or other, but there are a good many of them that are not bringing much money. Freesia and sweet peas are in plentiful supply, as also are daisies, gardenias, orchids and lilac.

A shipment of cut flowers of narcissus arrived from the South on Wednesday morning. This is the first consignment of the season, and with our market already over-stocked with these flowers, the effect on prices can easily be imagined.

CHICAGO.—The sensation of the week preceding the 17th of March in this market was certainly the green carnation. The dye producers were rushed with orders for the fluid, which in addition to local consumption was shipped in considerable quantity to near by and more remote points. White carnations began to shorten up and increase in price at least a week in advance of the occasion, and an unusually large amount of sentiment and commercialism, even the Florists' Club devoting a large part of the evening to the question. From the middle to the last of the week white carnations were so much in demand for this purpose that the bulk of the stock increased in value \$2 per 100, and so strong was the market on this line that other staples strengthened to some extent.

With the opening of this week an ample supply of everything except long-stemmed American Beauty roses was offered at prices varying very little from those of a week ago. There seems every reason to believe that the optimistic expectations, which are very generally expressed as to supply, demand and quality of stock for the coming flower festival, will be fulfilled at prices pretty much the same as last year.

W. K. W.

ST. LOUIS.—The mild and pleasant weather last week made trade fairly good. Funeral work was plentiful, and a number of good-sized weddings were attended to by the up-town florists. The bright weather also brought out an abundance of cut stock; the commission houses were all loaded down. The flowers were mostly all disposed of in 1,000 lots at cheap prices, especially carnations. St. Patrick's Day a big lot of green carnations were disposed of. White carnations went up in price \$3 and even \$4 per 100 was asked for them, while colored stock went begging at two cents. Extra quality in Enchantress brought \$3, Mrs. T. W. Lawson, Robert Craig and Nelson Fisher \$2 per 100. Violets are becoming scarce; some of the growers are trying to hold them back in order to have a big cut for Easter. At present these flowers are bringing 25c. per 100.

Roses are much more plentiful and are down in price. Extra quality in Bride, Richmond, Ivory, Killarney and Bridesmaid bring \$3 per 100; firsts, \$6, and seconds, \$4. American Beauty in fancy grades seem scarce; medium and shorts are quite plentiful.

Callas are coming in heavily. Harrisli are scarce as yet. Dutch hyacinths are fine, and sell well at \$5 per 100. Roman hyacinths and Paper White narcissus are scarce at \$3; Von Sion plentiful. Lily of the valley sells slowly; there is still plenty on the market. Sweet peas are fine at \$1 per 100 for extra fancy; 50c. for shorts.

Smilax has had a good call. Common ferns are up to 30c. per 100. Galax leaves are selling well.

The Easter plants at some of our large establishments are looking well; should this warm spell keep up, growers will have their troubles in holding them back for Easter. Lilies are to be scarce, they say, as most of them are all sold out this early.

ST. PATRICK.

BOSTON.—Trade has been fairly good all the week and prices have rallied somewhat. While stock seems plentiful enough there does not appear to be the marked surplus that there has been during the past month. American Beauty roses are still the scarcest of any flowers and there is a good demand for medium long stemmed blooms of this variety. Richmond are selling well and good prices are realized for some of the fine long stemmed flowers. Killarney and Wellesley are in brisk demand as are Mrs. Abel Chataway, although only limited quantities of these varieties are to be had. Bride and Bridesmaid are both of good quality and prices are advanced over those of last week for the better grades.

Carnations have advanced in price. Some very fine blooms are now to be had. Sweet peas are plentiful but are of grand quality. Mignonette is good, and some fine snapdragons are being brought in. Violets have advanced in price a little; they have been plentiful enough recently, in fact, so much so that they have been the principal flower of the street vendor. J. W. D.

PHILADELPHIA.—Flower market conditions are rather poor this week. Lots of stock on hand and not many buyers in quantity. American Beauty are becoming very plentiful and the best stock is offered at \$3 and \$2 per dozen. Tea roses are very plentiful; it is difficult to get over \$12 per 100 for any of the stock and lots are to be had for \$8 and good flowers, too.

Carnations are also very plentiful; \$4 is the top price for any fancy flowers, general stock brings \$2 and \$3 per 100 with but few buyers in large lots. Violets are dragging this week; the best flowers are sold at 50c. to 75c. per 100. Daffodils realize \$1 and \$2 per 100; tulips, \$2 and \$3 with Couronne d'Or at \$4 and \$5 per 100. Gardenias bring \$1.50 and \$3 per dozen and very plentiful. Lily of the valley is abundant; and \$2 and \$3 per 100 is all that can be obtained for the best.

Quite a lot of A. Sprengon has come in from the South the past week. Adiantum cuneatum fetches \$1 and A. Croweanum, \$1.50 per 100.

Lilies are selling at from 10c. to 15c. per flower; growers holding any not sold much firmer the past two days.

DAVID RUST.

INDIANAPOLIS, IND.—A steady trade has been maintained throughout the week. It is possible to fill the many orders in a most satisfactory manner, as all kinds of stock were of good quality. Funeral work and counter trade have kept the retailers on the alert for all the salable flowers in the market. The automobile show and the various openings have caused the decorators to put forth unusual efforts. St. Patrick's Day occurring on Sunday caused the green carnations to disappear with astonishing rapidity; \$1.50 a dozen was usually obtained for them. Violets, sweet peas, lilacs and other Spring flowers have received the most attention from patrons. The unlimited amount of carnations at so early a date gives the writer an insight into an over supply after Easter; \$2 to \$3 a hundred wholesale and 75c. to \$1 a dozen retail are the prices for them.

Roses make a brave struggle against the masses of bulbous stock brought to market; prices vary but little from those of the preceding week.

Callas and Harrisli lilies invariably find buyers, the first mentioned at \$1 a dozen, the last at \$1.50 to \$2 a dozen.

I. B.

WASHINGTON, D. C.—The past week, with Lenten season and attendant convention, did not prove a stimulus to trade. There is still an over supply and this condition by reason of warmer weather is added to daily. The general consensus of opinion is that little relief will come until Easter sales consume the mass; in many cases close out some, and make room for what is left. On St. Patrick's Day unusually fine

THE METAIRIE RIDGE NURSERY COMPANY LTD.
NEW ORLEANS, LA.
GROWERS OF CHOICE CUT FLOWERS
Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.

We can fill all orders at lowest market prices. No order too small or too large for us.

FOR EASTER

To avoid disappointment place your orders in advance. For Hardy Cut Ferns and all Florists' supplies see ad on page 416

Cut Lilies
Callas
Lily of the Valley
Carnations
Narcissus
Hyacinths
Tulips

Brides and Maids
Richmonds and Wellesleys
American Beauties
Gardenias
Violets
Ferns
Asparagus

HENRY M. ROBINSON & CO.

Wholesale Commission Dealers of Cut Flowers

Florists' Supplies and Hardy Cut Evergreens

15 Province St.

9 Chapman Place

BOSTON, MASS.

weather prevailed, and this helped the sale of green carnations, shamrock, and minor novelties. Azaleas, lilac, and bulbs are still abundant, but not in much demand. Some of the retailers are going to Philadelphia this week to look up Easter stock. Growers here are experiencing some inconvenience in retarding Easter azaleas, etc., owing to the warm weather.

NEW BEDFORD, MASS.—There is no let-up to the demand for cut flowers. We are now having plenty of good bright weather, which has helped to bring out the blooms more freely. Prices remain the same as usual, the only change being in violets. Some of the growers have got violets down as low as 35c. per dozen retail which hardly pays to pick them. There is plenty of bulbous stock in the market. Funeral work is quite plentiful using up plenty of inferior flowers.

The dahlia growers around here are commencing to send out catalogues.

Wm. P. Peirce on Union street had a nice run on carnations St. Patrick's Day. These were dyed green and sold readily at 10c. each. From present indications there will be a good supply of violets for Easter.

HORTICO.

SUMNER, WASH.—The Woodland Park Floral Company of Seattle has purchased twenty-five acres of land in Sumner for the purpose of building greenhouses and growing plants to supply its wholesale and retail trade. The company, which is probably the largest in Seattle, owns a large range of greenhouses at Woodland Park, Green Lake; also a wholesale and retail store on Sec-

ond avenue. The land in question lies between the town of Sumner and the farm of W. H. Paulman. The price was \$6,000. Work on both grounds and buildings will be begun at once.

CHANGES IN BUSINESS.

DES MOINES, IA.—The Rush Floral Company has opened a flower store here.

AURORA, ILL.—Charles Stolp is building a greenhouse, and will embark in the florist business.

WHITEHALL, N. Y.—Walter L. Mead, Fort Edward, N. Y., has established a branch store here.

ALBIA, IA.—Mr. Richey will establish a greenhouse plant here and embark in the florist business.

SPRINGFIELD, MASS.—Hans Madsen has sold his greenhouse business here and has returned to his home in Denmark.

PORTERVILLE, CAL.—George D. Avery will start a nursery here to be devoted to the growing of ornamental shade trees and shrubbery.

NORWALK, O.—The Laible Floral Company has opened a flower store at 43 Benedict avenue. It will be under the direct management of F. G. Laible.

BUFFALO, N. Y.—The William E. Kasting Company, has been incorporated; capital, \$30,000. Directors—W. E. Kasting, 700 Eliott street; Laura A. Kasting, E. C. Brucher, Buffalo.



As usual, I offer Elegant Stock of all Leading Cut Flowers for **EASTER**.

Orders placed now will be filled with the choicest of the product.

JOHN I. RAYNOR
49 West 28th Street
NEW YORK

Telephone 1998 Madison Square.

Apply for Prices on these **SPECIALTIES**

- ROSES
- AMERICAN BEAUTY**
Medium to Highest Grades
- BRIDE
- BRIDESMAID**
- LIBERTY**
- RICHMOND**
- WELLESLEY**
- KILLARNEY**
- LONGIFLORUMS
- CARNATIONS**
In all Leading Sorts
- TULIPS
- LILAC**
- VIOLETS, Fancy
- LILY OF THE VALLEY**
Best in the World
- MIGNONETTE
- CROWEANUM FERN**
- EMPERORS and**
- GOLDEN SPUR.**

The product of the largest and most famous growers sold here.

ALFRED H. LANGJAHR

Established 1891

Wholesale FLORIST

55 West 28th St., New York

Telephone 4626-4627 Madison Square

Special Valley
and top grade
ASPARAGUS

Crop of top notch
Ulrich Brunner
ROSES
arriving daily

Out-of-town orders for **EASTER TRADE** promptly filled

Consignments of first-class stock solicited



*Edward C. Karan
Wholesale Florist,
55 West 28th Street,
New York.*

Soliciting a share of
your Easter orders and
promising our best attention
if you favor us with a trial.

Tel. 1462 }
1463 } Madison Square.

FOR EASTER TRADE YOU NEED THE BEST THERE
IS IN CUT FLOWERS AND WE CAN SUPPLY YOU

FORD BROTHERS

WHOLESALE FLORISTS

Telephones { 3870 } Mad. Sq. 48 West 28th Street, NEW YORK
3871 }

We are receiving splendid crops of Carnations, American Beauty Roses, Mignonette, Violets and Lilies.

Our CARNATIONS are the finest that are coming to the New York Market.

We shall also have a choice lot of Violet Plants.

Place your orders with us and get the best.

EASTER 1907

A FLOWER SHOW EVERY MORNING

TRAENDLY & SCHENCK

WHOLESALE FLORISTS

PHONES { ²⁹⁸ } Mad. Sq.

44 W. 28th St., NEW YORK CITY

We are headquarters in New York for **Richmond** and **Killarney**.

We are the **largest receivers** of **Bridesmaids**, **Brides**, **Chatenay**, **Uncle John** and **Golden Gate**.

We will have the cut of 20,000 **Jack Rose Plants** in full crop for **Easter**.
All the best Commercial Varieties and finest quality of **Carnations**.

We can supply **Violets** in any quantity, **Bulbous Stock** of all kinds, and all other **Seasonable Flowers**.

Shipments of fine **Sweet Peas** received daily. *Write for particulars.*

JOSEPH J. LEVY.

JOHN SELIGMAN.

EASTER GREETING

FROM

JOHN SELIGMAN & Co.

... WHOLESALE ...

FLORISTS

56 West 26th Street, NEW YORK.

Telephone 4878 Madison Square.

WRITE FOR PRICES.

The Reliable House

J. S. Fenrich

Wholesale Florist

110 West 28th Street
NEW YORK

Tel. 324-325 Madison Square

Always a full supply of all seasonable flowers.
Headquarters for choice **Violets**, **Valley**,
Lilies and **Gardenias**.

Easter orders carefully packed and shipped on short notice.

JENSEN & DEKEMA

No. 674 West Foster Ave.

CHICAGO, ILL.

CARNATION SPECIALISTS

We are extensive growers of high grade Carnations only and ship cut flowers to all parts of the Middle West and Southern States. Write us for prices.

We make a specialty of A. 1. quality of rooted Carnation cuttings in their season and superior field grown plants in the Fall.

Western Agents for the Winsor Carnation

ROOTED CUTTINGS	Per 100	Per 1000
Winsor =	\$12.00	\$100.00

Rooted Carnations Now Ready for Delivery

	Per 100	Per 1000
Victory	\$6.00	\$50.00
Lady Bountiful	3.00	25.00
White Perfection	6.00	50.00
Enchantress	2.50	20.00
Boston Market	1.50	12.50

JENSEN & DEKEMA, 674 West Foster Avenue, Chicago

A. L. Randall Company

19-21 RANDOLPH STREET, CHICAGO

WHOLESALE FLORISTS AND FLORISTS' SUPPLIES

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|--|---|---|
| <p>I. On our list of growers and consigners are found the names of many of the most successful culturists contributing to this great market.</p> <p>II. These growers as well as a large proportion of our patrons have dealt continuously with us for many years.</p> <p>III. All goods arriving or leaving our store are directly under the watchful eyes of the managers and are carefully inspected.</p> <p>IV. Our business is thoroughly managed on principles perfected by many years of experience.</p> <p>V. Give us a trial and be convinced. You will surely be pleased and the benefits will prove mutual.</p> | <p>We have recently opened our Florists' Supply department and every article is new, free from soil or damage, and of the latest and most approved design.</p> <p>We can assure you that no article will ever be shipped from our house unless it is in perfect condition and as represented.</p> <p>Understand that buyers of our supplies are respectfully requested to return at our expense any article that is not satisfactory on arrival.</p> <p>We are the largest Cut Flower Supply House in the West and are positively up-to-date in every particular.</p> <p>Our goods and our business system which guarantee satisfaction are our best advertisement.</p> | <p>I.</p> <p>II.</p> <p>III.</p> <p>IV.</p> <p>V.</p> |
|--|---|---|

Our Florists' Supply Department has been opened but a trifle over a year and the success we have attained gives us positive assurance that our entry into this field has filled a long felt want which we were destined to relieve. **GIVE US A TRIAL.**

A. L. RANDALL COMPANY, CHICAGO

PETER REINBERG

No. 51 WABASH AVE. CHICAGO

ONE MILLION AND A HALF SQUARE FEET OF GLASS

The largest Area Devoted to Growing Cut Flowers by One Concern in the World

We are in Excellent Crop of Roses and Carnations and
WILL TAKE CARE OF YOUR EASTER ORDER

We were awarded FIVE FIRST PRIZES on FIVE ENTRIES at
THE RECENT ST. LOUIS SHOW

EASTER PRICE LIST

AMERICAN BEAUTIES	Per doz.		Per 100		Per 100		Per 100
Long stem.....	\$6.00	Maid and Bride	\$6.00 to \$10.00	Golden Gate	\$6.00 to \$10.00	Paper Whites ...	\$3.00 to \$4.00
30-inch.....	5.00	Uncle John	6.00 " 10.00	Killarney	10.00 " 15.00	Romans	3.00 " 4.00
24-inch.....	4.00	Chatenay	6.00 " 10.00	Ivory	6.00 " 10.00	Callas	15.00 " 20.00
20-inch.....	3.00	Liberty	6.00 " 12.00	ROSES, our selection.	5.00	Harrisii	15.00 " 20.00
15-inch.....	2.00	Richmond	6.00 " 12.00	Carnations	4.00 " 5.00	Asparagus Plumosus,	
12-inch.....	1.50	Sunrise	6.00 " 10.00	Valley	3.00 " 4.00	per bunch.....	.75 to 1.00
Short.....	1.00	Perle	5.00 " 8.00	Violets	1.00 " 1.50	Ferns per 1000	3.00
						Galax ".....	1.00

WELL ROOTED HEALTHY STOCK

CARNATIONS	WELL ROOTED CUTTINGS	ROSES	ROSE PLANTS
PINK	Per 100 Per 1000	STRONG AND WELL ROOTED CUTTINGS	FROM 2 1/2 INCH POTS
Lawson.....	\$1.50 \$10.00		READY FOR SHIPMENT
Nelson.....	1.50 10.00	Per 100 Per 1000	Richmond.....
Nelson Fisher (cerise).....	2.50 22.50	Richmond.....	Bridesmaid.....
LIGHT PINK		Liberty.....	Uncle John.....
Enchantress.....	2.50 22.50	Bridesmaid.....	Chatenay.....
VARIEGATED		Bride.....	Brides.....
Mrs. Patten.....	2.50 22.50	Sunrise.....	Ivory.....
WHITE		Uncle John.....	Liberty.....
Boston Market.....	1.25 10.00	Chatenay.....	Perle.....
White Lawson.....	3.00 25.00	Ivory.....	Sunrise.....
RED		Perle.....	
Robert Craig.....	6.00 50.00		
Cardinal.....	2.50 20.00		

KILLARNEY 2 1/2 INCH POTS GRAFTED STOCK. \$12.50 PER HUNDRED

BENCH PLANTS ONE-YEAR-OLD PLANTS FROM BENCHES, LIBERTY, IVORY, AMERICAN BEAUTY \$10.00 per hundred AND PERLE. \$5.00 per hundred, \$40.00 per thousand. \$75.00 per thousand

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THE WHOLESALE FLORIST OF NEW YORK

Can supply you with every variety and grade of Cut Flowers for
Easter and at any other time of the year.

CARNATIONS

LILIES

SWEET PEAS

HYACINTHS

DAISIES

ASPARAGUS PLUMOSUS

LILY OF THE VALLEY

ROSES

CALLAS

JONQUILS

SMILAX

GARDENIAS

VIOLETS

MIGNONETTE

TULIPS

LILAC

ORCHIDS

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Long Distance 'Phone--Two wires, 1664 and 1665 Madison Square.

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If you are in need of choice cut flowers for **EASTER**
TRADE send your orders to us and get the best * * *

BONNET & BLAKE

106 Livingston Street, BROOKLYN, N. Y.

Telephone 4638 Main

We are filling out-of-town orders to the entire satisfaction of our many customers, and we can do the same for you.

We handle the output of **Carnations** from the establishment of John N. May, Summit, N. J. Also the entire output from Alfred Demeusy, the famous carnation grower of Flatbush, Brooklyn, including his new seedling, No. 333, which is beyond a doubt the coming dark red carnation.

Our **Roses** are from the establishments of the foremost experts in rose culture, and we are in daily receipt of the choicest **Violets** obtainable.

Through the discontinuance of the cut flower business of Hicks & Crawbuck, we have added materially to our list of growers, and are better prepared than ever before to fill all orders.

We have at all times a full line of all **seasonable flowers**, and can fill your orders just as you desire, and ship them promptly.

In addition to our cut flower department, we carry at all times a heavy supply of **galax leaves**, both green and bronze, also **hardy ferns** and other green material.

Place your **Easter** orders with us and be assured of generous treatment.

TO GROWERS

We would say that we are at all times anxious to secure consignments of well grown flowers, and can guarantee the highest market values. Give us a trial.

If You Want the BEST That the Market
Affords in Cut Flowers For Your
EASTER TRADE

You Must Send Your Orders To Me

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106 West 28th Street

NEW YORK

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My growers are among the best in the land. I have everything in season, so that whatever kind of flowers you are in need of, order from me and you will not be disappointed.

Write for
Price List.

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NO GUESS WORK IN OUR METHODS

All goods are placed on show at the same time. Having ample space we are enabled to do this to great advantage

Each Grower's Goods are sold separately and entirely on their own merit; they are never bulked together to help the sale of another shipper's stock.

Every Sale, Large or Small, is recorded on a TRIPPLICATING MACHINE; one copy goes with the goods to the buyer, one to the Cashier, and the third is

FILED FOR INSPECTION at any time by the *Grower*, to whom the stock belongs that is thereon recorded, thus showing the name of the buyer, the quantity sold, and at what price. At the end of each day's trading, the slips are dissected, and the prices of the different grades figured out and placed where they belong, thus ensuring a faithful return and positively doing away with averaging, by which means the good prices go where they rightfully should; that is, to the *Shipper* of the Best Stock. Nothing can be *taken from* or *added to* any grower's returns; each and everyone gets *no less nor any more* than his goods are sold for. If as it will sometimes happen that the stock is not sold, the slip for same is marked *destroyed*.

Advice of Sale Note is sent out the day following the arrival of the goods showing if all or only part of the shipment has been sold. Anything left unsold is carried forward as *old stock*, and is sold and returned for as such, separately, and never included with any other shipment.

Cheques Weekly. All goods received up to and including Saturday in any week are paid for on the Saturday following.

Commission is Fifteen per cent. on the amount of sales, and any express charges that we pay at this end for goods, or return of empties are deducted.

Shipping Cards. Small box slips and *Con-ignment Notes* are also supplied.

MOORE, HENTZ & NASH.

1882

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 All Varieties Carnations
 Violets of Finest Quality

AT EASTER TIME

A CHOICE STOCK OF ALL SEASONABLE CUT FLOWERS
 TO FILL THE ORDERS OF THE TRADE.

AMERICAN BEAUTIES
 BRIDESMAIDS
 BRIDES
 RICHMONDS
 KILLARNEYS

VIOLETS
 LILIES
 CARNATIONS
 ORCHIDS
 SPRING FLOWERS, ETC.

H. E. FROMENT

TELEPHONE ²²⁰⁰ MADISON SQ.
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57 WEST 28th STREET, NEW YORK.

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Wholesale Commission Dealer in **Cut Flowers**
106 West 28th St., NEW YORK
Open at 6 a. m. every day.
Telephone, 167 Madison Square.
Consignments Solicited.

Wm. Stuart Allen Co.
Commission Merchants in **CUT FLOWERS**
ORCHIDS AT ALL SEASONS
53 WEST 28th STREET, NEW YORK
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BONNET & BLAKE
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Open every Morning at Six o'clock for the Sale of Cut Flowers.
Wall Space for advertising purposes to Rent.
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Always Ready to Receive Fine Stock
GUNTHER BROTHERS
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Violets, Roses, Carnations, Orchids
Established 1888.

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Consignments of first class stock solicited.
Prompt returns.
THE SQUARE DEAL
Guaranteed to all who trade here.
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Wholesale Grower
Asparagus Plumosus Nanus, Etc.
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ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES, CARNATIONS.
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PHONES. 1664-1665 MADISON SQUARE
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55 WEST 28th STREET, NEW YORK
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SPECIAL VALLEY AND TOP GRADE ASPARAGUS
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SUCCESSOR TO
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Receiver and Shipper of all varieties of Cut Flowers
Telephones. 2200 and 2201 Madison Square. 157 West 28th St., NEW YORK

Wholesale Prices of Cut Flowers, New York, March 21, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	25.00 to 35.00	Carnations	1st grades, all colors.....	1.00 to 1.50
	" extra	20.00 to 25.00		STANDARD White	1.00 to 2.00
	" No. 1	12.00 to 15.00		" Pink	1.00 to 2.00
	" No 2	6.00 to 10.00		" Red	1.00 to 2.00
	" No 3	1.00 to 3.00		" Yel. & Var.	1.00 to 2.00
	Bride, Maid fancy-special.....	6.00 to 8.00		*FANCY.....	2.00 to 3.00
	" extra	4.00 to 5.00		" (The highest grades of standard var) White	2.00 to 3.00
	" No. 1	3.00 to 4.00		" Pink	2.00 to 3.00
	" No. 2	1.50 to 2.00		" Red	2.00 to 3.00
	" Yel. & Var.	2.00 to 3.00		" Yel. & Var.	2.00 to 3.00
	Golden Gate.....	2.00 to 10.00		NOVELTIES	4.00 to 6.00
	RICHMOND.....	2.00 to 15.00		FREESIAS, per doz. bunches	1.00 to 1.50
	Mrs. Abel Chatday.....	2.00 to 10.00		GARDENIAS, per doz.	1.00 to 3.00
	ADIANTHUM.....	.50 to 1.00		LILACS, per bunch.....	.50 to .60
	CROWNEANUM.....	1.00 to 1.50		LILIES.....	10.00 to 15.00
ASPARAGUS.....	25.00 to 50.00	LILY OF THE VALLEY.....	1.00 to 2.00		
" Plumosus, bunches.....	15.00 to 20.00	MIGNONETTE.....	2.00 to 6.00		
" Sprenger, bunches.....	15.00 to 20.00	NARCISSUS, Paper White.....	1.00 to 2.00		
		" Yellow.....	.35 to 1.00		
CALAS.....	12.00 to 15.00	ROMAN HYACINTHS.....	1.00 to 2.00		
CAPTLEYS.....	40.00 to 60.00	SMILAX.....	12.00 to 15.00		
CYPRIPEDIUMS.....	12.00 to 15.00	SWEET PEAS, per doz. bunches .....	.50 to 1.25		
DAISIES.....	1.00 to 3.00	TULIPS.....	.50 to 2.00		
		VIOLETS.....	.20 to .50		

WALTER F. SHERIDAN
Wholesale Florist
Tel. 3532-3533 Mad. Sq. 39 WEST 28TH ST., NEW YORK
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING
American Beauty, Bridesmaid, Bride, Liberty,
Lilies, Lily of the Valley, Carnations
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SPECIALTIES—Violets, Carnations and Roses
Shipping orders receive prompt attention. Consignments Solicited.
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WM. STARKE
Wholesale Florist and Plantsman
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Between Broadway and 6th Ave., New York
Shipments of Plants made to any part of the country. A trial order solicited.
SATISFACTION GUARANTEED.

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THOMAS YOUNG Jr.
Wholesale Florist
43 West 28th Street, NEW YORK
Telephone, 4850 Madison Square
Consignments of Choice Flowers solicited
Louisville, Ky.
News of the Week.

The Kentucky Society of Florists held their March meeting at the store of our president, C. B. Thompson and a goodly number were in attendance. A committee composed of Anders Rasmussen, chairman, Fred Schulz, Jacob Schulz, Joseph Wettle and August R. Baumer, were appointed to revise the constitution and by-laws and bring them up to date.

Louisville is just now in the throes of a motorman and conductors' strike of the City Railway employees and in line with all other business enterprises, the florists are feeling the effects. Steussy & Son have opened a store on Market street above Preston. This is far outside of the boundary of all florists' stores and their venture is watched with interest.

Henry Huth, superintendent of St. Stephen's Cemetery, in connection with which he owned a greenhouse establishment for the growing of a general stock, died last week. Of a retiring disposition, he was not as well known as he should have been, for he was a true lover of plant life and an interesting conversationalist when he could be induced to talk. A. R. B.

NORFOLK, VA.—The contract for the landscape gardening around the Illinois State Building at the Jamestown Exposition has been awarded to the Newton Floral Company, of this city.

BOONE, IA.—Last week a fire in the Loehrer greenhouses was extinguished before much damage was done.

CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
 White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00.
 Bountiful. Per 100 \$2.75, per 1000 \$25.00.
 Enchantress. Per 100 \$2.00, per 1000 \$18.00.
 Book orders now. Quality guaranteed. If you don't like them we pay express both ways.
 Catalogue Free.

E. F. WINTERSON & CO. Wholesale Cut-flowers and Florists' Supplies
 45-47-49 Wabash Ave., Chicago, Ill.

CHAS. W. McKELLAR

Orchids
 FANCY VALLEY, ROSES, CARNATIONS,
 and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago

E. H. HUNT

The Old Reliable
 FOR
CUT FLOWERS AND SUPPLIES
 76-78 Wabash Avenue, CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of
and Dealers in Cut Flowers.
 All telegraph and telephone orders
 given prompt attention.
 Greenhouses: **35-37 Randolph St.,**
MORTON GROVE, ILL. CHICAGO.

Be your own Commission Man
 THE
FLOWER GROWERS' MARKET
 furnishes the facilities
 See **PERCY JONES, Mgr.**
60 Wabash Ave., CHICAGO.

THE BUSIEST HOUSE IN CHICAGO
J. B. DEAMUD CO.
 Wholesale Cut Flowers
51 Wabash Av., CHICAGO
 Consignments Solicited

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CUT FLOWERS
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51 Wabash Ave., CHICAGO

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RICHMOND, INDIANA



Chicago Rose Co.
 Rose Growers and Commission Handlers
 of Cut Flowers
FLORISTS' SUPPLIES
 Wire Work our Specialty.
56-58 Wabash Avenue, CHICAGO.

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CUT FLOWERS
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All Leading Varieties at
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PETER REINBERG
 Wholesale Cut Flowers
51 Wabash Ave., CHICAGO, ILL.
 Headquarters for American Beauty Rose

SINNER BROS.
 WHOLESALE CUT FLOWERS
60 Wabash Ave., Chicago.
 Careful attention to all
SHIPPING ORDERS.

VIOLET CULTURE
 Price, \$1.50 Postpaid
A. T. De La Mar Plg. & Pub. Co. Ltd., New York

ST. PAUL, MINN.
 Send us your Orders for delivery in the
 Northwest, which will have our best
 attention.
L. L. MAY & CO.,
Florists, St. Paul, Minn.

GEO. REINBERG
 Wholesale Grower of **Cut Flowers**
CHOICE AMERICAN BEAUTY ROSES
 We will take care of your orders at reasonable
 prices. Prompt attention.
35 Randolph Street, CHICAGO, ILL.

Wholesale Prices of Cut Flowers, Chicago, Mar. 19th, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES		American Beauty	
86-inch stems.....	per doz.	.....	to 6.00
80-inch stems.....	"	.....	to 5.00
74-inch stems.....	"	.....	to 3.00
70-inch stems.....	"	.....	to 2.00
18-inch stems.....	"	.....	to 1.50
12-inch stems.....	"	.....	to 1.00
8-inch stems and shorts	"	.....	to .75
Bride Maid, fancy special.....		8.00 to	10.00
" extra.....		5.00 to	6.00
" No. 1.....		.....	to 4.00
" No. 2.....		.....	to 3.00
Golden Gate.....		5.00 to	10.00
Uncle John.....		5.00 to	10.00
Liberty.....		5.00 to	10.00
Richmond.....		5.00 to	10.00
Killarney.....		5.00 to	10.00
" extra.....		12.00 to	15.00
Parle.....		5.00 to	10.00
Ohatseny.....		5.00 to	10.00
Callas.....		15.00 to	18.00
HYACINTHS, ROMAN.....		2.00 to	3.00
Narc. Single Yellow.....		1.00 to	2.00
Tulips, White.....		2.00 to	3.00
" Yellow.....		2.00 to	4.00
Mignonette.....		2.00 to	6.00
FORBET-ME-NOT.....		1.50 to	2.00

CARNATIONS			
STANDARD	White.....	1.00 to	2.00
VARLETTES	Pink.....	1.00 to	2.00
	Red.....	1.00 to	2.00
	Yellow & var.....	1.00 to	2.00
*FANCY	White.....	3.05 to	4.00
(The high-	Pink.....	3.00 to	4.00
est grades	Red.....	3.00 to	4.00
of Sta'd var.)	Yellow & var.....	3.00 to	4.00
NOVELTIES.....		.....	to
ADIANTUM.....		.75 to	1.00
ASPARAGUS, Plum & Ten.....		.35 to	.50
" single var., bunches.....		.35 to	.50
LILIES, Longhorn.....		12.00 to	18.00
HARRIS.....		12.00 to	18.00
Orchids—Oatleaves.....		.....	to 50.00
SMILAX.....		15.00 to	20.00
LILY OF THE VALLEY.....		2.00 to	4.00
VIOLETS.....		.25 to	.50
" single var.....		.35 to	.50
HARDY FERNS per 1000.....		2.50 to	3.00
GALAX.....		1.00 to	1.25
JONQUILS.....		2.00 to	3.00
FREESIA.....		2.00 to	4.00
SWEET PEAR.....		.50 to	1.50
SNAPDRAGON.....		6.00 to	8.00
		.....	to

A. L. RANDALL CO.
 Western Headquarters for
 Up-to-Date Florists' Supplies
 Write for Catalogue
No. 19 RANDOLPH ST., - CHICAGO.

HOLTON & HUNKEL CO.
 WHOLESALE FLORISTS
 and FLORISTS' SUPPLIES
 Manufacturers of WIRE DESIGNS
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WHOLESALE CUT FLOWERS
 and FLORISTS' SUPPLIES
C. C. Pollworth Co.
MILWAUKEE, WIS.

DAYTON, O.—J. B. Heiss, well known florist and president of the Dayton Florists' Club, and H. Haerlin, chief gardener at the Soldiers' Home, have tendered their services to the city in the formulation of plans for parks, drive-ways, boulevards, etc., in the general beautification of the city. Their offer will be submitted to Council at its next meeting. Both are men of long experience in landscape gardening, and their services will be invaluable to the city.

Chicago.
 Club News.
 The regular monthly meeting of the Florists' Club was held in Handel Hall on Thursday evening, March 14, with the officers of the association in their chairs and a fair representation of the membership in attendance. The routine business of the evening was executed, including the admission of four new members—T. E. Waters, J. T. Helbok, Van Zimmerman and A. C. Benson.
 The change in the by-laws, section 5, changing the annual election and installation of officers from the November and December meetings respectively to the months of December and January, was read and according to the rules laid over to the next meeting for action.
 In the absence of the speaker announced for the evening, and in justice to whom it may be said he accepted the invitation at the previous meeting conditionally owing to the exceedingly busy season just prior to Easter, the subject of "Easter Plants" was taken up for discussion by members from the floor, and for an hour or more quite a wide range was given to the discussion which covered plants and cut flowers and the prices which will rule for the coming festival. The discussion was participated in by Messrs Amling, McAdams, Schupp, Klimmer, Rudd, Euders, and President Bruns.
 Mr. Degnan introduced the subject of the green carnation and much merit and sound sense were evolved by the arguments which followed upon the commercial and the æsthetic and sentimental sides of the question.
 The members of the club were invited to participate in the ball to be given by the C. A. Samuelson employes on Saturday evening, April 6.

News of the Week.
 John Munro is intending to give up carnation culture and return a part of his range to growing vegetables after this season.
 E. Assa is having a serious time at the Columbus hospital with one of his eyes. After being confined to a dark room for the past three weeks there remains a probability of a continued stay there of four or more weeks with the dreaded possibility of losing the sight of the affected member.
 John Becker will continue to grow carnations and roses at the recently purchased Winandy houses and not devote himself entirely to vegetables as contemplated.
 Schroeder & Meyer of the Flower Growers' market are one of the few concerns growing the large white marguerite of recent introduction.
 B. Eschner, representing M. Rice & Company, of Philadelphia, passed through Chicago last week on his way home from a trip covering half the States of the Union.
 The explanation is out of the extraordinary breadth which for the past few days has pervaded the customary smile of Alex. Newett. It's a little girl.
 William Hartshorne was in from Joliet last week. His connection with the Chicago Carnation Company will be severed on the 31st inst.
 John Dekema of Jensen & Dekema, who went to the Pacific Coast last Fall in search of a more favorable climate, is engaged in landscape work, with which he is perfectly familiar, in Los Angeles, Cal., and it is stated by friends who have met him that he is in a wonderfully improved physical condition.
 A manufacturer reports that the sale of hot bed sash this Spring exceeds the entire output for the past three years.
 The many friends and former associates of L. W. Wheeler in this city, where he was formerly located, sympathize with him in his recent bereavement.
 Stollery Brothers report an unusually busy Spring, design work for different occasions having been a leading feature in their work.
 The man about town for the Record-Herald has been interviewing a Madison street florist and elicited the information that "Please omit flowers," is printed in one death notice in ten and with 30,000 deaths in Chicago last year caused an estimated loss to florists of not less than \$100,000.
 J. A. Budlong, in addition to his general fine line of stock, will offer next week a fine lot of well hardened lilies.
 Recent visitors included Lyman B. Crow of the Lord & Burnham Company and President Charles Armitage of Hitchings & Company; also George Sykes of the former concern, all of whom are interested in the quarter million greenhouse authorized for the parks of the West Side.
 The rapid progress of the cut flower, plant, supply, and kindred branches of business in this city is probably best evidenced, not by the unsubstantiated "say so" of the enthusiast, but by the never ceasing increase of glass area, the constantly elongated list of city establishments and the frequent acquisition of additional floor space and facilities by existing concerns. The latest move in the latter direction is of importance to the trade as it involves a departure somewhat from existing local conditions. E. F. Winterston having taken the lease of the street floor store above his present quarters, which with the existing balconies will considerably more than double his present available room, possession having been given on March 20, and, though subject to change in many directions, the present plans involve the incorporation of a stock company to be operated separately from the present cut flower and supply business and making specialties of plants, bulbs, and every requisite of the florist and gardener, amateur or professional, except the lines now handled by the E. F. Winterston Company, with the probability of absorbing the supply department of the latter. Plants of all descriptions and at all seasons will be one of the strong points in the new venture, which it is expected will be in full running order before Easter. The new department will be operated under the name of the Winterston's Seed Store.

E. F. WINTERSON CO.

45-49 WABASH AVENUE, CHICAGO.

COOL GROWN, WELL HARDENED

EASTER LILIES

PER HUNDRED \$15.00. PER THOUSAND \$150.00.

Write.

Telephone.

Telegraph.

WE HAVE THEM

Also the Fanciest Enchantress and other Carnations in the Chicago Market and a full Supply of Seasonable Cut Flowers.

WE ARE CONSISTENT WITH CHICAGO MARKET PRICES.

E. F. WINTERSON COMPANY, CHICAGO.

VIOLETS

We are acknowledged Western Headquarters for Double and Single Violets and at Easter We Shall Sustain Our Reputation.

We Have the Goods, and will be pleased to Supply you with Easter Lilies of Superb Quality at Market Prices.

LILIES

VAUGHAN & SPERRY, 58-60 WABASH AVENUE, Chicago

J. A. BUDLONG

Lilies (Cool Grown), Roses and Carnations
WRITE OR WIRE
37-39 Randolph Street, CHICAGO

The management of the Peter Reinberg salesroom take justifiable pride in the rose cut which arrives twice a day from their greenhouses, quality and quantity being combined this year for their Easter offerings to the trade.

The rose growers of this section are much pleased by the decision of the American Rose Society to hold its next annual meeting in this city, and a grand exhibition and generous increase in membership to the society are prophesied.

The E. F. Winterison Company had a large sale last week in St. Patrick's Day novelties leading off with the Ajax Emerald Dye which they manufacture. With an ample stock in sight Easter prospects are reported bright.

The Chicago lily growers have been hard at work the past few weeks and

though a number of plantmen will have but a partial crop for Easter others appear to have reason to expect nearly a full crop though high grade flowers and long stems will be comparatively scarce, so much so that advance orders for these lines are being booked at 13c. while 15c. is the general price asked for average stock. Other lines, with the probable exception of long stemmed American Beauty, will apparently be in sufficient supply to fill the demand, though it is evident that carnations will not be over abundant, as the heavy crop which has been deluging this market for the past few weeks is now on the decline.

Vaughan & Sperry have protected their trade by making large purchases of lilies, and their violet stock is guaranteed as to quality and quantity.

Sinner Brothers report that their

stock is coming on now in excellent shape with favorable prospects for Easter.

The A. L. Randall Company look sanguinely ahead at the Easter conflict as they have a good stock in sight, and if their recent orders on supplies are a criterion by which to gauge the demands on the cut flower department, busy days are coming.

W. P. Kyle, who was on the sick list last week, is on deck again at the old stand.

Wietor Brothers are confident of a representative first class crop in their specialties for next week.

Zech & Mann are looking forward with hopeful expectations to the results of next week's business.

E. H. Hunt is acting the good Samaritan in furnishing on application full particulars regarding Tobakine products.

As a product of 5,000 Japanese longiflorum bulbs potted and housed the last week in November, Ernst Weber, at his Lincoln avenue houses, can now show 4,000 pots in a very encouraging condition for Easter, the foliage being bright and clean, and the plants very even in height which though rather short for cutting are just right for potted stock, averaging about four to five flowers to the pot.

Anton Then returned last week from his extended visit to Alabama, much improved in health and generally delighted with his trip. It must have given him additional pleasure on his arrival to see the work "the boys" had accomplished in the lily houses, it now appearing that about 7,000 pots will be ready for Easter, a vast improvement having been made in the past two or three weeks.

S. S. PENNOCK-MEEHAN Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA,

STORE CLOSSES AT 8 P.M. 1608 to 1618 LUDLOW STREET

Easter Plants, Ribbons and Supplies

For Easter

Easter Lilies, cut flowers only \$15.00 and \$18.00 per 100.

Brunners, \$50.00 per 100.

Valley, \$1.00 per 100, a limited quantity of fancy grade at \$3.00 and \$6.00 per 100.

American Beauties, as fine as we ever offered at Easter.

Extra fine lot of Violets, both large singles and doubles.

Write for Easter price list.

A COMPLETE LINE OF PLANTS FOR EASTER

WRITE FOR LIST AND PRICES.

Open from 7 a. m. to 8 p. m.

THE LEO NIESSEN COMPANY,

1209 Arch Street, PHILADELPHIA, PA.

BEAUTIES
VIOLETS
LILIES

A FINE LOT JUST RIGHT FOR EASTER—IN ANY QUANTITY

PITTSBURG CUT FLOWER CO., LTD.

222 OLIVER AVENUE
PITTSBURG, PA.

WRITE FOR WIRE DESIGN CATALOGUE JUST ISSUED.

Wholesale Prices of Cut Flowers—Per 100

Boston Mar. 18, 1907	Buffalo Mar. 18, 1907	Detroit Mar. 4, 1907	Cincinnati Mar. 18, 1907	Baltimore Mar. 4, 1907	NAMES AND VARIETIES	Milwaukee Mar. 7, 1907	Philadelphia Mar. 4, 1907	Pittsburg Mar. 18, 1907	St. Louis Mar. 18, 1907
50.00 to 75.00	to 80.00	to 100.00	to	to	A. BEAUTY, fancy—special	to	75.00 to 90.00	40.00 to 50.00	40.00 to 50.00
40.00 to 50.00	to 50.00	to 80.00	to	to 25.00	" extra	to 25.00	50.00 to 60.00	to	35.00 to 40.00
20.00 to 40.00	to 70.00	to 70.00	to	12.50 to 20.00	" No. 1	15.00 to 18.00	25.00 to 40.00	to	10.00 to 25.00
to	20.00 to 30.00	to	to	5.00 to 8.00	" Culls and ordinary	4.00 to 8.00	5.00 to 15.00	to	4.00 to 8.00
3.00 to 10.00	8.00 to 10.00	6.00 to 15.00	to	8.00 to 5.00	BRIDE, "MAID, fancy-special	to	18.00 to 20.00	5.00 to 15.00	10.00 to 12.50
6.00 to 8.00	to 8.00	to 8.00	to	to 4.00	" extra	to	8.00 to 12.00	to	6.00 to 3.00
4.00 to 6.00	3.00 to 6.00	to	to	3.00 to 5.00	" No. 1	to	5.00 to 10.00	to	4.00 to 5.00
2.00 to 4.00	to	to	to	to 2.00	" No. 2	to	4.00 to 5.00	to	to 3.00
to	5.00 to 10.00	to	3.00 to 6.00	2.00 to 5.00	ROSES	4.00 to 8.00	6.00 to 15.00	to	3.00 to 8.00
to	to	to	to	3.00 to 5.00	GOLDEN GATE	4.00 to 8.00	to	to	to
to	5.00 to 20.00	to	to	3.00 to 5.00	K. A. VICTORIA	4.00 to 12.00	5.00 to 25.00	to	to
to	to	to	3.00 to 6.00	3.00 to 5.00	LIBERTY	to	to	to	to
to	5.00 to 8.00	to	to	2.00 to 4.00	METEOR	4.00 to 6.00	to	to	to
to	to	to	to	to	PERLE	to	to	4.00 to 8.00	3.00 to 6.00
to	to	to	to	to	ORCHIDS—Cattleyas	to	to	to	to
1.00 to 2.00	1.50 to 3.50	3.00 to 8.00	to	1.00 to 1.25	Interior grades, all colors	to	2.00 to 3.00	to	1.50 to 2.00
1.00 to 2.00	1.50 to 3.50	to	1.00 to 1.50	1.50 to 2.00	Standard	1.50 to 2.00	3.00 to 4.00	to	1.50 to 2.00
1.00 to 2.00	1.50 to 3.50	to	1.00 to 1.50	1.50 to 2.00	Varieties	to	3.00 to 4.00	to	1.50 to 2.00
2.00 to 4.00	to	to	2.00 to 3.00	2.50 to 3.00	White	3.00 to 4.00	3.00 to 4.00	to	3.00 to 4.00
2.00 to 4.00	to	to	2.00 to 3.00	2.50 to 3.00	Red	3.00 to 4.00	4.00 to 6.00	to	4.00 to 3.00
2.00 to 4.00	to	to	2.00 to 3.00	2.50 to 3.00	Yellow and var	3.00 to 4.00	6.00 to 2.00	to	4.00 to 3.00
2.00 to 4.00	to	to	2.00 to 3.00	2.50 to 3.00	Fancy	3.00 to 4.00	4.00 to 6.00	to	4.00 to 3.00
2.00 to 4.00	to	to	2.00 to 3.00	2.50 to 3.00	Varieties	3.00 to 4.00	4.00 to 6.00	to	4.00 to 3.00
2.00 to 4.00	to	to	2.00 to 3.00	2.50 to 3.00	L. Novelties	to	to	to	to 3.50
.75 to 1.00	1.00 to 1.50	to	to	to 1.00	ADIANTUM	to	1.00 to 1.50	to	1.50 to 2.00
to 50.00	40.00 to 50.00	25.00 to 60.00	to 50.00	25.00 to 50.00	ASPARAGUS, Plum. and Ten	20.00 to 30.00	50.00 to 75.00	30.00 to 50.00	25.00 to 40.00
to 10.00	20.00 to 30.00	to 30.00	to 35.00	25.00 to 50.00	" Sprenger, bunches	20.00 to 30.00	50.00 to 75.00	to	25.00 to 75.00
to 12.50	10.00 to 12.50	to 15.00	to 10.00	6.00 to 10.00	CALLAS	10.00 to 12.50	12.50 to 15.00	10.00 to 15.00	10.00 to 12.50
to 12.50	10.00 to 15.00	to 15.00	to 10.00	15.00 to 12.50	DAISIES	to 7.50	1.50 to 3.00	to	to
to 12.50	10.00 to 15.00	to 15.00	to 10.00	15.00 to 12.50	LILIES	15.00 to 18.00	10.00 to 15.00	15.00 to 18.00	to
2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00	4.00 to 4.00	LILY OF THE VALLEY	2.00 to 3.00	2.00 to 5.00	2.00 to 4.00	2.00 to 3.00
2.00 to 4.00	to 4.00	to 15.00	to	to	MIGNONETTE, ordinary	2.00 to 3.00	3.00 to 6.00	to	4.00 to 5.00
3.00 to 5.00	to	to	to	to	" fancy	to 4.00	to 8.00	4.00 to 6.00	to 6.00
12.00 to 15.00	15.00 to 20.00	12.50 to 15.00	to 15.00	to 20.00	SMILAX	to 20.00	15.00 to 20.00	15.00 to 20.00	to 15.00
.35 to .50	to	1.00 to 2.50	to .50	to .50	VIOLETS, ordinary	to .50	.50 to 1.00	to	.15 to .20
to	.50 to .75	to	to	to .60	" fancy	to .75	.75 to 1.25	.50 to 1.00	.25 to .35

H. G. BERNING

Wholesale Florist
1402 Pine Street, ST. LOUIS, MO.

BERGER BROS.

WHOLESALE FLORISTS
No. 1305 Fibert St., Philadelphia
Bell and Keystone Phones

Sixty thousand square feet of glass and a capable working force under the direction of Otto Wittbold, the youngest of the five sons, who with the father constitute the Geo. Wittbold Company, latticed sheds for Summer use, several acres of available nursery stock and a long row of frames, constitute the foundation of the productive department of this well known and long established concern. Decorative plants have always been a leading specialty and though large quantities of salable and stock plants are always kept as well as produced at the Buckingham Place range it is at the Edgebrook houses that the propagating, maturing to commercial size, as well as the resuscitating of large decorative plants that have suffered to a greater or less extent from the effects of a season's campaign, are all carried on. Feeling the necessity of larger accommodations than it was possible to obtain in the now thickly settled section where the older establishment is located, about thirty acres of land were purchased in Edgebrook just outside the city limits, and though six years ago, when the improvements were commenced, the whole area was a dense, interwoven, virgin growth, a large part of it is today, as mentioned above, in a highly improved productive state and every season adds in some form to the good showing already made. Palms in variety, ferns in many sorts, Asparagus plumosus and Sprenger, each in numerous sizes, dracenas and rubbers are just at present much in evidence, and it is here too that many of the carnations and roses for the retail department are grown as well as large quantities of bedding plants.

WM. K. WOOD.

BOSTON, MASS.

Asparagus Plumosus
Mignonette
Lil. Harnish
Brides, 'Maids
American Beauties

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PROPRIETORS
CITY HALL CUT FLOWER MARKET
226 Devonshire Street.

Kaiserin
Carnots
Orchids
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Carnations
Violets

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6287 and 6285

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PHILADELPHIA CUT FLOWER CO.
Wholesale Florists
1516-18 SANSON STREET
High Grade Cut Flowers
Open Evenings until 8.

Headquarters in
WESTERN NEW YORK
For Roses,
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And all kinds of Seasonable Flowers.

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Wholesale Commission Florist
Also dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St. BUFFALO, N. Y.
Give us a trial. We can please you.

THE AMERICAN GARNATION
Price \$3.50
A. T. DE LA MARE PTG & PUB CO. LTD.
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METROPOLITAN MATERIAL CO.

1398-1408 METROPOLITAN AVE., BROOKLYN, N. Y.

BARGAIN HEADQUARTERS

Greenhouse Wreckers and Jobbers

WE OFFER FOR SPOT CASH

Glass

NEW AMERICAN, 50 sq. ft. to the Box.
 12x12 single at\$1.00 12x14—12x16—12x20—
 12x12 single at 2.00 14x14 double.....\$2.85
 12x12—10x15 double..... 2.65 16x16—16x18 double..... 3 00
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Hotbed Sash

New Cypress, 3 ft. by 6 ft., from 80c. up; glazed, complete, from \$1.60 up. Second-hand in good condition, all glass in, at \$1.25 and \$1.00 each. We handle these sash with all size glass.

Garden Hose

New 3/4 in., guaranteed 9c., and 1 1/2 c., per foot; This quality hose is sold in many places at much higher prices.

Cypress Material

New air-dried 1 3/4 x 2 1/4 drip bars, 2 1/2 c. ft.; 2x4 ridge or wallplate, 5c. ft.; 2x6 ridge or wallplate, 8c. ft. 1 1/2 in. ventilating sash 6c. sq. ft.

Pumps

Rider Ericsson. Second hand from \$40.00 up; all repairs; other makes; new; cheap. These pumps are known throughout the country. We guarantee our pumps to be in working order before they leave our shop.

Boilers

No. 6 Weathered, round, \$60.00. One 8 section Sunray hot water sectional boiler, grate 3 by 3. Price \$150.00. New Henderson boilers; send for price on size wanted. One No. 367 Lord & Burnham hot water boiler, 7 sections, 36 in. grate, heat, 8,000 sq. ft. of glass, used one season, price \$150.00, guaranteed.

Pipe

Good serviceable second-hand, with threads; 2 inch, 7c.; 1 1/2 inch 5 1/2 c.; 1 1/4 inch, 4c.; 1 inch, 3c.; 2 1/2 inch, 10c.; 3 inch, 14c.; 4 inch, 19c. New 2 inch standard, full lengths, with couplings 10c. foot. We always sell good pipe. We do not handle junk.

Stocks and Dies

New Economy, best made. No. 1 threads 1/4 inch, 3/8 inch, 1 inch pipe, \$3.00. No. 2 threads 1 1/4 inch, 1 1/2 inch, 2 inch pipe, \$4.00. These stocks and dies are noted for their easy working manner.

Pipe Cutters

New Saunders Pattern. No. 1 cuts 1/2 in., 1 in. pipe, \$1.00. No. 2 cuts 1 inch, 2 inch pipe, \$1.30. We can also furnish these cutters to cut 3 inch and 4 inch pipe.

Stillson Wrenches

New 18 in. grips 1/4 in. 2 in., pipe, \$1.65. 24 in. grips 1/4 in., 2 1/2 in. pipe, \$2.40. 36 in. grips 1/2 in., 3 1/2 in. pipe, \$4.75. These wrenches are made by the Walworth Co. and are known for their strength.

Pipe Vises

New No. 1, Hinged, grips 1/8 inch, 2 inch pipe, \$1.75

Ventilating Apparatus

This is the best vise on the market.

Lifting Powers, \$3.50 and \$8.50 each. Arms, 35c. each. Hangers, 13c. Old Shafting, 5c. foot.

We carry a large stock of Pipe Fittings and Valves 4 in. Cast Iron or all sizes in Wrought Iron. WE CUT PIPE TO SKETCH.

Get Our Prices on Putty, Points, Paint, White Lead, Bench Material, Etc.

REFERENCES: Dun, Bradstreet, Broadway Bank of Brooklyn.

Davenport, Ia.

An Annual Banquet.
 The first annual banquet of the Tri-City Florists' Association was held March 11 at Turner Hall. Nearly every member of the society was present and the affair was a success in every way. The table decorations were among the most elaborate ever seen in the city.

Theodore Ewoldt acted as toastmaster for the evening and a wide variety of topics were discussed in the toasts. Among them were the propositions of organizing a tri-city horticultural society and giving an annual flower show. No action was taken on any of the matters talked of, however. Mr. Ewoldt gave the opening talk on the subject, "Should the Club hold an Annual Flower Show?"

The other talks were as follows:
 "The Organization of a Tri-City Horticultural Society"—J. T. Temple.
 "Funeral Work"—William Knees.
 "Efficient Florists' Help"—Henry Meyer.

"Store Decoration"—Harry Bills.
 "Greenhouse Construction"—John Staack.
 "General Plant Trade"—Henry Gaethje, Sr.

"Cemetery Trade"—H. G. Panli.
 "Carnation Growing"—Ludwig Stapp.
 "Influence of Parks on the Florists' Trade"—C. O. E. Boehm.

"Has Our Club Furthered a Feeling of Friendship and Goodfellowship among Its Members?"—George Farber.
 "Delivering Florists' Stock"—Henry Gaethje, Jr.

"Nursery Stock"—H. G. Bryant.
 "Private Grounds"—Elmer Ekstam and Peter Becker.

"Decorative Plants"—Frank Waelz.
 "Landscape Architecture, Its Effect on the Florists' Trade"—A. Arp.

The next meeting of the club will be held March 21 instead of March 14, at Fejervary Park. At the April meeting the wives of the members will be present.

BRIDGEWATER, MASS.—Mrs. John J. Johnson of Main street, wife of the well known florist, died March 10, 1907, after a short illness, aged about 45 years. She was a prominent member of Trinity Church, and was an earnest worker in the Woman's Guild.

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 Send Us Your Lists or Sketches. Get Our Estimates Now
NEW ILLUSTRATED CATALOG

Use Carefully Selected All-Heart **CYPRESS**
 SEASONED AND SUN-DRIED. CUT EXACT SIZE AND FIT
 Prompt Shipment. Lowest Figure
ONLY THE BEST

THE FOLEY VENTILATING APPARATUS
 Is unsurpassed. Adaptable to any size of house
 Perfect ventilation. Works easy. Send for circular
HOTBED SASH AND FRAMES
 Open or Glazed; standard sizes in stock
 SEND FOR PRICES. QUICK SHIPMENT

GREENHOUSE MATERIALS

NEW FACTORY AT
 WESTERN AVE. AND 26th ST.
 CALL AND SEE US



FOLEY MFG. CO.'S UP-TO-DATE NEW FACTORY BUILDINGS WITH POWER HOUSES, LUMBER SHEDS AND YARDS OCCUPY NEARLY 3 ACRES

WACO, TEXAS.—The Floral Society has just elected the following officers: J. D. Shaw, president; Mrs. P. R. Hengst, first vice-president; Mrs. John L. Enbank, second vice-president; Mrs. George Stubblefield, recording secretary; Mrs. D. A. Kelly, financial secretary; L. Migel, treasurer. The organization is in good condition.

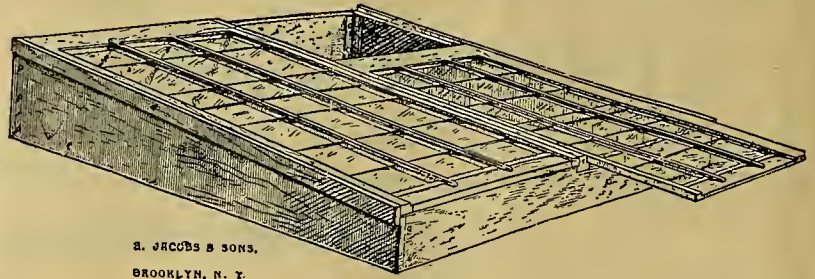
TERRYVILLE, CONN.—Edward W. Fenn, the florist, has been ill for three months with liver complaint. He is able to be about, but can do no work. Clarence, his son, the market gardener, has had the grip. Stephen Fenn, the father of Edward, was taken with a chill. He is 84 years old.

Hall Notes.

The Florists' Hall Association received the first reports of hail for the year 1907 last week. Those having glass broken were George Corbett, Henry Cor-Gray of College Hill, Ohio, and Mrs. E. H. Martin of Shelbyville, Ind. JOHN G. ESLER.



Clear Gulf Cypress
**GREENHOUSE
MATERIAL**

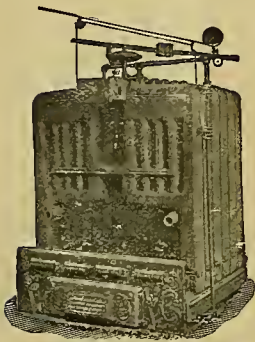


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BROOKLYN, N. Y.

**HOT BED SASH
BOILERS, PIPE, FITTINGS**

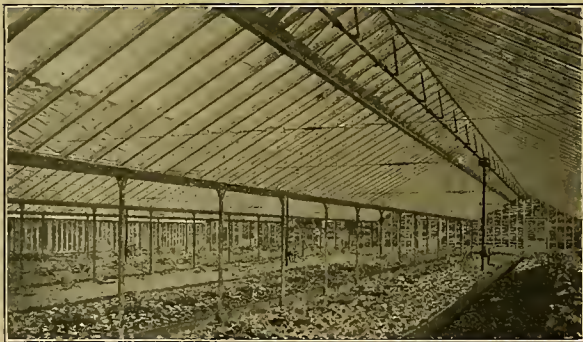
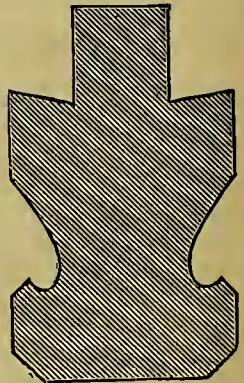
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Everything Furnished for the Complete
Erection of Horticultural Buildings



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1365-1379 FLUSHING AVENUE



Inside View of the Dietsch Patent Short Roof Construction

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Louisiana Cypress,
Washington Red Cedar,
And Iron.

FOR MODERN AND RELIABLE HOUSES

A combination of wood and iron, using each material where it will answer the purpose most effectively.

**Ice Clearing Angle Iron Wall Plates
That Will Clear The Ice**

A. DIETSCH CO., 615 Sheffield Ave., CHICAGO

STANDARD FLOWER POTS

Packed in small crates, easy to handle

	Price per crate		Price per crate
1600 2 1/2 in. pots in crate,	\$4.38	120 7 in. pots in crate,	\$4.00
1800 2 3/4 " " "	5.25	60 8 " " "	8.00
1600 3 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate,	\$3.60
800 3 1/2 " " "	5.80	24 11 " " "	4.80
600 4 " " "	4.50	24 12 " " "	4.80
620 5 " " "	4.61	12 14 " " "	4.80
144 6 " " "	3.16	6 18 " " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Rokler & Sons, Agts., 81 Barclay St., N. Y. City

GREENHOUSE GLASS

10x12	12x12	12x14	12x16	12x18	14x18	14x20	16x18	16x20	16x24
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C. S. WEBER & Co.,
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For Greenhouses, Graperies, Hot beds, Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.

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Holds Glass Firmly

See the Point of PEERLESS

Glazing Points are the best. No rickles or leaks. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER,
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IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MACMULKIN,
194 BOYLSTON ST., BOSTON, MASS.

A Bowling Contest.

On Thursday evening, March 14, the first game of a series of three, in a tri-city contest for a loving cup donated by the Baltimore Bowling Club, was played on the Rathskeller alleys in Washington, the local club being the victors. The scores were as under:

WASHINGTON

Cooke	169	161	155
Shafer	161	158	188
Simmonds	157	168	151
McLennan	150	155	194
Ernest	122	201	166

BALTIMORE

Richmond	144	157	173
Lehr	172	183	137
Boone	136	166	154
Moss	115	125	201
Seybold	178	169	163

PHILADELPHIA

Graham	169	147	155
Dodds	147	161	176
Schocks	144	131	159
Kift	138	155	133
Connor	159	204	174

After the game a social hour was spent with song, speech and story. The next game will be played in Philadelphia on March 21; and the final in Baltimore, date to be selected.

Red Bank, N. J.

The regular meeting of the Monmouth County Horticultural Society was held on Friday evening, March 15, President Kennedy in the chair. Two new members were elected. On March 13 a return bowling match was played between the Monmouth County Gardeners, and the Elberon Society. The contest proved a close one, Monmouth County winning.

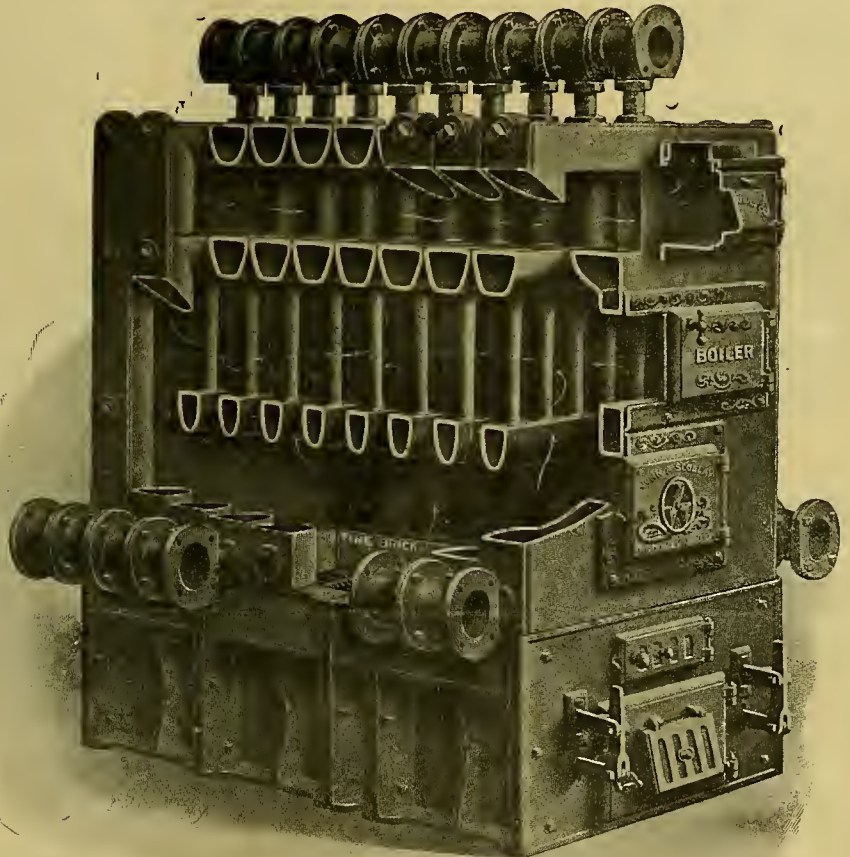
SPRINGFIELD, ILL.—A florists' club has been organized here, and the following officers elected: President, A. C. Brown; vice-president, G. M. Brinkerhoff; secretary, G. W. Jack; treasurer, George Van Horn. A committee was appointed to draft by-laws, and to secure a suitable meeting place for the State Florists' Association, which meets here next February.

SCOLLAY BOILERS

HOT WATER AND STEAM

6 Patterns, Made in 60 Various Sizes
Capacities 150 to 10,000 Square Feet Heating Surface

- Cast Iron Greenhouse Pipe
- Special Cast Iron Greenhouse Pipe Fittings
- Expansion Tanks, Stop Valves, etc.
- Wrought Iron Pipe and Fittings of all Sizes
- Brass Valves of any Description
- Full Line of Engineers' Supplies, Tools, etc.



Lincoln Ave., Jamaica, L. I.
Mr. John A. Scollay,
72-76 Myrtle Ave.,
Brooklyn, N. Y.

My dear Sir:—

I take great pleasure in writing you that your No. 5 Boiler, which has only now given out, has been in use in my greenhouses thirty-two years. This I consider a long time for a boiler to last. The original grates were the only ones used during the thirty-two years. I have also at present twelve boilers of your make, which are giving perfect satisfaction.

Yours very truly,
Abraham Van Sicklan.
Feb. 21, 1906.

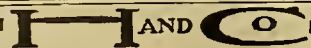
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LONG DISTANCE TELEPHONE, 1492-1493 MAIN



We Argue That You

can't afford to own an All Cypress House—it costs too much—the repairs eat too deeply into your profits. There's nothing new in our argument, but it's surprising why a man owning houses with end bar rot and half gone eave plates will keep on putting up another and another such constructed house, when our Half Iron Frame Houses are so good, so practical, so much cheaper in the end. We want you to know exactly what is included in our Half Iron Frame House—to-morrow you'll be busy, so write to-day and we'll tell you all about it.

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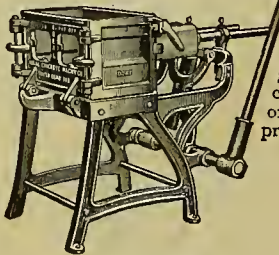
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Manufacturers of Heating and Ventilating Apparatus.

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FROST-PROOF ECONOMY

Ideal Hollow Concrete Block construction will protect your greenhouse from frost and secure greatest economy in fuel. The illustration of hollow block explains its resistance to frost. With the Ideal Concrete Machine you can yourself make these blocks from sand, gravel and cement at little cost—far below the cost of brick, stone or lumber. Ideal Blocks not only give frost protection, but are absolutely frost-proof, and effect a perpetual saving in insurance.



IDEAL Concrete Machines

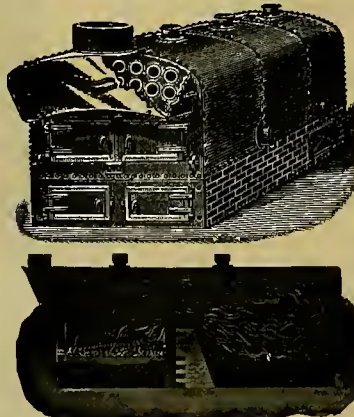
May be operated by any man without previous experience. The process of making blocks is simple as making mortar. Blocks for every building purpose, with plain, tooled, ornamental face or natural stone effect made with the same machine. Simple, durable and adaptable to any size block within capacity. Our catalogue will show you how to secure frost protection and fuel economy, as well as initial saving over cost of other materials. Write for it and it is freely yours.

IDEAL CONCRETE MACHINERY CO., Dept. Z, South Bend, Ind.

MUSSENS, Limited, Montreal, Canada, Sole Agents for Canada.

KROESCHELL BROS. CO. IMPROVED

Greenhouse Boiler
33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information.

FRANK VAN ASSCHE
Formerly Supt. for Weathered GREENHOUSE BUILDER

Private or Commercial. Iron or Wood.
Factory and Yards: Fulton and Rose Ave. and Dwight St., Jersey City, N. J.

SUMMER IN WINTER

BY USING
Standard Greenhouse Boilers
One cent gets our catalog.
GIBLIN & CO., UTICA, N. Y.

WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses
Greenhouse Heating and Ventilating Apparatus.
P. O. Address, Box 789, New York City.



A TORONTO, N. Y. TORONTO, ONT.
KING CONSTRUCTION CO.
GREENHOUSE CONSTRUCTION AND EQUIPMENT
WRITE FOR CATALOGUE AND PRICES

Columbus, O.

News Notes.

William Graff of Graff Brothers has returned from a three weeks' pleasure and business trip to Chicago; and brings with him as his guest N. J. Wieter of Wieter Brothers.

The peddlers have been, during the past three weeks, more numerous than ever before, selling carnations down to 25c. a dozen.

Another competitor for the cut flower trade has entered the field here. The Columbus Drug Company has opened a floral department, and is already advertising and pushing hard for the Easter orders.

C. V. Heikes and L. M. Gregg, of C. V. Heikes & Company, Troy, Ohio, are in the city taking orders for ornamental nursery stock planting.

At a recent meeting of the Pleasant Ridge Improvement Association, it was voted that this society recommend Norway maples for street planting in this city.

James McKellar and wife are both confined to the house, and quite sick with the prevailing grip. Mr. McKellar is much missed at Graff Brothers, and it is hoped that he will be out in time for the firm's Easter trade.

The appropriation of the Government for the support of our state agricultural college will be increased by an additional \$5,000, each year, until the present income of \$25,000 reaches \$50,000 yearly.

Easter lilies will be a very short item here: Harris' look the best, but I should say on the average that half the plantings were diseased.

The incorporation of the American Mutual Pottery Company of Columbus, with a capital of \$100,000 means that within a short time the plant of the Columbus Pottery Company, which was partly destroyed by fire some time ago and which then went into the hands of a trustee in a bankruptcy litigation, will be rebuilt and operated.

More than ever before did "green carnations" sell in large quantities here for St. Patrick's Day, at 10c. each; in fact, both Graff Brothers and The Livingston Seed Co. advertised them freely, as well as others in the trade.

Preparations are all made for a great Easter. All we need is good weather. F. W.

COLUMBUS, O.—The Washtenaw Garden Company, which is controlled by Columbus men and managed by Herb Kelley, will build two large storage houses this Summer on its property in Michigan. Mr. Kelley will leave next week to arrange for the construction work. The houses will have a capacity of 200 cars, and when complete the company will be in a position to make shipments throughout the Winter months. The company cultivates all kinds of vegetables and several varieties of fruits.

PEORIA, ILL.—The stork recently visited the homes of Edgar Miller and Charles Loveridge, florists, bringing a boy in each case.

Are You Contemplating Building ?

IF so, now is the time to take up this important question. It is only to your own interests to let me figure on your requirements.

YOUR work will be designed and erected by practical mechanics.

YOU will be satisfied in figures as well as results. **Y**OU can have testimonials of hundreds of satisfied patrons, in all parts of the country, by writing us.

WILLIAM H. LUTTON

West Side Ave. Station, JERSEY CITY, N. J.

Tel. 412 R. Bergen. EVERYTHING FOR HEATING AND VENTILATING

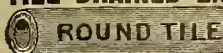
THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

DILLER, CASKEY & KEEN.

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

TILE DRAINED LAND IS MORE PRODUCTIVE



Earliest and easiest worked. Carries off surplus water; admits air to the soil; increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipes, Red and Fire Brick, Chimney Tops, Eucalyptic Side Walk Tile, etc. Write for what you want and prices. JOHN H. JACKSON, 50 Third Ave., Albany, N. Y.



THE U-Bar
Trade Mark
is a trade mark
that means some-
thing. It repre-
sents a section of the U-
Bar itself. It stands not
only for the lightest form
of construction yet con-
ceived to use in green-
houses, but the most
durable. It's the only
construction having
curved eaves. The glass
is always spaced 24 inches.
Send for catalog. Pier-
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Bar Greenhouses, Met-
ropolitan Building, 4th
Ave., and 23d St., New
York.

THE U-Bar Trade Mark is a trade mark that means something. It represents a section of the U-Bar itself. It stands not only for the lightest form of construction yet conceived to use in greenhouses, but the most durable. It's the only construction having curved eaves. The glass is always spaced 24 inches. Send for catalog. Pier-son U-Bar Co., Design-ers and Builders of U-Bar Greenhouses, Met-ropolitan Building, 4th Ave., and 23d St., New York.



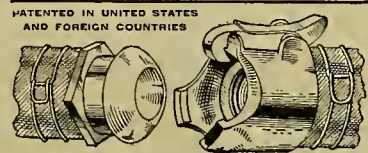
I Manufacture and Erect

Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your require-ments.

JOHN A. PAYNE

Horticultural Architect and Builder
33 Clendenny Ave., Jersey City, N. J.
Sash opening apparatus and all kinds of
greenhouse structural material.



A solid brass casting, made as shown or threaded to fit ordinary hose couplers and faucets. Hose can be coupled and uncoupled in any position with one hand. The washers are stationary and will last years. A half minute saved every time you change hose.

\$3.00 per doz. sets, two pieces.
\$2.25 per dozen females for faucets.

Discount on gross lots.

EMIL GLAUBER,
MONTCLAIR, COLO.



The STANDARD VENTILATING MACHINERY

The original machine with self oiling cups; the most powerful, least complicated very compact, with ease of operation.

The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market.

The standard Return Steam Trap has no equal for simplicity or its work-ings. Catalogue free. 6

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Evans Improved Challenge
Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
Write for catalogue and prices before placing your orders else-where.
QUAKER CITY MACHINE CO.
RICHMOND, IND.

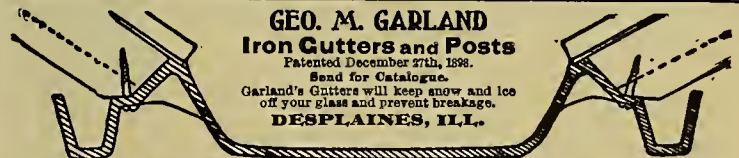
**STANDARD
Pumping Engines**
Are always ready to run. They save you the trouble and expense of getting up steam in the summer.
The Standard Pump & Engine Co.
CLEVELAND, O.

YOU SHOULD TEST YOUR MATERIAL TOO

No matter how much it was tested by the firm you bought it of. You want a house that's going to stay with you and not eat up all the profits for repairs in the first few years. You can easily tell whether the house has been properly tested or not by the way the material lasts. You don't care about preliminary tests before shipping if you find that your house is full of shade and that the one you bought last year of the other party produces more and better plants. Your test as to the amount of stock you can get from the house is all right and every-body should know just how much they get out of every house. This is a test that our houses meet in compar-ison with any other construction you put against them—it's a matter of **dollars** and **sense** all the way through. You want a common sensed house that will produce profits. Send for one of our little booklets of a "1000 IDEAS," enclosing ten cents in stamps it is merely one of the details showing the thorough way in which we handle this matter.

Then there's a new catalog coming soon—send for one now so you will get it at once when issued.

JOHN G. MONINGER COMPANY
CHICAGO
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GEO. M. GARLAND
Iron Gutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at Chicago Flower Growers' Market

GOING TO Build a Greenhouse?

Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.

The A. T. STEARNS LUMBER CO.
Boston, Mass.

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THE ECONOMY OF SETTING BOILERS IN BATTERY.

BY THE BOILER MAN

THIS method of securing additional boiler economy is appreciated by many growers to-day. They plan their heating plant as carefully as the wide-awake manufacturer in building a factory. His first attention is given to placing the boilers in the most central position for economy of power distribution and saving of labor. He connects his boilers so one or all can be run according to the factory's demands. He runs no more grate surface than required to generate desired power—he always has full power at command when wanted. For many years we have been inducing the up-to-date florists to follow exactly the same principle with their plant factories. The building of houses each with its separate boiler and cellar is a thing of the past. Here and there you will still find a man with a moderate sized range of houses, running one big boiler with its big grate to constantly keep fire on—no matter what the weather is. He starts up that immense thing in the early Fall and has to keep it going in the late Spring; about two-thirds of the time he is using twice as much grate surface as he needs. The ideal way is to set "Burnham" boilers



Get it out of your mind that setting boilers in battery requires complicated piping. This battery of two replaced one large tubular boiler in a greenhouse at Allegheny, Pa.



Boilers with these socket connections are intended for shallow cellars requiring low flow pipe connections

in one cellar and connect them in batteries of two, three or four, as the case may require. In the early Fall or Spring, *one* boiler will be enough to take off the chill from all your houses; during moderate weather, *two* can be run; in the coldest, *three or more*. You are saved all that time in going the rounds to fire the numerous boilers; neither do you fire an immense grate for mild, moderate and severe weather alike. Boilers in Batteries mean not only just the amount of heat you need and no more—but a tremendous saving in coal and labor. It has been shown that this "Burnham" Battery System of ours has saved about 25% over other methods.

So much for Batteries—now a word concerning the "Burnham" itself. It's made especially for greenhouse work and it works as no other boiler works—not only a matter of coal economy, but time economy. It's quickly fired, quickly cleaned and harnesses up more heat from less coal than any greenhouse boiler made. We stand ready to prove that statement up, and can show you that it gives equal returns with hard coal, soft coal or coke. *Get to know the "Burnham" and do it now.*

Lord & Burnham Co., Greenhouse Designers and Manufacturers, 1133 Broadway, corner 26th St., New York. Boston Branch, 819 Tremont Building. Philadelphia Branch, 1235 Filbert St.



THE BURNHAM FIRING LINE

FLORISTS' EXCHANGE

THE
G. E. Stone
March Export Sta.
4-09

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

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

Vol. XXIII. No. 13

NEW YORK AND CHICAGO, MARCH 30, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise, for the present, late March delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time do-

ing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR. We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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



SAMPLES OF MY

Grafted Stock

Richmond, Killarney, Wellesley, Liberty, Bride, Bridesmaid, Kaiserin, Carnot, Bon Silene, Safrano and Mrs. Oliver Ames

In excellent condition and ready to shift. Sample and prices sent on application

W. H. ELLIOTT, Brighton, Mass.

Tuberose



First Size, 4 to 6 inch Write for Prices
Medium Size, 3 to 4 inch

Gladiolus

	Per 100	1000
Mrs. Francis King	\$4.50	\$40.00
Augusta	2.50	20.00
Mey	1.75	14.00
Shakespeare	3.75	35.00
Vaughan's XXX Florists' Mixture	1.75	15.00
Seedling Mixture, fine	1.50	12.00

Caladiums

Sound Bulbs; Live Center Shoots. At N. Y.

	Per 100	Write for Prices
5 to 7 inches in circumference.....	\$1.80	12.60
7 to 9 inches in circumference.....	3.15	
9 to 12 inches in circumference.....	10.00	
2 inches and up.....	5.40	

Lilies

Aursum	Write for Prices
Rubrum	
Album	

Sheep Manure, Bone Meal, Cane Stakes, Sphagnum Moss, Insecticides. Soot, Horn Shavings, Etc.



Canna King Humbert! Get it!

VAUGHAN'S "BOOK FOR FLORISTS." IS INDISPENSABLE.

Vaughan's Seed Store

14 BARCLAY ST., NEW YORK Tel. 1576 Cortlandt

CHICAGO, 84 Randolph St. Greenhouses, Western Springs

Miscellaneous Plants

	100	1000		100	1000
Alternantheras, six varieties	\$2.00	\$18.00	Dahlia Roots, Mixed.....	\$4.00	
Ageratum, Stella Gurney and Dwarf White.....	2.00	18.00	Dahlia Roots, Single mixed, from Twentieth Century.....	6.00	
Ageratum, Inimitable ...	3.00	25.00	Hardy English Ivy	2.00	\$17.50
Begonias, Vernon and Gracilis	2.00	18.00	Hollyhock, 3-in. pots, double white and mixed	3.00	25.00
Cannas, 3-in. pots, 12 varieties	4.00	35.00	Phlox, Hardy, 10 varietlee	3.00	
Caladiums, Esculentum	2.00		Lobelia, Crystal Palace Gem.....	2.00	
Cuphea, Cigar Plant.....	2.00	18.00	Lemon Verbena, Aloysia Citriodora.....	2.00	18.00
Geraniums, Ivy, Caesar Franck	20.00		Petunias, Dreer's Superb, single fringed.....	2.00	18.00
Geraniums, Ivy, Mrs. Banks	3.00		Parlor Ivy, Senecio Scandens	2.00	18.00
Geraniums, Ivy Zonal, Alliance	20.00		Swainsona, Alba, fine stock	2.00	18.00
Geraniums, Cactus, 4 varieties	10.00		Verbena, Large flowering, separate colors.....	2.00	18.00
Geraniums, Sycamore.....	15.00		Verbena, Large flowering, mixed.....	1.50	15.00
Hardy Chrysanthemums Small flowering or Button	2.00	18.00	Water Lilies, Nymphaea Odorata Gigantea, strong roots	3.00	
Hardy Chrysanthemums Large flowering or Aster	3.00	25.00			
Dahlia Roots, Named varieties.....	6.00				

CASH WITH ORDER.

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

"You've Got TO GET FRESH SEED TO INSURE SUCCESS"



- Asters Queen of the Market.....tr. pkt. 15c., oz. 50c.
- Asparagus Plumosus Nanus.....1000 seeds 75c.
- Sprengeri.....1000 seeds 75c.
- Begonia Vernon, Mixed.....pkt. 25c., oz. \$2.00
- Belle Perennia, double.....trade pkt. 25c.
- Candytuft Empress.....per oz. 20c.
- Centauria Gymnocarpa.....per oz. 35c.
- Golden Feather, dwarf selected.....per oz. 40c.
- Lobelia Crystal Palace Compacta.....trade pkt. 25c.
- Potunia, grand superb fringed, mixed,.....tr. pkt., \$1.00.
- Phlox, chryse mixed.....per oz. 40c.
- Dwarf.....per oz. \$1.25
- Salvia Bonifra.....per oz. \$2.50
- Stocks, Ten Week, dwarf, large flowering, mixed, trade pkt. 25c.
- Verbena Mammoth white.....trade pkt. 15c.
- acriset.....trade pkt. 10c.

BULBS

- Caedajum, Medium.....\$3.00 per 100
- Large.....\$12.00 per 100
- Tuberosee, 4 to 6 inches.....\$3.00 per 1000
- Valley Clumps, Extra large.....\$15.00 per 100
- Gloxinas, Mixed.....\$4.00 per 100
- Separate Colors.....6.00 per 100
- Begonias, Single, mixed.....2.50 per 100
- Double.....6.00 per 100

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

RAWSON'S ASTERS

are just a little superior to anybody else's

The product of our seeds can always demand a better price than those grown from seeds obtained elsewhere. The following is an extract from a letter received last fall from a most critical grower:

"Your Midsummer Aster has been a great money-maker for me. For every flower that I have brought into the Boston Market I have received from \$1.00 to \$1.50 per hundred more than for any other variety raised from seeds purchased elsewhere." J. W. Simpson.

Delicate Shell Pink and Bright Rose at \$2.00 per oz.; 60c. per 1/4 oz.

RAWSON'S LATE BRANCHING: in White, Shell Pink, Rose Pink, Light Blue, Dark Blue, Scarlet and Crimson at \$1.00 per oz.; 30c. per 1/4 oz.

No Florist knows what *fresh* Aster seed means unless he has tried "RAWSON'S SEED." The crop of Aster seed has been extremely short last season and it is advisable to buy at once.

RAWSON'S TWO GREAT QUALITY ASTERS

RAWSON'S NEW MIDSUMMER: in White, Delicate Lavender,

W. W. RAWSON & CO.
5 UNION STREET, BOSTON, MASS.

P. S. We are now Sole Distributors for Boston for Curman's Antipest, if you wish to know what it is, send for a circular.



Thorburn's Seeds

Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.

New crop flower seeds are mostly all on hand now, and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

COLD STORAGE

Lily of the Valley Pips

BEST POSSIBLE GRADE

1000 in case, @ \$12.00 per 1000.

J. M. THORBURN & CO.
33 Barclay St., through to
38 Park Place, New York.

TRUE STOCK

Aquilegia Coerulea

Rocky Mountain Columbine

From the Rockies

SEED—1 oz. \$1.00; 1/2 lb., \$3.50; 1 lb. \$12.00 by mail.
ROOTS—4 and 5 year old, doz. \$1.25; 100 \$3.00, by express.

Order from headquarters.

THE BARTELDES SEED CO., DENVER COLO.

SOW NOW and SAVE TROUBLE

In making cuttings, the Real Dwarf Ageratium Mex. Blue Star, Tr. Pkt., 25c.; 6 Tr. Pkts., \$1.25. My Wholesale Catalogue will guide you to Reliable Flower Seeds. Ask for same.

O. V. ZANGEN, Seedsman, HOBOKEN, N. J.

New Crop Seed

ASPARAGUS PLUMOSUS NANUS
(Greenhouse Grown), 1000 seeds, \$4.00.

ASPARAGUS SPRENGERI, 100 seeds, 15c., 1000 seeds, 75c.

Choice Canna Tubers

25 Varieties, \$17.00, \$19.00, \$22.00 and \$24.00 per 1000.

W. C. BECKERT, Allegheny, Pa.

ASTER SEED

Our descriptive price list of High Grade Aster Seed is now ready and will be sent free on application. Try our new varieties: **CARDINAL, SUNSET and ROSY CARMINE BRANCHING**; they are winners. Price per packet, 25c.; two packets for 40c. Pointers on how to grow **ASTERS** successfully sent free with every order.

VICK & HILL CO.

P. O. Box 613 ROCHESTER, N. Y.

BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

ASPARAGUS PLUMOSUS NANUS

(Greenhouse Grown) FINE PLUMP SEED

\$5.00 per 1000

ESTABLISHED 1824

Bridgeman's Seed Warehouse

Rickards Bros., Props.

37 EAST 19TH ST. Near Broadway NEW YORK CITY

Telephone: 4225 Gramercy

CENTRAL PARK LAWN SEED

PINT PACKAGES 75c. per doz.; \$5.00 per 100
QUART " \$1.50 " 10.00 "

Fine lithographed cartons with signs and cultural directions.

Stump & Walter Co.

50 Barclay St. New York

LEONARD SEED CO.

Growers and Wholesalers of Superior Garden Seeds

Seedsmen and Florists Supplied at the shortest notice and at right prices. Our Catalogues are now ready and are mailed upon request.

Flower Seeds—Onion Sets 79 East Kiozle St. 145 W. Randolph St. CHICAGO

LAWN GRASS SEED

in Bulk and Packages

Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO

NEW STOCKS

FLOWER SEEDS FOR FLORISTS

Wholesale Catalog Ready

Send for it today. But first read our advertisement on page 126 in the Florists' Exchange for January 28th, 1907. It is worth reading.

JAMES VICK'S SONS

Seedsmen

ROCHESTER, N. Y.

TREE SEEDS

Send to-day for our Trade Price List and our Illustrated, Descriptive Catalog Otto Katzenstein & Co., Atlanta, Ga

W. & D.'s Specialties for Forcing

Mignonette "New York Market" Sweet Peas "True" Christmas Flowering (Pink and White) Tomato "The Do" Tomato "Strling Castle" Mushroom Spaw "English" and "Pure Culture" Send for 1907 Catalogue.

WEEBER & DON, Seed Merchants and Growers 114 Chambers Street, NEW YORK

C. C. Morse & Co.

SEED GROWERS

171-173 Clay St., San Francisco, Cal. ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES Warehouse, Santa Clara. Farms and Farm Headquarters, Camadero, near Gilroy

If you have not received our florist list write us; we will mail it.

H. E. FISKE SEED CO.,

12 & 13 Faneuil Hall Sq.

BOSTON, MASS.

Onion Sets AT RIGHT PRICES

VAUGHAN'S SEED STORE, 14 Barclay St., N. Y.

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

Gladiolus America

is becoming more popular every day. The flowers being delicate pink with lavender tinge, are BEAUTIFUL and USEFUL.

Strong bulbs, \$10.00 per 100, \$75.00 per 1000.

Other "Top Notch" Varieties

ATTRACTION. Deep, dark, rich crimson with a very conspicuous large white center and throat. At once a most beautiful and attractive sort. \$15.00 per 100.

CARDINAL. Perfect flower and spike, very large and the brightest, cleanest and most intense cardinal scarlet yet seen. Very rich and showy. \$10.00 per 100.

CONTRAST. Flowers of great substance and a beautiful compact spike of perfect form. Color intense scarlet with a large, distinct white center which is neither tinted nor mottled. One of the most striking and beautiful Gladiolus ever introduced. \$12.00 per 100.

IRENE. Fine large flower and spike. Color a fine shade of pink freely flaked bright crimson. \$10.00 per 100.

MELROSE. White flaked pink, bright crimson center. Very large and fine. \$15.00 per 100.

OCTOORON. A beautiful salmon-pink; very distinct. A gem of its color. You will not be disappointed in Octooron. \$4.00 per 100.

Special offer: 25 bulbs each of above seven varieties for \$18.00.

JOHN LEWIS CHILDS

FLORAL PARK, N. Y.

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,

Successors to L. K. PEACOCK, Inc. ATCO N. J.



Lambert's Pure Culture Mushroom Spaw. Produced by new grafting process from selected and prolific specimens, thoroughly acclimated. Has never failed to run. Sold by Leading Seedsmen. Practical instructions on "Mushroom Culture" mailed free on application. American Spaw Co. St. Paul, Minn.

JOHNSON'S HIGH-GRADE ASTER SEED FOR FLORISTS

Table listing various Aster seed varieties such as Queen of the Market, Choice mixed, and Mignon, with prices per 100 and per 1,000.

SWEET LARGE FLOWERING PEAS

Johnson's Rainbow Mixture, comprising the finest up-to-date sorts, per 1/4 lb. 20c; per lb. 50c; per 5 lbs. \$2.00.

JOHNSON SEED COMPANY, 217 Market St., Philadelphia, Pa. Herbert W. Johnson, of the late firm of Johnson & Stokes, president.

Look at our ad. March 16th All for the Season. H. H. BERGER & CO. 47 BARCLAY STREET, NEW YORK

East Bridgewater Dahlia Gardens Not only has the largest, but the finest collection of up-to-date DAHLIAS, of any firm in America.

GLADIOLI Beautifully illustrated catalog, colored plate, etc., describing GROFF'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors.

S. M. ISBELL & CO. JACKSON, MICH. Seed Growers for the Trade BEANS, CUCUMBER, TOMATO, Radish, Peas, Muskmelon, Squash, Watermelon, Sweet Corn.

Gladioli—NOTHING BETTER ANYWHERE. Cannas—VERY BEST SORTS. Carnations—THE MONEY MAKERS. Paeonias—1200 sorts, finest sorts in liberal supply.

To The Trade Just issued—our special price list giving our position on ONION SEED We shall send this to the Trade, being unable to make the personal visit contemplated.

CANNAS Sound roots, 2 to 3 eyes, true to name. Allemania, 4 ft., scarlet and yellow. \$1.25 \$10.00. Burbank, 5 ft., yellow. 1.25 10.00.

DAHLIAS AND THE DAHLIA MANUAL An illustrated up-to-date work covering the whole field of Dahlia Culture. Price 35c. W. W. WILMORE Dahlia Specialist, Box 382, DENVER, COLO.

Send for Wholesale Trade List

Azalea Amœna, cheap, 600,000 Herbaceous Plants, Wichuraiana Hybrids, 2 yr. \$5.00 per 100. Elizabeth NURSERY COMPANY, Elizabeth, N. J.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

IMPORTS OF SEED, ETC.—March 16 and 17—James E. Ward & Company, 54 bags of seed; A. Olsen, 198 bags clover seed; John Scheepers & Company, 18 cases lily of the valley pips; Stallman & Fulton Company, 47 bushels roots; McHutchison & Company, five cases live trees; E. Hoenecke, eight bushels roots.

TOMATO INVESTIGATIONS is the subject of Bulletin Number 113, just issued by the Maryland Agricultural Station, College Park, Md. It treats upon testing varieties, culture, training and spraying. DALLAS, TEX.—The movement of field and garden seeds is the heaviest ever known, in the month in February, in the history of the city.

March 20—Maltus & Ware, seven bushels live plants; C. L. Hirsch & Company, 40 bushels roots; Stallman & Fulton Company, 47 bushels seed; Hensel, Burckmann & Lorbacher, one case live plants.

CHICAGO—Notwithstanding strong intimations of short lines which have been more or less prevalent for some months, the season is now in full blast with a full supply of everything on hand, and no scarcity of anything in sight or anticipated.

March 23 and 24—Brown Brothers & Company, 300 bushels bamboo seed; J. L. Hopkins & Company, 16 bushels seed; Murray & Nickell Manufacturing Company, eight casks roots, 183 casks seed; A. Olsen, 73 bags clover seed.

SEED INSPECTION.—The Maine Agricultural Experiment Station is now mailing bulletin 138, containing analyses of samples of grass and other seeds collected by the inspector and analyzed by the Station in 1906.

EXPORTS OF SEEDS, ETC.—March 16—Shipped from New York to Hamburg, 282 bags clover seed, valued at \$3,381; 553 bags grass seed, valued at \$853; nine packages seed, valued at \$359.

This is the second bulletin that has been issued since the law providing for the inspection of seeds was enacted. The bulletin states that no prosecutions were made on the two-fold ground that in most instances the dealers were ignorant of the requirements of the law, and that they themselves were imposed upon when they made their purchases.

European Notes. The clerk of the weather sandwiched one of the most severe frosts of the year between the prevailing mugginess of the present week as a gentle reminder that we are not yet out of the woods.

cially the Scotch or Aberdeen varieties, are moving off freely and parcels of high germinating quality easily command very high prices. Coming events cast their shadows before and in face of the very short acreage now standing for seed it is evident that much of the seed now being sold is bought to hold over and that there is every probability of high prices being obtained next year.

It has been pointed out in this column on a previous occasion that the demand for flower seeds is a fair index to the condition of trade; it is therefore not surprising to find the record year followed by an extraordinary demand for seeds of the choicest and best strains of florists' flowers, while the demand for cheaper and more popular kinds easily beats the record. As the board of trade returns for the present year up to date show a still further increase the prospects for next season are equally good.

The Laxton firm has a new pea for next season's distribution and if the size of the seed is any criterion as to its merits it will easily beat the Daisy class out of the field. And for this a sincere tribute of gratitude will be rendered by
EUROPEAN SEEDS.

It would be an easy matter to kill these fungi in the grounds by the application of a good dose of Carbolineum or similar disinfectant, but experience has shown that the cure is worse than the disease, because it will make it impossible to grow any crops whatever on grounds thus disinfected for many years afterwards. The only practical plan therefore is to lift out any of the affected bulbs at the earliest possible date in the Spring, together with the surrounding soil, taking great care that nothing is being spilled and have it all carefully destroyed by burning. If this process is however not done with very great care, it had better not be done at all, as the slightest spilling of any of the infected ground will cause more spreading and more infection.

The foregoing suggestions are based upon the results of our own trials so far, but may be improved upon in the future as experience will teach us. The fact that there are two distinct forms of fungi, which however cause almost similar results, may as well be left alone for the present, especially as sometimes the two diseases are mixed up together and thus make distinction difficult.—POLMAN-MOOY in Horticultural Advertiser.

FLORISTS' SPRING WANTS
Cannas, Phlox, etc.

CANNAS
Burbank, Mlle. Berat, Robusta, large 2-ye. pieces, \$1.75 per 100; \$15.00 per 1000.
Pennsylvania, the best tall, scarlet bedder, \$2.00 per 100; \$17.50 per 1000.
Muscelolia, the grandest of all ornamental, bronze-leaved bedders, growing 8 ft. high and has large, light bronze, Banana-like foliage. Extra strong pieces, \$3.00 per 100; \$25.00 per 1000.
The Express, strong, started pieces of this best, dwarf, crimson bedder; fine for immediate potting, \$5.00 per 100; \$40.00 per 1000.
ELADY PHLOX, The Queen, the best florists' phlox, growing 3 ft. high and producing large, full heads of pure white flowers. Will net a large profit from first crop. Large field divisions, 75c. per doz.; \$5.00 per 100.
TRITOMA, Uvaria Grandiflora, Large 1 yr., field pieces, \$5.00 per 100.

Send for Catalogue quoting numerous other desirable Phlox, Cannas, Chrysanthemums and other florists' stock.

NATHAN SMITH & SON, Adrian, Mich.

THE WIDE AWAKE FLORIST

will write at once for our catalog of Roses, Shrubs and all kinds of plants for Florists' use. Write today, it's free. We have one order for this Spring's shipment of five hundred and eighty-five thousand Rose plants, and we can still fill your orders.

THE GOOD & REESE CO.
The Largest Rose Growers in the World.
SPRINGFIELD, OHIO

SUMMER BULBS
ORDER TO-DAY WHILE THE STOCK IS LARGE AND FINE.
BEGONIAS

SINGLE		DOUBLE	
Doz.	100	Doz.	1000
Crimson	\$.40	\$2.75	\$23.50
Orange	.40	2.75	23.50
Scarlet	.40	2.75	23.50
Pink	.40	2.75	23.50
White	.40	2.75	23.50
Yellow	.40	2.75	23.50
Mixed	.35	2.50	22.00

GLADIOLUS		HARDY LILIES	
Fine large size		Sound	
Doz.	100	Doz.	1000
Augusta, Pure white	\$.45	\$3.00	\$23.00
Bachlyensis, Scarlet	.25	1.25	11.00
May, White and Crimson	.30	1.75	15.00
Pink and Variegated	.25	1.25	12.00
Scarlet and Crimson	.30	1.00	9.00
Striped	.30	2.00	18.00
White and Light	.25	1.75	15.00
Yellow	.35	2.50	24.00

Send for our General Catalog, also Florists' Wholesale List.

HENRY F. MICHELL CO. 1018 Market St., PHILADELPHIA, PA.

Summer Flowering Bulbs

TUBEROUS ROOTED BEGONIAS		DOUBLE LARGE FLOWERING	
Separate colors, fine	bulbs—	Separate colors, fine	bulbs—
Per doz.	\$ 0 35	Per doz.	\$ 0 55
Per 100	2 25	Per 100	4 00
Per 1000	22 00	Per 1000	37 00

JAPANESE LILIES		FERN BALLS	
Per doz.	100	Each	Doz.
Auratum, 8 to 9 in.	\$0 70	\$4 50	100
Album, 8 to 9 in.	1 00	7 00	100
Rubrum, 8 to 9 in.	0 75	5 50	100
Melpomene, 8 to 9 in.	0 75	6 00	100

DOUBLE HERBACEOUS PAEONIES	
(Splendid roots, 2 to 5 eyes).	
Per doz.	\$1.25; per 100, \$8.00.

NEW CROP ASPARAGUS PLUMOSUS NANUS. Fine new crop, sure to germinate. Extra Quality—Per 100, 50c.; per 1000, \$3.50; per 5000, \$15.00

Let me book your order now. Write me for special advance prices.
CALLA BULBS
Stokes Seed Store
219 MARKET ST., PHILADELPHIA.

CATALOGUES RECEIVED.

VAN HEININGER BROTHERS & COMPANY, Boskoop, Holland.—Catalogue of Azaleas, Conifers, Evergreens, Bay Trees, etc.
EDMUND D. STURTEVANT, Hollywood, Cal.—Illustrated Catalogue of Water Lilies, including lists of New and Rare varieties.

JOSIAH YOUNG, Troy, N. Y.—Illustrated Catalogue of Vegetable and Flower Seeds, Hardy Roses, Small Fruits, Supplies, etc.

AUG. GRAVEREAU, Neauphle le Chateau, France (H. Beaulieu, Woodhaven, N. Y., agent). Catalogue of Gladiolus. Printed in French.

THE RIVERSIDE NURSERY, Confluence, Pa.—List of Hardy Pennsylvania Rhododendrons, Kalmias, etc., also surplus list of Fruit Trees.

ANDORRA NURSERIES, Chestnut Hill, Philadelphia, Pa.—Price List of Specimen Trees, Shrubs, Roses and Fruits. An interesting and complete list.

ISAAC HICKS & SON, Westbury Station, N. Y.—A handsomely illustrated Catalogue of Nursery Stock, Hardy Garden Flowers, Fruits, etc.; also of the Hicks Patent Tree Movers.

ROBERT C. REEVES COMPANY, New York.—Descriptive Catalogue of Agricultural and Horticultural Implements and Machinery, Garden, Field and Flower Seeds, Fertilizers, etc.

LEONARD SEED COMPANY, Chicago, Ill.—Illustrated Circular concerning the Barker Weeder and Mulcher, a device endorsed by all who have used it.

DAVID HERBERT & SON, Atco, N. J.—Descriptive Catalogue of Dahlias, handsomely illustrated, with complete lists of novelties and standard sorts in all the classes.

PETER HENDERSON & COMPANY, New York.—Everything for the Lawn, Lawn Formation and Care; a very useful and interesting catalogue, profusely and beautifully illustrated.

CENTRAL SEED & BULB COMPANY, Chicago.—Illustrated Catalogue of Seeds, Bulbs, Plants, etc. E. S. Thompson of this firm has been working on the new "Peony-flowered" Dahlias for three years, and some of the results of his efforts are now offered.

SAMUEL C. MOON, Morrisville, Pa.—Catalogue of Ornamental Trees, Shrubs, Hardy Perennials, etc. Handsomely illustrated, with full descriptions of the subjects enumerated. The Japanese barberry and Picea excelsa inverte have been selected as cover illustrations.

MEEHAN'S MANUAL OF OUTDOOR PLANTS, Spring 1907. Thomas Meehan & Sons, Inc., Germantown, Philadelphia, Pa.—This is the 44th edition of this useful catalogue, the contents of which conform to the title given. Very comprehensive lists of outdoor plants are enumerated, and cultural hints furnished. The catalogue is profusely illustrated with half-tone engravings, and colored plates of Meehan's Mallow Marvels, and Meehan's Improved Variegated-leaved Althea are included. Very attractive covers, showing in color foliage of the red fern-leaved Japanese Maple and the blood-leaved variety complete a most serviceable catalogue.

47,960 Low-Budded Roses in 26 varieties

being the entire surplus of the Heikes-Billos stock. Delivery February—from my cellar here. No. 1 at \$95.00 per 1000. No. 1/2 at \$85.00 per 1000. Privat cuttings \$1.25 per 1000—10,000 for \$10.00. Correspondence promptly answered.

HIRAM T. JONES, Union County Nurseries Elizabeth, N. J.

LARGE TREES OAKS AND MAPLES PINES AND HEMLOCKS ANDORRA NURSERIES
WM. WABNER HARPEL, PROPRIETOR
Chestnut Hill, Philadelphia, Pa.

Roses! Cannas! Violets!

Roses. We have in stock upward of 1000 different varieties, comprising some of the very latest European varieties, as well as all the leading varieties of American origin. Stock from 2 1/2 and 4 and 5 in. pots, all on own roots. Ask for catalogue varieties. \$1.00 per Cannas. 1000 and upward. Write for list and prices. Louisiana Canna \$3.00 per 100.

Violets. Lady Hanne Campbell, Princess of Wales, Swanley White, Admiral Avellan and Luxonne, nice strong plants, from 2 1/2 in. pots, \$3.50 per 100; \$30.00 per 1000. Clematis Paniculata, two-year-old field-grown stock, strong plants, per 100 \$7.00, per 1000, \$65.00. Cissus Discolor, nice plants, from 2 1/2 inch pots, per 100, \$4.00. Cyperus Gracilis, from 2 1/2 in. pots, per 100 \$2.00. Weeping Lantana, from 2 1/2 inch pots, per 100, \$3.50. Viburnum Plicatum and a complete list of hardy shrubs, vines and miscellaneous plants of all kinds. Send us your list for prices. Ask for Catalogue—it's free. Address

THE DINGEE & CONARD CO., Rose Growers, WEST GROVE, PA.
Established 1850. 70 Greenhousesa.

A Box Car

WILL HOLD 10 TO 15,000 CALIFORNIA PRIVET
I will pack them in car at reduced prices.
California Privet, 3 to 4 ft., \$4.00 per 100; \$20.00 per 1000; 4 to 5 ft., \$5.00 per 100; \$25.00 per 1000; 5 to 6 ft., \$6.00 per 100; \$30.00 per 1000; Standard Privet, 5 ft. high, fine shaped heads, \$7.00 per 100; \$30.00 per 1000; Bush Privet, heard round, 4 to 5 ft. high; 3 to 4 ft. in diameter, \$7.00 per 100; \$30.00 per 1000.
American Elm, fine trees, 12 ft., \$30.00 per 100; \$250.00 per 1000.
Horse Chestnut, 2 to 2 1/2 caliper, 10 ft. high \$3.00 per 100; \$75.00 per 1000.
Horse Chestnut, specimen trees, 3 to 4 Caliper, 12 ft. high, \$20.00 per 100; \$125.00 per 1000.
European Linden, 2 to 2 1/2 caliper, 12 to 14 ft. high, \$10.00 per 100; \$60.00 per 1000.
Spirea Hillardii, 3 1/2 to 4 ft., \$1.00 per 100; \$8.00 per 1000.
Althea, in variety, 4 to 6 ft., \$1.00 per 100; \$8.00 per 1000.
Yucca Filamentosa, large, blooming plants, \$5.00 per 100; \$30.00 per 1000.
Dahlia, large clumps, fine assortment, \$5.00 per 100; \$40.00 per 1000.

CARLMAN RIBSAM, TRENTON, N. J

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

NEW NURSERY LAW FOR MINNESOTA.—A new bill regulating the production and sale of nursery stock in Minnesota has been introduced into the State Legislature by E. T. White of Elk River, Minn. It provides among other things for two inspections by the State Entomologist during the year.

All companies or corporations engaged in the nursery business in the state shall annually apply to the Secretary of State, the fee to be fifty dollars for each annual license, together with an additional fee of one dollar for recording the application, and the said license must be secured before said nursery or nurseries dispose of trees, shrubbery, vines, etc., of said nursery, and before the Secretary of State shall issue such license the State Entomologist must first issue his certificate that said nursery or nurseries is free from the said San Jose scale or other plant insectious diseases.

Trees, etc., imported into Minnesota from another State shall, before offered for sale, bear a tag or tags announcing where the stock was first grown; and the advertising of nursery stock grown in a foreign State as "home grown," is declared a misdemeanor. Transplanted stock must be so marked. The inspection of railroad cars is provided for, and it is stipulated that

Whoever wilfully misrepresents nursery stock, such as plants, trees, shrubbery, etc., when disposing of the same, shall be deemed guilty of a misdemeanor, and each nursery shall keep on hand file in their office an exact copy of all orders delivered, and furnish to each buyer a duplicate of the same at the time the nursery stock is delivered to said buyer, and the Statute of Limitation is hereby extended to the period of five years in its application of this act.

All owners of nurseries for the growing and sale of plants, trees, shrubbery, etc., shall be held responsible for the representation of their agents, and for all debts contracted by them as such agents.

All foreign corporations, persons or companies, doing nursery business in this State, are hereby required to comply with the provisions of Section 2888, 2889 and 2890 of the Revised Laws of Minnesota for 1905, and in addition to file a list of all agents, solicitors, etc., with the Secretary of State and to secure a license for each for which the Secretary of State may charge a fee of One Dollar.

This act shall take effect and be in force from and after its passage.

Horticultural Notes.

Desmodium penduliflorum was long ago decided by Dr. Hooker to be *Lespedeza bicolor*. But it obtained such wide popularity under the name *desmodium* that even to this day it is catalogued as such in many lists. Although herbaceous, its strong growth admits of its being planted as a shrub.

Among roses with handsome berries in Autumn and early Winter *Rosa villosa* should not be overlooked. It sets fruit freely, and the pods are large and handsome. But few collections have it aside from botanical ones.

Our scrub oak, *Quercus ilicifolia*, found in many parts of our country, is used in France as a game cover, its dwarf, bushy growth fitting it well for such a purpose. As it is usually found in Southern New Jersey it is a bush of from 4 to 6 feet in height.

The Doyenne Boussock pear is noted in Europe for its handsome Fall foliage. With us the Kieffer is famous in the same way, as is its parent, the Chinese sand pear.

Bald cypress, *Taxodium distichum*, furnishes the greater number of the shingles with us, but in the Pacific States the redwood, *Sequoia sempervirens*, takes its place. The tree grows so large that thousands of shingles are made from one tree.

Standard gooseberries have been tried several times here, but they do not thrive well. The sun strikes them too strongly, even when in bush shape, for our native sorts prefer a little shade in Summer, as the European varieties are known to do.

Fuchsias planted in a shady place, such as the eastern side of a house would be, do well in Summer, flowering the whole season through. They but need plenty of room to root and to be well supplied with moisture, then bloom is continuous, as they keep on growing. They can be stored in any cold cellar for the Winter.

In treeless regions where some fast-growing tree is required for fire wood, the plane could be better planted than the Carolina poplar or the ashleaved maple. It grows fast, and its hard wood is better for firing than that of either of the others. It is of no use for any other purpose, soon decaying when exposed to the weather.

Shrubs with Bright-Colored Wood.

Though the Winter season, particularly near its close, there are several shrubs the shoots of which are so pretty that they are now sometimes met out in masses for display, and they could be used still more to great advantage. Particular reference is made to the two willows, *Salix vitellina* and *S. Britzensis* and to the red-tipped dogwood, *Cornus alba*. Wherever a mass of color is wanted in the Winter season these shrubs will give it. All are different in color. The *Salix vitellina* has yellow-colored wood, the *S. Britzensis* flame-colored, and the *Cornus alba*, blood red. Wherever Winters can be enjoyed outdoors the use of these colored twigged shrubs would add to the interest of a place. They are seen now often as single specimens on lawns, and as such they are pretty; but when in groups of a dozen or a hundred each, as some use them, the bright colored ones make a dazzling display. The three sorts, with their orange, red and yellow colors, could be used as a combination group.

It is the shoots of the same season's growth that produce the best color effect, and to get an abundance of these new growths a good pruning in Winter or early Spring should be done.



Meehan's Mallow Marvels

Nurserymen find these subjects propagate freely from hard wood cuttings. The pruned back shrubs afford a good lot of shoots for the purpose. Kept in damp sand until planting time and then set out in nursery rows, they root freely, making nice plants by Fall.

Almost everyone is acquainted with the mallow of our marshes and other damp situations, the *Hibiscus moscheutos*, for although a lover of damp ground it thrives so well in any ordinary situation that it can be found in almost all collections of herbaceous perennials.

Swamp-Loving Trees.

It is a mistake to think that trees usually found in swamps or low ground will not grow in a higher position. Planters do not often make this mistake, but others do. On the other hand, writers have declared that such trees grow better on drier ground, and this seems as much a mistake on the other side. The writer's own experience is, that such trees are entirely satisfactory in ordinary situations, but that the best growth is made when the ground is very damp, such as low ground along a creek is, usually. Where they grow wild, say in Delaware, the *Acer rubrum*, *Chionanthus virginica* and *Magnolia glauca* may be found wild side by side in swampy woods, so wet in fact that care to pick one's way has to be exercised even in Summer, so much water would be there. These trees were all flourishing, but no more than they would be were they on ground a few feet elevated. Some writers contend that the trees are only found in such locations from chances having favored their vegetation there; but be this as it may, they are better suited there than when in a situation the very opposite of it—a very dry one.

Landscape gardeners generally plant these and other

trees wherever the kind seems to fit in well, which is wise; nevertheless it is well to remember that swamp trees and shrubs are better suited where moisture at the roots is abundant than where opposite conditions prevail.

There is no doubt, however, that there is much truth in the saying that they are found in swampy ground because such situations favor the germination of seeds. Seeds of red maple, red birch, elm and others blowing from trees to damp ground will vegetate, while had they blown to dry ground they would not. The nurseryman may succeed with them on dry ground because he covers them with soil, to give them the required moisture.

The fact is, that with a fair supply of moisture and fair soil a tree will grow well whether in its natural state it is found in low ground or not. Even the bald cypress, a swamp tree, will do this.

Pigmy Oaks.

Pigmy trees are of such interest that it would seem worth while for some nurseryman to secure and propagate the pigmy form of the Black Jack oak, *Quercus nigra*, which botanists tell us exists in the woods near Millville, N. J. The usual height of the oak is 30 to 40 feet, but the pigmy ones referred to have been observed of no more than from 2 to 6 feet, the very dwarfest of them bearing acorns. The *Quercus nigra* is a beautiful tree at all times, especially in Summer when clothed with its large shining green leaves.

A note in the Botanical Gazette describes a forest of dwarf trees found upon the west coast of Vancouver Island, British Columbia. The little trees are of three kinds—*Thuja gigantea*, *Tsuga Mertensiana* and *Picea sitchensis* and range in height from less than one foot up to two feet or a little more.

No doubt soil and situation have had to do with the dwarfing of these trees, still the character would be so fixed that even in favorable situations for growth great variation from old forms would not be looked for some time.

Meehan's Mallow Marvels.

In Meehan's nurseries, Germantown, Philadelphia, experiments have been going on for some years looking to the production of this hibiscus in various colors other than its natural one, which is a rose color, the chief idea in mind being to obtain a hardy crimson-flowered one by hybridizing it with the crimson one of a tropical clime. This idea of thus improving this flower was first suggested by the late Thomas Meehan, and his suggestion interested one of his employees, Ernest Hemming, and to him is due the credit for obtaining the beautiful hybrids which have resulted from the crossing, the firm giving him a free hand to produce and grow the thousands of seedlings from which the plants now selected as the best were taken.

It has been a task of several years to reach what seems like a wellnigh perfection of results at the present day. Year after year, when the beds of plants would be in flower, they attracted great attention. There would be all colors from pink to crimson; but all the time but a very few of the best were saved, with which to continue further crossing. At the present time four sorts have been selected as eminently worthy of dissemination; they have been named Crimson Marvel, White Marvel, Red Marvel and Pink Marvel, and the firm is confident it has in them a great surprise for the horticultural world.

Although the *Hibiscus moscheutos* is one of the parents, the sorts selected do not have the same style of growth. There is not a rank, coarse, open growth, but rather a taller, more branching habit, of much more pleasing appearance than that of *H. moscheutos*; and although a height of from 6 to 9 feet is made in good soil the growth is always well able to take care of itself in stems.

The extreme hardiness of these lovely mallows cannot be too clearly emphasized. They are absolutely hardy wherever *H. moscheutos* is hardy, and this is equivalent to saying practically all over the Northern States. Being entirely of a herbaceous perennial nature they, like other plants of a like character, exist farther north than might be the case were they of a shrubby perennial nature.

These mallows, like their parents, are tenacious of life. In Spring, after severe Winters, some of the seedlings have been thrown to the top of the ground by frost, yet have not failed to grow when reset; and in this respect they surprise those not aware that the hibiscuses are known to transplant well.

Hibiscus plants start into growth very late, always, often not before the close of April.

The best situation for hibiscus is an open sunny one, where the ground is deep and moist. Planted in such a place there will be a display of their large handsome flowers—some of them 7 to 8 inches in diameter—through August and September.

Those intending to visit the Jamestown exposition will have an opportunity of seeing the plants, it being the intention of the firm to make an exhibit of them there. To others the illustration accompanying these notes will convey an idea of the appearance of the flowers and foliage.

JOSEPH MEEHAN.

Flowering Magnolia
Althæas
Spiræa Van Houtte
Tamarix
Pyramidal Tree Box 4 1/2 ft.
Tartarian Honeysuckle
Barberry Thunbergii

Nursery Stock for Florists' Trade

General List

Fruit and Ornamental Trees, Roses, Shrubs, Clematis, Hedge Plants

Write for our Spring Wholesale Trade List

W. & T. Smith Co. 61 Years' Experience 600 Acres Geneva, N. Y.

Crimson Rambler
Baby Rambler
General Jack Rose
Lilac Chas. X
Lilac, Purple and White
Lilac, Rubra de Marley
Deutzia Gracilis

10,000 American Arborvitæ

(THUYA OCCIDENTALIS.)

Each tree grown wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arbor vitæ will.

Table with 3 columns: Size, Per 10, Per 100. Rows for 3-4 ft. and 4-5 ft. sizes.

Prices for dealers only. Packing additional at cost. 25 or more at the rate per 100. Send to us for Ornamental Nursery Stock of all Kinds.

The WM. H. MOON CO., Morrisville, Pa.

GRAND NEW CANNAS

William Saunders

The flowers are large, of splendid form, and are born very freely in immense clusters. The color is a deep rich shining scarlet lightly dappled with crimson.

Ottawa

is a strong grower, very robust and 5 to 6 feet high. The flowers are large and beautifully formed, color is carmine with tints of old rose and deep coral.

New York

Has the Orchid type of flower. They have much more substance than the flowers of the other varieties of this class, and will stand the hot sunshine as well as the toughest varieties of cannas.

Send for our list and prices of 60 other leading varieties of cannas.

ROSES

Are our great specialty, 2 and 4 in. not plants we have in great variety. Tea, Hybrid Tea and H. P. Roses on their own roots.

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in variety. Viburnum Plicatum, Spiræa, Althæa, Deutzias, Weigela, Barberry Thunbergii, Hydrangea Pan. Grandiflora, Honeysuckles, etc.

Send for our Price Lists. THE CONARD & JONES CO., WEST GROVE, PA.

ROSES

American Beauty, Clothilde Soupert, Gloire de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Duschke, Crimson Ben Jer, Baby Rambler, Dorothy Perkins, etc., etc., suitable for Forcing. Immediate Delivery. Prices Right. General Catalog and Price List ready.

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Wholesale Growers TREES AND PLANTS in full assortment. Springfield New Jersey Trade Catalogue Free

P. OUWERKERK

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P. O. No. 1, Hoboken, N. J. JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiræa Japonica, Lillum Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Rhododendron Maximums and Kalmia Latifolia

Finest stock in America, any size from one foot to ten feet high, well furnished from top to bottom, special prices will be quoted on large orders.

The Riverside Nursery Co. CONFLUENCE, PENNA.

50,000 Sugar Maple Seedlings

20,000 Sugar Maple Seedlings, 2-3 ft., \$25.00 per 1000. 6,000 Tulip Trees, 4-6 ft., \$5.00 per 100; \$50.00 per 1000. 5,000 Catalpa Speciosa, 4-5 ft., \$3.00 per 100 \$25.00 per 1000.

ELLSWORTH BROWN & CO. SEABROOK, N. H.

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Table with 3 columns: Tree Name, Size, Price. Includes Irish Juniper, Norway Spruce, Austrian Pine, Retinopsis Plumosa.

MAURICE J. BRINTON, Christlana, Pa.

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Offer for Spring Planting

MAPLE, Norway, 2-4 in. in diameter. MAPLE, Negundo, 2-3 in. in diameter. HORSE CHESTNUT, 2-3 in. in diameter. MAGNOLIA TRIPETALA, 3-9 ft. in diameter. PLANE TREE, 2-3 in. in diameter. POPLAR LOMBARDO, 1-3 in. in diameter. LINDEN, American, 3-4 in. in diameter. LINDEN, European, 2-2 1/2 in. in diameter.

M. F. TIGER, prop., Patchogue, N. Y.

KOSTER & CO.

Hollandia BOSKOOP, HOLLAND Nursery. Early Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies. Pot-Grown Plants for Forcing. RHODODENDRONS, H. P. ROSES, Etc. Catalogue free on demand.

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QUEENS LONG ISLAND, N. Y. Sphagnum Moss and Cedar Poles. Moss, 6 barrel bale, \$1.25; 2 bales, \$2.25; 6 bales, \$5.00; 10 bales, \$8.50. Poles, 2 in. butt, 3 ft. long, \$16.00 per 1000; 2 1/2 in. butt, 10 to 12 feet long, \$22.50 per 1000; 1 1/2 in. butt, 6 to 7 ft. long, \$10.00.

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QUEEN OF BEAUTY, the best of all scarlets, was introduced by us in 1906. It has proved all that we claimed for it. Our list contains nearly 200 varieties. Can we book your order for Fall delivery 1907 or for started plants, strong and hardy, grown in cold frames, ready April 1 to 15? Prices same as for dry roots.

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Immense quantities, low prices. Price list on application. Peonies a specialty. PETERSON NURSERY 108 LA SALLE ST. CHICAGO, ILL

HARDY PHLOX

MISS LINDARD, best white summer cut flower, R. C., \$30.00 per 1000. CARNATION ABUNDANCE, R. C., \$40.00 per 1000; from 2 in. pots, \$80.00 per 1000. HYDRANGEA HORTENSIS GRANDIFLORA, R. C., \$50.00 per 1000. Cash with order. L. I. NEFF, PITTSBURG, PA.

The F. E. Conine Nursery Co.

Established 12 Years, Stratford, Ct. Send your orders to us when you do not know just where to get your NURSERY STOCK. We can fill most any variety or size. Retail only.

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A COMPLETE HORTICULTURAL ESTABLISHMENT

BEDFORD NURSERIES (formerly Shady Hill), 162 Acres, GENEVA NURSERIES, 700 Acres

FRUIT and ORNAMENTAL TREES, SHRUBS, ROSES, VINES, Etc., Etc.

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Estimates on complete lists cheerfully given. Catalogs free. Address all correspondence to our principal offices, BEDFORD, MASS.

On being asked what we do with so many CANNAS, we replied, we sell what we CAN and what we CAN'T we can.

50,000 CANNAS

TRUE TO NAME

Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

Table listing various Canna varieties such as RED CANNAS, PINK CANNAS, ORANGE CANNAS, GOLD EDGED CANNAS, YELLOW CANNAS, and WHITE CANNAS with their respective prices.

Table listing ORANGE CANNAS varieties like Admiral Avellan and Queen of Holland.

Table listing GOLD EDGED CANNAS varieties like Mad. Crozy and Souv. de A. Crozy.

Table listing YELLOW CANNAS varieties like Comte de Bouchard and Florence Vaughan.

Table listing WHITE CANNAS varieties like Alsace and Peachblow.

Table listing BRONZE CANNAS varieties like Black Beauty and David Hartum.

Table listing ORCHID CANNAS varieties like Allemanna and Kronus.

Table listing ELEPHANT EARS (Caladium Esculentum) with prices for different sizes.

Table listing prices for Elephant Ears based on circumference and height.

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Our list includes only the most profitable commercial varieties for forcing—no "has-beens" nor "freaks." (Consult the flower market reports and see what the sellers are.) From 2 1/2 inch pots, \$10.00 per 100.

Richmond, Chatenay, Bride, Maid, Uncle John, Golden Gate, Killarney, Wellesley, Kaiserin, Carnot, Ivory, Moulton.

These are the market's top-notchers. Our plants are grafted on the best selected English Manetti stocks; and we are booking orders now for early delivery or when wanted.

The 1907 NOVELTIES.—Lady Gay, Minnehaha and Hiawatha can be had in strong stock; descriptions and prices on request.

SPECIAL.—American Beauty, 2 years, dormant, (field-grown) budded, fine plants for forcing, at \$12.00 per 100.

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Large table listing prices for Well Rooted Cuttings of Carnations (PINK, LIGHT PINK, VARIEGATED, WHITE, RED) and Roses (Richmond, Liberty, Bridesmaid, etc.) and Rose Plants (Richmond, Bridesmaid, etc.) from 2 1/2 inch pots, ready for shipment.

Killarney 2 1/2 inch pots Grafted Stock. \$12.50 per Hundred BENCH PLANTS

One year old plants from Benches, Liberty, Ivory, and Perle. \$5.00 per hundred, \$40.00 per thousand. AMERICAN BEAUTY. \$10.00 per hundred, \$75.00 per thousand

PETER REINBERG, NO. 51 WABASH AVENUE, CHICAGO

GRAFTED ROSES

On Best English Manetti Stock 2 1/2 inch pots; A No. 1 Stock

KAISERIN, KILLARNEY, RICHMOND, \$10.00 per 100.

BOSTON FERNS, pot grown, strong plants, 5 in., 25c.; 6 in., 35c.

SCOTTII, 5 in., 25c.; 6 in., 35c.; 7 in., 45c.

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BEST COMMERCIAL VARIETIES ONLY GET OUR PRICE LIST FROM HEALTHY STOCK

POEHLMANN BROS. COMPANY, MORTON GROVE, ILL.

Beautiful New Pink Rose "Aurora"

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Largest assortment of desirable varieties, plants of proper size to give the best immediate results. For our complete list of varieties see our current wholesale list

	Per doz.	Per 100
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Millefolium Roseum, 3 in. pots.....	85	6 00
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ANTHERICUM Liliago and Liliastrum	75	5 00
ALYSSUM Saxatile Compactum, 3 in. pots.....	75	6 00
ANEMONE Japonica, 3-in. pots.....	85	6 00
Alba, 3-in. pots.....	85	6 00
Elegantissima, 3-in. pots.....	85	6 00
Lady Ardlaun, 3-in. pots.....	85	6 00
Queen Charlotte, 3-in. pots.....	85	6 00
Rosea Superba, 3-in. pots.....	85	6 00
AQUILEGIAS in variety, 3-in. pots.....	85	6 00
ARABIS Alpina, 3-in. pots.....	75	5 00
Flore Plena, 3-in. pots.....	85	6 00
ARMERIA Maritima Splendens, 3-in. pots.....	85	6 00
Alba, 3-in. pots.....	85	6 00
ARTEMISIA in variety, 3-in. pots....	85	6 00
HARDY Asters (Michaelmas Daisies). Strong plants.....	1 00	7 00
BOCCONIA Cordata. Strong roots.....	85	6 00
BOLTONIA Asteroides. 4-in. pots.....	85	6 00
Latisquamata, 4-in. pots.....	85	6 00
CALLIHOE Involucrata. 3-in. pots.....	1 00	7 00
CAMPANULA Carpatica. Blue and white. 4-in. pots.....	85	6 00
Media, Double and Single, 4-in. pots..	85	6 00
Calycanthemata, 4-in. pots.....	85	6 00
Periclyfolia Moerheimi, 3-in. pots.....	1 25	10 00
Pryamidalis, 3-in. pots.....	85	6 00
CARYOPHYLLIS Mastacanthus, 3-in. pots	85	6 00
CASSIA Marilandica. Strong roots....	85	6 00
CERASTIUM Tomentosum, 3-in. pots.....	85	6 00
CHELONE in variety. Strong plants....	1 25	8 00
CHRYSANTHEMUM Maximum Tri-umph, 4-in. pots.....	85	6 00
Sheeta Daisy, 3-in. pots.....	75	5 00
Hardy Pompones, 25 varieties, 2 1/2-in. pots.....	60	4 00
CLEMATIS Davidiana. Strong 2-yr-old..	85	6 00
Ecta, Strong 2-yr-old.....	1 50	12 00
Integrifolia, Strong 2-yr-old.....	1 25	8 00
COREOPSIS Lanceolata Grandiflora, 4-in. pots.....	75	5 00
DELPHINIUM Belladonna, 3-in. pots..	2 00	15 00
Chinese, 1-yr. field grown.....	75	5 00
Alba, 1-yr. field grown.....	75	5 00
Fornosum, 1-yr. field grown.....	85	6 00
Mixed Hybrids, 1-yr. field grown.....	85	6 00
DICTAMNUS Fraxinella and Alba. Strong plants.....	1 25	8 00
DIELYTRA Spectabilis. Strong clumps..	85	6 00
Formosa, 4-in. pots.....	1 00	7 00
DIGITALIS Gloxiniflora, 4-in. pots.....	85	6 00
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FUNKIA Cernua. Strong roots.....	75	6 00
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GYPSOPHYLLA Paniculata. Strong roots.....	85	6 00
Fl. Pl. Strong roots.....	3 00
HEMEROCALLIS in variety. Strong plants.....	85	6 00
HBISCUS Crimson Eye, 2-yr-old.....	85	6 00
Moschentos, 2-yr-old.....	85	6 00

	Per doz.	Per 100
HELENIUM Autumnale Superba, 4-in. pots.....	1 00	7 00
Grandicephalum Striatum, 3-in. pots.....	85	6 00
Eccepsal, 4-in. pots.....	1 00	7 00
Fumilum Magnificum, 4-in. pots.....	1 00	7 00
Biverton Gem, 3-in. pots (New).....	3 00	.....
HELIANTHUS in variety. Strong plants.....	85	6 00
HELIOPSIS Picheriana, 4-in. pots.....	85	6 00
Semi Plena, 3-in. pots.....	85	6 00
Scaber Major, 4-in. pots.....	1 00	7 00
Hollyhocks—Dreer's Superb Double. White, yellow, pink, salmon, maroon, red, 1-yr.-old clumps.....	1 50	10 00



DELPHINIUM BELLADONNA

HOLLYHOCKS, Dreer's Double in mixture, 1-yr.-old roots.....	1 25	8 00
Fringed Allegheny, in mixture, 1-yr.-old roots.....	1 25	8 00
Single Mixed, 1-yr.-old roots.....	1 25	8 00
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In choice mixture.....	60	4 00
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Syrillitica, 4-in. pots.....	85	6 00
LYSIMACHIA Clethroides, 4-in. pots..	85	6 00
LYCHNIS Chalcedonica, Alba and Carnea, 3-in. pots.....	85	6 00
Flore Plena, 3-in. pots.....	2 00	15 00
Haageana, 3-in. pots.....	85	6 00
Sempervirens Plenislima, 3-in. pots..	1 25	8 00
Vespertina Alba Plena, 4-in. pots.....	1 60	12 00
Viscaria Splendens, 4-in. pots.....	1 25	8 00

	Per doz.	Per 100
LYTHRUM Roseum Superbum, 4-in. pots.....	85	6 00
MONARDA Didyma in variety, 4-in. pots.....	85	6 00
OENOTHERA in variety, 3-in. pots.....	85	6 00
PAPAVEE Orientale. Named varieties, 4-in. pots.....	1 50	10 00
Choicest mixture, 4-in. pots.....	85	6 00
Nudicaule (Iceland Poppy). Choice mixed, 3-in. pots.....	85	6 00
PAONIES, Choice Double Herbaceous... 4-in. pots.....	1 50	12 00
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PHLOXES. These are one of our leading specialties. Send for special list of new, popular and standard varieties, strong plants.....	75	5 00
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Flipendulina Flore Plena, clumps.....	85	6 00
Gigantea, clumps.....	1 50	10 00
Palmaria, clumps.....	1 00	7 00
Elegans, clumps.....	1 00	7 00
Ulmara Flore Plena, clumps.....	85	6 00
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Obelisque, strong divisions.....	1 50	10 00
Eufis, strong divisions.....	2 00	15 00
Tricolor, strong divisions.....	2 00	15 00
Uvaria Grandiflora, strong divisions..	1 00	6 00
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VERONICA Longifolia Subsessilis. Strong plants.....	1 25	8 00
Spicata, Blue and White, 4-in pots....	1 00	7 00
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HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

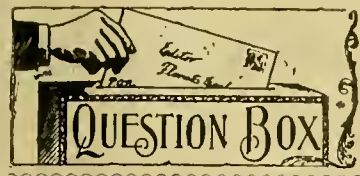
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Los Angeles, Cal.

The directors of The Southern California Horticultural Society have decided on the first week in May as the time when we shall have a Spring flower show, and have secured a skating rink on Grand avenue between Ninth and Tenth streets.

(67) Fumigating for San Jose Scale—Can you tell me what I can fumigate a tree with in order to kill San Jose scale? The tree is about 15 feet high and 6 or 7 feet in diameter, and is covered with scale.

(68) One-Year-Old Mushroom Spawu—I have a lot of one-year-old mushroom spawu. Is it safe to use it or shall I throw it away?

(69) The Camphor Tree—Kindly advise me whether the ornamental camphor tree is hardy here in Central Illinois or not.

(70) Asters—I have an order for several hundred Comet and late branching aster plants. About when should the seed of each kind be sown to get best flowers?

(71) Sweet Peas—We notice in your March 16 issue, an article copied from a foreign paper on "Sweet Peas for Forcing."

—Christmas pink, and Mont Blanc, white, are the most desirable. There are a number of other colors, but I would advise anyone to go slow with these, as the people are not quite ready to buy them in large quantities.

INDEX TO STOCK ADVERTISED

Table listing various plant species and their corresponding page numbers, including Ageratum, Alternantheras, Adiantum, Araucarias, Asparagus, Asters, Azaleas, Begonias, Bubbles, Caladiums, Canas, Carnations, etc.

Contents

Table of contents listing sections such as A Hasty Conclusion, American Rose Society, American Rose Society Medals, Azalea Culture in Belgium, etc., with corresponding page numbers.

A special feature of this show will be a collection of the flora native of the State, properly labeled. Exotics, which are grown in almost countless numbers in this favored land, have in the past been the only class of vegetation receiving any attention, but from this time on the beautiful things found growing wild over our hills and in the valleys will be brought to the notice of the flower-loving public, and introduced into our gardens.

—Mushroom spawu that is one year old is too risky to use in a newly made bed, and we would certainly advise throwing it away and procuring new spawu.

—The camphor tree (Cinnomomum camphora) is only supposed to be hardy as far north as the lower Gulf States, consequently it would be an unsuitable tree to plant in Illinois.

—The aster seed should be sown at once, and we would advise growing the plants in flats, as to grow them in pots would be a too expensive proposition.

—To give an idea of some of the prizes on the premium list, it might be mentioned that \$40 in cash is offered for the best group of decorative plants, while the second prize for the same exhibit is \$25. For the best 100 American Beauty, arranged for effect, \$75 in cash is offered as a first prize and \$50 in cash as second.

—One of the features of the show will be a children's day, when special prizes will be offered for the youngsters who make exhibits.

It is not what you pay for your advertising space, or the quantity you fill because you get it cheap, that counts, but the actual returns you receive from your disbursement. Cheap advertising is like every other cheap commodity, dear at any price, and many are misled by its inducement.

FOR A SHORT TIME ONLY. Chrysan-

strong, rooted cuttings, per 100, \$1.00; per 1000, \$10.00; 2 1/2 in. pots, per 100, \$1.50. These are Glory of the Pacific and Polly Rose in mixture. Heliotrope, R. C., per 100, 75c.; 2 1/2 in. pots, per 100, \$1.75; unrooted cuttings, per 100, 35c.; Cash with order please.

PATERSON ROSE CO., Paterson, N. J.

ROOTED CARNATIONS

WHITE PERFECTION, \$50.00 per 1000 LADY BOUNTIFUL, \$25.00 per 1000 ROBERT CRAIG, \$5.00 per 100

LARCHMONT NURSERIES, Larchmont, N.Y.

WANTED AT ONCE. A first-class

man to go out to Michigan to take charge of the planting of a large landscape job. Must have had experience in this line, with a thorough knowledge of Nursery stock. Apply at once

COTTAGE GARDENS COMPANY, Queens, (L. I.) N. Y.

out to Michigan to take charge of the planting of a large landscape job. Must have had experience in this line, with a thorough knowledge of Nursery stock. Apply at once

Carnation growers who have a surplus of young plants should advertise them' in THE FLORISTS' EXCHANGE.

Hardy Roses for Decoration Day

HARDY H. P. ROSES

We offer exceptionally strong two-year-old dormant, low-budded stock (on Manetti), in the following varieties:
 Alfred Colomb, crimson.
 Anna de Diesbach, bright crimson.
 Ball of Snow, pure white.
 Baron de Rothschild, dark crimson shaded.
 Baroness Rothschild, satiny pink, extra.
 Captain Christy, delicate flesh color.
 Duke of Edinburgh, bright vermilion; very fine.
 Fisher Holmes, dark rich scarlet.
 Frau Karl Druschki, the finest white in existence, \$12.00 per 100.
 General Jacqueminot, rich velvety crimson.
 General Washington, beautiful red, shaded crimson.
 John Hopper, beautiful rose pink.
 La France, the finest light pink.
 Margaret Dickson, white, pale flesh center.
 Magnus Charta, clear rose pink.
 Mma. Gabriel Luitzel, light, satiny pink.
 Mms. Plantier, white.
 Mrs. John Laing, soft pink; most desirable variety.
 Paul Neyron, beautiful dark pink.
 Prince Camille de Rohan, velvety crimson.
 Ulrich Brunner, cherry red.
 Prices on H. P. Roses \$1.25 per 10; \$11.00 per 100; \$100.00 per 1000.
HYBRID TEA ROSES
 Maman Cochet, pink. Maman Cochet, white. Unequaled as bedders for Summer bloom-

ing, producing buds of large size and of ideal form. The buds are of the color and form of Bridesmaid and Bride, but larger, and outside will yield more blooms than the latter will under glass. The two finest outdoor Roses yet introduced. Strong 2-year-old plants, 10 for \$15.00; \$12.00 per 100.
 American Beauty, Clothilde Soupert, Kaiserin Augusta Victoria, Caroline Testout, Hermosa. Strong, 2-year-old, \$1.50 per 10; \$12.00 per 100.

THE KILLARNEY ROSE
Irish Grown from the Kaiser.
 Good strong two-year-old plants, \$3.00 per 10; \$27.50 per 100.

HARDY ROSE SOLEIL D'OR
(Golden Sun).
 Like Persian Yellow, this variety is perfectly hardy, with large, full, globular flowers, varying in color from gold and orange to reddish gold, edged with nasturtium-red. Two-year-old budded plants, per 10, \$2.00; per 100, \$15.00.

The Grand New Rose
ETOILE DE FRANCE
 Superb crimson red velvet, the center of the bloom vivid cerise red. The flowers are very fragrant and last long. This new variety is the result of a cross between Madame Abel Chatenay and Fisher Holmes. Field-grown, strong two-year-old plants, \$2.75 per 10; \$25.00 per 100.

ARTHUR T. BODDINGTON, 342 WEST 14th ST. NEW YORK CITY

SPORT OF CHATENAY

As free as CHATENAY, color of BON SILENE; 2 1/2 in. pots, \$25.00 per 100; \$150.00 per 1000.

EMIL GLAUBER, - - Montclair, Colo.

Grafted Roses

We offer this year the following assortment: **Bride, Bridesmaid, Bon Silene, Etiole de France, Franz Desgen, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Mms. Abel Chatenay, Mms. Caroline Testout, Mms. Host, Mrs. Pierpont Morgan, Maman Cochet, Marcehal Niel, Perle des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du President Carnot, Souvenir de Wootton, Tom Field, Uncle John, Wellesley.**
 The above grafted from 2 1/4 inch pots \$15.00 per 100; \$120.00 per 1,000 for a No. 1 stock; otherwise will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.
 The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.

AMERICAN BEAUTY

On own roots, from 2 1/2 inch pots, \$3.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

OUR GUARANTEE GOES WITH EVERY PLANT.

A. N. PIERSON, Cromwell, Conn.

2 YEAR OLD ROSES

4 in. pots; Climbers, in assortment, at \$8.00 per 100. 2 1/2 in. Roses, 40 varieties, all colors, at \$2.00 per 100; \$16.00 per 1000.
 2 1/2 in. stock **GERANIUMS, AGEATUM, FEEIWKINKLES, VIOLETS, HIBISCUS, E. BEGONIA, FUCHSIAS, HELIOTROPE, HONEY-SUCKLE, AS-FARAGUS**, \$2.50 per 100. **COLEUS, ALBERTA TREBES,** at \$2.00 per 100. **PENS.** 2 1/2 in., Boston, Pierson, Scottish, at \$3.00 per 100. Tarrytown, Barrows, at \$5.00 per 100.

THE NATIONAL PLANT CO., Dayton, O'

2 year old ROSES 4 in. pots

P. & W. Cochet's and Crimson Rambler, 7c.; La France, Meteor, Hermosa and Souper, 8c.; Diesbach, Dinmore, Charta and Laing, 9c.; Gen. Jacqueminot and Paul Neyron, 10c.; Marechal Niel, 15c.; Baby Rambler, 18c.
 101 choice sorts in 2 1/2 in. pots.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO

ROSES

READY FOR SHIPMENT
 Strong, well rooted stock—Cash with order.
 P. C. 2 1/2 in. pots
 Per 1000 Per 100 Per 1000
 American Beauty .. \$27.50 \$7.00 \$65.00
 Richmond 37.50 7.00 35.00
 Bride 17.50 3.00 25.00
 Bridesmaid 17.50 3.00 25.00
ALFRED P. SMITH Madison, N. J.

GRAFTED ROSES

Brides and Bridesmaids.
EDW. J. TAYLOR
 Southport, Conn.

VEGETABLE PLANTS

Cabbage, New Early, and Succession, 25 cts. per 100; \$1.50 per 1000. Lettuce, Grand Rapids, Big Boston, Boston Market and Tenais Ball, \$1.00 per 1000. Parsley, Moss Curled, 25 cts. per 100; \$1.25 per 1000. Beet, Eclipse, 25 cts. per 100; \$1.25 per 1000. Celery, White Plume, White Solid, also Celeriac, G. Prague, 20 cts. per 100; \$1.25 per 1000. Egg Plants, New York Improved, Small, \$2.00 per 1000. Peppers, Bull Nose and Sweet Mountain, Small, \$2.00 per 1000. Tomatoes, Small Plants, Escalao, Early Jewel, Lorrillard, May Flower, and other early kinds, 30 cts. per 100, \$2.00 per 1000. Stone Perfection and other late kinds, \$1.00 per 1000. Get with order.
R. VINCENT, JR. & SON, White Marsh, Md.

VEGETABLE PLANTS

CABBAGE, Earliest, \$1.50 per 1000.
LETTUCE, Grand Rapids, Black Seeded Simpson and Boston Market, \$1.00 per 1000.
TOMATOES, all good kinds, \$1.50 per 1000.
ASTER PLANTS.

McKEESPORT FLORAL CO.
 McKEESPORT, PA.

GERANIUMS

Big lot of 3 inch plants ready April and May.

PETER BROWN, Lancaster, Pa.

Chrysanthemums

WHITE.
 Early—George S. Kalb, Polly Rose, Willowbrook.
 Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka.
 Late—Mrs. McArthur.
PINK.
 Early—Glory of the Pacific.
 Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, Ethelya, A. J. Belfast, William H. Duckham, Dr. Enguehard.
 Late—Maud Dean, The Harriott.

YELLOW.
 Early—Monrovia.
 Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham.
 Late—Major Bonaffon, H. W. Reiman.
 Root Cuttings, \$2.00 per 100; \$15.00 per 1,000.

A. N. PIERSON, Cromwell, Conn.

250,000 CHRYSANTHEMUMS

POLLY ROSE, PINK PACIFIC, ROBINSON, WM. DUCKHAM, BONNAFFON, J. JONES.

Rooted Cuttings, \$1.25 per 100, \$10.00 per 1000.
MONROVIA, ALICE BYRON, CHELTONI, EATON, IVORY, APPLETON, DR. ENGUEHARD.
 \$2.00 per 100, \$15.00 per 1000.
 Healthy Stock. Enough said.

WM. BECKER, BOX 48 FARMINGDALE, L. I.

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GERANIUMS

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COLEUS Versich, G. Bedder, sad brightest. Fancy mixed, strong, 60c. per 100. Giant, many kinds, finest of all Coleus, 80c. per 100. **GLADIOLI** Groat's Hybrids, blooming size, 50c. per 100. **SAFEE**, Ball of Fire, best in every way R. C. 60c. per 100.
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GERANIUMS

for bedding out. Ready May 10th
WM. J. CHINNICK, Trenton, N. J.

ROOTED CUTTINGS Prepared per 100. **Ageratum** Gurney, Esallde, 60c. Alternanthera, best red and yellow, 60c. **Coleus**, best, 60c. **Heliotrope**, b u, 80c. **Salvia** Bonfire 75c. Cash.
SHIPPENSBURG FLORAL CO., SHIPPENSBURG, PA.

THE WEEK'S WORK. Timme's Timely Teachings.

Cannas.
 It is now time to start cannas. Of the many ways in which this may be done the one involving the least labor and resulting in the greatest number of good 4-inch plants at selling time should be adopted. For wholesaling and long distance shipment 2 1-2 or 3-inch stock, with a new growth of about five inches in height, is the best, but for a good retail trade it is the 4-inch canna with a firmly held ball of new roots and sturdy top growth, that sells fastest and brings best prices. Sound roots, divisions of last year's clumps, not started in pots, can be sold cheaper than the pot-grown plants and still leave a fair margin of profit. These when sold and planted out in May give as good results as those started earlier under glass, and there will always be some people wanting no others at planting time. But I think it is not to the interests of the plant growing retailer to encourage a trade in dry bulbs and roots at his place of business, since a by-traffic of this kind is likely to diminish the sale of the more profitable stock in trade.

Sound clumps of cannas taken from their Winter quarters are cut up into as many pieces as there are eyes, the pieces to be right in size for the pots to be used. At this time most of the latent eyes have started and in such a case the divisions could at once be potted up and the pots placed over some bottom heat to accelerate root formation. If, on the other hand, the old clumps are still entirely dormant, they may first be started into growth in a warm place and be then cut up and the division potted up with the new shoots well showing. Or the dormant clumps, if at all doubtful as to their soundness or showing signs of decay or sponginess, may first be cut up, cleaned and freed of mold and decay spots, and the sound pieces planted in a bench or in trays and when started potted up and grown on. While a healthy, fast growing canna is a moisture-loving plant, one emerging from uncongential Winter quarters, soft of flesh and slow in starting, resents any excess in humidity and soon yields to utter decay if watered too much or too often. Care in this particular, therefore, is necessary until the new growth in shoots and roots is well under way.

Pansies.

About the first plants to be called for in early Spring are pansies. Those sown in August, transplanted at proper distances in frames before real Winter sets in and given some protection during the few months of hard freezing, should now be good stock, ready to come into bloom at the least encouragement and worthy of all the extra care connected with the management of frames at this time of the year. Such stock, never having been subjected to fire heat, may safely be considered quite hardy. Pansies in frames should have been uncovered, given light and air some time ago; the sashes being all sufficient as a protection in the early part of the season. From now on there will be but little need even for these, and the plants, whenever chances offer, should be fully exposed to such spells of weather as usually indicate the presence of Spring. Pansies sown in Midwinter for a later trade are now nice little plants rapidly striving for size. These should not remain in the houses any longer than can be helped. Though not so hardy as the others they will now stand a removal to frames.

Geraniums.

It is no unusual thing to let geraniums attain almost full size before giving them the last shift into their selling size pots. The reason for this delay in repotting is found in the overwhelming volume of all sorts of work falling to the lot of the hard-driven plantsman at just about the time when the general run of plants needs somewhat more than ordinary attention. Spare moments, available bench space, suitable help, any one or all of these are exceedingly scarce at times, and

something, however pressing, has to abide its time. Geraniums, most willing to do a lot of waiting, are supposed to be least injured thereby, while as a matter of fact, few kinds of stock tell the tale of neglect, subjected to at just this time, more plainly at their selling season than do geraniums. It is to be hoped that the earliness of this year's Easter rush will leave us with sufficient time and room for the regular work and timely duties among the stock now nearing its finish.

Geraniums from now until May do a great deal of growing and plants of most varieties, seemingly small and puny, may yet be grown into acceptable size and vigor by proper treatment. The best marketable grade of bedding geraniums should now be ready for the last thrift. They should show bright foliage, a well-branched crown on a short, sturdy stem and a reasonable intertwining of live roots when coming out of the smaller pots, not a felt like shell of hardened or dead roots. A fairly good soil, not over-rich in manure, should be used in potting and this should be as firm as has ever been advised for the potting of any kind of plants under pot culture. To be first-class plants necessitates the allowance of sufficient room for spread of foliage and crown and ample moisture for the roots, while overhead sprinkling is of little value.

Petunias

Of petunias none but the best strains are worthy of being handled by florists. There is an astonishing difference between the old-time garden petunias and the kinds offered as giant-flowered mixtures, ruffled, striped and fringed. A well-grown plant of these, compact and sturdy, with flowers of uncommon size, peculiar shape and pleasing blend of colors, is good enough to be seen by the most critical of patrons, and, although nothing in the pot plant line, to be especially proud of, the grower's place loses none of its attractiveness by its presence.

The seeds of these superior varieties or types of petunias are high-priced and they are none too fast in starting. The scanty pinch of minute grains in a package, hardly ever being enough for a small seed pan, makes any warning against their being sown too thickly unnecessary. Still in time they grow into a goodly number of vigorous little plants which should then be potted up in 2-inch pots, and when rooted through in these should go into fours, in which they will soon attain flowering size. Petunias, so treated, should and easily do bring the higher price of good 4-inch greenhouse stock, while for the regular bedding trade petunias coming out of 2-inch pots are the right size.

There are several strains of single petunias, not high in price yet of the improved newer forms, some of them coming in separate colors and usually quite true, which are far superior to any of the fancy sorts for bedding, especially for effective massing in solid color. For extensive contract work in planting florists will find them to be excellent material. Double petunias are good for pot culture, but rarely do well in outdoor plantings. Good doubles obtained from seeds should be held for future propagation by cuttings.

Verbenas.

I often see and hear it stated that verbenas have forfeited their prestige as the most satisfactory of low-growing bedding plants, being now but sparingly employed in any sort of bedding layout and looked upon with disfavor by all buyers of border plants. This is true to some extent; one hardly ever sees a faultless verberna bed nowadays. In this particular we have decidedly gone backward. But as to the trade in verberna plants by the retail florist a remarkably large falling off in the sales is not noticeable. They are regularly called for and sold out clean at most places. The improvement in verbenas, if there has been any at all, is not so marked as in that of most other bedders, but the seeds, where these are listed in separate colors, can now more be relied upon as coming true to shade than in years gone by. This fact alone does much toward lessening the cost of plant production, enabling the grower to work up in less than two months a good supply superior in every way to plants raised from cuttings.

The seeds of verbenas may yet be sown if late cuttings for delayed plantings are figured upon. Some provision should always be made for the tail end of the regular bedding season, not by offering the worthless leavings, but instead young, vigorous stock of doubtless value.

Verbenas raised from seeds to be right for the main flow of trade, should now be about ready for their pots, the 2 1/2-inch pots being the proper selling size. Good, well-enriched potting soil makes the thriftest of plants, but its richness is apt to delay their flowering—a thing to be desired at selling time, but not insisted upon by the best kind of regular customers. Plants grown from cuttings, if rusty, will now gradually grow out of it, if given plenty of air and watered with a due amount of caution.

Salvias.

All the newer types of *Salvia splendens* are good material for outdoor plantings and as such highly prized and extensively made use of by all classes of people. Few other plants mainly used in the brightening of home grounds, put forth a stronger claim for public favor in late years than the newer salvias. That in many instances they are made use of without due discretion or regard to refinement or taste in arrangement cannot be denied, but the too lavish use of salvias is less apt to create unpleasant impressions than any excess in the use of one color or variety found in most other Summer bedders.

Salvias are easily and rapidly propagated by cuttings taken from last year's plants. It is not yet too late for the striking of another batch if good cuttings can be had. I have given up carrying over old stock plants and the raising of salvias from cuttings, believing it to be more profitable and altogether more satisfactory to raise them from seeds. The first seedlings are now in 2-inch pots, almost ready for the 4-inch. Those sown later, some only sown a few weeks ago, will all, as every Spring, be readily disposed of either as 2, 3 or 4-inch stock, most of the larger sizes being in bloom when sold. Ordinary good soil is used in potting. Any sudden change in temperature, cold drafts of air or constant overdoes in watering hurt salvias, when yet soft and growing rapidly, more than they would other kinds of common bedding plants. A stunted salvia, or one with yellow or drooping leaves, shabby flower spike and of hungry, puny appearance, is a sorry sight to put before customers, but what is worse, it will never recover from its plight after being planted out, while a finely grown salvia goes right ahead and never feels the change. FRED. W. TIMME.

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THE JENNINGS STRAIN

25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, \$1.00 per 100; by express only. Second size, strong plants, 100 by mail, 60c; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00. Cash with order.

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SEEDLINGS

VERBENAS (6 colors), PHLOX DRUMMONDI, ALYSSUMS, (Little Gem), STOCKS, (3 colors), 36c. per 100; \$2.50 per 1000. SALVIA BONFIRE, DUSTY MILLER, 40c. per 100; \$3.00 per 1000. Grown from the best seed. AGEIATUMS, Inimitable, Giant Blue, R. O. \$1.00 per 100, 2 1/2 in., \$2.50 per 100.

J. C. Schmidt Co., Bristol, Pa.

ALTERNANTHERA

50,000 plants in 2 in. pots. *Paronychoides aurea*, bina and versicolor at \$25.00 per 1000; 500 at 1000 rate. No order for less than 500. Ready for delivery May 1.

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Plants for Spring Trade

Dracaena Terminalis, finely colored, 4 inch pots,	Per Doz.	\$4.00
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VERBENAS 60 Finest Varieties Perfectly Healthy

Rooted Cuttings. Our selection	\$0.75 per 100	\$6.00 per 1000
Plants.	2.50 per 100	20.00 per 1000
Rooted Cuttings. Purchaser's selection	.90 per 100	8.00 per 1000
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Free from Disease.
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Golden Beauty, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000.
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Verschaffeltii, Golden Bedder, Firebrand, Gluck Auf. Mixed varieties, fine rooted cuttings. Price \$0.75 per 100; \$6.00 per 1000.

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Liberty, Richmond, La France, Killarney, rose pots, \$15.00 per 100; 3/4 in. pots, \$18.00 per 100.
Bride, Bridesmaid, Golden Gate, Kaiserin, rose pots, \$10.00 per 100; 3/4 in. pots, \$15.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

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- CANNAS—Chas. Henderson, David Harum, Mlle. Berat, Shenandoah, Italia, Duke of Marlborough, Pres. Carnot, 2 and 3 eye pieces, \$2.00 per 100, \$17.00 per 1000. (See catalog No. 5 for complete list.)
- ROSES—Strong young plants of Clotilde Soupert, Champlon Climbing Soupert, Empress China, Golden Gate, Gruss An Teplitz, Meteor-Mosella, Papa Gontier, Safrano, \$3.00 per 100, \$25.00 per 1000.
- CARNATIONS—Fair Maid, Mrs. Lawson, The Queen, Queen Louise, Boston Market, from flats of soil, \$2.50 per 100.

The STORRS & HARRISON CO.,
PAINESVILLE, OHIO.

SALVIA ZURICH

THE EVERBLOOMING SALVIA

One of the most important novelties in bedding plants introduced for a long time, produces its wealth of flowers while very small and is in its full glory long before any other kind shows even a bud, grows also much dwarfed and more compact. Our stock is raised from cuttings and seed, which was procured in Zurich, Switzerland.

Strong plants from 2 1/2-in. pots, 75c. per doz., \$5.00 per 100, \$45.00 per 1000. For full description send for circular or see American Florists' Carnation Number, page 19, Florists' Exchange, page 185, and Horticulture, pages 140 and 202.

PERENNIAL GARDENS CO., Toledo, O.

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Seedsmen and the Trade in General

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

Chrysanthemum Society of America.

At the executive meeting of the Chrysanthemum Society of America, held in New York City on Thursday, March 14, it was unanimously voted to hold the next meeting of the society in New York, thereby accepting the kind invitation extended by the American Institute, through Dr. Hexamer. The enthusiasm with which the committee enters upon its duties augurs well for a successful meeting in November. The date is left open for the present, but all possible care will be taken to prevent it conflicting with any dates already arranged, so that a majority will be able to avail themselves of the opportunity afforded to exhibit at and visit, what promises to be the best chrysanthemum show ever held in New York. Many valuable premiums will be offered for commercial and exhibition varieties, particulars of which will be published on completion of arrangements.

The constantly increasing membership is very gratifying, proving an awakened interest in the important work of the society, but there are still many who by their skill in producing such wonderful examples of the highest culture should fall in line and lend their influence to the advancement of public interest in the Queen of Autumn, and thereby become links in the chain of recognized professionals in the culture of the chrysanthemum.

Do not underestimate the value of your accomplishments, identify yourself with the best growers, and share in the mutual exchange of advanced ideas, and so keep pace with the increasing popularity of the flower we all love.
DAVID FRASER, Secretary.

We have received from Secretary David Fraser, copy of the proceedings of the fourth and fifth annual meetings of the Chrysanthemum Society of America, held at Philadelphia in 1905 and Chicago in 1906. In addition to the reports of officers and essays read at the meetings the document contains lists of the new chrysanthemums exhibited before the society's committees for the years named, with the points awarded; also lists of American and foreign introduction for 1906.

The Florists' Exchange will be pleased to publish a brief report of your Easter trade: What stock was in greatest demand, novelties, if any, and a comparison of prices obtained with those of other years. Send in your manuscript early, please.

A Hasty Conclusion, and a Feeble Falsehood.

There was once, according to a ballad, now out of print, a country doctor who took his young assistant along with him on morning visits. He glared severely at the first patient and said, "You've been eating oysters!" Astonished by the physician's diagnosis of antecedent facts, the patient made a full confession. Outside, the assistant asked, "How did you know he had been eating oysters?" "Hush," said the veteran; "I saw the shells under the bed." A few days later the assistant went out by himself and gravely informed a new patient, "You have been eating a horse." He was laughed at, and went away. His explanation was: "I saw a saddle and a bridle under the bed."

This story of hasty conclusions is recalled by the accusation made by our self-important, but highly esteemed Boston contemporary that we have been guilty of having "cribbed word for word" from its columns a news item which it cites. We humbly deny our friend's hasty impeachment. The item quoted was forwarded to this office by Fred'k W. Kelsey, nurseryman, New York, as a matter of news, and we published it as sent by him.

Our "simple faith in the value of that New York column as an exclusive source of information" to some scribes remains unimpaired. We have proof of this value every week. But as the fact that others purloin from our columns news and inspiration for editorial preachments, only demonstrates the worth of these columns to representatives and editors who are themselves barren of effort and originality, we rejoice we are thus helpful in aiding their subscribers to get good information, although at second hand.

We ask our readers to be charitable, as we ourselves are, at our contemporary's present discomfiture. One should always make allowance for the impetuosity of youth and inexperience; and have pity for the petulance and peevishness that disappointment brings. It is, however, absurd to accuse us of "cribbing" from a source that never, so far as we are concerned, furnishes anything that tempts us to commit that offence, even were we so inclined.

Our esteemed contemporary also accuses us of being "bumptious." Listen to the following: "Our way * * * is to provide such reading matter as will secure the attention and consideration of the thinking, progressive men, who are buyers of first-class material and able to pay for such."—Horticulture, Boston.

* * * Those firms that seek to do business with the intelligent and progressive people to whom Horticulture distinctly appeals."

Did you ever read anything more "bumptious" than that?

To make slurring insinuations, such as the foregoing quoted paragraphs from our esteemed contemporary does, displays, to say the least, an ignorance of the caliber of those whom the insulting language used unquestionably maligns. We believe, and have during our whole career as publishers of a trade paper believed, that no kind of horticultural literature provided, no matter the supposed ultra-quality of it, fails to appeal to everyone connected with the industries whose interests we seek to advance. Without intelligence and progressiveness, no man or woman can remain long in any business, the florist's included. We also believe, with Dr. Johnson that "to think highly of one's self in comparison with others, to assume by our own authority that precedence which none is willing to grant, must be always invidious and offensive."

Strength in Numbers.

In our last week's issue we gave a fairly complete summary of the proceedings connected with the complaint of the S. A. F. O. H., made before the Interstate Commerce Commission at Washington regarding advanced express rates charged by the United States Express Company between certain specified Pennsylvania and New Jersey points and New York City.

We are not aware by what authority the S. A. F. O. H. makes this fight for a few of its members in a restricted locality against an evil that is only local in its application; nor is that phase of the question one that need be considered here. But as we listened to the proceedings at Washington last week, we were more than ever impressed with the need of strong support being accorded the S. A. F. O. H., when it combats adverse legislation affecting its membership or seeks to remedy existing unjust transportation rates.

"What is this Society of American Florists; what are its objects; how large a membership has it?" were queries that suggested themselves to the Chairman of the Commission and regarding which he sought to be enlightened. And when it was explained to him that the S. A. F. O. H. was an organization chartered by Congress, educational in its character, yet

always safeguarding its members, which numbered "about 1,000," in matters of transportation and otherwise, it was certainly humiliating to hear one of the witnesses, who then sought the society's aid to benefit himself, confess to the fact that he was not a member of the association. And there are numbers of others in a similar position—willing to use the society to further their own ends, but refusing or neglecting to contribute to its support.

We are more firmly convinced than ever that every man and woman engaged in this business should be members of the S. A. F. This is only its right, the duty of every one of its beneficiaries. When the S. A. F. goes before a Governmental body like the Interstate Commerce Commission seeking redress, it adds nothing to the society's prestige or standing to state that, though representing the florist trade of America, its membership is constituted of but one-tenth of those available.

We think every fair minded reader will see the force of our remarks, and conclude, as we do, how necessary it is that the S. A. F. should be as strong numerically as possible. And to bring about this end the present agitation for closer affiliation of florists' clubs and special societies with the national organization meets with our heartiest approval even though that affiliation should assume no other form than the mere open acknowledgment that the S. A. F. is in very fact, as it often is described nominally, the "parent society," and that all other organizations of the class mentioned are subsidiary to it, owing to its allegiance, and engaged in the self-same work which the S. A. F. was created to undertake and perform. There is strength in numbers. Let us then make the S. A. F. as formidable as it possibly can be made. In no other way can the national society do its best work for all concerned.

American Rose Society.

The annual convention of the American Rose Society, held at Washington, D. C., March 13 to 15 inclusive, was a most interesting one, and must be regarded as having been a success.

There seems to be a diversity of opinion as to the work that should be undertaken by the society, as to who should constitute its membership, and by whom its executive affairs should be arranged and carried out.

Some of the commercial men, the original promoters of the organization, and through whose endeavors chiefly the exhibitions have been given and programs of papers read at the meetings arranged, appear to feel that it is still theirs to lead in all matters connected with the society, that the time is not yet ripe for the amateur element to be called in, and that present conditions should persist. There are several others of the members who assert that the society will not measure up to its highest standard of effective work connected with the rose until it can in some way enlist the sympathy and support of the very class to whom the members first referred to see no necessity of at present catering.

Personally we favor the broader policy being pursued. The constitution of the society aims to carry out such a policy, and just so far as the society fails to recognize the need of conforming to its constitution, just to that extent will it frustrate the objects for which it was created.

To paraphrase a remark once made by Patrick O'Mara concerning chrysanthemums, rose culture is broader than the cut flower market, and any narrow view of this question will benefit but little. There is ample evidence, we think, that a large number of those engaged in commercial rose growing show anything but fidelity to the organization that is seeking to promote their interests. Nothing has been added to convince us that any greater interest in the society and its work will be taken by these parties in the future. It is admitted that more funds are necessary for the proper and complete conducting of the society's affairs, and there is a pretty general feeling that increased membership would help along this line.

It is, then, to the amateur element that, we believe, the society must look for an augmentation to its membership list. And the true test of just how far that element will respond has not yet been made. The society has not permanently carried out its intention, as outlined in its prospectus, of holding a June show of roses—an exhibition in which the amateur rosarian would be more largely interested than in a display of facing roses. There is evident an appreciation of the need of a show of outdoor roses, and we are glad that initiatory steps are being taken to enlist the nurserymen—who more than the florist are interested in hardy roses—in bringing forth such an exhibition.

The necessity of providing literature suitable for the amateur rose grower has also forced itself upon the

OUR READERS' VIEWS

Mixing Carnation Pollen.

Editor Florists' Exchange:

My short note in criticism of Mr. Donlan's article in regard to the parentage of Winsor carnation has brought out more than I expected. I should like to make myself clear on this point, that I did not doubt the word of any one. I mention this because Mr. Weber in a recent issue says that Mr. Murray's word should not be questioned. Now I certainly did not do that; nor have I noticed any of your other correspondents doing it. Winsor is, in my opinion, one of the best carnations of to-day, and Mr. Murray deserves great credit for his seedling.

When I opened up the subject I took exception to Mr. Donlan's remarks in which he spoke of the tri-parentage of the variety. In all my experience, I had never heard the word used before when speaking of one generation, and I wanted to find out whether this was Burbankism or something new in fertilization. I find it has all turned out as I fully expected it would.

I thought that the two pollens had been used. I believe that is common enough with some who do a little crossing for amusement; but no matter if ten different pollens had been used. I claim that the seed which germinated and produced the now famous Winsor was only the result of the union of the contents of one pollen grain with that one ovule; therefore it is wrong to use the term tri-parentage.

On page 151 Mr. Donlan has a sentence which is rather amusing. He says, "I for one am ignorant of any authority that can prove the impossibility of mixing pollen." Certainly pollen grains can be mixed. The mere mixing, however, would have no material effect on them. They are each individual multicellular bodies and may be mixed but could not be blended so that two uniting would form one. Now what would be the object of mixing these pollen grains, unless they could be blended?

W. N. Rudd, on page 185, states that he would not dare say that it is impossible for two different pollen grains to act simultaneously in fertilizing the same ovule. I would go further and say that it is impossible, and will believe that to be the case until some one can prove conclusively that it can be done.

Any good text book of Botany treats on the subject of fertilization, some books being more lucid than others. What follows is culled from that source.

The ovule consists of three parts. First, a stalk called the funicle by which it is attached to the parent. Second, one or two coats the integuments which do not completely close at the anterior end, but leave a short canal known as the micropyle. Third, a central cellular mass called the nucellus; one cell of this nucellus increases greatly in size and constitutes the embryo-sac within which, at the anterior end of the ovule (that is to say, the end at which the micropyle is situated) is the oosphere.

Fertilization takes place as follows: The pollen grain falls on the stigmatic surface of the ovary and germinates, throwing out a long tube known as the pollen tube; this extends to the oosphere through the micropyle, and the oosphere is fertilized in consequence of the contact.

In the pollen grain two or more nuclei are present, and the protoplasm is aggregated around them; the transference of the generative nuclei of the pollen tube must take place by diffusion through the softened membrane, as no rupture of the pollen tube has ever been noticed.

Ultimately the nuclei of the pollen tube reaches the nucleus of the oosphere, and the two fuse together, and fertilization is complete.

The effects of the fertilization are, that the oosphere develops into the embryo, the ovule into the seed, and the pistil into the fruit.

Now, it will be readily seen that as it only requires one of the nuclei of the pollen tube to fuse with one nucleus of the ovum to complete fertilization, even were it possible for two pollen tubes to enter the micropyle simultaneously (which I doubt), each nucleus would have to fuse with separate nuclei of the ovum, and the result would be, instead of a mixture of the two pollens, there would be two embryos formed. W. H. WAITE.

Growing Gladiolus with Carnations.

Editor Florists' Exchange:

I read with interest the article on page 319, March 9 issue of The Florists' Exchange regarding the experience of Messrs. J. Bebbington & Sons with the forcing of gladioli among carnations, and as I am particularly interested in and have made many experiments with this bulb, both in the fields and under glass. I trust I will not too much encroach upon your space in offering a few suggestions.

In the first place most florists who force gladioli are apt to cut the spike too near the soil, unless they use the individual flowers for funeral work, or are satisfied with a shorter spike, and in cutting leave enough foliage to fully develop the bulb. If the spike is cut too close to the soil, the bulb is damaged and will not the next year, either under glass or if grown outside, do as well. I have found that to give the forced bulbs one year in the ground before forcing the second time increases their vitality, and I feel quite sure if this had been done by Messrs. Bebbington & Sons, they would have secured better results with their early planting; although I do not recommend planting in the house much if any before January 1. In solid beds I have produced excellent spikes in 90 days with the earliest varieties, but among carnations it usually takes from 98 to 105 days.

While the roots are forming on the bulbs, the temperature should not be over 50 degrees at night, and 60 degrees during the day, but after they are well established 55 degrees at night and 65 degrees during the day is not too warm for them. The main point is not to have the temperature too high until they are well established. A light dressing of three parts of ashes and one of bone meal applied at the time of planting the bulbs will more than repay for the trouble and expense. ARTHUR COWEE.

Berlin, N. Y.

Box Edging.

Spring is the proper time to make cuttings of box-edging. In nurseries many old shrubs of box are used for cuttings. The longer the naked parts of the stem put in the ground, the more sure of rooting is the shoot. Because of this it is not uncommon to set such shoots—cuttings of a foot or more in length, burying all but the part bearing the foliage and then when rooted well, say after two seasons' growth, taking them up and chopping off the greater part of the stem, leaving only about six inches of length, as this length will be well rooted as far as it was underground. Believing it saves time many chop away all the stem but six inches before the first planting, but it is the experience of planters that such short chopped ones do not root as freely as those with longer stems.

When plants are but small there are no troubles expected in the way of rooting, as it is always possible to so divide the plants that a few roots are attached to every part divided.

As with many other hardy shrubs the box has been taken hold of for Summer propagation in greenhouses, and large numbers are now rooted in this way. Half ripe wood is used for the purpose, and with ordinary care practically all will root; and this young stock is of just the size desired by those who wish to plant an edging of box after it has had two years' growth or three.

Box should be planted as soon as possible after the ground is fit in Spring that the soil may be well settled around the plants before hot weather comes. In the Southern States it is better set earlier than Spring, even in Autumn where hard freezings do not occur. With late plantings and hot suns, box has a hard struggle to root well the first season, and becomes weakened thereby. JOSEPH MEEHAN.



Mrs. Henry A. Dreer.

Mary Leavenworth Dreer, widow of the late Henry A. Dreer, and mother of Wm. F. Dreer, Philadelphia, died Tuesday in Pasadena, Cal., in the eightieth year of her age. The remains will be brought to Philadelphia and buried at Woodland Cemetery.

Mrs. Dreer was born in Reading, Pa., September 27, 1827, where she was married June 22, 1847, and went to Philadelphia to live. She was descended from Puritan and German stock, inheriting their sturdiest qualities. She was deeply religious and patriotic. Notwithstanding the arduous duties connected with a large family, she found time for church affairs and charities. During the Civil War she was a constant visitor to the Satterlee Hospital, West Philadelphia, and opened her house to receive convalescent soldiers. She was a prominent member of the Sanitary Commission, having charge of the horticultural department at the great fair in 1864. The following year she went as delegate to the Chicago Fair. She was active in the building of the Northminster Presbyterian Church and Horticultural Hall, was a manager of the first Young Women's Christian Association, the Presbyterian Home for Aged Women and various other charitable organizations of Philadelphia. In 1888 she visited California, returning there two years later to live in Pasadena. Mrs. Dreer is survived by four daughters and one son.

Rose Society, resulting in the proposition to publish a periodical which shall meet this requirement. We presume the commercial man is already well supplied along this line.

The Rose Society cannot in justice to itself limit or restrict either its scope, operations, or membership. Such a narrow-minded view would, in our opinion, be suicidal. Open the doors wide. So shape your work that every phase of rose culture will be entered to and advanced by your operations, and strive to have the membership of the American Rose Society fully representative of the rose interests of the United States—as it should surely be.

BOOKS RECEIVED.

PEONY MANUAL, Second Edition. By C. S. Harrison, York, Neb. Paper, Price 25c.

In this the second edition of the Peony Manual Mr. Harrison has entirely revamped the contents, besides having drawn liberally from the literature on the peony appearing since the first edition was issued, thus adding considerably to the value of the booklet. In quoting from The Florists' Exchange the author has inadvertently, we presume, given credit to another trade paper for the information he publishes concerning the "Twenty-four Best Sorts." The herbaceous varieties of peonies have been found hardy in South Dakota and as far north as Manitoba; and Mr. Harrison says they are "like the Rocky Mountain burro that bears any amount of misuse or neglect, and yet patiently plods along." A long list of the leading varieties is furnished, with the names of the originators where known, and the date of introduction. Speaking of Lady Alexandra Duff, the author characterizes it as "Kelway's myth;" and he quotes E. J. Shaylor of Massachusetts as saying that he is "led to the conclusion that there is no such peony as Lady Alexandra Duff or Lady A. McDuff, as it was first called. It has been, probably, a re-naming of an old French variety from the very beginning." Mr. Harrison finds the Japanese peonies rather disappointing: "their names are yet a jumble of confusion. They bear no comparison with the chionensis."

That the author is an enthusiast on the subject of the peony is evidenced by his glowing account of the Boston show last year, and his optimism concerning the future of this now popular class of plants. He writes in what may be termed a conversational style, and is not slow to censure, by name, firms guilty of flagrant objectionable practices in their dealings. Notwithstanding the promiscuous presentation of the matter furnished, there is a host of good, solid information contained in Mr. Harrison's little book.

PUBLICATIONS RECEIVED.

THE DAHLIA NEWS. Issued monthly by The New England Dahlia Society, Maurice Fuld, Secretary, 5 Union street, Boston, Mass. 4 pp.

We have received Volume 1 Number 1 of this publication, which is the organ of the recently organized New England Dahlia Society. It contains an announcement by Secretary Fuld as to the aims and objects of the society, list of officers and members, the latter already numbering 113; an interesting and informative article on "Field Roots vs. Pot Roots vs. Green Plants," by Wm. F. Turner, a dahlia specialist of New Bedford, Mass. and a page of dahlia advertisements. The society plans to give all the dahlia news of interest in future numbers of the periodical.

We commend the procedure of the New England Dahlia Society in the issuance of this publication, a feature worthy of adoption by other special organizations catering to a general clientage. The following quotation from Mr. Fuld's opening announcement is worthy of consideration: "Many horticultural societies furthering the interests of but one flower are now in existence in this country; their progress has been extremely slow and their accomplishments consequently few. This has been due largely to a lack of originality in creating a popular interest for their respective favorites," etc.

The Green (?) Carnation.

Editor Florists' Exchange:

I have just noticed in two of the recent numbers of The Florists' Exchange a protest against the degrading practice of dyeing white carnations green. I have often wished when short of white flowers for funeral work and could not procure them, I could turn other colors into white; but never had a thought, nor could I understand how a white carnation by this process could be made to symbolize the emblem of Ireland, the shamrock, or St. Patrick's important mission as representing the Trinity. I wish to add my testimony against it, with J. I. Donlan, also D. M.

J. BEBBINGTON.

Azalea Culture in Belgium.

In the course of his remarks on a recent trip to Europe, William Kleinheinz, gardener to Mrs. P. A. B. Widener, Ogontz, Pa., gave the members of the Pennsylvania Horticultural Society the following account of the method of azalea cultivation in Belgium:

"For grafting, the pink *Azalea indica* is used. The grafts are propagated by cuttings from December 1, grown for a year in small pots to single stems. They will make a growth of from 10 to 18 inches in the season. After grafting in December the plants are plunged in a propagating bed with sufficient bottom heat, and close to the glass, until they begin to grow vigorously, after which they are removed to a suitable house. In Spring, as soon as the weather is safe, the young plants are set out in beds, where they are allowed to remain until Fall. At this time the young plants, as well as the old ones not sold, are lifted and placed on benches in shaded houses. As soon as outside work is over, the azalea grower starts in to remove all the flower buds and to trim the plants into shape. The plants are either potted up or planted out in benches as close as possible, and are kept there all Winter in a temperature a trifle above the freezing point. When the weather again moderates they are planted out in the open ground, in beds about five or six feet wide. Of these plants, the strongest are sold in the Fall, according to the sizes wanted, and the remainder go through the course of indoor treatment as described. To describe the rich, black soil with which the Belgian azalea grower is favored would be to waste your time—every gardener knows what a wonderful, rich soil it is."

Mr. Kleinheinz also spoke enthusiastically of the Sander establishment at Bruges, mentioning among the new things seen there *Cypripedium Curtisii nobiliss.*, the sepals and petals of which much resemble those of *Cypripedium Lawrenceanum*, the labellum being dark red. Also a new seedling croton of the type of *Craigii*, but with larger foliage and of a more vigorous growth.

Hybridizing Azaleas.

Much interest was shown by European cultivators in North American azaleas during the first half of the nineteenth century, and considerable numbers of hybrid seedlings were raised, many of which received semi-scientific names, indicating their colors or special cultural qualities. *Azalea nudiflora*, the common "dwarf honeysuckle," or Pinxter flower of eastern woodlands, has given the greatest number, while *A. calendulacea*, the Flame flower of the Allegheny Mountains, comes next. The fragrant or swamp azalea, *A. viscosa*, has also been quite fruitful in varieties, certain of which, we are informed, are still much used as stocks on which to graft the finer hybrids of other species. While these old varieties of our native azaleas are now little cultivated under their original names, they survive, in a measure, in the strain of hardy hybrids collectively known as *A. gandavensis*, as they originated and have long been commercially grown in the vicinity of Ghent, Belgium. The present Ghent azaleas appear to be



Vanda Sanderiana

As Flowered in Missouri Botanical Garden

dilute hybrids of *nudiflora*, *calendulacea* and to a smaller extent, with the oriental species *A. pontica* and *A. sinensis*. There are single and double flowered varieties, ranging in color from cream white through pink, rose and crimson to blood red; many with yellow and orange markings. *Viscosa floribunda* is pure white, fragrant and, of course, takes its character from our Summer blooming swamp species. There is little trace in the Ghent azaleas that have reached this country of the influence of the California species, *A. occidentalis*, of the tree azalea of the eastern uplands, *A. arborescens*, nor of the more recently discovered pink azalea of the Carolina mountains, *A. Vaseyi*. Strangest of all there is no indication of the influence of the *Rhodora*, *A. canadensis*, though this very distinct eastern species has been known in Europe since 1767, and crosses have been effected between it and one or two of the hardy evergreen rhododendrons.

Present European interest appears to run toward the breeding and propagation of the tender greenhouse kinds, chiefly seedlings of the very variable *A. indica*. They are grown in immense quantity in the rich, moist lands of Belgium and Holland, and form an important article of export to other countries, where they are extensively used for conservatory decoration and for Easter blooming. Some very good hardy forms of the Indian azalea have originated in Japan, where this charming plant is much appreciated, and are being increasingly planted in this country. The variety known as *amœna*, with profuse rose-purple blooms, is now seen everywhere.

Hiodegiri is a more recently imported form of *amœna*, with bright red flowers, apparently as hardy and prolific as the type. Other varieties, apparently cross-bred with various oriental species, have large flowers in many shades of cream, rose and purple. They bloom late and are sometimes unfavorably affected by our hot sun, but fairly hardy as regards cold after becoming well established. These azaleas are described as rhododendrons by modern botanists, but the former name is generally used horticulturally.

Breeding Native Species.

Systematic breeding of our native species, both together and with the Old World forms, has been under way on the Rural Grounds for the past six years. While we may not produce anything superior, in a decorative way, to those already known abroad, it appears possible to select seedlings better adapted for our comparatively dry climate than those developed under the humid conditions of Japan or the Netherlands of Europe. The most showy imported varieties other than *amœna*, which is ever a delight when properly grown, are sold under the name of *Azalea mollis*, a synonym for *A. sinensis*, and bear profuse clusters of large red, yellow and orange blooms in May. Nothing more dazingly effective can be imagined than well-flowered *mollis* varieties for a year or two after planting, but the bushes seldom increase in size in this country, even under the best of care, and rapidly fall off in bloom after the first outburst. Seedlings are quite easily grown and bloom well for a few seasons, but have little permanency, soon beginning to decline. By hybridizing selected *mollis* varieties with our Pinxter flower, *A. viscosa* and *A. arborescens*, we have produced a race of vigorous and extremely floriferous half-breeds with rose, salmon and creamy white flowers, that are so well adapted to our climate that they appear inclined to grow into fairly large shrubs. Being nearly sterile they do not exhaust themselves by seed production, but set their bloom buds so thickly that they are covered in May and early in June with veritable wreaths of bloom. Those having *nudiflora* for the pollen parent are most showy, some having a fair development of foliage before the flowers open. The seedlings of *viscosa* and *arborescens* are less striking, the colors being quite pale, but have the advantage of pleasing fragrance and more foliage at flowering time. Our hybrids of the *mollis* section do not compete in brilliancy of color with the foreign kinds, but have their own distinct beauty and refinement. We have made no attempt to propagate these seedlings, and doubt if it would be commercially practicable under present conditions of nursery labor to do so in this country. It would doubtless be easier to continue their production by repeating the original hybridization. Many other crosses have been made with Ghent varieties, and with the hardy kinds of Japanese origin. These later seedlings have not yet bloomed, but we find them far more thrifty than direct hybrids between native species. Seedlings of *occidentalis* and *Vaseyi* are good growers, and the latter are particularly noticeable for the extremely rich and brilliant Autumn colors of their foliage. All appear hardy if heaving by frosts can be avoided until the young plants are established. We hope to continue this work through successive generations where the hybrids retain their power of seed or pollen production.—Dr. Van Fleet, in Rural New Yorker.



Primula Obconica

Grown for Easter by Wm. Berger, Germantown, Pa.

Vanda Sanderiana.

This magnificent species, native of the Philippines, is undoubtedly the finest of the genus. It was discovered by M. Roebelin, the collector for Messrs. Sander & Sons, St. Albans, England in 1882; having been found growing on trees, its thick fleshy roots hanging down for a considerable distance, enabling it to obtain an abundance of moisture. The flowers are large, varying from 3½ to 5 inches in diameter, and almost flat; the dorsal sepal is of a delicate rose color suffused with white; the lateral two are tawny yellow crossed and re-crossed with prominent sanguineous red veins; petals smaller than the sepals, colored like the dorsal sepal with a tawny blotch spotted with red on the side next to the lateral sepals; lip comparatively small, different from the other species in the absence of a spur; it is usually of a dull tawny yellow streaked with red on the inner side.

The species enjoys a stove temperature, where an abundance of moisture can be obtained. The potting material should consist of sphagnum moss and peat; well drained pots or baskets should be selected. When the plants become old, the stem just beneath the leaves should be bound round with moss, and kept moist to induce it to root, after which it may be severed from the old stem and potted. The old stem will soon start to send out new shoots and form a specimen plant. G. H. P.

this country are doing wonderfully good work, when you consider seriously how they are always hampered and confronted by the specter of practically "no funds."

Secretary Hammond has made the suggestion "that the American Rose Society award its medals to special rose exhibits of various local societies," and goes on to explain how appreciative the Annandale Horticultural Society of Tarrytown, N. Y., was of this great honor. Should the American Rose Society adopt such a course generally, to my mind the stimulus thereby given to rose culture in America would be beyond estimate.

Again, why not allow members of all local societies in good standing to become associate members of the American Rose Society? Again, how would it do to allow such "associate society member" to pay to the American Rose Society an annual due sufficient to cover the cost of such medal or medals?

It would then perhaps be financially fair on both sides—the local society would be honored by the medal award from the official source, and the parent society would be strengthened by whatever influence for good the associate organization might command in its territory.

CLUB AND SOCIETY DOINGS.

NEWPORT HORTICULTURAL SOCIETY.—A regular meeting of this society was held Tuesday evening, President Butterton in the chair. A communication was received from S. G. Harris, Tarrytown, N. Y., offering a premium of \$15 for a collection of roses exhibited by private gardeners of Newport. The offer was accepted with thanks. The schedule of premiums for the June show was approved after some slight alterations. This list includes twenty-five premiums for exhibits by school children, besides three premiums for school gardens. The president was appointed to act as judge of the merits of the school gardens and announce awards. D. M.

THE ELBERON (N. J.) HORTICULTURAL SOCIETY held its regular meeting on March 18, President W. D. Robertson in the chair. A. Greib, superintendent for S. Sachs, gave an address on violets, which was both interesting and instructive.

A. Rickard of New York, and W. F. Ross of Tarrytown were present and made a few remarks.



Members of the American Rose Society at Washington, D. C.

Photograph taken immediately after Reception by President Roosevelt, March 14 1907.

The American Rose Society's Medals and the Financial Question.

Editor Florists' Exchange:

I have several times re-read, and most seriously and earnestly pondered Mr. Hammond's report as secretary of the American Rose Society. It is what the writer calls a most factful-fool-for-thought reference to the one vital question of the financial needs of every branch of our horticultural work—how can the needed amount of annual funds be raised to properly carry on any given work? Our established horticultural and agricultural societies, as well as the older established florists' clubs of our large cities, do not have the ever present question of "ways and means" before them as a very much alive issue. These well-fixed financially organizations can devote their meetings in any manner that may seem best to their members without the restricting band of the money question. The reverse of this is true of the hundreds of smaller florists' clubs and kindred societies.

I have prefaced the few thoughts I am calling your attention to as above, for this plain truth—I believe that the very smallest horticultural organizations in

I speak of this exchange of financial obligation, as I firmly feel that every society must, to be successful, be absolutely self-sustaining.

Now some will say that this contradicts what I have just so clearly made plain—that the smaller organizations are always cramped for funds, and therefore have none to pay out. But my sincere belief is, that any society or florists' club can well afford to become an associate and corresponding member of such an organization as the American Rose Society. If necessary the expense thereby incurred could be met by a reduction of the local society's prize appropriation. The good that would be accomplished by any local society connecting itself officially with the American Rose Society would be worth any amount of self-denial necessary to accomplish such an honor. The writer earnestly and sincerely trusts that this plan of awarding the medals of the American Rose Society, through the local societies, will be at once put in force. Secretary Hammond's recommendation will appeal to every lover of the rose. M. R. FAXON.

A Correction.

In the paper of Theodore Wirth on Roses for Outdoor Culture, appearing in issue of March 16, page 360, the variety Papa Gontier is given as an H. R., instead of an H. T. rose.

The exhibitors at this meeting were W. D. Robertson, who scored highest with a vase of Cattleya Schroedere; J. Kennedy, a vase of Narcissus Princeps; A. Greib, vase of Violet Princess of Wales; P. Murray, vase of callas; F. Detlinger, vase of Violet La France; A. Bauer, vase of Stock Princess Elizabeth; B. Wyckoff, vase of the grape hyacinth, and H. Wood, a specimen azalea. G. M.

CONNECTICUT HORTICULTURAL SOCIETY.—The regular meeting of this society was held at Hartford, on Friday evening, March 22. Vice-President Hoss in the chair. It was "rose night" and splendid exhibit were tabled. Among the leading exhibitors were: John Coombs, florist, Hartford; Carl Peterson, superintendent of the Whiting greenhouses, West Hartford; N. Nelson, gardener at the Retreat and J. F. Huss, superintendent to J. I. Goodwin. In addition to a large turnout of regular members, there was a good public attendance and much interest was evinced in the fine exhibition.

An animated discussion, ensued on rose culture in general and on the merits of grafted or own root plants in particular. J. F. Huss, Carl Peterson and N. Nelson led the discussion, and as might be expected, the consensus of opinion was in favor of grafted stock. Diplomas were awarded to Messrs. Coombs, Peterson and Nelson, and a certificate of merit to J. F. Huss. A committee was appointed to arrange for a Fall show.

Boston Spring Flower Show.

Never before was such a horticultural exhibition seen in Boston, or in America for that matter, as the Spring show of the Massachusetts Horticultural Society, which was held on March 22, 23 and 24. Of recent years there seems to have been a lack of interest at many of the exhibitions of this old society, but the superiority of the present show over any previous one of its kind demonstrates conclusively that new interest has been awakened and that the flower lovers of to-day can far supersede any of their illustrious progenitors.

The show was simply grand. The halls were all filled. There were hundreds of fine plants and there were many rare species that people had been led to believe the present day gardener did not know how to grow. The magnificent plants of acacias that, with their pleasing color, did so much to make a fine exhibit, brought back to many a gardener olden times when these hardwooded plants used to be in their heyday.

To the commercial grower as well as to the private gardener is due the credit of making this excellent exhibition, for each did much in his line to show wonderfully fine exhibits. I have heard it said several times, and I believe, truly, that Horticultural Hall never before held an exhibition where there were so many fine plants and such a varied assortment of varieties and species.

To the arrangement committee is due much credit for the harmony of color effects throughout; the whole exhibition was very pleasing and showed the splendid taste of those in charge. But to many of the individual

of cyclamen, cinerarias and foliage plants, while on either side were the groups of R. & J. Farquhar & Company and the Harvard Botanical Gardens, already mentioned. A fine group of foliage plants was staged by Edward McMullin; and Hoffman, the Back Bay florist, had a group of Easter plants the arrangement of which was unique. It succeeded in capturing the first prize. Jos. Breck & Sons made a nice exhibit of foliage and Spring flowering plants in oak jardinières; and an excellent group was put up by Wm. Rust, gardener to Dr. C. G. Weld.

T. D. Hatfield, gardener to Mr. Walter Hunnewell, showed some excellent plants of acacias, and Wm. Thatcher, gardener to Mrs. J. L. Gardner, captured Julius Rehrs Company special prize for collection of hardwooded plants. The collection contained among others such fine old-fashioned subjects as *Eriostemon intermedius*, *Chorizema ilicifolia*, *Rouletia gratissima* and many fine acacias in variety.

James Garthley, gardener to Mr. H. H. Rogers, exhibited a fine collection of Spring flowering and bulbous plants. One of the features of the exhibition was the hybrid amaryllis from W. C. Ritchie, gardener to Mrs. J. Montgomery Sears. J. R. Clarke & Company of West Roxbury exhibited a collection of hardy plants in pots; and a fine lot of group of schizanthus was put up by Wm. Thatcher.

M. H. Walsh of Woods Hole, Mass., displayed some excellent plants of his Rambler roses including the varieties *Celestia*, *Jucinda*, *Babette*, *Hiawatha*, *Arcadia*, *Lady Gay* and *Milky Way*. The latter variety received

State; William Sim for new violet, Boston; James Crosbie, gardener to Mrs. J. W. Tufts, for superior cultivation of *Dendrobium nobile*; J. E. Rothwell for *Dendrobium nobile virginale*; and to Thos. Watt for superior cultivation of azaleas.

Silver medals were awarded to R. & J. Farquhar & plants; William Sim for superior cultivation of Winter-Company for superior group of Spring bulbs and flowering sweet peas; and to Geo. M. Anderson, gardener to Mr. J. H. Brooks, for a display of cyclamen. This latter exhibit was exceptionally fine; the group contained many plants all well grown and flowered and of a very even size.

Honorable mention was awarded to Joseph Breck & Son, for display of oak jardinières and collection of bulbs; W. W. Rawson & Company for bed of Spring bulbs and plants; H. A. Jahn, seedling carnations; Mrs. E. S. Grew, vase of Farquhar's annual pink lupin; Wm. Whitman, plant of *Cattleya Schroedera*; R. & J. Farquhar & Company, *Begonia Gloire de Lorraine* superba; Julius Rehrs Company, new azalea *Julius Rehrs*.

Votes of thanks were given to R. & J. Farquhar & Company, for superior group of Spring bulbs and plants; C. S. Sargent, agave in bloom; F. Heeremans, vase of gardenias; Dr. C. G. Weld, rhododendron *Mary Weld*.

In the general schedule for plants the prizes for azaleas went to Mr. Wm. Whitman (Martin Sullivan, gardener), first; The Fahyan Estate (James Stuart, gardener), second; and E. W. Breed, third. For pair of palms Mrs. Frederic Ayer (Geo. Page, gardener), was first and Wm. Whitman, second.

Mrs. Ayer took the prize for ericas. For orchids Wm. Whitman was first; J. E. Rothwell second, and James Stuart third. For specimen plant of acacia Mrs. Ayer was first and James Stuart second. For twelve plants of acacias Thos. Roland was first with a superb lot of plants and Mrs. Frederic Ayer second. M. H. Walsh took all the prizes for Rambler roses including two firsts, one second, and a silver medal. The cyclamen exhibits were equally up to the high standard of those shown in Boston. Dr. C. G. Weld (Wm. Rust, gardener), was first for best 10 plants; and James Stuart first for best group. Cinerarias were exceptionally fine and although the plants were not as large as formerly they had a fine finish, especially those of the *stellata* type. There was a large lot of exhibitors of bulbous plants, the principal prize winners being Wm. Whitman (Martin Sullivan, gardener), who had extra fine lots of plants; Mrs. A. W. Blake (J. L. Smith, gardener), and Mrs. J. L. Gardner (Wm. Thatcher, gardener).

In the cut flower classes the Waban Conservatories captured first for American Beauty, Bride and Bridesmaid roses. W. H. Elliott was first for Richmond and Killarney, exhibiting superb vases of each variety. The Exeter Rose Conservatories were second in each of these last named classes.

In the carnation classes, for vase of 100 blooms Albert Roper was first with Bay State; F. R. Pierson Company second with Winsor. Other prize winners for carnations were Wilford Wheeler, who took two firsts; S. J. Goddard, three firsts and one second; E. A. Wood, one first; H. A. Stevens, one first; C. S. Strout, one second; and Backer & Company, three seconds and one third.

The exhibitors of violets were Lanis Smith, N. F. Comley, E. Bingham and H. F. Woods, each capturing several prizes.

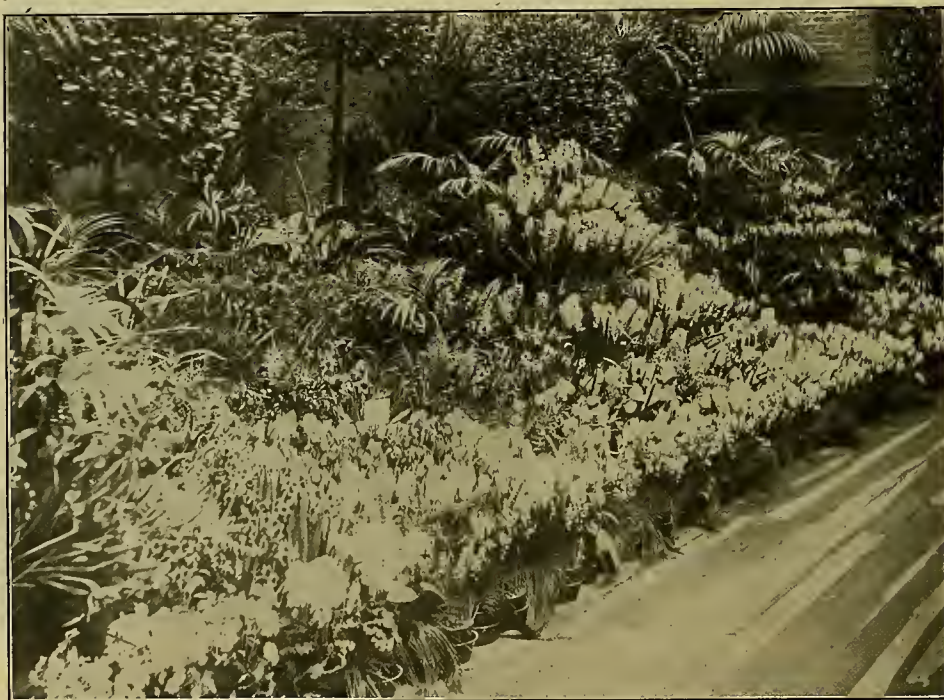
The exhibition was very well patronized, the attendance on Saturday and Sunday being above the average. Music was furnished in excellent style by a young ladies' orchestra, which recently performed at the automobile show, where it also proved an attraction.

J. W. DUNCAN.

Pennsylvania Horticultural Society's Spring Show.

The annual Spring show opened in Horticultural Hall, Broad street Philadelphia, on Tuesday. The date of the show was a bad one for the trade, but was fixed to suit the private gardeners, who are the chief exhibitors.

The display of hyacinths and tulips was far ahead of anything previously seen here. The chief exhibitors in hyacinths were Mrs. R. J. C. Walker (John McClary, gardener); Mr. P. A. B. Widener (Wm. Kleinheinz, gardener); Mr. James W. Paul, Jr. (Joseph Hurley, gardener); and Mr. John W. Pepper (Wm. Robertson, gardener). They secured prizes in about the order given. The exhibits were so good that a selection of the best is difficult. Among the newest and best single hyacinths were William I, dark red; Lady Derby, blush pink; and the following good pinks: Kohinoor, Jacques, Morens and *Rosea maxima*. The best whites were La Grandesse and *I'Innocence*; in blues *Mauve Queen*, *Potgeiter*, *King of the Blues*, and *Eochantress*. The best double hyacinths were *Kastanjabloom*, pink; *La Grandesse*, white; and *General Koehler*, blue.



Group of Spring Flowers at Boston Show

Exhibited by R. & J. Farquhar & Co.

exhibitors is due equal credit for the excellent manner in which the exhibits were staged. As an example of this the splendid color arrangement of the group of Spring flowering plants of R. & J. Farquhar & Company was perhaps never equaled at any of the exhibitions, and at once showed that it had received the careful forethought and critical study of Mr. Farquhar. The group from the Botanical Gardens of Harvard University showed also much taste in arrangement, and at once proclaimed the excellent artistic taste of Mr. Cameron.

On entering the hall the first pleasing sight to the visitor was a bed of tulips and Spring flowering plants put up by W. W. Rawson & Company and tastefully arranged by Mr. Fuld. The same exhibitor had also a hardy Spring border effect in the main hall which was very pleasing and educational. It contained many fine varieties of narcissus, tulips, crocus, violets, primroses, etc.

On entering the loggia a very pleasing group of plants, bordered by a magnificent lot of tulips, was to be noticed, exhibited by R. & J. Farquhar & Company. The varieties included *Sir Thomas Lipton*, *Keizerkroon Kroon*, *D'Or* and *Tulipa Fosteriana*, a beautiful new variety from the Caucasus.

In the center of the main hall were excellent groups

a first-class certificate, the others having been previously given awards.

Julius Rehrs Company, Rutherford, N. J., made quite an exhibit of foliage plants of merit; and Lager & Hurrell, Summit, N. J., exhibited a collection of orchids in many fine varieties. Emil Johannsson, gardener to J. E. Rothwell, staged two hundred bottles of cut orchids in 125 varieties, including some fine spikes of *Phalaenopsis analibis Rimestadiana*, and *Cattleya luminosa* of excellent colorings. This lot captured the Appleton silver gilt medal.

One of the finest plants in the hall was a new hybrid Himalayan rhododendron, *Mary Weld*, a seedling raised some years ago by Kenneth Fiulayson and exhibited by Wm. Rust. It received the award of first-class certificate. Another comparatively new plant was *Primula Kewensis*, exhibited by Thos. Coles, gardener to General S. M. Weld, which also received a first-class certificate.

Other first-class certificates were awarded to George Page, gardener to Mrs. Frederic Ayer for superior cultivation of *Marguerite Queen Alexandra*; Thos. Roland for superior cultivation of genistas, which by the way were quite an attraction; Lager & Hurrell for *Calanthe vestita igneo-oculata gigantea*; Peter Fisher for carnation *Beacon*; Albert Roper for carnation *Bay*

In tulips the most noticeable were Pink Beauty, Joost Von Vondel, white; Hobbema, salmon pink shaded lilac, a very fine variety; Mon. Fresor, yellow and Prince of Austria. Toreador and Salvator rosea were the best of the double tulips.

Glory of Loden is a new narcissus of the trumpet class and a very good one—clear yellow; it was much admired.

The geraniums exhibited by Mr. John W. Pepper were, as usual, very good, many plants being four feet in diameter. Among the most striking varieties were Mary Benton, white; Mme. Chas. Molin, light pink; and Alphonse Ricard, semi-double. Milfield Rival, exhibited by Mr. James W. Paul, Jr., took first for specimen geranium; the plant was five feet in diameter, well covered with flowers of a bright pink with light eye.

The Cineraria stellata plants from Mr. C. B. Newbold were a great feature of the show, several being four to five feet in diameter and of good assortment as to colors.

Nephrolepis Whitmanii, in a 14-inch pan, from Mr. James W. Paul, Jr., was a grand plant; it had a spread of four feet and all the fronds were perfect.

Deutzia Lemoinei was largely exhibited; it is quite an advance over old varieties. Some of the plants were three feet high and as much through.

The lilies were very good this year, plants more even and better flowered. Spiraeas also were very good; Superba and Gladstone were the chief varieties.

The new rhododendron Fink Pearl is a great acquisition to forcing plants—a delicate blush pink and a very large truss. Every florist should grow this next year.

In the commercial classes, John E. Haines, Bethlehem, Pa., staged his new carnations Imperial and Pink Imperial and John E. Haines—all very good flowers. W. A. Manda, South Orange, N. J., showed two carnations; seedling Number 1, a very nice light pink, and seedling Number 2, a good white; he also staged flowers of Passiflora princeps and some flowers of the Cherokee rose.

One of the features of the exhibition were beds of hyacinths and tulips forming the design of the original American flag. The first prize bed from Mr. P. A. B. Widener (Wm. Kleinheinz, gardener), was very well done, and of good quality. The exhibits of hyacinths and tulips were so good and competition so keen, that the judges had much difficulty in making their decisions. The judges said it was the best exhibit of bulbous stock that had ever come before them. DAVID RUST.

A Few Notes on Jamaica, W. I.

BY WILLIAM FALCONER.

The recent earthquake calamity has brought Jamaica before the eyes of the whole civilized world, but so far as I have seen very little has been said about the natural conditions and vegetation of the island, and this being so, as I spent some busy weeks there a few years ago, maybe a note or two horticulturally on this most lovely West Indian land may interest a few of your readers.

Jamaica lies about 90 miles south of Cuba and is somewhat turtle-shaped, and about 144 miles long by nearly 50 miles wide; it has a surface area of



Silver Medal Group of Cyclamen at Boston Show.

Exhibited by George M. Anderson.

over 4,200 square miles, equal to over 2,692,500 acres. It is familiarly termed "The Gem of the Antilles," and well so, for it is one of the most beautiful spots on earth. Near the sea and here and there inland near the rivers there is a good deal of comparatively level land, but most of the interior is exceedingly mountainous. Blue Mountain peak is 7,423 feet above sea level and this is higher than any mountain peak on the North American continent east of the Mississippi River.

The south side of Jamaica—where Kingston is—is somewhat hot and dry; the north side is more salubrious and moist, the rainfall there being 100 to 130 inches a year. Jamaica is thoroughly English, the English language is the only one spoken and the money is £. s. d. The island is densely populated; about 720,000 people live there. Of these 15,000 are said to be true whites, 12,000 or 15,000 East Indian coolies, and 690,000 colored people varying from darkest Africa to white-skinned, blue-eyed hybrids. The color line as we know it is unheeded, miscegenation troubles no one; in churches, at balls and parties colored and white appear on equal footing. Some 67 per cent. of the children born in Jamaica are illegitimate!

The whole island is one of extravagant beauty and the tropical luxuriance of the north slopes is only excelled by Trinidad. At the same time everywhere I was struck by the absence of big forest trees. The ceiba was the greatest and it hugged the lowlands and as individuals mostly. Along the roadsides the bread fruit abounded and it is the most tropical looking tree in the West Indies; but it is not native there, it comes from the South Sea Islands. Next is the Akee apple from West Africa and the mango from India. The mangoes are naturalized everywhere. Common also are star apple trees, calabash, poinciana, mahoes, rain tree, Kola trumpet tree (spathodia), immortelle tree (Erythrina umbrosa), cedar (Cedrela odorata), etc. I saw enormous bamboos in many places, notably at

Dog Walk, but little use is made of them, the wood is so perishable.

The Principal Gardens.

Private gardens are not pretentious, nor is there much attempt at tasteful effect. Spottiness prevails, and too often the plants are allowed a choking go-as-you-please disposition. This is disappointing in a land of infinite variety.

THE PARADE GARDEN, or public park, at Kingston is fairly well shaded with trees, but it lacks the refinement of our American city parks.

THE KING'S HOUSE GARIBENS around the governor's residence a few miles out from Kingston are well kept and contain many fine trees and a large assortment of shrubs. Here I saw Pothos argyrea, a variegated-leaved vine, with foliage as big as large rhubarb leaves and running up tree stems 50 feet high. An avenue of rubber trees (Ficus benjamina) was very striking. The trees were small-leaved, evergreen, and had broad, spreading heads of arching branches glorying in the blazing sun. The genus Ficus revels in sunshine. Some may recall the tiny creeping Ficus repens that luxuriates with the ferns in the shady parts of our greenhouses, but on a stone fence at Director Fawcett's home in Jamaica this little creeper, unshaded in any way, in happiest mood was clothing the stones in evergreen.

HOPE GARDENS, five miles from Kingston, is the chief botanical garden and institution of the West Indies. It is conducted both as a botanical and experiment garden, and ornamental and economic plants are propagated for sale and distribution. It contains a great variety of plants, and a day spent there is an indelible education to a botanist or horticulturist. Here I find most every economical tropical plant imaginable in fruit or maturity, from the ginger to the pineapple and nutmeg, and the gigantic teak-wood tree. The Liberian coffee, a magnificent evergreen tree, was laden with large, showy scarlet berries; it was one of the prettiest fruited plants I ever saw.

THE BOTANICAL GARDENS AT CASTLETON, 19 miles East of Kingston contain the finest collection of mature palms in the West Indies, also many economic plants. They comprise ten acres. Situated by the Wag Water river and on an uneven foothill between high hills, its climate is sultry and oppressive and it is said to be a perfect hotbed of fever. When I was there the superintendent was absent on a six months' sick leave, and looking out from his dining room window I was shown a mound on a hillock a little way off; it was the grave of his predecessor. Here I saw the Amherstia nobilis in bloom. It is a bush tree from the East Indies and one of the loveliest gems in the Universe. Had there been a duplicate in Jamaica, east what it might, it would have moved to the Phipps conservatories at Pittsburg; but there wasn't so far as I could hear. At Bath, the east end of the island, is an old botanical garden containing a collection of palms and tropical trees.

THE HILL OR CINCHONA GARDENS, at an elevation of 4,900 feet, are on the slope of the Blue Mountains and a little over 20 miles back from Kingston. Here years ago Peruvian bark was cultivated, also tea and many other economic plants. Now, if I mistake not, the garden and its buildings are occupied by the New York Botanical Garden people. Here I found lots of our northern plants at home, tea roses blooming beautifully, the tree tomato laden with fruit, and Dahlia imperialis run wild and are a shower of blossoms. Shell flower and yellow and white hedychiuns were as happy as in a swamp in Florida, and young Chinese pines, silk oak, gum trees, etc., gave promise of arboreal vigor. But for 10 or 12 miles the only way of getting up here is on pony or mule back and over narrow mountain trails.

(To be continued.)



Boston Spring Show—View in Main Hall

FOR THE RETAILER

Seen in the New York Stores.

There never was greater variety or better quality displayed by the retail florist than is shown this Easter. Plants were never before in better shape, and the manner in which they are presented should please the most fastidious customer. The almost tropical weather of last Saturday was the cause of some uneasiness with both the grower and retailer, but everything was delivered in good order.

The hawthorn, double pink and white, has proved itself a splendid Easter novelty, and the plants were especially good this season. They were large and well furnished with flowers. The manner of displaying them varied at the different stores. Some were shown in baskets made of willow twigs in which the catkins were allowed to remain on the branches; they presented a rustic appearance that was particularly pleasing.

There was also a very fine new hybrid rhododendron shown at one or two stores, the flowers being unusually large and of a beautiful shade of delicate pink, growing in immense clusters. The plants, although small, were unusually well flowered for a rhododendron and it should prove a splendid addition. One store handled over two hundred of this plant, with splendid results.

Ericas were not as plentiful as in former years; they are expensive plants and have been dropped by many growers on that account. I saw a very pretty basket in a Fifth avenue store; it was a long window box affair, made of gilded bamboo, was filled with plants of Erica Wilmoreana and small plants of Adiantum Farleyense, tied with a flowered pink ribbon. The yellow variety, Erica Cavendishii, is one of the finest of the type, but is always scarce and very few plants of it were seen.

A distinct novelty was a basket, consisting of the "bird of paradise" flower, *Strelitzia regina*; its wonderfully formed blue and orange flowers were the center of attraction. It was used in combination with *Maranta rosea picta*.

Mahernia (*Hermannia*), although grown extensively in some localities, is seldom seen in this city. The few plants shown this Easter, however, sold very readily. Its common or garden name "honeybell" describes it perfectly; and its pretty, pale yellow flowers, with their delicious fragrance, make it a ready seller. Plants

of mahernia in basket form are most attractive, owing to its pendant habit. It is to be hoped we shall see it more extensively grown next season.

Small handle baskets constructed of willow, large enough for one pot of violets, were an innovation, and certainly the most attractive small commodity shown anywhere.

The new hardy, climbing Rambler roses have fully established themselves as Easter plants, and the old favorite Crimson Rambler was as much in evidence as ever, and sold quite as readily. The pink varieties Dorothy Perkins and Lady Gay, were quite scarce, owing doubtless to the dull weather earlier in the season, many of them coming blind on that account.

Flowering Plants in Dry Goods Stores.

It is nothing new for the dry goods stores to handle growing plants, but it has usually been in competition with the florist. What I now refer to are the very excellent displays seen in the windows of the leading houses of this city. The plants were not for sale, but used in conjunction with millinery and artificial flowers. A store recently opened on Thirty-fourth street had a magnificent display—large plants of *Cibotium Schiedeii* were in the background; groups of *Azalea Vervaeana* and the new dwarf pink hydrangea built up in pyramids filled in with *Neprolepis Whitmanii* were most effective. A rich green velvet covered the floor, and formed the background, bringing out the colors. The idea seems a good one to me and should do much to advertise the business, besides being another outlet for the growers' surplus. The plants displayed were all first-class.

Several of the Fifth avenue millinery establishments have taken advantage of an early Easter to have their Spring openings this week, and most of their displays are in keeping with the season. One firm that has always used American Beauty roses displayed a large jardiniere and pedestal filled with Easter lilies in pots, the pedestal being wound with strings of asparagus. Another store used white lilac and lilies, with broad green ribbon in bows and loops. A great amount of money is expended annually for this purpose and it should certainly receive every encouragement from the retail florist.

D. RAYBUN.

A Basketful of Winsor Carnations.

There is much pleasure to be had in looking at or even writing about a beautiful flower, and such is Carnation Winsor. We have previously written at length regarding the culture and productiveness of this grand new variety; but we prefer to consider it from the artistic viewpoint and in doing so, memory wanders back to the days of the early eighties, when that charming old variety Grace Wilder reigned supreme at every fashionable function at those old Delmonico decorations by Klunder, where ten thousand carnations were used at each event. Why don't we see such these ultra-wealthy days?

Winsor brings vividly to our mind the magnificent pink decorations of bygone days. Its beautiful color seems to be the reincarnation of all that was best and most beautiful in them. True it is that the varieties Grace Wilder and William Scott were small in size compared with those which have appeared since, but they had the colors which will never fade in memory, and which in those days brought wealth to growers and dealers. Scott's unprecedented Wilder and Winsor comes to fill the gaps made by the disappearance of them both and, besides, represents the advancement of the times.

The illustration shows a simple old-fashioned, green willow basket filled with the lovely colored blooms of Winsor carnation. The basket was brought on from New York to Toronto and made up at the recent carnation show there. We had a two-fold object in view in all our decorative work at Toronto—first, to demonstrate the uses of carnations with their own foliage exclusively with the object of encouraging and popularizing

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 23th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unequalled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonal varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BEOS, 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO. Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLOREAL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLOREST, the largest flower store in the South, Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

such; and, secondly, to illustrate the adaptability to all purposes and the magnetic color of Winsor. There is not a wire or any kind of artificial support used on stem or flower in the make-up of this basket, except a few wires employed in tying the stems to the handle of the basket. The most of the blooms are in water. The basket stood three and a half feet high and had nearly a 3-foot spread when made up with two hundred and fifty Winsors.

Though it is often necessary to use up a ribbon mill and miscellaneous factories to manufacture some designs or demonstrate cumbersome ideas, we ourselves prefer to encourage the cultivation and love of the natural flower, undespoiled by superfluities. Our experience when making up this basket at the Toronto carnation show, where we were surrounded by a hundred interested and interesting people, who asked numerous questions, convinces us that competitions or demonstrations by floral artists at shows would be most interesting to the public and do much good to all concerned. By competition we mean that a certain amount of the same material be given to each competitor, and the design be made up before the public. Then again, many good artists may be found in any city who would volunteer to give lessons to the public on the uses and arranging of flowers and foliage.

J. IVERA DONLAN.

TWO NEW AZALEAS.—Charles Pynaert describes in *Revue de L'Horticulture Belge et Etrangere* two new varieties of *Azalea indica* which have been secured by Dr. G. D'Hooghe, of Ghent, Belgium. One named *D'Hoogheana* is a sport of the variety *Luna*, and is said to differ in advance of *Vervaeana*, to which it will prove a formidable rival. The flower is large, double, having a fiery rose center with a large white border. The other variety is a greatly improved *Deutsche Perle*, having a much larger flower, and has been named *Perle de Loochristy*.



Basket of Carnation Winsor.

Exhibited by F. R. Pierson Company at Toronto Show of American Carnation Society.

ASPARAGUS

Robustus, best for pots, pans and vases. Sprongerl, extra like stock. Plumosos, supply limited. \$6.00 per 100, well worth eight or ten. Send ten cents for sample.

ALBERT M. HERR, Lancaster, Pa.

Table with columns for GERANIUMS and CANNAS, listing various varieties and prices per 100.

JOS. H. CUNNINGHAM, Delaware, O.

Cyclamen Splendens Giganteum Hybrids

This strain has no equal or better, in five true colors, including fringed varieties, twice transplanted from flats \$3.00 per 100. \$25.00 per 1000. From 2 1/2 in. pots \$5.00 per 100, \$45.00 per 1000.

Asparagus Plumosus Nanus

From 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 3 1/2 in. pots \$8.00 per 100.

Cannas

Started from Sandhed in variety as McKinley, Queen Charlotte, Florence Vaughan, Chicago, Papa, Egandale, J. D. Cabos, Alphonse Bouvier good plants \$3.00 per 100 \$25.00 per 1000. Satisfaction Guaranteed.

PAUL MADER, East Stroudsburg, Pa.

DRACAENA INDIVISA

- Table with columns for fine plants in 6 in. pots, listing varieties like SHASTA DAISY, MOON VINE, COBBA SCANDENS, VINCA, etc.

ROOTED CUTTINGS BY MAIL

Cash with order please

GEO. J. HUGHES, Berlin, N. J.

Now is the Time to Order EASTER PLANTS

- List of Easter plants including AZALEAS, RHODODENDRONS, SPIRAEA, DEUTZIA, GENISTA, BABY RAMBLERS, HERMOsa ROSES, TULIPS, NARCISSESS, VON SION and GOLDEN SPUR, LILY OF THE VALLEY, DUTCH HYACINTHS, PALMS and FERNS.

JOHN BADER, Mt. Troy, Allegheny, Pa.

NEW DOUBLE PETUNIA THE QUEEN

A wonderful bloomer: flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, in bud and bloom 2 1/2 in. pots \$10.00 per 100. Rooted cuttings will make fine plants for Decoration Day. \$5.00 per 100.

THE YATES FLORAL CO. Joseph Traudt, Prop. Canajoharie, N. Y. Scranton Florists Supply Co., Scranton, Pa.

Prices Advertised in these Columns are for

CARNATIONS

The Queen, \$12.50 per 1000. Nelson Fisher, \$15.00 per 1000. Last of April delivery subject to their rooting. The Queen, \$10.00 per 1000. Nelson Fisher, \$12.50 per 1000. Bountiful, \$15.00 per 1000. Enchirissa, \$15.00 per 1000. J. E. Helms, \$25.00 per 1000. 100 of thousand rates.

GERANIUMS

Rooted cuttings only, ready about April 15th, at the uniform price of \$1.50 per 100, or \$10.00 per 1000. S. A. Nutt, Parkina, Vloed, Buehner Potovino, L. Francis, Castellans, Riccard.

Table with columns for CANNAS, listing varieties like Dwarf double, 2 in., 2c, etc.

CASH

FEVERFEW

Dwarf double, 2 in., 2c. COLEUS, 2 inch, 2 cts.

ROOTED CUTTINGS, prepaid per 100.

- List of various plants including FUCHSIA, GURNEY, PAULINE, VINCA, SALVIA, BONIFRE, SPLANDENS, etc.

Cash or C. O. D.

BYER BROS. Chambersburg, Pa.

A Few Good Things You Want

- List of plants for sale including Asparagus Plumosus, Sprongerl, Geroniums, etc.

GEO. M. EMMANS, Newton, N. J.

Easter Lilies

- List of Easter lilies including Azalea, Rhododendrons, Baby Remblers, etc.

W. J. & M. S. VESEY, FORT WAYNE, IND.

ALTERNANTHERAS

STRONG ROOTED CUTTINGS.

RED and YELLOW at 50c. per 100, or \$4.00 per 1000. BRILLIANTISSIMA (the best red) at 60c. per 100, or \$5.00 per 1000.

DAVIS BROS., Morrison, Ill.

CYCLAMEN SPLENDENS GIGANTEUM

The best strain in the market. In five colors, transplanted from flats. \$3.00 per 100.

C. KERTCHMAN, Hewletts, L. I., N. Y.

COLEUS

Golden Bedder and 16 Fancy Bedding varieties. R. C., 60c per 100; \$5.00 per 1000. Crimson Vorschaffelkitt, 75c per 100; \$6.00 per 1000. Coleus, Glatf Fancy Leaves, \$1.00 per 100. Lobelia Compacta, fine, R. C., 60c per 100; \$5.00 per 1000. 2 in. pots, \$1.50 per 100.

- List of Coleus varieties including Fuchsias, Heliotropes, Vinca, Geraniums, Aggerium, etc.

Cash with order. ERNEST HARRIS, DELANSON, N. Y.

First Class Stock

200,000 Bedding plants. Dreer's superb, single, fringed PETUNIAS, M. VERBENAS, SALVIAS, AGERATUM, LOBELIA, COLEUS, strong, 2 in., \$1.75 per 100; \$16.00 per 1000.

Standard GERANIUMS, extra strong branched, 3 in., \$4.00 per 1000.

DRACAENA INDIVISA, 6 in., \$2.00; 6 in., \$3.00; 3-4 ft., \$4.00 per doz.

Wanted some MME. SALLEROI GERANIUMS and VINCAS.

For sale, 50 Hotbed Sash, in good condition, \$1.25 each. Cash.

WM. S. HERZOG, MORRIS PLAINS, N. J.

ENGLISH IVY

R. C., 75c.; 2 in., \$2.00. BEK BEGONIA, 2 in., \$3.00; 4 in., \$3.00. ASPARAGUS SPRINGERL, 2 in., \$2.00 per 100. ABAUCARIAS, 60c. and 75c. each. CANNAS, Austria, \$1.50; America, \$1.50; D. Harum, \$2.00; Pennsylvania, \$1.50; K. Gray, \$3.00; Marlborough, \$2.00; Italia, \$1.50; A. Bouvier, \$2.00; C. Henderson, \$2.00; Egandale, \$3.00 per 100.

Will exchange for Enchantress, Boston Market or Guardian Angel Carnations.

J. H. DANN & SON, WESTFIELD, N. Y.

MOON VINE

Ipomoea Multiflora, (A. W. Smith, originator), best pure white, largest and most fragrant moon vine in the world. We have made a specialty of it for the past 15 years, and are known as the moon vine growers of America. Grow 20,000 of them, 2 1-2 in. pots, \$5.00 per 100; now ready.

Cash with order, please. All goods must travel at purchaser's risk only.

GODFREY ASCHMANN,

Importer and Wholesale Grower of Pot Plants. 1012 Ontario St., Philadelphia, Pa.

XXX STOCK

- List of plants for sale including AGERATUM, VERBENAS, PETUNIAS, PHELIX, HELIOTROPE, PELLAEONIUMS, ROSE GERANIUMS, SALVIA BONIFRE.

JOHN F. RUPP, Shiremanstown, Pa. The Home of Primroses.

COLEUS

VERSCHAFFELTIL, GOLDEN QUEEN, FIRE BRAND, LORD PALM-ESTON, QUEEN VICTORIA, BECKWITH'S OBL.

Prices of Rooted Cuttings by Express, 60 cents per 100; \$6.00 per 1,000. GOLDEN REDDER. Golden Yellow—the old original, true to name. Rooted cuttings, 75c. per 100; \$6 per 1,000.

FANCY VARIETIES. In addition to those named we offer a fine stock of twelve kinds. 75c. per 100; \$6 per 1,000. Strong cuttings. Free from Mealy bugs.

AGERATUM

STELLA GURNEY, Dwarf Blue, 76c. per 100; \$6 per 1,000. PRINCESS PAULINE, a combine of blue and white in same flower, 75 cents per 100; \$6 per 1,000.

SALVIA

SPLENDENS, tall staked, one of the best, rooted cuttings, 75c. per 100; \$6 per 1,000.

BONIFRE, medium dwarf, very good, rooted cuttings, 75c. per 100; \$6 per 1,000.

HELIOTROPE

ROOTED CUTTINGS, 75c. per 100; \$6 per 1,000. A. N. Pierson, Cromwell, Conn.

PETUNIA "THE QUEEN"

This is something new in the PETUNIA order, a new double, extra fine, that requires no staking, 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100.

COLEUS, Golden Bedder, and other varieties, rooted cuttings, 60c. per 100; \$5.00 per 1000.

FUCHSIAS, in variety, 2 1/2 in. pots, \$3.00 per 100; R. C., \$1.50 per 100.

HELIOTROPE, in variety, 2 1/2 in. pots, fine, \$2.50 per 100; R. C., \$1.00 per 100.

SWEET ALYSIUM, 2 1/2 in. pots, fine, \$2.00 per 100. Capt. of Snow, 2 1/2 in. pots, \$2.00 per 100. Little Gem, \$2.00 per 100.

LOBELIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.00 per 100.

AGERATUM, in variety, \$1.50 per 100; R. C., 80c. per 100.

ROSE GERANIUM, 2 1/2 in. pots, \$2.00 per 100. HAPPY THOUGHT GERANIUM, \$2.00 per 100. GERMAN IVY, R. C., \$1.50 per 100.

ENGLISH IVY, R. C., \$1.50 per 100. SALVIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.50 per 100.

ALTERNANTHERAS, R. C., 80c. per 100. Cash with order.

J. E. FELTHOUSEN, 154 Van Yranken Ave. SCHENECTADY, N. Y.

For Immediate Delivery

PLUMOSUS, 2 1/2 in., \$3.00 per 100. 4 in., 10.00. Bridesmaids, Golden Gate, Ivory, Kaiserin, Bride, 2 in., \$3.00 per 100; \$25.00 per 1000.

MUMS, General Nonin, 2 1/2 in. pots, \$3.00 per 100. " " " R. C. 2.00 " "

Mrs. G. A. Lotze, fine com. white, 5.00 per doz.; \$25.00 per 100.

Mrs. Gen. Truffett 2.00 " "

Beatrice May 5.00 per 100. .75 " "

Morton F. Plant 1.00 " "

Mrs. John E. Dunne .75 " "

General Hutton .75 " "

Mrs. D. V. West .75 " "

(Ivory) Cash, Willow Brook, Jerome Jones Queen, Nellie Pockett, Robinson, Ben Wells, Clary of the Pacific, John K. Shaw, Chamberlain, Dr. Enguehard, Wm. Duckham, Balfour, Helen Frick, Quits, Cobbold, Bonaffon, Halliday, Appleton, H. A. Parr, G. T. Bear, Brutus, Edgar Saunders, rooted cuttings, \$1.50 per 100; 2 in. pots, \$2.00 per 100.

THE FLORISTS' EXCHANGE, St. Paul & Franklin Sts., BALTIMORE, Md.

Asparagus Plumosus Nanus

Strong stock, 3-in. pots, \$6.00 per 100. Careful packing, liberal count.

WEATHERED BOILER, for sale cheap. R. C. HANFORD, Norwalk, Conn.

ASPARGUS Plumosus - Robustus - Sprenger

Three inch stock ready for four inch at \$6.00 per 100. Samples ten cents. ALBERT M. HERR, Lancaster, Pa.

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER. The columns under this heading are reserved for advertisements of Stock for Sale...

SITUATIONS WANTED

SITUATION WANTED—By first-class rose, carnation and chrysanthemum grower...

SITUATION WANTED—As foreman, cut flowers a specialty. 27 years' experience...

SITUATION WANTED—As working foreman. For the last sixteen years with the leading growers...

SITUATION WANTED—By A No. 1 grower of 27 years' experience on first-class private or commercial place...

SITUATION WANTED—Working foreman, 20 years' experience in roses, carnations, chrysanthemums and general stock...

SITUATION WANTED—By single man, Scotch, 50 years of age, as working foreman on commercial place...

SITUATION WANTED—By single, competent grower of roses, carnations and chrysanthemums...

SITUATION WANTED—Advertiser desires to engage with responsible family or firm desiring an all around man...

SITUATION WANTED—By gardener and florist on a private place, 46 years of age, married, no children...

SITUATION WANTED—Gardener, German, 32, married, 2 years in this country, 17 years' experience in all branches...

SITUATION WANTED—By gardener and florist on private or commercial place. Single, aged 33, experience of 14 years as grower...

SITUATION WANTED—An intelligent young man, aged 24, with some experience in general greenhouse work...

SITUATION WANTED—As working foreman on commercial place. Grower of roses, carnations, general cut flowers and pot plants under glass...

SITUATION WANTED—A young man, 28 years of age, Swede, wants position in greenhouses in growing roses and carnations and general greenhouse work...

Thirty cents is the minimum charge for advertisements on this page.

HELP WANTED

WANTED—Two good men for rose sections; wages, \$12.00 per week. S. J. Reuter, West-erly, R. 1.

WANTED—Three experienced men for general greenhouse work. Wages, \$12.00 per week. Peter Henderson & Company, 390 Arlington Avenue, Jersey City, N. J.

WANTED—A German gardener as assistant to foreman in greenhouses. Apply, M. Thau, Bellona Avenue, Govanstown, Md.

WANTED—Young man with experience at grading and planting. C. D. Zimmerman, 131 Norwood Avenue, Buffalo, N. Y.

WANTED—Two young gardeners, well up in landscape work; \$12.00 per week. Anthon S. Petersen, Fifth Avenue Nurseries, New Rochelle, N. Y.

WANTED—An active young man as assistant on rose growing place. Steady position; state wages. J. Henry Bartram, Lansdowne, Pa.

WANTED—Greenhouse man, one with some knowledge of roses preferred. Good wages to right man. Call or address, Righter & Barton, Madison, N. J.

WANTED—A good all-around florist for a downtown retail flower store in Chicago. Most come well recommended. Address, E. F. Carr, The Florists' Exchange.

WANTED—Young man, intelligent and active for packing department of first-class nursery. Address, Thomas Machan & Sons, Inc., Box A, Germantown, Philadelphia, Pa.

WANTED—Good man as assistant in rose houses. Must be well recommended. Wages, \$35.00 per month, room and board. Address, B. B., care The Florists' Exchange.

WANTED—Single man with some experience for general greenhouse work. Steady position. Give references and wages wanted. Address, X. W., care The Florists' Exchange.

WANTED—Young man to assist in our wholesale cut flower department. Must have some experience. The J. M. Gasser Company, 1035 Prospect Avenue, Cleveland, Ohio.

WANTED—A single man as assistant on range of glass where American Beauties are grown chiefly. Wages, \$50.00 per month. Address, G., care The Florists' Exchange.

WANTED—A working foreman on a commercial place. Grower of roses, carnations and chrysanthemums. Must be sober, honest, industrious and capable. Address, W. E. Gravett, East Wheeling, Lancaster, O.

WANTED—At once, first-class man for Spring potting, bedding out and for general outdoor work for Summer. Apply John Ralph, Florist, Saratoga Springs, N. Y.

WANTED on Long Island a good grower of carotians and mums. Must be sober and reliable. A steady position and good wages to the right man. Address, J. D. C., care The Florists' Exchange.

WANTED—An experienced rose grower, wages \$16.00 per month and one dollar for each fall Saturday or full Holiday worked, and twelve days vacation during the year. Answer, giving references stating age, nationality and whether married or single to Benjamin Dorrance Dorrance, Per ma.

WANTED—An assistant in rose houses where American Beauty only are grown. A permanent position to the right man. Single man preferred. Address, Frank Dolan, care John Young Company, Bedford Station, N. Y.

WANTED—Young man to work on pleasure grounds and kitchen garden, also around flower beds. Wages, \$25.00 per month, room and board. Apply, Thos. L. Talbot, Enslie, Rhinecliff, N. Y.

WANTED—Gardener, thoroughly experienced man for greenhouse and landscape work. Wages, \$12.00. Apply, Peter Denyse, Jr., 79th street and 6th Avenue, Brooklyn, N. Y.

WANTED—Good man for roses and pot plants, also man for bedding plants, who has had experience in plotting out and taking care of private lawns, etc. Good pay to right man. State references and wages desired. Address, G. D., care The Florists' Exchange.

WANTED—An all around grower of plants and in and outdoor cut flowers, who is able and willing to earn \$60 per month. State experience, etc., and send reliable recommendations to N. Studer, Anacostia.

WANTED—All around man for greenhouse work, capable of doing all kinds of work connected with the growing of carnations, asters and bedding plants. State wages expected and experience in first letter. Paul E. Richwagen, Needham, Mass.

WANTED—Young man as assistant in greenhouse and flower garden on private place. Must have good references and experience in roses, carnations and bedding plants. \$30.00 per month with board. Address, W. Willis, Katonah, N. Y.

WANTED—One or two robust boys or young men, between 18 and 23 years of age, for positions in greenhouse and nursery departments on a large nursery devoted exclusively to the propagation and growing of ornamental stock, herbaceous plants, etc. Applicants must not be afraid of work, be of good habits and have an interest for this sort of work...

HELP WANTED

WANTED—Two good men who understand the filling of orders and packing of trees. Place open March 20. Wages will be good and expenses here and return home. Season will last two months, and if parties are satisfactory, permanent position will likely come to them. The Riverside Nursery Company, Conduche, Pa.

WANTED—Assistant foreman in green-houses and propagating department, ac-customed to making cuttings and thorough-ly capable of taking charge of section of rose houses. Good wages and steady em-ployment to suitable man. Apply The Elizabeth Nursery Company, Elizabeth, N. J.

WANTED—At once, an able-bodied, intelli-gent young man of good character to learn the florist business. An excellent oppor-tunity of advancement for the right man. Carnations, violets and bedding plants. Must be able to drive and care for one horse. \$20.00 per month, room and board, to start. Send references in first letter. P. O. Box 108, Berwyn, Chester Co., Pa.

MISCELLANEOUS WANTS

WANTED—Will exchange Groff's Gladioli for Peonies, Iris, Phlox or Dahlias. E. R. Macomber, Woodford, Me.

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WANTED TO RENT—Greenhouses with option to buy. \$300 to 10,000 sq. ft., in fair condition. Suitable for cut flowers. High grounds. Address, K. E. Kaulback, Madison, N. J.

WANTED TO RENT—About 10,000 feet of glass, with dwelling, stocked with roses or carnations, within 25 miles of New York. State full particulars when writing. Address, G. E., care The Florists' Exchange.

RARE OPPORTUNITY—For a florist to es-tablish a good paying business, 10,000 inha-bitants; one of the fastest growing towns in the State. The grounds are especially adapted for the business. Main Ave., on line of trol-ley. Five minutes from station. White Plains, N. Y. For full particulars apply to Elmo Brown, 3 Court street, White Plains, N. Y.

FOR SALE OR RENT

TO LEASE—On account of ill health, three greenhouses, each 150 ft., in good condition. Stocked with roses, Thomas Redican, Prospect Street, Madison, N. J.

FOR SALE—4 greenhouses, each 20 x 150 ft., fully stocked and in good repair; situated on corner property; also dwelling, vladmill, sheds, etc. Address, G. T. Hiner, Flemington, N. J.

TO LEASE OR FOR SALE—Nine rose houses and two fern houses, heated with hot water and steam. 24,000 feet of glass; thirty miles from New York. Apply M. McMahon, South Nyack, N. Y.

FOR SALE

Three Greenhouses, 150x30 feet, potting shed, 90x22 feet, boiler room, 30x22 feet, built about three years ago, practically new. Everything in complete working order and stocked. One acre of land; 3/4 of a mile from railroad station; 18 miles from New York City. Price, \$3,000. Terms reasonable. Apply to A. V. D. Snyder, Ridgewood, N. J.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex system, which is coming into use by the growers. This season many thousands feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing a large business all over the season. Address, E. Hippard, Youngstown, O.

STOCK FOR SALE

TURNER Red Raspberry plants, \$8.00 per 1000; \$25.00 per 5000. W. F. Allee, Salisbury, Md.

CALIFORNIA VIOLET CLUMPS, A No. 1, large, clean and healthy, \$4.00 per 100. Henry Storz, Lindenhurst, L. I., N. Y.

VIRGINIA best early, Chesapeake best late Strawberries. Color, plant and catalogue free. W. F. Allee, Salisbury, Md.

DAHLIAS, 250 varieties of strong, bead-grown roots; 25 named varieties for \$1.00. Catalogue free. C. Peirce, Dighton, Mass.

STRAWBERRY plants, 90 best varieties, stock unexcellent. Ask for prices on what you want. 60 page catalogue free. W. F. Allee, Salisbury, Md.

ROOTED CARNATION CUTTINGS. Queen Louise, white; Francis Joost, pink; Fair Maid, light pink; Challenger, scarlet; Har-lowarden and Harry Penn, crimson, \$1.25 per 100; \$14.00 per 1000. Cash. Hansen and Lunstead, Passaic, N. J.

STOCK FOR SALE

100 to 500 6-in. pans of Cypripedium insigne, strong, healthy stock. For price apply to Joseph Towell, Paterson, N. J.

GLADIOLI, GROFF'S HYBRIDS, may and others. See ad of March 23. Send for list. John H. Umpleby, Lake View, N. Y.

JAPAN IRIS (Iris Kaempferi), white, \$5.00 per 100; mixed, \$4.00 per 100. Good roots, not seedlings. Wm. F. Halsey, Southampton, N. Y.

SPLENDID stock, large, 4 year old Barri's Mammoth Asparagus roots, suitable for forcing, \$6.00 per 1000; \$25.00 per 5000. W. F. Allee, Salisbury, Md.

DEWBERRY plants, Astillo's ad Lacretia, \$5.00 per 1000; \$20.00 per 5000; Premo, \$8.00 per 1000; \$25.00 per 5000. Free catalogue. W. F. Allee, Salisbury, Md.

BOSTON FERNS, beach grown, ready for 3-inch pots, \$4.00 per 100; \$35.00 per 1000; ready for 2-inch pots, \$3.00 per 100; \$30.00 per 1000. R. F. Gleede, Eves-ton, Ill.

SURPLUS garden pens, 50 bos.; Alaska, \$3.25 per bu.; 40 bos.; First and Best, \$2.00 per bu. New crop Northern Michigsa grow; none better. W. F. Allee, Salisbury, Md.

Gladiol Hybrid Seedlings. Have more than want to plant. Offer half of planting stock; all sizes; 1 1/2 in. down. A bargain. S. Huth, Cayahoga Falls, Route 9, O.

BARBERY THUNBERGI, 2000 to 3000, 15 to 18 in., at \$4.00 per 1000. 2000 to 3000, 18 to 24 in., at \$50.00 per 1000. Address, Eureka Nurseries, Flint, N. Y.

EASTER plants at reasonable prices. Azaleas, Spireas, Begonias, Hyacloths, Rhododendrons, Hydrangeas, Geraniums and Claerlasii, D. H. Lacey, Florist, Woodhaven Junction, L. I.

FINE, stocky plants of Salvia Bonifera, 40c. per 100; \$3.00 per 1000; Ball of Fire and Scarlet Drago, \$1.00 per 100. Cash. R. Powell, Florist, White Plains, N. Y.

ROSES, Bride, Bridemaid, Ivory, Kaiserin. 2 in. pots, thirty plants, \$3.00 per 100; \$25.00 per 1000; rooted cuttings of Brides, Bridemaids and Ivories, \$1.50 per 100. Wm. B. Sands, Lake Roland, Baltimore, Md.

BABY RAMELER ROSES, fine dormant stock, one year, \$12.00 per 100; 2 1/4 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

GARDENIAS in 2 1/2 in. pots, ready for 4in., \$8.00 per 100. Boston ferns, 5-6 1/2 and 6 in. pots, 30c, 40c and 45c; large enough for 6 and 7-in pots Scottii ferns, 5 and 5 1/2 in.; large enough for 5 and 7 in. pots, 30c. Boston and Scottii, 8 in., \$1.00 each. Rooted cuttings, Queen Louise carnation, \$1.50 per 100; \$1.00 per 1000. Cash with order. Brabander and Cornels, Somerville, N. J.

FOR SALE

FOR SALE—Greenhouse material end hot bed sash, milled from Gulf Cypress to any de-salt furnished. Order notice specially made for greenhouse and hotbed sash. V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE

BOILERS No. 8 Washerd, round, \$90.00. One 8 section 8 inch boiler for rose section boiler, grade 3 by 3. Price \$160.00. New Henderson boilers; send for price on size wanted. One No. 387 Lord & Burnham hot water boiler, 7 sections, 38 in. gauge, heat 8,000 sq. ft. of glass, used one season, price \$180.00, guaranteed.

PIPE Good services second hand. No Junk. with new threads, 2 in. 7c.; 1 1/2 in. 6c.; 1 1/4 in. 4c.; 1 in. 3c.; 3/4 in. 10c.; 3 in. 14c.; 4 in. 18c. 4 in. cast iron greenhouse 14c. 2 in. New standard, full length, 10c. ft. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy work-ing. No. 2 cuts 1 1/2-2 ins. \$4.00; Armstrong Adjustable No. 2 cuts 1/4-1 in. \$4.00; No. 3 cuts 1/4-1 1/2-2 ins. \$9.50.

PIPE CUTTERS \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed, 12 in., grips 1 1/2 in. \$1.50; 24 in., grips 2 1/2 in. \$2.25; 36 in., grips 3 1/2 in. \$4.50.

Reed's Best Hinged Vise, No. 1 PIPE VISES grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 60 ft. lengths \$4 in., guaran-teed; 90 ft. for heavy work, guaranteed; 125 ft.

HOT-BED SASH New; Gulf Cypress, 3 ft. x 8ft. 80c.; glazed complete \$1.20 ap. Second hand sash glazed \$1.00 and \$1.25, good condition.

GLASS New American, 50 ft. to the box. 10x12 single \$1.00. 10x12, 12x12 12x12, 10x12 3 double \$2.80. 12x14 to 12x 20 and 14x14 to 14x20 double \$2.50. 16x16 and 16x18 B double \$3.00. 16x20 to 18 x 24 double \$3.25 per box. 8x8, 7x8, 8x10 old, single \$1.50. 8 x 10 old, double \$1.85. 12 x 14 old, single \$1.75.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size houses. Get our prices.

METROPOLITAN MATERIAL CO.

Greenhouse Wreckers 1398-1408 Metropolitan Avenue, BROOKLYN, N.Y.

FOR SALE

A GRAND CHANCE

To purchase about 3,000 feet of 4 in. hot water pipe in good condition. Now ready for delivery. Call or write for prices.

A. V. JACKSON & SON 3267 North Western Avenue, Chicago, Ill.

BOILERS. BOILERS. BOILERS. SEVERAL good, second-hand boilers of standard make on hand; thoroughly tested, complete in every detail. William H. Lutton, West Side Avenue Station, C. R. R. of N. J., Jersey City, N. J.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. KROESCHELL BROS. CO., 33 Erie St. Chicago

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.

Sander, St. Albans, England and

235 Broadway, Room 1, New York City

ORCHIDS

Arrived in fine condition, Cattleya Harrisoniae, C. Intermedia, C. Gliges, C. Trianae, Speciosissima, C. Leopoldii, Laelia Purpurata, Oncidium Varicosum Rogersii, O. Marshallianum, Phalaenopsis Amabilis and P. Schilleriana. Write for prices.

LAGER & HURRELL, Summit, N. J. Growers and Importers

KENTIA BELMOREANA

5 in., clean and bushy, 50c. and 75c. each. 24 in., for center of fern dishes, 10c. each; \$9.00 per 100.

SCOTTII FERNS, 6 in., 40c. DRACAENA INOVIDIA, 6 in., 35c. FERNS FOR JARDINIÈRES, etc., \$3.00 per 100

H. WESTON, HEMPSTEAD, N. Y.

PALMS AND FERNS

Write for Price List. The Geo. Wittbold Co. 1657 BUCKINGHAM PLACE CHICAGO

ROBERT CRAIG & CO ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS Market and 49th Sts. PHILADELPHIA, PA.

NEPHROLEPIS

Whitmani, 2 1/4 in., \$10.00 per 100. Boston, 2 1/4 in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass.

Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round

JOHN SCOTT

Railroad Road & E. 45th St., BROOKLYN, N. Y. Telephone 2890 Bedford.

Adiantum Farleyense

The Very Best Only 6 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 per dozen.

JULIUS ROEHS COMPANY Exotic Nurseries Rutherford, N. J.

10,000 FERNS YOU MUST HAVE

Boston, 4 in. 16c.; 3 in. 8c.; 2 1/4 in. 3c. Personal, 4 in. 16c.; 3 in. 8c.; 2 1/4 in. 3c. Scottii, 4 in. 16c.; 3 in. 8c.; 2 1/4 in. 4c. Harrowall, 4 in. 20c.; 2 1/4 in. 6c.

Also 10,000 potted Canas 4c.

3000 Ampelopsis Veltchii, pot grown, dormant, long tops, \$4.00 2000 Clematis Paniculata, 1 year old, pot grown 4.00 1000 Clematis Jackmanii, 2 year old, field grown, \$2.50 per dozen. 1000 English Ivy, 3/4 in. pot grown, heavy, long tops, 0.00 3000 Vinca Major, variegated, 2 1/4 in. pot plants 2.50 2000 Hydrangea paniculata, Grandiflora, 3 year old, 8c.; 2 year, 6c.; 1 year, 4c. 2000 Spirea Anthony Waterer, 3 year old, 6c.; 2 year, 4c. 500 Variegated Weigela and Yucca Filamentosa, 3 year old, 6.00 5000 California Privet, 6 ft., \$5.00 per 100; 2 1/2 to 3 ft., \$2.50 per 100; 12 to 18 in. 1.00 1000 Helleborus Honeyuckle, 2 year old, 4.00 Baby Rambler, 2 year old, 6 in. pots, 20.00 3000 Madeira Vine roots, \$8.00 per 1000. 1000 Stokesia Cyanea, pot grown, dormant, 3c. 500 Caledium Esculentum, 7x9, 5c.; 5x7, 3c.

BENJ. CONNELL, West Grove, Pa.

Ferns a Specialty

BOSTON, 6 in. pots, 50c.; 7 in., \$1.00; 8 in., \$1.25; 9 in. pans, \$1.50 and \$2.00 each. From the bench, ready for 4 and 5 in. pots, \$10.00 and \$15.00 per 100.

CIBOTIUM SCHIEDEI, 6 in. pots, \$1.00 each.

ASSORTED FERNS for Jardinières, good plants, 2 1/4 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

FRANK N. ESKESEN, Madison, N. J.

ADIANTUM FARLEYENSE

Good, thrifty stock, 3-4 1/2 in.

ROSES

Grafted and Own Roots, Killarney, Richmond and Beauties.

POINSETTIA STOCK

Strong plants from bench.

THORN HEDGE GREENHOUSES, NEWTOWN SQUARE, PA.

WHITMANI FERN

Large stock of strong plants, 2 1/4 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN

3 inch pots.....\$ 8.00

SCOTTII

2 1/4 inch pots.....\$ 5.00

4 inch pots.....\$ 12.00

KENTIA FORSTERIANA

4 inch pots, made up, strong and bushy.....\$25.00

5 inch pots, made up, strong and bushy..... 50.00

No order for less than 10 plants accepted.

CHAS. H. CAMPBELL, 3601 OERMANTOWN AVE., PHILA., PA

CARNATION CUTTINGS

FOR IMMEDIATE DELIVERY.

White Perfection, \$6.00 per 100, \$50.00 per 1000.

Victory, \$6.00 per 100, \$50.00 per 1000.

B. Market, \$1.50 per 100, \$12.50 per 1000.

Enchantress, \$2.50 per 100, \$20.00 per 1000.

JENSEN & DEKEMA, 674 W. Foster Avenue CHICAGO, ILL.

2,000 ASPARAGUS SPRENGERI, 3 in. pots, once will go cheap, to make room. \$3.50 per 100.

COHANZIE CARNATION GREENHOUSES, NEW LONDON, CONN.

Pittsburg.

Trade Notes. The beginning of the week before Easter has brought us the sort of weather conditions that suit the florists' trade to perfection. Nice, warm days, too warm for a starter of Spring, with the thermometer up to the eighties, give the plantsmen an opportunity to display their stock, and there is a good lot of it everywhere. Shipping trade has been very brisk and the small sale of plants was satisfactory. The usual varieties, such as azaleas, roses, hydrangeas and bulbous stock, are sold at prices the same as usual for Easter. Lily plants are scarce; cut blooms will be more abundant than was expected at prices from 12c. up, but good ones will run close to 20c. Roses and carnations promise well and will be the principal flowers handled outside of bulbous stock, which is very plentiful.

Trade the past week might have been better; flowers were too plentiful and at times stock sold cheap—roses at from 35c. to 50c. per dozen, and violets were sold very low, even in the stores. Almost all the churches, regardless of denomination observed Palm Sunday, using many plants, more than usual, but very few cut flowers. The prospects for a good Easter trade are bright; all that is wanted is good, warm weather.

J. Jones has opened a store on Wood street for the sale of plants and cut flowers over Easter, and is making a good show. Wood street in that locality should be a good place for a regular florist's stand, one of the best in the city without a doubt, although the rents are rather high.

John Bader has made his appearance in the Pittsburg market with a good lot of stock and is doing a brisk retail and wholesale business.

L. I. Neff, Sixth street, will make his regular Easter display this week and has fine stock of his own growing.

The usual display in the park conservatories of both cities promises to be better than ever this Easter.

E. C. REINEMAN.

Cincinnati, O.

News Notes.

The Spring number of The Florists' Exchange is the best that you have issued for a long time.

The past week has been very much on the quiet side; lots of stock and little demand.

The writer was in Grand Rapids, Mich., last Thursday, and called upon some of the trade there. They will have a fine lot of stock for Easter, especially Henry Smith. Crabb & Hunter might be in better shape, but Mr. Crabb is just recovering from pneumonia and was not able to look after things at the critical moment.

Eli Cross was busy building another 300-foot American Beauty house. He has discarded most of his carnations, and cucumbers and tomatoes have taken their place. When a crop fails to make good with Eli, out it goes and something else takes its place at once.

At Kalamazoo I called on Samuel Batson, and found his specialties in good shape for Easter. Mrs. Batson was quite sick with La Grippe. I did not have time to call on the larger growers at this place.

Once more the Ohio River is getting back to its banks, and we hope it will

FERNS A SPECIALTY

Please notice the big reductions. Cibotium Schiedel, the king of Ferns, well-known for its unequalled beauty and great keeping qualities, very easily grown:

3 in. pots \$20.00 per 100; 4 in. pots \$40.00 per 100;

5 " " " 60.00 " 7 " " 1.70 each.

10 " " " Large specimen, \$5.00 each.

Adiantum Rhodophyllum, 4 in., \$20.00.

Assorted ferns for jardinières, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate. Fresh Fern Spores, Choice collection in 55 varieties, true to name, including all the best market sorts, 30c. per trade package; \$3.00 per doz.; \$12.00 for the whole collection. Write for list of varieties.

J. F. ANDERSON,

Successor to Anderson & Christensen, SHORT HILLS, N. J.

stay there, as it caused a great amount of inconvenience and monetary loss. The market gardeners are the greatest losers; they have lost all. E. G. GILLET.

Indianapolis Ind.

News Items.

Henry Reiman narrowly averted an accident to his heating plant by arriving at the opportune moment.

Berteriann Brothers Company, A. Wiegand & Sons, Wm. Billingsley and John Reiman have most effective window displays. An eight-foot cross of boxwood and miniature lights, with clusters of lilies, fronted by a window of grass is the attraction in the first mentioned firm's window. Masses of genistas and lilacs, heavily banked on either side, complete the arrangement. Wiegand's window is beautifully filled with novel Easter arrangements. John Reiman shows an attractive window of specimen plants.

Several of the large department stores are this year displaying plant decorations; those of wistaria and other artificial flowers are quite effective and perhaps better adapted for this purpose because imperishable. I. B.

St. Louis, Mo.

News Notes.

We have every reason to believe that the demand for blooming plants this Easter will be greater than last year. All of our local growers have an immense stock of everything in season. J. W. Dunford and A. Jablonsky have about the largest stock of any, and they report that nearly everything is already sold to the local store men. Those nearer to the city—George B. Windler, C. C. Sanders, Chas. Beyer and the Bentzen Floral Company, who also supply the store men with stock—are in good shape to supply any and all demands for extra fine plants. The weather has been almost too warm last week to hold them back, and everything is coming on with a rush.

Mrs. M. S. Vesey, Fort Wayne, Ind., and R. A. McPherson, Litchfield, Ill., were visitors the past week. Mrs. Vesey to look after her Easter business and Mr. McPherson buying a stock of supplies. C. L. Braunsing of C. L. Braunsing & Company, Paducah, Ky., also spent a day here last week, visiting retailers and growers. He reports trade very good all through Lent.

F. H. Weber, Maryland and Boyle avenues, has an extra fine display of Easter blooming stock in cut flowers and plants. His show house is a great attraction in that neighborhood.

Florists who took part in the American Bowling Congress tournament the past week were J. H. Stevens, Chicago; J. J. Beneke, C. A. Kuehn and A. Y. Ellison, St. Louis.

C. Young & Sons Company had one of the most attractive window displays seen on Olive street for some time, in Easter blooming plants; it was a grand sight and attracted a great deal of attention.

Fred. Foster of the Foster Floral Company reports that they will open their new store in time for Easter business, running both places.

Miss Annie Beruhardt, formerly with the Foster Floral Company, is now with Alex. Siegel at Sixth and Washington avenues.

Among the West End florists who had pretty Easter windows the past week were Fred. C. Weber, Ellison Floral Company, Kalish & Sons, Theodore Miller and Miss M. S. Newman.

R. J. Windler and Conrad Bergesterman, on South Grand avenue, report a good trade in blooming plants. These two are among the newest on the South side.

Some of the florist howlers are practicing hard for their match with the Desoto team after Easter. On last Monday night at the Desoto alleys Carl Beyer and Eddie Garland were defeated by George Schriefer and Henry Lorenz in a special two men match. The final scores for the three games were 1,048 and 1,011.

ST. PATRICK.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties
Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

A. J. GUTTMAN,

JOHN E. HAINES,

The Wholesale Florist of New York.
43 WEST 23TH STREET.

BETHLEHEM, PA.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock
WINSOR and HELEN M. GOULD, \$12.00 per 100, \$100.00 per 1000.
ROBERT CRAIG, VICTORY, HELEN GODDARD, \$8.00 per 100, \$60.00 per 1000.
RED LAWSON and VARIEGATED LAWSON, \$4.00 per 100, \$30.00 per 1000.
LADY BOUNTIFUL, NELSON FISHER, and ENCHANTRESS, \$3.00 per 100, \$25.00 per 1000.
ROSTON MARKET, GENERAL MAEJO, MRS. T. W. LAWSON, PINK AMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

VERBENAS—Rest Mammoth, rooted cuttings
Ageratum, Cope's Pet. White Cap, P. Pauline and Stella Gurney... 1.00 8.00
Achyranthes, 4 sorts... 1.00 8.00
Coleus, best bedding and fancy sorts... 1.00 8.00
Cuphea, Platycentra... 1.25
Fuchsia, double and single varieties... 2.00 15.00
Everfew, The Gem... 1.50 12.00
Geraniums, double and single... 2.00 15.00
Heliotrope, light and dark... 1.25 10.00
Ivy, German... 1.25
Moon Vine, true white... 2.00 15.00
Salvia, splendens, Reclama, etc... 1.25 10.00
Salvia, new early Dowerlog sorts... 1.50 12.00
Vinca, variegated and Elegans, 2 1/2 in. pots... 3.00

CANNAS

Strong dormant roots in 30 fine varieties
\$2.00 and \$3.00 per 100; \$18.00 and \$25.00 per 1000.

Send for List.

WOOD BROS.

Fishkill, N. Y.

Rooted Carnation Cuttings

White Perfection... \$6.00 \$50.00
Glendale... 5.00 40.00
Victory... 5.00 40.00
Robert Craig... 5.00 40.00
Fiancee... 2.50 20.00
Cardinal... 2.50 20.00
Lady Bountiful... 2.50 20.00

The Belle... \$2.50 \$20.00
White Lawson... 2.50 20.00
Enchantress... 2.50 20.00
Nelson Fisher... 2.50 20.00
Harry Penn... 2.00 15.00
Mrs. T. W. Lawson... 1.50 12.00
Boston Market... 1.50 12.00

ASPARACUS, Ready for shift, strong.
ASPARACUS SPRENGERI, 3 inch \$4.00 per 100; 4 inch \$6.00, 5 inch \$20.00.
ASPARACUS PLUMOSUS, 3 inch \$5.00, 6 inch \$20.00. Cash or C. O. D.
COLEUS, Assorted rooted cuttings, 60c. per 100; \$5.00 per 1000; 2 in. \$2.00 per 100.

W. J. & M. S. VESEY, Fort Wayne, Ind.

S. J. GODDARD

Framingham, Mass.

Rooted Carnation Cuttings a Specialty

Correspondence Solicited.

CARNATIONS

FINE, STRONG PLANTS

Robert Craig, 1 1/2 in. pots... \$1.00 \$10.00
Variegated Lawson, 1 1/2 in. pots... \$6.00 \$50.00
Victory, 1 1/2 in. pots... 3.00 26.00

ROBT. C. PVE, NYACK-ON-HUDSON, N.Y.

ROOTED CUTTINGS

WHITE—Queen... \$1.60 \$12.60
PINK—Pick Patten... \$4.00
Helen Goddard... \$1.00
Ethel Ward ready about Mar 25... \$1.50
Harry Penn ready about Apr 11... \$1.50

J. H. CUSHING, Prop., QUINDICK, ANTHONY, P. O. R. I.

CARNATION CUTTINGS

5000 ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000.
2000 JOHN E. HAINES, \$5.00 per 100; \$45.00 per 1000.
1000 ROBERT CRAIG, \$6.00 per 100; \$50.00 per 1000.

WHITE BROS., Gasport, N. Y.

THE AMERICAN CARNATION

Price \$3.50. Send for Sample Pages

A. T. DE LA MARE PTG. & PUB. CO., Ltd. 2-8 DUANE STREET, NEW YORK

ASPARAGUS

PLUMOSUS NANUS, 2 1/2 in. pots... 4.00
SPRENGERI, 2 1/2 in. pots... 3.00
Grafted ROSES Own Roots

Orders booked for early delivery. KILLARNEY, RICHMOND, JOE HILL, KAISERIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, PERLE, SUNRISE, SUNSET, etc.

MANETTI STOCKS

\$1.25 per 100; \$10.00 per 1000.

CHRYSANTHEMUMS

A. J. RALFOUR, COL. D. APPLETON, DR. ENGUEHARD, GEO. KALB, MRS. MCARTHUR, MONROVIA, MRS. BARCLAY, MAUD DEAN, META, MISS ALICE BYRON, MRS. COOMBS, NAGOYA, OPAH, ROBT. HALLIDAY, SOLEIL D'OCTOBER, SUPPERA, WM. DUCKHAM. Price, Rooted Cuttings, \$2. per 100; \$15. per 1000.
AUTUMN GLORY, ADA SPALDING, CREMO, COLLINGFORDII, DOBOTHY DEVENS, GLORY PACIFIC, HARRY MAY, H. W. REIMAN IVORY, J. E. LAGER, J. H. TROY, MRS. JEROME JONES, MINNIE WAN AMAKER, MRS. BAER, MAJOR BONNAFFON, MAD. FRED. BERGMAN, NIVEUS, PINK IVORY, TIMOTHY EATON, W. H. LINCOLN, YENO. Price, Rooted cuttings, \$1.50 per 100.
JEANNIE NONIN, \$2.50 per 100, \$20.00 per 1000.

CARNATIONS

Pot Culture.

Read before the Morris County Gardeners and Florists' Society, Madison, N. J., March 13, 1907, by Wm. Duckham.

I am requested to speak on the method of pot culture only. My remarks will be brief, as I shall only give you my practice for the past eleven years. I do not wish it to be understood that because I have followed pot culture for the above stated time that it is the best, or that it is better than outside or field culture; suffice it to say, I have had fair results, which undoubtedly have led me to continue the practice.

Our cuttings are taken at the usual time, which is as soon as they can be procured after the middle of January, rooted in the usual way, and as soon as rooted are potted into 2 1/2-inch pots, grown along, but not forced, until such time as the pots are filled with roots. They are then repotted into 4 to 4 1/2-inch pots.

Our plants are just being shifted into the above sizes, in which they will remain until time to plant into the bench. I endeavor to have all the plants pinched once before potting into the larger pots, and to have the plants again active and starting a number of growths. Careful watering and attention to the usual requirements are all that is now necessary until final quarters are reached. About the first week in June our plants have been usually planted, at which time the pots have become full of roots, and it becomes a necessity to repot or plant.

Inasmuch as the usual greenhouse bench will not hold a larger pot than 4 1/2 inch planting is in order, and I would prefer to plant earlier than the date given rather than allow the plants to suffer.

After planting, great care must be used for a week or two regarding watering. This is most essential, for with so much soil, if watered too freely, the whole is likely to get soured. After the plants get hold of the new soil, plenty of water must necessarily be given, together with frequent syringing, which will encourage growth and also help keep down red spider, which must be looked out for at all times.

Now what are the advantages or gain of pot culture over field or outside culture? In the first place, I might cite that last year, out of 700 plants, all that were lost were two plants from stem rot; on the other hand, plants from the field would invariably show a greater loss than this, especially in wet seasons. In fact, I have seen big losses and undoubtedly you all have seen the same, but never so with plants grown inside. I might claim, too, that indoor grown plants produce larger flowers with longer stems at an earlier date in the Fall, and taking the average through. I believe this applies to the whole Winter.

As stated before, I do not wish to infer that my method herein stated is the better way; that would be folly and absurd on my part, for we have only to look around at the exhibits here tonight. Perhaps I would be safe in saying, that not one of the flowers here but what was produced by the field or outside culture, with the possible exception of the few I have brought. Given a good house, good soil and a little common sense, and excellent carnations can be produced from either inside or outside culture.



SAVE YOUR SPLIT CARNATIONS

The Baur Clip and Plier will do it in a BUSINESSLIKE manner at a minimum of time and expense. Saves lots of money. Inexpensive instantaneously applied and Practically Invisible. The Clips are made of galvanized wire and are colored green just the color of the calyx and can hardly be detected. Thoroughly UP-TO-DATE in every particular.

Five for \$1.00. 1000 Clips \$1.00; postage prepaid. All the leading dealers in Florists' Supplies, or direct from: BAUR FLORAL CO., Erie, Pa.

MABELLE--New Pink Carnation for 1907

Color--A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest an does not injure the color. Size--Three to four inches in diameter when established. Odor--Pleasing, but not strong. Stems--Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.--A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness--Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. No discounts. First class certificates Madison and Indianapolis. Delivery Jan. 5th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD.

LOOK HERE

ROOTED CARNATION CUTTINGS

250 at 1000 rate

LADY BOUNTIFUL, WHITE LAWSON, VARIEGATED LAWSON, \$3.00 per 100; \$25.00 per 1000.

MRS. PATTEN, ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000.

BOSTON MARKET, FAIR MAID, QUEEN LOUISE, HARLOWARDEN, PROSPERITY, MRS. LAWSON, \$2.00 per 100; \$15.00 per 1000.

HELEN GODDARD, \$3.00 per 100.

WILSON MARSHALL, Red Seedling, \$5.00 per 100; \$45.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE, BRIDGEPORT, CONN.

CARNATIONS ROOTED CUTTINGS

Ready Now--Prompt Delivery.

Red Chief--Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000. F. DORNER & SONS CO., La Fayette, Ind

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa.

LIVISTONA SINENSIS, 6, 7 and 8 in. and \$18.00 per doz. Gardenias, in pots, full in bud, \$12.00 per doz. Small plants, 4 1/2 in. pots, \$4.00 per doz. Fern balls, \$6.00 and \$9.00 per doz. Cyclamen, in full bloom, \$6.00 and \$9.00 per doz. Begonias, Glorie de Lorraine, \$3.00 per doz. A few hanging baskets, Begonia, Turford Hall, white, \$6.00 and \$9.00 per doz.

ANTON SCHULTHEIS, 10th Street, College Point, N. Y.

THE AMERICAN CARNATION

Price \$3.50

A. T. DE LA MARE PTG & PUB CO. LTD.

2-8 Duane Street, New York.

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Price \$6.00 per 100. \$50.00 per 1000. 43 W. 28th St. NEW YORK. Grower, LYNBROOK, L. I.

Rooted Carnation Cuttings

	Per 100	Per 1000		Per 100	Per 1000
Mrs. Lawson	\$2.00	\$15.00	White Cloud	\$1.25	\$10.00
Guardian Angel	1.50	10.00	Fred Burki	2.50	20.00
Enchantress	2.50	20.00	Harlowardco	2.00	15.00
Lieut. Peary	3.00	25.00	Chicago	1.50	12.50
Boston Market	1.50	11.00	Estelle	2.00	15.00
			Red Sport (Macco)	2.00	15.00

Roses from 2 1/2 inch pots

	Per 100	Per 1000		Per 100	Per 1000
Brides	\$3.00	\$25.00	Rosalind Orr English	4.00	30.00
Bridesmaids	3.00	25.00	Chatenay	\$3.00	\$25.00
Richmond	3.00	25.00	Uocle Joho	3.00	25.00

CHRYSANTHEMUMS

Rooted Cuttings from sand ready April 1st

White	Per 100
Estelle	\$2.00
Geo. S. Kalb	2.00
Mrs. Robosoc	2.00
T. Eaton	2.50
Mayflower	2.00
Wagonmaker	2.00

	Per 100
Ivory	\$2.50
Mrs. Swinburne	2.50
C. Touset	2.00
Mrs. Jerome Jones	3.00
W. H. Chadwick	3.00

Yellow	Per 100
Moorovia	3.00
Golden Chadwick	3.00
Yellow Mayflower	2.00
Yellow Jones	2.50
Yellow Eaton	2.50

	Per 100
Col. Appleton	\$2.00
Mrs. Geo. Beech	2.50
Roi d'Italia	2.00
Chas. Croico	2.50
Percy Plumridge	2.00
Maj. Boneaffon	2.00

Pink	Per 100
L. Filkins	2.00
Pink Ivory	2.50
Rosiere	2.00

	Per 100
Lady Harriet	\$3.00
Glory of Pacific	2.00
Wm. Duckham	2.00
Mrs. Perrie	2.00
Mrs. Mary M	2.50
Marie Liger	2.00
Monogram	2.00
Cash	2.00
Red	Per 100
Inteosity	2.00
Oakland	2.00
Black Hawk	2.00

WIETOR BROS., Wholesale Growers **51 Wabash Ave. CHICAGO** of Cut Flowers

Aristocrat Beautiful cerise, ready for immediate delivery. \$12.00 per 100. \$100.00 per 1000. The variety nearly every florist will grow. Get your order in now and be in line.

White Perfection The best pure white carnation on the market. First class cuttings for immediate delivery. \$6.00 per 100. \$50.00 per 1000.

SEND FOR OUR LIST OF OTHER VARIETIES.

CHICAGO CARNATION CO.

A. T. Pyfer, Mgr.

JOLIET, ILL.

New York.

Easter Prospects.

Easter is just upon us, and, as usual, great preparations have been made to meet the big flower and plant business that will materialize. There is no doubt whatever that more trade will be done this Easter than has ever been before; the increase in the population makes that an assured fact, but whether the business will be as profitable to the florist as it has been in other years remains to be seen. The recent depression in Wall street affairs will, it is believed by some, curtail to quite an extent the flower purchases of certain classes of people. This may be so, and we have no means of proving that it will not, at the same time it can safely be said that it is but a small percentage of the general public that are directly affected by the rise and fall of Wall street quotations, and the flower business, so far as the Easter trade goes, will not be influenced to any extent through the manipulation of the man behind the ticker.

Although the retailers have not set up their window displays in full at this writing, there is plenty of evidence that flowering plants are well up to the standard of other years, and it is not likely that there will be any shortage, unless it is possibly of pot lilies, for with many growers it is believed that 12c. per flower cut is better than 15c. per flower, delivered, with the plants in the pots.

Rhododendrons do not promise to be plentiful, but there is a good supply in sight of hydrangeas, azaleas, daisies, spiraea Rambler roses, hyacinths and tulips in pans, ericas, violets and lilac. The plant peddlers are beginning to

get busy again. Their familiar cries along the side streets are the only signs of Spring heard by many of the city dwellers, and thousands of homes get a breath of Spring only through these itinerant merchants.

News of the Week.

Peter Crowe of Utica, N. Y., has been spending a few days here since attending the rose show in Washington. On his way from Washington he stopped over at Riverton, N. J., and while going from one greenhouse to another he stepped in a marshy place and immediately sunk three or four feet in the ground. As he had been piloted over that particular path, he thought for the moment that this was an attempt to plant the original of Adiantum Croweaum, but as three or four men were instantly called, and through their efforts he was extricated from the uncomfortable position and it being also explained to him that that particular place had become somewhat of the nature of a quicksand owing to the bursting of a water main in the immediate neighborhood, he changed his mind and believed that it had been only an ordinary accident.

Joseph Bradley, gardener for Mr. Henry Seidenberg, Hastings-on-Hudson, N. Y., had an exciting time last Saturday night with two burglars who had entered the house of his employer. It seems that all through the house burglar alarms are attached which communicate with Mr. Bradley's sleeping room, so that he was notified at the moment the burglars entered. He tried to get the police by telephone, but there was much delay in doing so. In the meantime a second alarm had gone off, which indicated to Bradley that the burglars had made their escape through

one of the windows facing the river. He finally secured the assistance of two policemen, and the house and grounds were searched, the burglars finally being discovered leaving the neighborhood of the house and going toward the railroad tracks. Many pistol shots were exchanged between the policemen and the burglars, but with no effect, the latter finally reaching the railroad tracks and getting clear away.

Chas. Wiese has bought and is now running the florist and seed store at 327 Park street, Richmond Hill, L. I., which he purchased from Chas. K. Fraser.

Herbert Greensmith, lately with the Black Hall Nurseries, Conn., has accepted a position with the Andorra Nurseries, Chestnut Hill, Pa., taking charge of the firm's herbaceous department.

Kalamazoo, Mich.

Trade Notes.

Easter with the Kalamazoo growers will from all appearances be one of the best on record. There will be lots of cut stock of all kinds and an abundance of plants in pots. The recent spell of warm weather has helped in most cases to advance the cut of roses and carnations. Many early orders have already been booked, and the wholesale branch will surely be kept busy. The weather will cut a considerable figure in the retail line, so we are all hoping for it to keep fine. Retail prices are at present uncertain, but will probably not reach where they should be, especially in cut flowers, as these are still being offered at cut rate prices now at nearly every place in town, and it seems likely this condition will prevail some time yet. In

White Enchantress

white sport of **Enchantress**, rooted cuttings \$12 per 100; \$100 per 1000.

E. SCHRADER
NEW SPRINGVILLE, Richmond Borough, N. Y.

CARNATIONS

Rooted cuttings **Victory**, \$6.00 per 100; \$50.00 per 1000. **Enchantress**, Bountiful, White Lawson, Var. Lawson, Patten, \$2.50 per 100; \$21.00 per 1000; **Mrs. Lawson**, Boston Market, **Queen**, H. Penn, and **Fair Maid**, \$2.00 per 100; \$15.00 per 1000. 5 percent discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.

the meantime the buyers are having their inning.

Last week the weather made the high record for the month of March, \$6 in the shade being recorded on the 22d.

St. Patrick's Day did not seem to produce any great demand for green carnations, but it certainly increased the general volume of business in other lines and may now be regarded as one of the good days for the florist.

We received a visit from E. G. Gillett of Cincinnati last week and, as usual, found him well posted on trade topics and very willing to give us surveys all the benefits of his experience. We regret he does not visit us oftener.

The men in the nursery departments are now beginning to ship trees, etc., and all are declaring the season's business to be good and the prospects bright also for the Fall shipments. They also report it easy to make collections, which is a good sign for future business.

S. B.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 WEST 28th STREET, NEW YORK
Telephone: 3559 Madison Square
CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

REVIEW OF THE MARKET

NEW YORK.—The cut flower business the early part of the week was not very brisk. The tendency has been to lower prices, and supplies of almost every line are in excess of the demand. Roses of all kinds and grades are extremely plentiful, and so far as fixed prices go it cannot be said that there are any; it is more a question of getting rid of the stock at the best possible figures. To give an idea, we may say that on Tuesday the prices of tea roses ranged from 1c. to 6c. each, including all grades; and American Beauty could be bought at from \$15 per 100 down. Of course, these prices are no indication of what will be maintained for Easter.

The supply of carnations is also more than ample for the demands, and so far there has been no advance in prices over those quoted last week. Lilies are of various grades and sell at various prices, 10c. and 12c. each being about the rule. Callas seem fairly plentiful; and while there is a generous supply of orchids it is not thought that there are any more than can be cleaned up to good advantage.

Violets are coming in extremely heavy, and one wholesaler remarked that he expected to have for Easter trade at least one million flowers. All other reasonable stock is also in heavy supply, and the indications are that there will be enough to fill every call that comes in, and that prices all around will be such that retailers will not be debarred from plunging to a reasonable extent. It is a foregone conclusion that if we have fair weather Saturday and Sunday, we shall have the biggest flower business the city has ever known.

On Wednesday, owing to that being a fast day, there was a little extra call for white flowers, consequently Bride roses and white carnations made a better average than did the other colors in these two staples.

CHICAGO.—As usual, under similar circumstances, the conditions of the market have been more or less uncertain and much guess work as to coming events has been indulged in. The unprecedented warm weather since last Thursday has undoubtedly cast a shade of uncertainty over the market, as the quantity to be shipped in during the present week will surely be much larger than has been anticipated, and it is also feared that the quality of the goods may be affected. The week opened with a quiet day and plenty of stock on Monday, and though advance orders have been heavily placed there seemed to be a strong tendency among buyers to hold off and await the result of the warm weather on the supply and prices before placing further orders. With the fearful slump in the market of a year ago so fresh in memory, the inclination to postpone purchases as well as prophecies was very evident, and it will probably not be until toward the latter part of the week that a very positive line on matters can be taken. No attempt was made on Monday to hold purchasers to Easter prices as had been expected where increase in price had been previously announced. The lily handlers still appear positive that prices will hold, and as near as may be judged the stock is fairly well ordered up, while other lines of cut flowers remain uncertain. Easter plants in general appear to be finding a good market.

Wednesday night finds the market heavily overstocked in all lines; stock selling below prices quoted and averaging as low as for the past month.

W. K. W.

BOSTON.—The grand rush of Easter business has hardly commenced yet in the cut flower line, but prices have stiffened considerably for some kinds of flowers. Violets are not nearly so plentiful, which goes to show that growers are holding back as much as they can of this favorite Easter flower till the end of the week. Sweet peas are not so abundant either. There is an abundance of bulbous stock and very fine tulips and narcissus are seen. Lilies bring \$12.50 and \$15; callas, \$12.50. There are quite a number of candidum lilies now grown; they are bringing \$6. Snapdragons bring \$8 and \$10. Carnations have advanced and

few can be had at less than \$4. Roses have not yet advanced in price, but they are not so very plentiful; they bring from \$1 up to \$20, while the finer grades of Richmond and Killarney realize more. American Beauty are still scarce and good prices are realized for any first-class stock.

J. W. D.

INDIANAPOLIS.—An unexpected siege of warm weather has caused the growers an endless number of perplexities. Many of the flowers which had been coaxed along for weeks to be in readiness for Easter are now in full bloom. Cellars and other cool places are sought for the profusion now on hand. There remains no misapprehension for belated lilies, etc. The retailers' views, on the other hand, are most optimistic, as many orders are being hooked and inquiries are abundant.

Not much profit has been attached to the past week's business as the deluge of flowers caused orders to be filled regardless of price, there being no alternative between well-filled orders and the waste-box.

Bulbous stock is in bloom out of doors at this early date, so the effect upon forced stock can readily be pictured, \$2 to \$3.50 a hundred is obtained in wholesale lots. Violets are shipped in in heavy quantities. Late arrivals from Chicago report thousands of bunches offered at a nickel per bunch by the vendors.

Carnations are not to be outdone and introduce themselves daily by the thousands; unwelcome visitors many of them are at \$2 to \$3 per hundred. Roses have been in fair demand; select Bridesmaid, Bride and Mme. Abel Chatenay are wholesaling at \$8 to \$12 the hundred. American Beauty are prone to remain upon the store man's hands at \$2 to \$9 a dozen.

The display of blooming plants seen in the various shops has seldom been equalled; a number of plants are sold, but it is too early to move such numbers profitably.

Tomlinson Hall Market is one mass of color these days. Heavy wholesale orders have been booked; but retail trade is certainly disappointing.

I. B.

MINNEAPOLIS.—On account of the bright weather we have had the past week, business has been very good. Carnations especially have been handled in large numbers. Bulbous stock has also moved rapidly. The week preceding Easter is, as a rule, dull, but this year all of the trade have been kept busy. In every store Easter plants are carried quite largely, no doubt to induce early Easter orders, but from reports there have been but very few of them placed. A small number of churches have placed their orders, but the big trade in church orders is expected the fore part of this week.

A visit to the different greenhouses finds the Easter stock in general far ahead of last year. The lilies in some places have been forced very hard and show the effects, but as they will be wanted for only a matter of a few days it probably will not make any material difference especially with the churches, which for use in the residence they will be a disappointment as far as the keeping qualities are concerned. Azaleas appear to be much better than for a number of years past; the shape of the plants is all that can be expected and the blooms are fully up to expectations. Spiraeas, rhododendrons, hybrid roses, Baby Rambler and hydrangeas are grown, in large numbers, and in every instance the plants are of the best quality. One grower has a stock of Primula obconica which is exceptionally fine and is being eagerly sought after by the retailers.

The prospects for a large supply of cut flowers are good. About everybody has plenty of roses and carnations and immense quantities of bulbous stock, therefore there will not be much advance in prices. Some of the trade have already issued Easter price lists, offering roses at \$1.50 and \$2 per dozen, carnations from 75c to \$1.50 a dozen, and bulbous stock such as tulips, daffodils, and jonquils, at 75c a dozen; Murillo tulips at \$1 per dozen, lily of the valley, \$1, per dozen. There does not appear to be an advance of over from 10 to 25 per cent, and from the preparations and additional expense for a large Easter business, it seems that prices should be much higher.

PAUL.

THE METAIRIE RIDGE NURSERY COMPANY LTD.

NEW ORLEANS, LA.
GROWERS OF CHOICE CUT FLOWERS
Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.

ST. LOUIS.—Trade the past week was not very encouraging; the weather was too warm. Thursday was the warmest day on record for the month of March, it being 90 degrees in the shade. This, of course, brought out everything held back for Easter, and there was an enormous over-supply of cut flowers in this market. The retailers throughout the city report light trade. The plantsmen had an unusual number of Spring opening plant decorations. In the downtown district, stock is selling very cheap, and it is a question of how cheap stock is going to be the latter part of this week. The commission houses are all loaded down with quantities of extra fine stock, flowers selling very low in 1000 lots. Easter prices are, as yet, quite doubtful. A scarcity is hardly looked for now, and picking will not be necessary among the growers.

In looking over the stock at the wholesale houses this Monday morning we find in roses plenty of Bride, Bridesmaid, Richmond, Killarney and American Beauty in all grades, with prices ranging from \$1 to \$5 per 100. Carnations are selling cheap—\$10 per 1000 and \$1.50 to \$2 in 100 lots. Extra fancy brought \$3 per 100. Nelson Fisher and Enchantress are extra fine, as are Lady Bountiful. Lilies are in plenty now, also callas, which go at \$10 per 100. Harrisii and longiflorum lilies sell at \$12.50 per 100; daffodils, tulips, Roman hyacinths, lily of the valley, Paper White narcissus are too plentiful and many are going to waste. Easter prices will probably run as follows: Roses, select, \$6 to \$8; medium, \$4 to \$5 and shorts, \$2 to \$3 per 100. American Beauty, extra select, \$6 per dozen; medium, \$3; shorts, \$5 to \$8 per 100. Carnations, fancy, \$4 to \$5 per 100; firsts, \$2 to \$3; common, \$1 to \$1.50 per 100. Lily of the valley, \$2 to \$3; tulips, \$3 to \$4; Dutch hyacinths, \$4 to \$5; daffodils, \$2 to \$3; Roman hyacinths and Paper White narcissus, \$2 to \$3 per 100; sweet peas, 50c, to \$1 per 100; longiflorum and Harrisii lilies, \$12.50 to \$15; callas, \$12.50 per 100; violets, 50c. to 75c. per 100; smilax, \$15 to \$18 per 100 strings. Other greens will remain as usual.

COLUMBUS.—We have had good business right along through Lent, and now with Easter trade opening most favorably all the craft are feeling correspondingly happy. There will be a great business for Easter, as the weather the past two weeks has simply jumped an enormous amount of stock into salable condition. Spring seemed to open here with Summer weather, last week; the temperature went to over 81 degrees and practically stayed there for three or four days. The effect upon stock of all kinds can be imagined. Again, the simply enormous amount of bulbous flowers that are ready to cut, and must be marketed, insures reasonable rates for Easter, as even if roses and carnations are marked up, the great over-the-counter trade at popular prices can be taken care of with tulips, hyacinths, and narcissus. The only scarce item is lilies, but scarce or plenty, 25c. each is the price limit here, and cannot be exceeded except in very special cases. It certainly looks like a great Easter business, and at about the following rates:—American Beauty, \$2 to \$10; other roses, \$1 to \$3; carnations, 75c. to \$1.25; lily of the valley, 75c. to \$1; all bulbous stock, 50c. to \$1; lilies 25c. each; violets, \$1 to \$2 a hundred in bunches to suit the customer. With the exception of the last two items, the above quotations are for dozens.

The Richmond rose, is having a great run here; in fact, it is hurting the sales of American Beauty to quite an extent. As regards plants of all kinds they will be plentiful and most reasonable in price. This must be so, as every grower has an unusually large stock and of

most excellent quality. Everyone has made the most extensive preparations in years; and as every line of business here is very prosperous, with the result that money is waiting to be spent, it will certainly turn out to be when the story is told next week—a great Easter.

F. W.

WASHINGTON, D. C.—So far as present indications go, a satisfactory Easter is expected for both grower and retailer.

The entire Lenten season has been one of little demand and over-supply. On March 22 and 23 the thermometer suddenly jumped from normal to 95 degrees, thus adding to the glutted market. Bulbous stock and azaleas are superabundant everywhere. At Easter large shipments are expected from Pennsylvania, and it is hoped this season will relieve the market of much excess in both home grown and shipped flowers. There has been less demand than usual during the past week for decorative work, as Holy Week is more rigidly observed than the preceding weeks in Lent.

J. L. C.

FIRMS WHO ARE BUILDING

ADAMS, MASS.—T. D. Brown is planning for another big addition to his already extensive plant. Work will be begun at once.

FAIRHAVEN, MASS.—Peter Murray will build new greenhouses at the corner of Washington street and Temple place this Summer.

CHANGES IN BUSINESS.

TERRE HAUTE, IND.—Mrs. Lawrence Heim contemplates selling out the business of her deceased husband.

NEWBURYPORT, MASS.—E. W. Pearson has leased a store on the lower side of State street above Essex in which he will conduct a florist's business.

BAY CITY, MICH.—The Wm. Roethke Floral Company has leased the Parra building which the company will occupy as a flower store. The firm's greenhouses are located at Saginaw, Mich.

ABILENE, KAN.—The Abilene Nursery Company has been incorporated; capital stock \$10,000. Purpose, growing and selling plants, seeds, trees, etc. Incorporators: W. D. Batjer, W. A. Minter, Jr., J. V. Cockrell.

CONCORD, N. H.—C. H. Barratt has purchased the interest of F. A. Main in the business lately conducted under the name of F. A. Main & Company at 23 Pleasant street, and will continue to carry on the establishment at the old stand.

GRAND RAPIDS, MICH.—Charles W. Dolan, who has been a letter carrier at the local office for many years, has embarked in the florist business. He will not give up carrying mail, but has recently completed a new greenhouse on Quimby street and will take up flower culture as a side issue.

COLUMBIA CITY, IND.—Wagner Floral Company, composed of A. J. Wagner and O. H. Diefenderfer, has taken over the greenhouses known as "Wagner's Columbia City Greenhouse," and will add one house, 42 x 150 feet, for carnations, one 14 x 100 feet, for general stock, while the present room will be devoted to roses. Steam heat will be used. A. J. Wagner has been known to the trade for many years, while O. H. Diefenderfer has had but little experience; he is a practical business man and will add much to the strength of the company.

BUSINESS DIFFICULTIES.

DAVENPORT, IA.—A receiver has been appointed for the Allison-Pope Company, florists.

J. K. ALLEN
Wholesale Commission Dealer in **Cut Flowers**
106 West 28th St., NEW YORK
Open at 6 a. m. every day.
Telephone, 167 Madison Square.
Consignments Solicited

Wm. Stuart Allen Co.
Commission Merchants in CUT FLOWERS
ORCHIDS AT ALL SEASONS
53 WEST 28th STREET, NEW YORK
Telephone 356 Madison Square

C. BONNET **G. H. BLAKE**
BONNET & BLAKE
Wholesale Florists
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Telephone: 4633 Main.
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carefully attended to. Give us a trial.

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Open every Morning at Six o'clock for the
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Wall Space for advertising purposes to Rent.
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Always Ready to Receive Fine Stock
GUNTER BROTHERS
30 West 29th Street
Phone, 551 Madison Square. NEW YORK
Violets, Roses, Carnations, Orchids
Established 1888.

A. M. HENSHAW
Wholesale Commission Florist.
Consignments of first class stock solicited.
Prompt returns.
THE SQUARE DEAL
Guaranteed to all who trade here.
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Wholesale Grower
Asparagus Plumosus Nanus, Etc.
Short Hills, N. J.
Tel. 139.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES, CARNATIONS.
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Consignments of First Class Stock Solicited.

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SUCCESSOR TO
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Receiver and Shipper of all varieties of Cut Flowers
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Wholesale Prices of Cut Flowers, New York, March 27, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy—special.....	15.00 to 25.00	Carnations	Infr grades, all colors.....	1.00 to 1.50	
	" extra	12.00 to 15.00		STANDARD VARIETIES	White	1.50 to 2.00
	" No. 1	10.00 to 12.00		" Pink	1.50 to 2.00	
	" No 2	6.00 to 10.00		" Red	1.50 to 2.00	
	" No 3	1.00 to 3.00		" Yel. & Var.	1.50 to 2.00	
	Bride, Maid fancy—special.....	5.00 to 6.00		*FANCY—	White	2.00 to 3.00
	" extra	4.00 to 5.00		" (*The highest grades of standard var)	" Pink	2.00 to 3.00
	" No. 1	3.00 to 4.00		" Red	" Red	2.00 to 3.00
	" No. 2	1.50 to 2.00		" Yel. & Var.	" Yel. & Var.	2.00 to 3.00
	Golden Gate.....	2.00 to 2.00		NOVELTIES	"	4.00 to 6.00
RICHMOND.....	2.00 to 15.00	FREESIAS, per doz. bunches.....	"	1.00 to 1.50		
Mme. Abel Chateaux	2.00 to 10.00	GARDENIAS, per doz.....	"	1.00 to 3.00		
ADANTUM.....	50 to 1.00	LILAC, per bunch.....	" .....	.50 to .60	
CROWNEANUM.....	1.00 to 1.50	LILIES.....	"	10.00 to 15.00		
ASPARAGUS.....	25.00 to 50.00	LILY OF THE VALLEY.....	"	1.00 to 2.00		
Plumosus, bunches.....	15.00 to 20.00	MIGNONETTE.....	"	2.00 to 6.00		
Sprengerl, bunches.....	15.00 to 20.00	NARCISUS, Paper White.....	"	1.00 to 2.00		
"	to	" Yellow.....	" .....	.35 to 1.00	
"	to	ROMAN HYACINTHS.....	"	1.00 to 2.00		
CALLAS.....	12.00 to 15.00	SMLAX.....	"	12.00 to 15.00		
CATLEYAS.....	40.00 to 60.00	SWEET PEAS, per doz. bunches.....	" .....	.50 to 1.25	
CYPRIPEDIUMS.....	12.00 to 15.00	TULIPS.....	" .....	.50 to 2.00	
DAISIES.....	1.00 to 3.00	VIOLETS.....	" .....	.20 to .50	

WALTER F. SHERIDAN
Wholesale Florist
Tel. 3532-3533 Mad. Sq. 39 WEST 28TH ST., NEW YORK
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING
American Beauty, Bridesmaid, Bride, Liberty,
Lilies, Lily of the Valley, Carnations
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Madison Square

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Opposite New York Cut Flower Company

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SPECIALTIES—Violets, Carnations and Roses
Shipping orders receive prompt attention. Con-
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Between Broadway and 6th Ave., New York
Shipments of Plants made to any part of the
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THOMAS YOUNG Jr.
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New Orleans, La.
News Notes.
A visit to Horticultural Hall at Audubon Park showed everything in fine order. The collection of geraniums here composes all the up-to-date varieties and are so well grown that Head Gardener Weller may well be proud of them. He also has a fine collection of fancy-leaved caladiums including many of his own seedlings. An interesting item is some pans of seedling sugar cane, which Mr. Weller is raising for Professor Blouin at the experiment station.
The Abele Brothers are busy planting the new addition to their garden. They are also building a new cottage for Otto Abele, Paul's residence being already on the grounds.
Emile Valdejo, who retired from the florist business last year, has purchased four lots near the river front, where he will build a new residence.
At the last meeting of the Horticultural Society the principal business transacted was completing the arrangements for the Fall shows.
CRESCENT CITY.

What to Call a Spade.
The New Man—Oh, I see. You want a man on this paper who will call a spade a spade.
The Editor—Certainly not. We want a man who can call a spade an indispensable implement of primitive agriculture.—Exchange.

S. S. PENNOCK-MEEHAN Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA,

STORE CLOSÉS AT 8 P.M.

1608 to 1618 LUDLOW STREET

EASTER PLANTS, RIBBONS AND SUPPLIES

For Easter
 Easter Lilies, cut flowers only
 \$15.00 and \$18.00 per 100.
 Brunners, \$50.00 per 100.
 Valley, \$4.00 per 100, a limited quantity of fancy grade at \$5.00 and \$6.00 per 100.
 American Beauties, as fine as we ever offered at Easter.
 Extra fine lot of Violets, both large singles and doubles.
 Write for Easter price list.

A COMPLETE LINE OF PLANTS FOR EASTER

WRITE FOR LIST AND PRICES.

Open from 7 a. m. to 8 p. m.
THE LEO NIESSEN COMPANY,
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Fancy American Beauties,
 Fancy Carnations,
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Valley, American Beauties, Brides and Maids; Sprengerl, Asparagus Plumosus, Carnations and Violets, all seasonable flowers.
 Large stock of Stevia on hand, can supply you at lowest market prices at short notice.
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W. E. McKISSICK,

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 1221 FILBERT ST., PHILA., PA.

Wholesale Prices of Cut Flowers—Per 100

Boston	Buffalo	Detroit	Cincinnati	Baltimore	NAMES AND VARIETIES	Milwaukee	Phil'delphia	Pittsburg	St. Louis
Mar. 25, 1907	Mar. 25, 1907	Mar. 4, 1907	Mar. 25, 1907	Mar. 25, 1907		Mar. 7, 1907	Mar. 4, 1907	Mar. 25, 1907	Mar. 25, 1907
40.00 to 75.00	50.00 to 60.00	.....to100.00	.....to	.....to	A. BEAUTY, fancy-special	.....to	75.00 to 90.00	.....to 40.00	80.00 to 40.00
20.00 to 30.00	20.00 to 50.00	.....to 80.00	.....to	.....to 25.00	" extra	.....to 25.00	50.00 to 60.00	.....to 30.00	15.00 to 25.00
10.00 to 20.00	10.00 to 70.00	.....to 70.00	.....to	.....to 15.00	" No. 1	15.00 to 18.00	18.00 to 20.00	.....to 15.00	20.00 to 12.50
8.00 to 10.00	8.00 to 10.00	20.00 to 30.00	.....to	4.00 to 8.00	BRIDE, MAID, fancy-special	4.00 to 8.00	5.00 to 15.00	6.00 to 10.00	4.00 to 8.00
10.00 to 20.00	12.00 to 15.00	6.00 to 15.00	6.00 to 8.00	10.00	extra	.....to	18.00 to 20.00	15.00 to 18.00	10.00 to 12.50
6.00 to 10.00	10.00 to 12.00	.....to	5.00 to 6.00	8.00	" No. 1	.....to	12.00 to 15.00	.....to 12.00	6.00 to 3.00
4.00 to 6.00	8.00 to 10.00	.....to	4.00 to 5.00	6.00	" No. 2	.....to	5.00 to 10.00	.....to 10.00	4.00 to 5.00
.....to	6.00 to 8.00	.....to	2.00 to 3.00	4.00	GOLDEN GATE	.....to	4.00 to 5.00	.....to 6.00	.....to
.....to	8.00 to 12.00	.....to	2.00 to 6.00	5.00	K. A. VICTORIA	4.00 to 8.00	6.00 to 15.00	.....to	5.00 to 10.00
.....to	8.00 to 20.00	.....to	.....to	3.00 to 5.00	LIBERTY	4.00 to 8.00	5.00 to 25.00	8.00 to 12.00	.....to
.....to	6.00 to 8.00	.....to	.....to	3.00 to 5.00	METEOR	.....to	.....to	.....to	.....to
.....to	5.00 to 8.00	.....to	.....to	2.00 to 4.00	PERLE	4.00 to 6.00	.....to	6.00 to 8.00	5.00 to 8.00
.....to	.....to	.....to 60.00	.....to	.....to	ROSES	.....to	.....to 50.00	.....to	.....to
.....to	2.50 to 4.00	.....to	.....to	3.00 to 4.00	ORCHIDS—Cattleyae	.....to	2.00 to 3.00	3.00 to 4.00	2.00 to 2.50
3.00 to 4.00	2.50 to 4.00	3.00 to 8.00	2.00 to 3.00	3.00 to 4.00	inferior grades, all colors	.....to	3.00 to 4.00	4.00 to 5.00	2.00 to 2.50
8.00 to 4.00	2.50 to 4.00	.....to	2.00 to 3.00	3.00 to 4.00	Standard	1.50 to 2.00	3.00 to 4.00	4.00 to 5.00	2.00 to 2.50
8.00 to 4.00	2.50 to 4.00	.....to	2.00 to 3.00	3.00 to 4.00	Varieties	.....to	3.00 to 4.00	4.00 to 5.00	2.00 to 2.50
3.00 to 4.00	.....to	.....to	2.00 to 3.00	3.00 to 4.00	White	.....to	3.00 to 4.00	4.00 to 5.00	2.00 to 2.50
4.00 to 5.00	4.00 to 6.00	.....to	3.00 to 4.00	5.00 to 6.00	Yellow and var.	3.00 to 4.00	3.00 to 4.00	6.00 to 8.00	3.00 to 5.00
4.00 to 5.00	4.00 to 6.00	.....to	3.00 to 4.00	5.00 to 6.00	White	3.00 to 4.00	4.00 to 6.00	6.00 to 8.00	3.00 to 5.00
4.00 to 5.00	.....to	.....to	3.00 to 4.00	5.00 to 6.00	Fancy	3.00 to 4.00	4.00 to 6.00	6.00 to 8.00	3.00 to 5.00
4.00 to 5.00	.....to	.....to	3.00 to 4.00	5.00 to 6.00	Varieties	3.00 to 4.00	4.00 to 6.00	6.00 to 8.00	3.00 to 5.00
5.00 to 7.00	.....to	.....to	.....to	5.00 to 6.00	Red	3.00 to 4.00	4.00 to 6.00	6.00 to 8.00	3.00 to 5.00
75 to 1.00	1.00 to 1.50	.....to	.....to	1.00	Yellow and var.	.....to	.....to	.....to	.....to
.....to 50.00	40.00 to 80.00	25.00 to 60.00	.....to 50.00	.....to 30.00	CARNATIONS	.....to	.....to	.....to	.....to
.....to	10.00 to 20.00	20.00 to 80.00	.....to 35.00	.....to 30.00	Novelties	.....to	.....to	.....to	.....to
.....to 12.50	1.00 to 2.00	.....to 15.00	.....to 15.00	18.00	ADIANTUM	.....to	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
12.50 to 15.00	.....to	.....to	.....to	18.00	ASPARGUS, Plum. and Tea	20.00 to 30.00	50.00 to 75.00	25.00 to 50.00	25.00 to 40.00
2.00 to 5.00	3.00 to 4.00	3.00 to 5.00	8.00 to 4.00	.....to	SPRENGER, bunches	20.00 to 30.00	50.00 to 75.00	80.00 to 100.00	25.00 to 75.00
2.00 to 4.00	3.00 to 4.00	.....to	.....to	3.00	CALLAS	10.00 to 12.50	12.50 to 15.00	15.00 to 18.00	12.50 to 15.00
4.00 to 8.00	4.00 to 6.00	.....to	.....to	75	DAISIES	.....to	75 1.50 to 3.00	2.00 to 4.00	2.50 to 5.00
12.00 to 15.00	.....to	.....to	.....to	.....to	LILIES	15.00 to 18.00	10.00 to 15.00	12.00 to 15.00	12.50 to 15.00
.....to	.....to	.....to	.....to	.....to	LILY OF THE VALLEY	2.00 to 3.00	2.00 to 5.00	3.00 to 5.00	3.00 to 4.00
.....to	.....to	.....to	.....to	.....to	MIGNONETTE, ordinary	2.00 to 3.00	3.00 to 6.00	2.00 to 3.00	2.00 to 3.00
.....to	.....to	.....to	.....to	.....to	" fancy	.....to	4.00 to 6.00	4.00 to 6.00	5.00 to 6.00
.....to	.....to	.....to	.....to	.....to	SMILAX	.....to	15.00 to 20.00	20.00 to 25.00	.....to 15.00
.....to	.....to	.....to	.....to	.....to	VIOLETS	.....to	50 to 1.00	60 to .75	20 to .25
.....to	.....to	.....to	.....to	.....to	" fancy	.....to	75 to 1.25	.....to 1.00	35 to .50

Boston.

News Notes.

A delegation of about fifty members of the Gardeners and Florists' Club held a very successful outing on Saturday afternoon at the Waverly establishment of W. W. Edgar & Company. The chief features of the establishment were the large numbers of Easter lilies and azaleas. A superb lot of large azaleas was seen. The party was served with refreshments by Mrs. Edgar and family, and several speech makers expressed their appreciation of the event, while the singing of a favorite song by W. J. Stewart was much appreciated.

Anderson & Williams are at present cutting some extra fine Bride and Bridesmaid roses which find a ready sale at the hands of Wm. Aylward in the Park street flower market.

E. L. Beard, formerly of the Shady Hill Nursery Company, has opened an office at 155 Milk street for the sale of nursery stock under the name of the Nursery Exchange of New England.

B. K. Howard will be the speaker at the meeting of the Gardeners and Florists' Club on April 16; his subject will be "Landscape Gardening." It is expected that Duncan Finlayson will be the speaker at the May meeting, taking for his subject "How to Plant an Italian Garden."

The wind storm of last Thursday played havoc with one of the greenhouses of Peirce Brothers at Waltham, causing considerable repairs to be made.

Thos. Roland of Nahant has a superb lot of Easter plants, including many fine acacias of the varieties armata, longifolia and heterophylla.

J. W. DUNCAN.

ROCK ISLAND, ILL.—The fall that Otto Klingbiel, florist, sustained last Summer which confined him to the hospital for several months, has resulted in a derangement of his mental faculties that makes necessary his confinement at Mt. Pleasant hospital for the insane for treatment.

BOSTON, MASS.

Asparagus Plumosus
 Mignonette
 Lili. Harrisli
 Brides, 'Maids
 American Beauties

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CITY HALL CUT FLOWER MARKET
 226 Devonshire Street,

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 Carnots
 Orchids
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 Carnations
 Violets

Can furnish at short notice, Price according to quality of goods. Long Distance Telephone 6267 and 6268

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 1526 Ranstead Street, PHILADELPHIA
 Bet. Market and Chestnut Streets
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Wholesale Florists
 1516-18 SANSON STREET
 High Grade Cut Flowers
 Open Evenings until 8.

Headquarters in
WESTERN NEW YORK



For Roses,
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And all kinds of Seasonable Flowers.

WM. F. KASTING
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 Also dealer in Florists' Supplies and Wire Designs
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COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00.
Bountiful. Per 100 \$2.75, per 1000 \$25.00.
Elegant. Per 100 \$2.00, per 1000 \$18.00.
Book orders now. Quality guaranteed. If you don't like them we pay express both ways.
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Be your own Commission Man
THE FLOWER GROWERS' MARKET
furnishes the facilities
See PERCY JONES, Mgr.
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J. B. DEAMUD CO.
Wholesale Cut Flowers
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Consignments Solicited

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All telegraph and telephone orders
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Rose Growers and Commission Handlers of Cut Flowers
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WHOLESALE CUT FLOWERS
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Careful attention to all SHIPPING ORDERS.

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Wholesale Grower of Cut Flowers
CHOICE AMERICAN BEAUTY ROSES
We will take care of your orders at reasonable prices. Prompt attention.
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Wholesale Growers of
Dealers in Cut Flowers.
All telegraph and telephone orders
given prompt attention.
Greenhouses: 35-37 Randolph St.,
MORTON GROVE, ILL. CHICAGO.

Wholesale Prices of Cut Flowers, Chicago, Mar. 26th, 1907
Prices quoted are by the hundred unless otherwise noted

Table with columns for ROSES American Beauty and various flower types like Golden Gate, Uncle John, Liberty, etc.

CHAS. W. MCKELLAR
Orchids
FANCY VALLEY, ROSES, CARNATIONS,
and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago

VAUGHAN & SPERRY
Wholesale Florists
WESTERN HEADQUARTERS FOR
DOUBLE & SINGLE
VIOLETS
Valley, Carnations and Roses
58-60 WABASH AV., CHICAGO

Table with columns for CARNATIONS and various flower types like STANDARD VARIETIES, FANCY, etc.

J.A. BUDLONG
37-39 Randolph Street, CHICAGO.
Wholesale CUT FLOWERS
Roses and Carnations A Specialty... GROWER of

ST. PAUL, MINN.
Send us your Orders for delivery in the Northwest, which will have our best attention.
L. L. MAY & CO.
Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.
WHOLESALE FLORISTS and FLORISTS' SUPPLIES
Manufacturers of WIRE DESIGNS
457 Milwaukee St., MILWAUKEE, WIS.
Phone, Main 874. P. O. Box 103

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES
C. C. Pollworth Co.
MILWAUKEE, WIS.
Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

inary loss to Mr. Hauswirth not to be able to be installed in his new quarters for the transaction of his Easter business. It is promised that the new store will be a gem as regards its furnishing and finishing, and the conservatory, thirty by seventy feet, in the rear, will be a beautiful and important augmentation to the equipment of the concern.

Two leaders of the wholesale branch of Chicago commercial floriculture were enjoying the balmy Spring weather last week by an auto trip through the beautiful drives in the northern part of the town when two plain clothes representatives of the majesty of the law saw fit to temporarily interfere with their pleasure by escorting them to the Sheffield avenue station where by stop watches conclusive evidence of violation of the speed ordinance was produced and \$25 of the profits on long-stemmed American Beauty turned into the city's exchequer.

Harry Manheim of the J. A. Budlong crew was one of the many on the sick leave list last week but is able to be about with the opening of this busy week.

Among the visitors in the city last week getting a line on Easter prospects was W. G. Matthews of Dayton, O.

Ten thousand bench plants of American Beauty roses was one order completely filling one freight car placed to the credit of Peter Reinberg last week. Five houses in the block east of Roby street have already been filled with Mrs. Marshall Field rose, the variety which Mr. Reinberg expects to put on the market next year.

A plan is under consideration to make the next Florists' Club meeting, on April 11, a week from next Thursday, a retailers' smoker, when the results of the Easter business can be talked over from the standpoint of the man who is in closest touch with the consumer or final purchaser, who in reality is the one who foots the bills.

Miss Davidson, bookkeeper for the E. F. Winterston Company, though not fully recovered, is back on duty after last week's illness.

J. F. Miller, McHenry, Ill., and H. W. Buckhee, Rockford, Ill., were noted among Monday's visitors.

Last Sunday at noon the Winterston Seed Store took possession of a goodly portion of its new quarters above the old, familiar stand and cleaning house and installing Easter plants were immediately in order. On Monday business in the new department was in running order and opened up very satisfactorily to the managers.

Sharp, Partridge & Company of this city are among the largest glass dealers of the country, handling a generous proportion of the required product for florists' use.

Spring, which was astronomically scheduled to arrive here at 1:33 o'clock on Thursday afternoon of last week, was on time, and in an appreciative mood the mercury mounted to 76 degrees within two hours, constituting a record for the season for thirty-one years. On Friday the hot spells continued and Saturday, with the thermometer registering a fraction of a degree over 80, demolished all precedents for high temperature in March during the existence of the weather records. Sunday saw a return to normal March conditions, but on Monday Spring returned, and as a result of this remarkable weather the most carefully prepared prophecies were overturned. Wm. K. Wood.

MORRISTOWN, N. J.—The green-house of John Green between Morristown and Bernardsville, was struck by lightning during the thunder shower of last week. Rafters were broken, glass knocked out and the boiler and heating apparatus damaged.

VIOLET CULTURE
Price, \$1 50 Postpaid
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SOUTHERN WILD SMILAX

Now ready in any quantity

Book orders now for future delivery. **Beaven's Fadeless Sheet Moss**, \$3.50 per bag. delivered. Send for sample. Also **Fancy Holly** for Xmas trade. Satisfaction guaranteed. Write for prices.

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EVERGREEN, ALA.



Front View



Rear View

Wittbold's Combination Vase and Plant Stand

Has been used for the past 15 years and has proved itself an invaluable asset to the decorator. We refer to unsolicited correspondence and description in Florists' Exchange of March 16th, 1907, page 357. **Price \$18.00 per dozen.**

THE GEO. WITTBOLD CO., 1657 Buckingham Place, Chicago

Fancy or Dagger Ferns



Dagger Ferns, \$1.50 per 1000
Fancy Ferns, \$1.75 per 1000
Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
Boxwood, No. 1 Stock, 50 lb. cases, \$3.50
Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
Southern Smilax, fancy stock, 50 lb. cases \$5.50
Laurel Branches, 35c. per bundle

Telegraph Office: New Salem, Mass.

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Fancy & Dagger Ferns. Fine Quality \$2.00 per 1000.
New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.
Southern Wild Smilax \$3.50 and \$7.00 per case.
Laurel Festooning, 400d

and full, 5c. and 6c. per yard.
Branch Laurel, 50c. per bundle.
Leucothoe Sprays, \$1.00 per 100.
Sphagnum Moss, 50c. per bag; five bags \$2.00.
Green Moss, \$1.00 per bbl



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes, cut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

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Hardy cut ferns, FANCY or DAGGER, \$1.50 per 100.
LAUREL ROPING, \$4.50 per 100 yd.
GALAX LEAVES, 75c. per 1000.
Sphagnum Moss, 50c. per bbl.

Cash with all orders.

All orders by mail or dispatch promptly attended to.

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WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

USE THE BEST.
Economy Greenhouse Brackets
are used by leading growers everywhere. Send for price list and descriptive circular.
BUXTON & ALLARD, CUPPL. G. Nashua, N. H.

Minneapolis.

Newa Notes.
Wm. Desmond, formerly with Holm & Olson, St. Paul, is now with the Donaldson Glass Block. Wm. Owens, the past manager of their retail department, has accepted a position in Boston.

Ralph Latham has greatly enlarged his place, it being the only conservatory store in the city and now, as it covers a good space, he is able to make a grand Easter display.

Amundson & Kerschner have turned over immense quantities of bulbous stock the past week; they report country business as being very good. Design work they also say has kept up nicely.

Some difficulty is being experienced by most of the retailers, in being able to get a sufficient number of Easter lilies. The growers consider themselves fortunate in getting all of them in bloom, and whether they overestimate or not their own retail demand, they appear reluctant to sell any more than what they are really obliged to do. It begins to look as though a great many lilies will be shipped in. **PAUL.**

Manchester, Mass.

The regular meeting of the North Shore Horticultural Society was held on Friday evening and was one of the best attended of the season, about forty members being present. After the regular business the members listened interestedly to a paper on "Trees and Shrubs" by John W. Duncan of the Boston Park Department. A lengthy discussion followed Mr. Duncan's talk.

It was announced that J. K. M. L. Farquhar would lecture before the society some time during April.

President McGregor, who has been on the sick list, was able to again attend to his official duties. **J. W. D.**

Tomlinson Hall market florists are enjoying a heavy business; most of their best stock has been engaged early by the retailers.

MANCHESTER, N. H.—During a recent wind storm two brick walls of Hood's greenhouses were blown down, but on account of some of the supports the glass roof did not fall.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, BERLIN, N. Y.

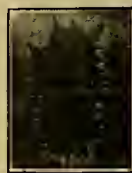
Samples free. For sale by dealers.

WILD SMILAX \$3.50 per case NEEDLE PINES \$1.00 per doz.

Palm Crowns, \$2.50 per doz.; Palmetto Leaves, \$2.50 per 100; Magnolia, \$2.50 per case; Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 1000.

Caldwell The Woodsman Co., Evergreen, Ala.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.



EXTRA FINE FANCY AND DAGGER FERNS

\$2.00 per 1000. Discount on large orders. Leucothoe Sprays, \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 200 lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season. **38 & 40 Broadway. Formerly Miami Ave. DETROIT, MICH.** Send for our weekly price list on Cut Flowers.

Baltimore, Md.

News Items.

The weather has been clear and Spring-like; outdoor work has commenced with a rush. Trade in cut flowers is slightly slower than it was a week ago and there seems to be an abundance of everything. The prospects for a good Easter week are bright, as many azaleas, Rambler roses, lilies and bulbous stock are already on the move. Prices are but fair at the present time. A great scarcity of greens has been noticeable for some time.

The members of the Gardeners' Club, with the bowlers, returned from Washington very much pleased with the kind hospitality extended to them. Washington is a little over 100 pins ahead of Philadelphia and Baltimore. The next match will be played in Philadelphia in April. Washington is the holder of the Baltimore cup for the present, but look out for the Philadelphia boys in April! C. L. S.

The florist business is particularly well represented in this city. There are probably over one hundred establishments where plants and cut flowers are grown for commercial purposes. In addition to this there are a good many large private estates where a head gardener is kept as well as a well-trained corps of assistants, where greenhouses well filled with all the popular flowering plants as well as all the choicer exotics attest to their ability to keep well in the ranks with the foremost of commercial growers.

Among the latter Samuel Feast & Sons occupy a position well in the foreground. They have two fine stores as well as a large range of glass at Catonsville where most of the stock is grown. Orchids and American Beauty are handled in large quantities as well as all other stock in season.

Edwin A. Seidewitz, who has quite a growing establishment here as well as at Annapolis, has a handsome store on Charles street. Most of his stock is grown at Annapolis and he is now busy enlarging his range of glass in this county to keep up with his increasing business.

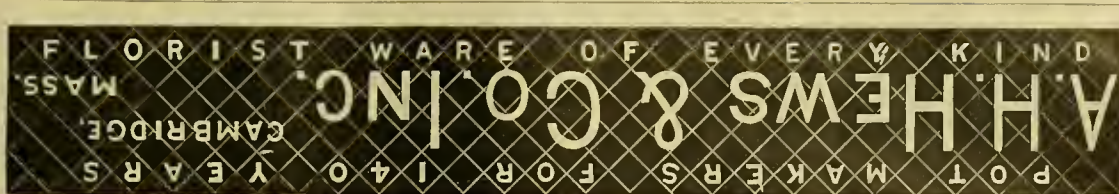
Halliday Brothers, 329 North Charles street, have a grand array of Easter stock. Many handsome rhododendrons in various shades of the leading hybrid varieties were seen in their display.

Wm. J. Halliday has a well equipped store also on North Charles street with a large stock on hand of all that goes to make a well equipped flower shop and was apparently enjoying a very good business.

John Cook, 318 North Charles street, has a very attractive store just across the street from Halliday Brothers. While a number of stores are in this immediate vicinity it does not appear to a casual visitor that any of their business interests suffer thereby.

The "Fernery," near the Union Depot is also an attractive flower store; they had a large display of bulbous stock. The "Fernery" is owned by Mr. Blackstone, and across the street is the second establishment of Samuel Feast & Sons.

It was market day on Saturday and the florists from all the suburbs were on hand with their pre-Easter displays. The stalls that are usually sufficient in the market place were entirely inadequate for the day. For two blocks on either side of the street in the close vicinity of the Lexington market the florists held forth with fine effect. Although it was a little past the middle of March the entire street looked as bright as a garden in June. There were spiræas in large quantities and hyacinths, tulips and narcissus by the wagon load. Talk about a shortage of lilies for Easter, the display here showed nothing of the sort. The florists that contributed most to this display were H. Ebelhart & Son, Beaumont avenue; H. Walthers, Park Heights avenue and Pimlico road; Mrs. E. H. Hahn, Roland Park; Inwald Brothers, Hillen road; Edward Kress, 2506 East North avenue; Henry Fisher, Sinclair avenue; Harry Ekas, Frederick road; F. C. Bauer, Julius Tischinger, and M. Thau of Govanstown. J. M.



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Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

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WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.

Scranton, Pa.

The Scranton Florists' Club held its initial exhibition on March 16, and it was a most successful one. The exhibits were judged by points, and it is the intention of the club to award a silver cup to the party securing the largest number of points on its exhibits during the year.

Local exhibitors included Marvin & Muir, G. R. Clark, Schultheis & Company, T. B. McClintock, Thomas Arner, Ralph Harwood, J. Rodham & Son, Scranton Florists' Supply Company. The out of town exhibitors were: William MacDonald, Moosic; Davis Bros., Bloomsburg; J. E. Haines, Bethlehem; J. J. Wade, Carbondale; Leo Niessen Company, Philadelphia; Paul Niehoff, Lehigh; J. L. Dillon, Bloomsburg; C. H. Gerbig, Archbald; G. H. Schlingmann, Wilkes-Barre; A. D. Turnbull, Carbondale; Chicago Carnation Company, Joliet, Ill.; C. W. Ward, Queens, L. I.; F. Dörner & Sons Company, Lafayette, Ind.; W. J. and M. S. Vesey, Fort Wayne, Ind.; E. R. Pierson Company, Tarrytown, N. Y.; Yates Floral Company, Canajoharie, N. Y.; E. J. Hill, Olyphant; and S. S. Pennock-Meehan Company, Philadelphia.

The awards of the judges were as follows:

Marvin & Muir—One large basket of narcissus, 90 points; one basket lilies, 90 points; one pan tulips, 90 points.

Paul Niehoff, Lehigh—Certificate of merit for new rose Aurora.

Thomas Arner, Scranton—Boston fern, 90 points; primulas, 85 points.

Schultheis & Co.—For arrangement of plants for artistic effect, 95 points; pot of iris, 85 points; one plant, rhododendron, 90 points.

G. R. Clark—Table decorations, 85 points; floral basket, 92 points; table centerpiece, 85 points.

T. B. McClintock, Scranton—Bride's bouquet, 90 points; mantel decorations, 90 points.

E. J. Hill, Olyphant—Group of plants, 90 points; lily plant, 85 points.

T. B. McClintock, Scranton—Honorable mention for old and new style baskets.

C. W. Ward, Queens, L. I.—Certificates of merit for Alma Ward and Beacon carnations.

Leo Niessen Company, Philadelphia.—Honorable mention for display of roses.

J. L. Dillon, Bloomsburg.—Honorable mention for roses and carnations.

W. C. Clark—Special mention for floral display.

Scranton Florists' Supply Co.—Special mention for artistic arrangement of floral supplies.

J. Rodham & Son—Special mention for display of carnations.

T. B. McClintock, Scranton—Special mention for floral display.

Davis Bros., Bloomsburg—Honorable mention on carnations.

Charles Schlingmann Wilkes-Barre—Honorable mention for Primula obconica.

C. H. Gerbig, Archbald—Honorable mention for display of carnations.

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IS HE EATING YOU?

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KILLS HIM QUICKLY

TRIAL BOXES for house 100x20 25 cents post paid.
BOXES 24 SHEETS " " " \$3.50 Express " " " 288 " " " \$6.50 " " " "

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Packed in small crates, easy to handle

Price per crate	Price per crate
1600 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20
1600 2 1/4 " " " 5.28	60 " " " 5.00
1000 2 " " " 6.00	HAND MADE
800 2 1/2 " " " 5.80	48 9 in. pots in crate, \$3.60
500 2 1/4 " " " 4.50	24 11 " " " 8.60
320 2 " " " 4.51	12 14 " " " 4.80
144 2 " " " 8.18	6 18 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

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August Rolker & Sons, Arts., 31 Barclay St., N. Y. City



Sheep Manure

Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.
ROBERT SIMPSON
Clifton, N. J.

John E. Haines, Bethlehem—Honorable mention for Imperial, Pink Imperial, John E. Haines and Seeding No. 6.
G. R. Clark—Honorable mention for display of roses.



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Tobakine Products

"THEY KILL BUGS"

"Flowers and Profits"

is a profitable and interesting booklet.

E. H. HUNT, General Agent
76-78 Wabash Avenue, Chicago, Ill.

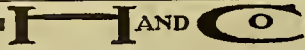
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By Bag, Ton, or Car Load Lots.

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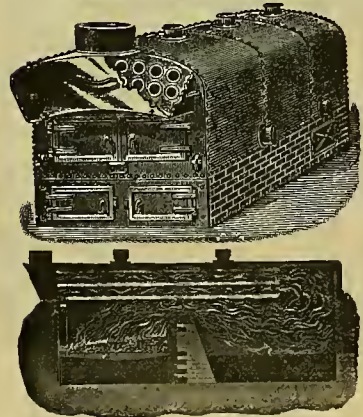
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GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



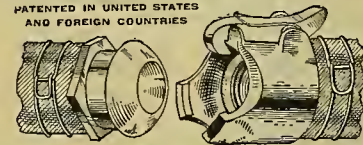
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IMPROVED Greenhouse Boiler
33 ERIE STREET, CHICAGO



Boilers made of Steel Boiler Plate, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information.

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A solid brass casting, made as shown or threaded to fit ordinary hose couplers and faucets. Hose can be coupled and uncoupled in any position with *one hand*. The washers are stationary and will last years. A half minute saved every time you change hose.

\$3.00 per doz. sets, two pieces.
\$2.25 per dozen females for faucets.
Discount on gross lots.

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San Francisco.

Jottings.

Now that advertisers in florists' papers are mentioning "Decoration Day" and "Memorial Day" a veteran in the trade admonishes me. He is a two-fold veteran; not only has he been in the San Francisco trade as a plant and flower grower for more than two decades, but he is a Civil War veteran with a lame right leg, the result of a fall he had during the battle of Stone River. He was doing service in a tree-top as a sharpshooter until the enemy took notice of him, and sent a few shells his way, one of which clipped away his supporting branch, causing him to fall twelve feet below, where he was caught with a maimed leg in a friendly nest of other branches, and the lameness in his walk to this day is quite perceptible. He admonishes me in this way: "For several months last year before Memorial Day," he said, "I noticed in The Florists' Exchange and other trade papers that fully 50 per cent. of the growers who were advertising stock for the 30th of May, used in their advertisements the expression 'Decoration Day' instead of 'Memorial Day.' I want you in your writings to entirely discard the term 'Decoration Day.' As a time for strewing flowers over graves May 30 was selected by the Grand Army of the Republic many years ago, and some time thereafter, about twenty-five years ago, the Grand Army considered the day and christened it 'Memorial Day,' and ever since comrades speak of it only as 'Memorial Day,' which is now very generally taken cognizance of as a national holiday for remembering the dead and covering their graves with flowers. Do what you can to get the people to avoid the old habit of speaking of this annual event as 'Decoration Day.'"

A few months before the earthquake-fire The Florists' Exchange had an exclusive notice to the effect that the John H. Sievers Nursery Company had a representative appear before the city authorities with a warning that if they raised the street grade at Polk and Chestnut streets to the great height they were discussing it would greatly destroy the value of John H. Sievers' nursery plant and heavy damages would be exacted. Recently Mr. Sievers brought suit against the city for \$2,000 damage already done by water because of the raised grade made by the city.

In an interview this week with Park Superintendent McLaren he said: "Men are at work now plowing and reseeded places in Golden Gate Park from which the earthquake-fire refugees moved recently, but it is a big job to repair the damage that has been done. Not only has the grass been killed, but trees have been damaged by the refugees, and it will require two years to restore the park to its former good condition. It will require at least \$175,000 to repair the damage done to the parks by the refugees, in addition to the injury done by the earthquake." ALVIN.

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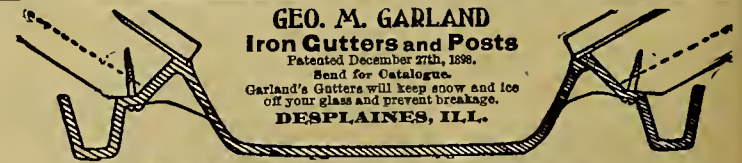
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WILLIAM H. KAY COMPANY,
244 Fulton Street, New York City

CLEVELAND, O.—Cleveland florists are trying to withhold from the undertakers any share in the profits resulting from the funeral floral business. The florists say that at present undertakers demand 40 per cent. of profits derived from house decorations and floral designs.—*Press*.

DAYTON, O.—The Dayton Florists' Club held its annual election of officers on Thursday evening, March 14. The following gentlemen were elected for the ensuing year: George Bartholomew, president; F. W. Ritter, vice-president; Horace Frank, secretary; H. H. Ritter, treasurer. The president is manager of the Miami Floral Company.

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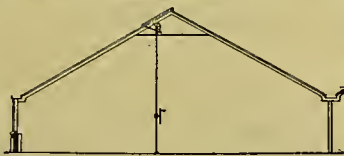
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Vol. XXIII. No. 14 NEW YORK AND CHICAGO, APRIL 6, 1907 One Dollar Per Year

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Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

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Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.
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Each 20c.; doz., \$1.50; per 100, \$11.00.

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 \$5.00 per 1000
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ASPARAGUS PLUMOSUS NANUS
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Choice Canna Tubers

25 Varieties, \$17.00, \$19.00, \$22.00 and \$24.00 per 1000.

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TRUE LONG-LEAVED VARIETY—Splendid, shapely stems, ranging in weight to suit the most particular buyer. We offer as follows: 25 lbs. at 12c. per lb. 10 lbs. at 10c. per lb. 5 lbs. at 8c. per lb. 100 lbs. at 7c. per lb. 300 lbs. (cases) at 7c. per lb.

CHINESE PEONIES

Exceptionally Fine Roots with 2 to 7 Eyes
 Double White.....\$1.50 per doz.; \$8.00 per 100
 Double Flank.....1.25 per doz.; 7.00 per 100
 Double Red.....1.25 per doz.; 7.00 per 100
 Double Mixed.....1.00 per doz.; 6.00 per 100

Write for Peony List.

Johnson Seed Co., 217 Market Street, PHILADELPHIA, PA.

Herbert W. Jobeson, of the Late firm of Johnson & Stokes, President.

Send for Wholesale Trade List

Azalea Amoena, cheap, 600,000 Herbaceous Plants, Wichuraiana Hybrids, 2 yr. \$5.00 per 100
 Privet 2 to 2½ ft. \$25.00
 3 to 4 ft. 30.00
 4 to 5 ft. 40.00
 5 to 6 ft. 50.00

ELIZABETH NURSERY COMPANY, Elizabeth, N. J.

DAHLIAS AND THE DAHLIA MANUAL



An Illustrated up-to-date work covering the whole field of Dahlia Culture. Price 35c.
 Send for catalogue of Dahlias, Hollybecks and Hardy Plants. I handle only the cream of varieties. Mrs. Winters, Mmo. Daal, Navaio, Dalnty, Kriemhilde, etc. My Dahlias have long been celebrated as prize winners.

W. W. WILMORE
 Dahlia Specialist, Box 382, DENVER, COLO.

East Bridgewater Dahlia Gardens

Not only has the largest, but the finest collection of up-to-date DAHLIAS, of any firm in America. Send for free catalog, to the

Eastern Dahlia King, J. K. Alexander, E. Bridgewater, Mass.

IF YOU NEED

Summer-Flowering Bulbs

German or Japan Iris,

write us for prices. We have the stock and can give you satisfaction.

JOHN LEWIS CHILDS, Floral Park, N. Y.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendal, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

SAN JOSE, CAL.—The Braslan Seed Growers Company, telegraphing Wednesday, say: "Regret to report our onion crop has been destroyed, fully fifty per cent., by water; our onion crop Coyote a total failure."

LEXINGTON, KY.—Professor C. W. Matthews of the Department of Horticulture, State College, through the aid of the Civic League, will distribute 30,000 penny packages of flower seeds among the children of the cities of central and eastern Kentucky.

TOLEDO, O.—Clover seed reached its highest price in years at noon on Tuesday, the 26th ultimo, March selling for \$9.50 and April for \$8.90. October, which means the new crop, was up to \$7.10 and good buying was stimulated by had crop reports. Some scattered realizing caused a little setback towards the close, the market taking a small drop.

DENVER, COL.—A local paper announces that "if you want the largest and most brilliant blooms in endless profusion and the tallest, healthiest plant you must use sweet pea seeds that have been inoculated with nitrogen culture fertilizer. Then you will have sweet pea perfection such as you have never known before and there will neither be stunted growth nor unsatisfactory flowers; on the contrary your sweet pea bed will be riotous with color and beauty." It is further stated that "Barteldes & Co., the seed firm at 1521 Fifteenth street, prepare the seed in this way and as they must be fresh to secure the best results this firm does practically all the business in inoculated seed in Denver."

Gladioli—NOTHING BETTER ANYWHERE. Cannas—VERY BEST SORTS. THE MONEY MAKERS. Carnations—1200 sorts, finest sorts in liberal supply. Paeonias—1200 sorts, finest sorts in liberal supply.

Send for a list of our offers.
C. BETSCHER, Canal Dover, Ohio.

IMPORTS OF SEEDS, ETC.—March 20.—Thos. Cook & Sons, one case seeds; American Express Company, 21 bags seed; E. A. Griffith, one barrel roots; L. J. Griffith, one barrel roots; March 23 and 24.—J. L. Hopkins & Company, 20 bushels seed; McHutchinson & Company, six cases live plants; Andreas Olsen, 73 bags clover seed, March 25.—McHutchinson & Company, seven cases trees; Rölker & Sons, 13 bundles trees, 27 cases trees; Hussa & Company, two cases plants; Hensen, Bruckmann & Lorbach, one case live plants; Vaughan's Seed Store, one barrel bulbs; Vandegrift & Company, 9 boxes lily bulbs; Wells, Fargo & Company, 77 boxes lily buds; Perry, Ryer & Company, 16 cases trees; L. J. Spence, 11 packages plants.

March 27.—Cuban & Pan American Express Company, 72 tubs laurel trees, four cases plants; Henry Bischoff & Company, one bale live plants; H. Frank Darrow, one case live plants; J. M. Thorburn & Company, two cases seeds; Maltus & Ware, two barrels plants; M. P. Berry, 10 cases plants; H. Frank Darrow, 31 cases plants; W. Elliott & Sons, 39 cases plants; Maltus & Ware, 28 cases trunks & Company, 39 cases plants; P. Ouwerkerk, 32 cases trees; Pennsylvania Railroad Company, six bushels seed; P. R. Pierson Company, 29 cases trees; Talbot Root, 22 cases plants; A. Rölker & Sons, 20 cases plants; C. B. Richard & Company, 218 packages plants; Stump & Walter Company, one case plants; W. H. Smallwood Company, 26 bushels plants, eight cases plants; O. J. Smith, 16 cases plants; J. M. Thorburn & Company, three cases plants; Vaughan's Seed Store, 9 cases roots, 22 cases plants; C. W. Ward, six cases plants; Thomas Cook & Sons, one case seeds. March 28.—Maltus & Ware, four packages trees; A. Olsen, 31 bags clover seed.

EXPORT OF SEEDS, ETC.—March 23, shipped from New York to Aarhus, 100 bags seed, valued at \$605; to Copenhagen, two packages seed, valued at \$225; 29 packages seed, valued at \$474; to Bremen, three packages seed, valued at \$167; to Havre, 304 bags grass seed, valued at \$2214.

Week ending March 23.—Shipped from New York:

Seed.	Pkgs.	Value.
Anatto	225	\$2415
Anise	107	1093
Canary	200	1053
Caraway	150	1068
Cardamom	5	461
Castor	713	2046
Clover	2367	60023
Coriander	454	1232
Fenugreek	107	486
Grass	662	17642
Millet	855	1799
Mustard	200	1916
Poppy	761	4563
Rape	156	1158
Sugar Beet	502	3092
Other		4244

CATALOGUES RECEIVED.

H. DEN OUDEN & SON, Beskoop, Holland, Wholesale Trade List of Nursery Stock 1907-8. Particularly interesting are the lists of new Hybrid Rhododendrons and new Conifers, as well as that of new Roses. Illustrated.

EAST BRIDGEWATER DAHLIA GARDENS, J. K. Alexander, proprietor, East Bridgewater, Mass.—This catalogue, for 1907, contains thirteen pages of named dahlias under their respective classification including standard and the latest varieties, also a general list and 1907 list of gladioli. Valuable points on the growing of dahlias and other interesting information are embraced within the covers of this catalogue. Mr. Alexander was awarded the silver medal, one of the highest honors, at the World's Fair, St. Louis, 1904, for growing exhibit.

建 CLEARANCE SALE! STOCK MUST GO

TUBEROUS BEGONIAS
 Large Bulbs, 1¼ to 2 in.
 Single white, rose, yellow, copper color, bluish pink, scarlet, crimson, orange and salmon, separate or mixed, per 12, 30c.; per 100, \$2.00; per 1000, \$18.00
Double T. Begonias in separate color, white, rose, scarlet, crimson, yellow and orange salmon, per 12, 60c.; per 100, \$4.00; per 1000 \$35.00.
 Mixed, per 12, 50c.; per 100, \$3.50; per 1000, \$32.00.

LILIES

Lil. Auratum	7 x 8 in.	\$0.60	\$4.00	\$35.00
" "	8 x 9 "	.75	5.00	47.50
" "	9 x 10 "	1.00	6.50	60.00
Lil. Rubrum	7 x 8 "	.60	4.50	40.00
" "	8 x 9 "	.85	6.00	55.00
" "	9 x 11 "	1.10	7.50	
Lil. Melpomene	7 x 9 "	1.00	7.00	

GLOXINIAS
 Large Bulbs
 Inseparate colors or named, white, red, violet, purple, tigered, blue with white border, red with white border, per 12, 50c.; per 100, \$3.25; per 1000, \$30.00
Mixed Colors, per 12, 40c.; per 100, \$2.75; per 1000, \$25.00.

CALADIUM ESCULENTUM
 (Elephant's Ear)

6 x 8 inches circ	12	\$0.25	\$1.75
7 x 10 "	"	.45	3.00
9 x 12 "	"	.60	4.50
Monsters IMMENSE	1.50	10.00	

Address: **H. H. BERGER & CO.,** 47 Barclay St., New York

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A small trial order will convince you. Dutch and French bulbs, palms, azaleas, araucarias, bay trees, rhododendrons, roses, buxus, evergreens, nursery stock, etc., etc. The very best of everything.

JOHN SCHEEPERS & CO., 4 and 6 Old Slip, NEW YORK.

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ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM, BERLIN, N. Y.

JAPANESE LILIES, IRIS, PAEONIES

We have a small surplus of **LILIUM AURATUM,** 8-9 in., 120 in a case; 9-11 in., 100 in a case **IRIS KAEMPFERII,** cases of 50 strong clumps of 50 best varieties, \$6 a case. **HERBACEOUS PAEONIES,** cases of 54 strong clumps of the 12 best Japanese varieties, 7 clumps each variety, \$15.00 a case.

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PLANT CULTURE

PRICE \$1.00
 THE BEST BOOK FOR THE PLANT GROWER
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Prices Advertised in these Columns are for

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

European Notes.

The balmy Spring-like weather which has succeeded the unsettled spell referred to last week is eminently favorable to the development of the crops of florists' flower seeds, and the appearance of the houses of primulas, cinerarias and cyclamen is all we could desire. As regards the latter the only new feature of note this year is connected with the effort to develop the perfume which some affirm has been driven out of this plant in the rage for color and size. How far this is true or otherwise the writer is not at the moment prepared to say, but he well remembers how in the early sixties a fair proportion, especially of the pure whites, emitted a most delightful fragrance, which is certainly lacking now.

In connection with cinerarias the first public exhibit this year was a large batch of the so-called cactus strain from Sutton & Sons. It must be admitted that they are fantastic and early, but they are certainly as beautiful as a cartwheel consisting only of hub and spokes. Nearly all the colors commonly found in cinerarias were represented.

Primulas have already been referred to, but attention may justly be called to a magnificent new hybrid between *P. sinensis* and *P. stellata* exhibited by Cannell on March 19. The flowers were pure white, as large as many of those of the best varieties of *P. sinensis* and as perfectly formed and substantial; but the habit of the plant was that of the best *stellata* section. It has been named "Reward," and should bring a rich reward to the raiser.

The origin of *P. stellata* has been wrapped in a good deal of mystery, but there is no doubt that instead of being a distinct species it is simply a variation of the *P. sinensis*. It is a significant fact that no mention is made of it by E. H. Wilson in the account of his recent wanderings in China and Thibet, including Sinea, the home of *P. sinensis*.

The following description of the plant copied from an old, but undated book entitled "Maund's Botanic Garden" may be of interest, as it confirms the statement made above:

"Its mode of inflorescence is particularly beautiful; for out of a single umbel or head of flowers rises a distinct scape or stalk supporting a second umbel, and from this is produced a third, by which peculiarity the plant remains in bloom during the great part of the Summer."

It will easily be seen that this description better fits the *P. stellata* than *P. sinensis* as now grown, for florists have so effectually dwarfed the inflorescence that in some varieties it is quite difficult to get it to rise above the leaves; this, of course, is ugly.

There is nothing particularly new to record respecting other branches of the seed trade at the present time.

EUROPEAN SEEDS.

FLORISTS' SPRING WANTS
Cannas, Phlox, etc.

Burbank, Mlle. Barat, Robusta, large 2-eye pieces, \$1.75 per 100; \$15.00 per 1000.

Pennsylvania, the best tall, scarlet bedder, \$2.00 per 100; \$17.60 per 1000.

Musaeolia, the grandest of all ornamental, bronze-leaved bedders, growing 8 ft. high and has large, light bronze, Banana-like foliage. Extra strong pieces, \$3.00 per 100; \$25.00 per 1000.

The Express, strong, started pieces of this best, dwarf, crimson bedder; fine for immediate potting. \$5.00 per 100; \$40.00 per 1000.

HARDY PHLOX, The Queen, the best florists phlox, growing 3 ft. high and producing large, full heads of pure white flowers. Will net a large profit from first crop. Large field divisions, 75c per doz.; \$5.00 per 100.

TRITOMA, Uvaria Grandiflora, Large 1 yr., field pieces, \$5.00 per 100.

Send for Catalogue quoting numerous other desirable Phlox, Cannas, Chrysanthemums and other florists stock.

NATHAN SMITH & SON, Adrian, Mich.

HARDY PHLOX

MISS LINGARD, best white summer cut flower, R. C., \$30.00 per 1000.
CARNATION ABUNDANCE, R. C., \$40.00 per 1000; from 2 in. pots, \$60.00 per 1000.
HYDRANGEA HORTENSIS GRANDIFLORA, R. C., \$50.00 per 1000. Cash with order.

L. I. NEFF, PITTSBURG, PA.

On being asked what we do with so many CANNAS, we replied we sell what we CAN and what we CAN'T we can.

50,000 CANNAS
TRUE TO NAME

Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

RED CANN 100 10'0
Chas. Henderson, 4 ft. \$2 00 \$17 50
J. D. Elsie, 5 ft. 2 25 20 00
Explorateur Crampall, 5 1/2 ft. 2 00 17 50

PINK CANNAS
L. Patry, 4 1/2 ft. 2 00 17 50
Mrs. Washington, 3 3/4 ft. 2 00 17 50
Mlle. Barat, 4 1/2 ft. 2 25 20 00
Paul Marquart, 4 1/2 ft. 1 75 15 00

ORANGE CANNAS
Admiral Avellan, 4 1/2 ft. 1 75 15 00
Queen of Holland, 4 1/2 ft. 2 75 25 00

COLD EDGED CANNAS
Mad. Crozy, 3 1/2 ft. 2 75 25 00
Souv. de A. Crozy, 4 ft. 2 75 25 00

YELLOW CANNAS
Comte de Bonchard, 4 1/2 ft. 2 75 25 00
Florence Vaughan, 5 ft. 2 00 17 50
L. E. Bally, 4 1/2 ft. 2 00 17 50

WHITE CANNAS
Alsaca, 3 1/2 ft. 2 00 17 50
Peachblow, 2 ft. 1 75 15 00

BRONZE CANNAS
Black Beauty, 5 ft. 6 00 50 00
David Harum, 3 1/2 ft. 2 25 20 00
Egandala, 4 ft. 3 25 30 00
Grand Rouge, 8 ft. 1 75 15 00
Musaeolia, 8 ft. 2 75 25 00
Robusta, 6 to 8 ft. 1 75 15 00

ORCHID CANNAS
Allemania, 4 to 5 ft. 2 25 18 00
Kronus, 6 ft. 2 75 25 00
Mrs. Kate Gray, 6 ft. 2 75 25 00
Pennsylvania, 5 ft. 2 25 20 00
King Humbert, 4 ft. 12 \$2, 15 00

ELEPHANT EARS
(Caladium Esculentum)
All sound and with eyes. 100 1000
6-8 inches in circumference \$1 50 \$10 00
8-10 " " " 3 50 30 00
10-12 " " " 5 50 50 00
12 inches and up in circumference 10 00 90 00

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342 W. 14th St., New York.

CANNAS

Sound roots, 2 to 3 eyes, true to name 100 1000
Allemania, 4 ft., scarlet and yellow. \$1.25 \$10.00
Burbank 6 ft., yellow. 1.25 10.00
Mrs. Kate Gray, 5 1/2 ft., scarlet & gold 2.00 19.00
Black Beauty, 5 ft., red leaved. 4.00 35.00
David Harum, 3 1/2 ft., crimson flower 3.00 25.00
Egandala, 3 1/2 ft., cherry red, d'k foliage 2.50 22.00
Black Prince, 5 ft., d'k maroon, extra 2.00 19.00
Chas. Henderson, 4 ft., bright crimson 1.50 14.00
Robusta, 7 ft., bronze foliage fine. 1.25 10.00
Martha Washington, 2 1/2 ft., rosy pink 1.50 14.00
Florence Vaughan, 4 1/2 ft., yellow. 1.50 14.00
red spotted. 5c 50c
J. D. Elsie, 5 ft., crim. yellow throat 2.00 19.00
Wm. Hoffinger, 5 ft., scarlet, yellow mark. 1.50 14.00
Plemon's Premier, 2 1/2 ft., crimson, yellow edged. 2.50 22.50
Queen Charlotte, 3 1/2 ft., scarlet, yellow edged. 2.50 22.50
West Virginia, 4 ft., crim. yellow edged. 2.50 22.50
All kinds mixed, dwarf or high. 1.00 7.50
Dahlia, leading kinds named. 3.00 33.00
Caladium, 8-8 in. circumference. 1.50 10.00
Caladium, 9-10 in. circumference. 3.50 30.00
Tuberose, Double Pearl, 4-8 in. 1.10 9.00
Tuberose, Double Pearl, 2-4 in. .80 4.00

For all other kinds of Cannas, Dahlias, etc., ask for our price list which we send free.

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VEGETABLE PLANTS
LETTUCE, Grand Rapids, Big Boston. 100 1000
Boston Market and Tennis Ball. \$0.20 \$1.00
PARSLEY, Moss curled. .25 1.25
BEETS, Eolipse. .25 1.25
CELERY, White Plum, White Solid, and Celeric, Giant Plague. .20 1.25
EGG PLANTS, N. Y. Improved, small for transplanting. .25 2.00
PEPPER, Bull Nose and Sweet Mountain. .25 2.00
TOMATO, Earliana, Early Jewel, Lorrillard and Mayflower. .30 2.00
Stone, Perfection and other late kinds. .20 1.00
CABBAGE, Ready May 10th. Standard sort in any variety. 1.00 1.00
R. VINCENT, JR. & SON, White Marsh, Md.

CANNAS

CRIMSON BEDDER a Superb CANNA, very handsome for bedding. Large sound roots, \$1.00 per 100. Started plants, \$2.00 per 100, cash.
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Summer Flowering Bulbs

TUBEROUS ROOTED BONGONIAS

Single Large Flowering Separate colors, fine bulbs—	Double Large Flowering Separate colors, fine bulbs—
Per doz. \$ 0 35	Per doz. \$ 0 55
Per 100 2 25	Per 100 4 00
Per 1000 22 00	Per 1000 37 00

JAPANESE LILIES

Auratum, 8 to 9 in. Per doz. 100 \$0 70 \$1 50	Each Doz. 100 \$0 20 \$1 75 \$12 00
Album, 8 to 9 in. 1 00 7 00	7 to 9 in. 0 30 2 75 17 00
Brubrum, 8 to 9 in. 0 75 5 50	
Melpomene, 8 to 9 in. 0 75 5 00	

Pink, Red, White and Mixed—Per doz., \$1.25; per 100, \$3.00.

NEW CROP ASPARAGUS PLUMOSUS NANUS. Fine new crop, sure to germinate. Extra Quality. Per 100, 50c.; per 1000, \$3.50; per 5000, \$15.00

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Let me book your order now. Write me for special advance prices.

Stokes Seed Store

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SHRUBS, ROSES AND HERBACEOUS PERENNIALS

Berberis Thunbergii, 12-18 in., \$4.00 per 100; 18-24 in., \$6.00 per 100; 2 ft., bushy, \$10.00 per 100; 3-4 ft. 6.00	Rosa lucida alba, 18-24 in. \$12.00 per 100; 4-5 ft. \$8.00 per 100; 3-4 ft. 3.00
Cornus sericea, 2-3 ft., \$5.00 per 100; 3-4 ft. 6.00	Spiraea arguta, 2-3 ft., \$6.00 per 100; 3-4 ft. 3.00
Cornus Sibirica, 2-3 ft., \$6.00 per 100; 3-4 ft. 8.00	Spiraea Douglasii, 2-3 ft., \$6.00 per 100; 3-4 ft. 3.00
Cornus stolonifera, 2-3 ft., \$8.00 per 100; 3-4 ft. 10.00	Symphoricarpos vulgaris, 2-3 ft., \$5.00 per 100; 3-4 ft. 7.00
Privet Ithota, 2-2 1/2 ft., \$6.00 per 100; 2 1/2-3 ft. 8.00	Viburnum lentago, 3-4 ft. 15.00
Rosa blanda, 2-3 ft., 10.00	Calceatrus acandens, 3-4 ft. 5.00

FIELD GROWN PERENNIALS

Hardy Asters, 25 named varieties. \$5.00	Lilium rubrum, large. \$8.00
Boltonias, in variety 5.00	Lilium candidum, large 7.00
Ceroeopsis, in variety 5.00	Phlox amoena 6.00
Delphinium hybridum, 6.00	Phlox decussata, best named varieties 8.00
Enkialta gracillima 3.00	Phlox subulata, pink or white 6.00
Funkia lanceolata 3.00	Paenonia, strong roots, named varieties 16.00
Gaillardia grandiflora 5.00	Pyrethrum, double named varieties 15.00
Hollyhocks, single mixed 5.00	Spiraea palmata elegans 5.00
Hollyhocks Allegheny 6.00	Spiraea palmata alba 5.00
Kallantaha, in variety 5.00	Spiraea Venusta 3.00
Hamorcallia Sibaldii 5.00	Vinca minor, strong plants \$30.00 per 1000
Iris Kaempferii, named varieties 6.00	Yucca filamentosa, 3 yrs. 4.00
Iris Germanica, in variety 6.00	
Iris Sibirica alba 6.00	
Iris Sibirica 5.00	
Lilium auratum, large 8.00	
Lilium album, large 8.00	

We grow about 1000 varieties of Herbaceous Perennials.

CANNAS

Started plants, ready April 15, 75c. per 10, \$5.00 per 100. Large, dry bulbs \$2.00 per 100; \$15.00 per 1000.

Anatria, 6 ft. Mad. Crozy, 3 1/2 ft.
Beants Poltevine, 4 ft. Pink Beauty, 4 ft.
Black Beauty, 5 ft. Prae. McKinlay, 3 ft.
Florence Vaughan, 3 1/2 ft. Queen Charlotte, 4 ft.
Italla, 3 ft. Robusta, 6 ft.

Estimates cheerfully given. Catalogues free.

NEW ENGLAND NURSERIES, Bedford, Mass.

Roses! Cannas! Violets!

Roses. We have in stock upward of 1000 different varieties, consisting of the very latest European varieties, as well as all the leading varieties of American origin. Stock from 2 1/2 and 4 and 5 in. pots, all our own roots. Ask for catalogue.

Cannas. 40 leading varieties. \$10.00 per 1000 and upward. Write for list and prices. Louisiana Canna \$5.00 per 100.

Violets. Wales, Swanley White, Admiral Avellan and Luxonne, nice strong plants, from 2 1/2 in. pots, \$3.50 per 100; \$30.00 per 1000.

Clematis Paniculata, two-year-old field-grown stock, strong plants, per 100 \$7.00, per 1000, \$55.00.

Cissus Discolor, nice plants, from 2 1/2 inch pots, per 100, \$4.00.

Cyperus Gracilis, from 2 1/2 in. pots, per 100 \$3.50.

Weeping Lantana, from 2 1/2 inch pots, per 100, \$3.50.

Viburnum Plicatum and a complete list of hardy shrubs, vines and miscellaneous plants of all kinds. Send us your list for prices. Ask for Catalogue—it's free. Address

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will write at once for our catalog of Roses, Shrubs and all kinds of plants for Florists' use. Write today, it's free. We have one order for this Spring's shipment of five hundred and eighty-five thousand Rose plants, and we can still fill your orders.

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2-8 Duane Street, New York.

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

Prices Advertised in these Columns are for



(72) **Asparagus plumosus.** — I want to grow a few hundred strings of *Asparagus plumosus* to be ready to cut early next Fall. Can I obtain these by using strong rooted seedlings at this time or will I have to use stronger plants? How far apart shall I plant them and how many crops can I cut in a year? The house is from 10 to 12 feet high. H. H. Conn.

—If strings of asparagus are required it would be best to plant two-year-old plants, spacing them 12 inches apart in the rows and 15 inches between the rows. Unlike the smilax, asparagus does not come in crops; two or three strings can be run up from the same root, and thus several strings can be cut in a season, depending altogether on the length the strings are allowed to grow.

(73) **A Seedling Carnation.** — I send you to-day, by mail, a carnation seedling; color, blue and pink. Kindly tell me if it is worth while to propagate the same. F. E. Mass.

—The carnation is not very desirable in its coloring, and we do not think it would be worth while to grow it for commercial purposes.

(74) **The Grape Fruit.** — Will you kindly advise me as to what class of plants the grape fruit belongs, native country, how it grows and when it was introduced into this country. P. B. New York.

—The grape fruit belongs to the citrus family, its proper name being *Citrus Decumana*. It is also known as Shaddock and pomelo. It comes from Malacca, but just when it was introduced into the United States we are unable to say.

(75) **Portable Cement Benches.** — I should like very much to see an article on portable cement benches with full directions for making same. Having a small plant only, it would not be wise to have a construction company do the work for me. Briefly this is my plan, and I would like some suggestions for or against it:

Make a mold of wood L shape 8 inches long, 3 inches wide, 1 1/2 inches thick except at the corner which would be a little more. These for side of benches. For the bottom, slabs 1 foot wide 1 1/2 thick with 2-inch mesh chicken wire for re-enforcement. Will the spacing of the slabs give sufficient drainage? The weight of the soil in the benches will keep the sides in place? Some benches will be 3 feet wide others 5 feet; the 5-foot bench would need a support running lengthwise of the center. How near must the supports for sides be? I propose to make columns of cement. M. E. A. Conn.

—Perhaps some reader who has constructed cement benches could give some idea as to what method would be best to adopt. There is a firm advertising cement block machinery, however—the Ideal Concrete Machinery Company, South Bend, Ind. We think an inquiry addressed to that firm would result in some useful information.

VEGETABLE PLANTS

CABBAGE, Earliest, \$1.50 per 1000.
LETTUCE, Grand Rapids, Black Seeded Simpson and Boston Market, \$1.00 per 1000.

TOMATOES, all good kinds, \$1.50 per 1000.

ASTER PLANTS.

McKEESPORT FLORAL CO.
McKEESPORT, PA.

Commercial Violet Culture

PRICE, \$1.50
The FLORISTS' EXCHANGE, 2-8 Duane St., New York.

VICK'S ASTER SEED

The Standard of Excellence

We have introduced more up-to-date Florists' varieties than all other American Seedsmen combined

Vick Quality ASTERS

Introduced by us grown everywhere

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- Vick's Snowdrift
- Vick's Lavender Gem
- Vick's Daybreak
- Vick's Parity
- Vick's Mikado
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We can fill most any variety or size. Retail only.

50,000 Sugar Maple Seedlings

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Immense quantities, low prices. Price list on application. Peonies a specialty.

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CANNAS, started, at \$3.00 per 100,

as follows: Austria, F. Vaughan, Italia, Kate Gray, Allemania, West Virginia, Pennsylvania, Shenandoah, Mile. Beraf, Chas. Henderson, later on these varieties, 3 in. pots, at \$4.00; 4 in. pots, at \$6.00 per 100.

CARNATIONS,

2½ in. pots, Enchantress, White Lawson, Candace, at \$4.00 per 100. Mrs. Thos. Lawson, The Queen, Boston Market, Queen Louise, Gov. Wolcott, Prosperity, Richmond Gem, Fair Maid, Crane, Moonlight, Mrs. Patten, Harlowarden, at \$3.00 per 100.

The National Plant Company, DAYTON, O.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
Orlando Harrison, Berlin, Md., president; J. W. Hill,
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Rochester, N. Y., secretary; C. L. Yates, Rochester,
N. Y., treasurer.

SIoux FALLS, S. D.—Many of the nurserymen of the State are bitterly complaining of the provisions of a new law enacted by the recent legislature which relates to the carrying on of a nursery business in the State. Among other things the new law provides that every company, individual or firm carrying on a nursery business in South Dakota must file a bond of \$5,000, and that the head or proprietor of each nursery concern must pay a license of \$10, with a small fee for each agent. The chief objection to the bill is to that clause which provides that when a contract is taken it must be specified in black and white just where each tree, shrub, plant or vine ordered is grown. The nurserymen declare that it is utterly impossible to fill this requirement. It is charged by some of the nurserymen that the bill was passed in the interest of nurseries located in other States which do business in South Dakota by means of catalogues, and which, because they do not sell "by agent," are not affected by the new law.

Seasonable Notes.

When pines, firs and similar evergreens are required of a bushy nature rather than to be tall the leader should be cut out. The side branches make faster growth then, as a new leader does not form at once.

In a private letter a correspondent asks if the common sweet chestnut needs fertilizing by the flowers of another tree, as a tree standing by itself on his lawn never bears chestnuts, though flowering freely. It must be a case of the male flowers opening before the female, or vice versa, as there are numerous instances where this tree growing alone bears good crops of chestnuts.

Rhus aromatica does not make a great showing with its flowers, but they come very early in Spring; and then it soon displays its red berries, rendering it altogether a valuable shrub. It is good for planting on banks, its underground shoots binding the soil.

It is well understood that the Tom Thumb Arbor vitae, *Retinispora squarrosa*, and other like evergreens are but juvenile or seedling forms of something else. Tom Thumb Arbor vitae belongs to *Thuja occidentalis* and *Retinispora squarrosa* to *R. pisifera*. It is quite common for *squarrosa* to send out branches of true *pisifera* at times, but Tom Thumb Arbor vitae is not so apt to change its form.

By encouraging the perennial grasses to make a strong growth by applying guano or other stimulants it helps to keep down the Fall grass, an annual very troublesome on many lawns.

The beautiful Oregon maple, *Acer macrophyllum*, is quite hardy in the vicinity of Philadelphia. In its first few years of seedling life it is sometimes slightly hurt in Winter, but never after it has shoots that have passed through three or four years. There are large trees of it here and not a twig of them is ever injured.

A creeping plant well known to gardeners is the North China saxifrage, *Saxifraga sarmentosa*. It is not generally known that it is hardy, and that for rock-work and similar uses it is available. If a few falling leaves cover the plants in the Fall it is an advantage—as it is to every plant in Winter.

For grouping as well as for single specimens the two *rhus*—*R. typhina* and *R. glabra*—are desirable. Their large heads of scarlet seeds ornament them in Winter, long after their crimson hued foliage has fallen. In Virginia years ago, the leaves of these two plants were of commercial value for tanning purposes, as they may be yet.

A writer from the South says the Carolina jasmine, *Gelsemium*, does not flower while young, which may be true of wild plants, but small two-year-old plants in pots will bloom profusely in a greenhouse in Winter. The confinement of the roots causes them to flower, as it will any other plant. The double flowered Carolina jasmine is good and the flowers are more lasting than those of the single one.

Catalpa Bignonioides.

Of late years writers on trees have referred nearly altogether to *Catalpa speciosa* in their notes on this genus. This is because of the great demand that has sprung up for timber trees, and because of the great value of *C. speciosa* for this purpose. But we desire to bring before our readers the fact of the great beauty of the *C. bignonioides* as a lawn tree, without a thought particularly of its value for timber.

The *Catalpa bignonioides* is known as the Eastern catalpa in opposition to the other one, which inhabits

the West. It is really a Southern tree, but for years it has been creeping North, getting advanced further and further in this direction yearly. It is abundant along many rivers and creeks in Eastern Pennsylvania. Its increase is usually along low ground near water, a situation it evidently prefers. Along the Pennypack Creek, near Philadelphia, there are so many of these catalpas and they so embower the water in places that many persons make a point of visiting them when in flower to enjoy their beauty.

It does not follow that the tree will not flourish elsewhere than in low ground. The beautiful specimen of our illustration tells a different tale, for it is growing at Belmont, the highest point of the older part of the city of Philadelphia. This tree was caught in its height of flowering, and forms a lovely picture. It is impossible to say at this day whether it represents one tree chopped off at the ground level at some early date, or whether three seedlings sprang up close together. The catalpa is known to make grotesque shapes, and it may be but one tree.

In our opinion this species of catalpa is a much more desirable flowering tree than *C. speciosa*. It makes naturally a spreading tree such as the one illustrated shows, and such a tree displays its flowers to much better advantage than the erect growing *C. speciosa*, the flowers of which are high over head. Let those

Yellow Pine.

Nurserymen frequently have orders for yellow pine, and they are often at a loss to know just which pine is wanted. Under this name three species are known. In the South it is *Pinus palustris*, in the cooler parts of the South, *P. mitis* (*echinata*), and in the North, *P. rigida*. *Pinus mitis* extends north to some degree. It can be found in New Jersey in several locations, and our Northern one, *P. rigida*, goes South a short way in the same manner. *P. palustris*, when got from its Northern limits in a wild state, North Carolina, has endured some hard Winters in Philadelphia, apparently unharmed, but all of them died ultimately, turning yellow, evidently not liking the heavy soil. Were trees to be had and planted in sandy soil it is more than probable the result would be satisfactory.

The *P. palustris* is such a beautiful pine because of its long needles that its branches are sold at Christmas to great advantage. Would not our florists find a good sale for small pot-grown plants of it for the same occasion? Plants of from two to three feet high would surely sell well.

Magnolias in Nursery Rows.

Nurserymen know that Spring is the season to plant magnolias; they know also that these trees require great care in digging and planting. Unless of quite small



Catalpa Bignonioides

who want timber trees plant *C. speciosa*, but for lovely display of flowers set out *C. bignonioides*.

There are not as many *Catalpa bignonioides* planted on lawns as there should be. Nurseries have more of the *C. speciosa* because sales called for them for forest planting. Those having the sale of trees would do well to remind customers of the beauty of the *C. bignonioides* as a lawn tree, showing them our illustration to prove their words.

Chinese Cork Tree.

A valuable cork-barked tree is becoming slowly disseminated, the *Phelodendron amurense*. There are two trees in cultivation under this name; one, however, is known as variety *Regeliana*, and this is the corky-barked one. The other has no semblance whatever to corkiness of the bark. The cork-barked one is a tree of great beauty. Its corkiness is more pronounced than that of any other corky-barked tree in general cultivation. Besides this, its foliage changes to a handsome yellow color in the early days of Fall, usually before that of any other tree. It is a great acquisition, and it is to be hoped our nurserymen will soon have a good stock of it to offer. No doubt Japanese nurserymen could supply small trees of it, and perhaps seed; but it must not be forgotten to mention that the corky one is the one desired. The tree seems perfectly hardy in Pennsylvania as it will doubtless prove to be much farther north than this.

size many of the trees are lost in transplanting when set out without much pruning. Tulip trees are closely allied to magnolias and may be considered in just the same way.

It is claimed by some planters that when a magnolia is pruned at planting it rarely breaks afresh in a satisfactory way. One pruned back branch may push afresh, another may not, the result being an ill-formed tree. This is true, to some extent. A better way, it is thought, is to prune by thinning out the branches, say, by cutting out entirely every other one, not touching the remainder at all. This, of course, is the equivalent of cutting back half way all the branches. When planting in nursery rows and not on a customer's lawn the very best way of all is to cut the magnolias right down to the ground. This is drastic treatment, but it is the right kind to give them. If but small plants, and such as have been recently transplanted, there may be no need of such treatment, but in all other cases—and even in these, many think—it would be better to cut them down to within four inches of the ground. In this way everyone will live. A six-foot tree so treated may make but six inches to a foot of growth the first season. This is better than a dead tree, and the following year it will make additional growth of perhaps three feet, and, really, in the end but little will be lost in height, even had it grown well without having been cut back at all.

JOSEPH MEEHAN.

THE FLORISTS' EXCHANGE

Dreer's Roses for Out-Door Planting

The best stock procurable to sell to your retail customers

WE make a specialty of this class of stock. All the plants are field grown plants which during the winter months have been potted up into 5 and 6 inch pots; they were stored in cold houses and are now breaking into growth freely and are in prime condition to sell to your retail customers for out-door planting. This stock must not be confounded with cheap Holland grown plants, all being either home grown or imported from England, Ireland or Germany.

Hybrid Perpetual, Moss and other Hardy Roses

Strong two-year-old plants, nearly all in 6-inch pots

Alfred Colomb	doz	100	\$3.00	\$25.00
Anna de Diesbach	doz		3.00	25.00
Alfred K. Williams	doz		3.00	25.00
Abel Carrere	doz		3.00	25.00
American Beauty	doz		3.00	26.00
Arda Rover	doz		3.00	25.00
Boule de Neige	doz		3.00	25.00
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Eclair	doz		3.00	25.00
Etiene Levet	doz		3.00	25.00
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Gloire de Margottin	doz		3.00	25.00
Gloire de Lyonnaise	doz		3.00	25.00
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Jules Margottin	doz		3.00	25.00
Jeanne Dickson	doz		3.00	25.00
Lila Van Honte	doz		3.00	25.00
Magna Charta	doz		2.50	20.00
Margaret Dickson	doz		3.00	26.00
Mrs. R. G. Sharman Crawford	doz		3.00	26.00
Mrs. John Laing	doz		3.00	25.00
Maikel Harrison	doz		3.00	25.00
Mme. Charles Wood	doz		3.00	25.00
Mme. Plantier	doz		2.50	20.00
Mme. Victor Verdier	doz		3.00	25.00
Mme. Gabrielle Luizet	doz		3.00	25.00
Marchioness of Downshire	doz		3.00	25.00
Marchioness of Dufferin	doz		3.00	25.00
Marchioness of Lorne	doz		3.00	25.00
Merveille de Lyon	doz		3.00	25.00
Mrs. Baummann	doz		3.00	25.00
Paul Neyron	doz		3.00	25.00

For a complete list of seasonable stock see our current Quarterly Wholesale List—Specialties, Hardy Perennial Plants, Water Lilies, Nelumbiums and other Aquatics, Decorative Plants, Palms, Ferns, etc., Dahlias and other summer flowering Bulbs.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Penna.

GRAFTED ROSES

On Best English Manetti Stock

2 1/2 inch pots; A No. 1 Stock

KAISERIN, KILLARNEY, RICHMOND, \$10.00 per 100.

BOSTON FERNS, pot grown, strong plants, 5 in., 25c.; 6 in., 35c.

SCOTTII, 5 in., 25c.; 6 in., 35c.; 7 in., 45c.

ELEGANTISSIMA, 5 in., 35c.; 6 in., 50c.

S. J. REUTER WESTERLY, R. I.

Beautiful New Pink Rose

"Aurora"

PAUL NIEHOFF, Leighton, Pa.

ROSES ON OWN ROOTS

2 YEARS.

Crimson Ramblers, extra strong, at \$7.00 per 100.

Dorothy Perkins, Pink, White and Yellow Ramblers, etc., at \$5.00 per 100.

H. P. Roses and Baby Ramblers, at \$8.00 per 100.

GILBERT COSTICH, ROCHESTER, N. Y.

GRAFTED ROSES

MONEY MAKERS FOR COMMERCIAL GROWERS

Our list includes only the most profitable commercial varieties for forcing—no "has-beens" nor "freaks." (Consult the flower market reports and see what the sellers are.)

From 2 1/2 inch pots, \$10.00 per 100.

Richmond, Chatenay, Bride, 'Maid, Uncle John, Golden Gate, Killarney, Wellesley, Kaiserin, Carnot, Ivory, Moulton.

These are the market's top-notchers. Our plants are grafted on the best selected English Manetti stocks, and we are booking orders now for early delivery or when wanted. The 1907 NOVELTIES.—Lady Gay, Minnehaha and Hwatha can be had in strong stock; descriptions and prices on request.

SPECIAL.—American Beauty, 2 years, dormant, (held-grown) budded, fine plants for forcing, at \$12.00 per 100.

CELLAR-STORED SHRUBS, VINES, ETC., in full assortment, ready for immediate shipment. Send for complete price list.

JACKSON & PERKINS CO., - - - Newark, New York Nurserymen and Florists. Wholesale Only.

GRAFTED ROSES

Our roses are the finest and best grown. Liberty, Richmond, La France, Killarney, rose pots, \$15.00 per 100. 3 1/2 inch pots, \$18.00 per 100. Bride, Bridesmaid, Golden Gate, Kaiserin, rose pots, \$10.00 per 100. 3 1/2 inch pots, \$15.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

SPORT OF CHATENAY

As free as CHATENAY, color of BON SILBIE; 2 1/2 in. pots, \$25.00 per 100; \$150.00 per 1000.

EMIL GLAUBER, - - - Montclair, Colo.



Frau Karl Druschki

Safrano	In. pots	doz.	10'
...	...	2.50	20.00
...	...	3.00	25.00
...	...	3.00	25.00

Rambler, Climbing and Trailing Roses

All strong 2-year-old field grown plants potted up into 5 and mostly 6-inch pots

Baltimore Belle	doz.	100
Climbing Clothilde Soupert		2.60 20.00
Crimson Rambler		3.00 25.00
Dorothy Perkins		2.50 20.00
Gloire de Dijon		3.00 25.00
Marechal Niel		3.50 25.00
Philadelphica Rambler		2.50 20.00
Prairie Queen		2.50 20.00
Persian Yellow		3.00 25.00
Reine Marie Henrietta		3.00 25.00
Setigera		2.00 15.00
Sweet Brier		3.00 25.00
Sweet Brier Lord Penzance		3.00 25.00
Sweet Brier Lady Penzance		3.00 25.00
Sweet Brier Meg. Merrilies		3.00 25.00
Sweet Brier Anne of Gerstein		3.00 25.00
Sweet Brier Brenda		3.00 25.00
Trier		3.50 25.00
William Allen Richardson		3.50 25.00
White Rambler		2.60 20.00
Wichuraiana		2.00 15.00
Wichuraiana Pink Roamer		2.50 20.00
Wichuraiana South Orange		2.50 20.00
Perfection		2.50 20.00
Wichuraiana Triumph		2.60 20.00
Wichuraiana Universal Favorite		2.60 20.00
Yellow Rambler		2.50 20.00

Omaha, Neb.

Newa Notes.

The past few days have turned most unusually warm, not in fact, the thermometer has gone up to 85 and over—the warmest in thirty years. This weather was entirely unlooked for, and much more Easter stock will be in than was expected; some will also suffer as a consequence.

The early Easter, coupled with diseased bulbs, will make lilies scarce. Not only are lilies scarce, but also carnations; hardly a grower in this vicinity has cut what would be a fair average.

Bulbous stock will be in great supply. Owing to the heat wave, violets will fall off greatly, and perhaps cut off the supply entirely.

Alfred Donaghue will discontinue his Sixteenth street store after April 1, moving his interests to the Farnam street shop, where Mrs. K. Donaghue is in charge.

L. Henderson has made great preparations for a large trade. He will erect two rose houses, 25x150 feet each as soon as the season will permit. Mr. Henderson is making things ready for a great "blowout." The Florists' Club to be the willing victims.

A recent visit to Paul Floth's plant, revealed everything in fine shape, from Spring bedding stock to the finest lilies in the city. These latter were the Lilium giganteum, and Mr. Floth thinks they pay much better than Harrisii or longiflorum. He will build this Spring, but has not decided as to size.

Herman Brothers of Council Bluffs, a new firm, are sending in some fine Mrs. Lawson carnations in several colors.

The new location of J. H. Bath has proven very satisfactory.

WATERVILLE, ME.—Mitchell & Company, the well known florists, held an anniversary of the opening of their store at 144 Main street on March 27, from 1 to 5 p. m. They kept open house during the hours named, and to each lady calling they presented souvenirs in the form of a small palm or croton, and a small tasty folder containing two pictures of their greenhouses; and general information regarding the extent of their florist's business. The store was crowded with ladies all the afternoon, and hundreds of the souvenirs were given away. The firm has 27,000 square feet of glass, one of the carnation houses being 40 by 200 feet.

SYRACUSE, N. Y.—H. Youell has resigned his position with C. W. Crouch, Knoxville, Tenn., and is back in this city.

NORFOLK, VA.—B. D. Blick, father of Lloyd Blick, florist, died on March 25, aged 73 years.

ROSES

Guaranteed Strong, Healthy Stock 2 1/2 in. pots.

Richmond, \$5.00 per 100, \$40.00 per 1000.

Golden Gate, lvy y, Bridesmaid, \$3.00 per 100, \$25.00 per 1000.

WEST VIEW GREENHOUSES, Madison, N. J.

GRAFTED ROSES

Brides and Bridesmaids.

EDW. J. TAYLOR Southport, Conn.

KAISERIN ROSES

2 1/2 in. pots \$3.50 per 100; \$30.00 per 1000.

Variiegated Lawson, \$2.50 per 100.

Mrs. Lawson, \$1.50 per 100.

E. H. PYE, Upper Nyack, N. Y.

ROSES READY FOR SHIPMENT

Strong, well rooted stock—Cash with order

	Per 100	Per 100	Per 1000
American Beauty	\$27.50	\$7.00	\$65.00
Blohmund	30.00	5.00	49.00
Bride	17.50	3.00	25.00
Bridesmaid	17.50	3.00	25.00

ALFRED P. SMITH Madison, N. J.

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Hardy Roses for Decoration Day

HARDY H. P. ROSES
We offer exceptionally strong two-year-old dormant, low-budded stock (on Manetti), to the following varieties:
Alfred Colomb, carmine.
Anna de Diesbach, bright carmine.
Ball of Snow, pure white.
Baron de Bonstetten, dark crimson sbudcd.
Baroness Rothschild, satiny pink; extra.
Captain Christy, delicate flesh color.
Duke of Edinburgh, bright vermillion; very fine.
Fisher Holmes, dark rich scarlet.
Frau Karl Druschki, the finest white in existence, \$12.00 per 100.
General Jacqueminot, rich velvety crimson.
General Washington, beautiful red, shaded carmine.
John Hopper, beautiful rose pink.
La France, the finest light pink.
Margaret Dickson, white, pale flesh center.
Margia Charta, clear rose pink.
Mme. Gabriel Luizet, light, satiny pink.
Mme. Plantier, white.
Mrs. John Laing, soft pink; most desirable variety.
Paul Naylor, beautiful dark pink.
Princess Camille de Rohan, velvety crimson.
Ulrich Brunner, cherry red.
Prionsa on H. P. Roses \$1.25 per 10; \$11.00 per 100; \$100.00 per 1000.

HYBRID TEA AND OTHER ROSES OF RECENT INTRODUCTION
(Strong 2-Year-Old Plants.)
Bessie Brown. Creamy white, \$1.50 per 10; \$12.00 per 100.
The great new red rose, and distinct from Liberty in color. No Rose in commerce can compare with Grues on Teplitz as a leader, \$1.50 per 10; \$12.00 per 100.
Konigia Knorla (Improved Teestout). Magnificent, \$1.50 per 10; \$12.00 per 100.
Mrs. Sharman Crawford. Deep rosy pink, the outer petals shaded with pale flesh-color, white at base of petals, and distinct from all other Hybrid Perpetual Roses, \$1.50 per 10; \$12.00 per 100.
Perle de Rouges. A polyantha variety of unusual merit. Color velvety crimson, with reflex of petals bright cerise, \$1.50 per 10; \$12.00 per 100.
ENGLISH MOSS ROSES
Assorted White, Pink, Red, large dormant plants, from open ground, \$1.50 per 10; \$12.00 per 100.
THE TREE BABY RAMBLER (Mad. Norbert Levavasseur)
CROWN AS A STANDARD
The popularity of the Baby Rambler has suggested the growing of it as a tree or standard. The variety is too well known for description; enough to say, it retains all its characteristics of free-blooming qualities, etc., 60c. each; \$5.00 per doz.
THE BABY RAMBLER
Mme. Norbert Levavasseur. Strong field-grown plants, \$1.75 per 10; \$15.00 per 100.
CRIMSON RAMBLER
Large heavy plants, two years old, 3 to 6 feet, \$1.75 per 10; \$15.00 per 100. 4 to 5 feet, \$2.00 per 10; \$18.00 per 100.
DOROTHY PERKINS
Resembles the Crimson Rambler, except in color, which is a lovely shell-pink, holding a long time without fading. \$1.75 per 10; \$16.00 per 100.
The Sensational New Rambler Rose LADY GAY
"A seedling from the popular Crimson Rambler, which it resembles in habit and general effect. The flowers are of a delicate cherry-pink color, which fades to soft white." Strong plants, field-grown, \$3.50 per 10; \$30.00 per 100.
OTHER CLIMBING ROSES OF MERIT
Paul's Carmine Pillar. One of the most attractive Climbing Roses. Two-year-old, field-grown, \$1.75 per 10; \$15.00 per 100.
Marchal Niel. Color bright rich golden yellow, field-grown, \$1.75 per 10; \$15.00 per 100.
Gloire de Dijon. Color buff, orange center, very sweet-scented, field-grown, \$1.75 per 10; \$15.00 per 100.

HYBRID TEA ROSES
Maman Cochet, pink. Maman Cochet, white. Unequaled as hedgers for Summer blooming, producing buds of large size and of ideal form. The buds are of the color and form of Bridesmaid and Bride, but larger, and outside will yield more blooms than the latter, will under glass. The two finest outdoor Roses yet introduced. Strong 2-year-old plants, 10 for \$1.50; \$12.00 per 100.
American Beauty, Clothilde Soupert, Kaiserin Augusta Victoria, Caroline Testout, Hermosa. Strong, 2-year-old, \$1.50 per 10; \$12.00 per 100.

THE KILLARNEY ROSE
Irish Crown From the Raiser.
Good strong two-year-old plants, \$3.00 per 10; \$27.50 per 100.

HARDY ROSE SOLEIL D'OR (Golden Sun.)
Like Persian Yellow, this variety is perfectly hardy, with large, full, globular flowers, varying in color from gold and orange to reddish gold, shaded with nasturtium-red. Two-year-old, budded plants, per 10, \$2.00; per 100, \$15.00.

The Grand New Rose ETOILE DE FRANCE
Superb crimson red velvet, the center of the bloom vivid cerise red. The flowers are very fragrant and last long. This new variety is the result of a cross between Madame Abel Chatenay and Fisher Holmes. Field-grown, strong two-year-old plants, \$2.75 per 10; \$25.00 per 100.

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AMPELOPSIS and other Climbers

AMPELOPSIS
Ampelopsis Veitchii (Boston Ivy), extra strong imported vines, three-year-old, \$2.00 per doz.; \$15.00 per 100.
Ampelopsis murilis, more rapid grower than the foregoing, larger foliage, \$3.00 per doz.; \$20.00 per 100.
Quinquefolia (American Ivy or Virginia Creeper). Good for covering walls, verandas or trunks of trees; affords shade quickly, 25c. each; \$2.50 per doz.; \$18.00 per 100.
CLEMATIS
Henryi, pure white; extra large.
Jackmanii, purple.
Alba, white.
Sieboldii, lavender.
Ville de Lyon. The finest of all reds; flowers brilliant carmine red. It is equally as good as Mme. Edouard Andre, but contrary to this one, is a very free-growing variety.
All the above Clematis in extra strong plants, \$3.00 per doz.; \$20.00 per 100.
Clematis paniculata, strong 2-year-old plants, \$1.25 per doz.; \$12.00 per 100.

ARISTOLOCHIA SIPHO
Dutchman's Pipe, strong field-grown, \$2.50 per doz.
WISTERIA SINENSIS
Extra strong field-grown plants.
Blue, \$3.50 per doz.; \$25.00 per 100.
White, \$5.00 per doz.; \$40.00 per 100.
HONEYSUCKLE
Extra strong field-grown plants, 5 feet long, many branches.
Coccineum, Scarlet.
Hulliana, Yellow.
Perlyzium White.
Serotinum Belgica (Monthly Dutch). Red.
\$2.00 per doz.; \$22.50 per 100.
HYDRANGEA PANICULATA GRANDIFLORA
Two-year-old, 3 to 4 branches, bushy, \$1.60 per doz.; \$10.00 per 100.

ARTHUR T. BODDINGTON, 342 WEST 14th ST. NEW YORK CITY

FIRES.
THOMPSONVILLE, CONN.—A small blaze in the greenhouse of D. William Brainard on March 25 was extinguished before much harm was done.
DETROIT, MICH.—On the night of Friday, March 22, fire did considerable damage in the flower store of Simon Lachman, 16 Wilcox street. The origin of the fire is unknown.
LAWRENCE, K. A. N.—Considerable damage was done by fire to the Heshon greenhouse and its contents on Saturday,

March 23, caused by the burning of tobacco stems.
IRVINGTON, N. J.—A fire started in the boiler room of the greenhouses owned by Herman Hoffman at 9:30 o'clock Saturday night, March 30, and did about \$100 damage before the owner could extinguish it.
SOUTH ORANGE, N. J.—The village fire department was called out Saturday last and again on the day following to extinguish blazes in the Manda Nurseries, caused, it is thought, by sparks from a passing locomotive on the Lackawanna Railroad.
KALAMAZOO, MICH.—The death and burial, on March 29, of Richard Van Bochove is reported in the local papers. The deceased is the father of the well-known florists of this city. He was a successful and most highly respected business man of Kalamazoo, having recently retired from the lumber business which he had conducted for thirty years. He died at the advanced age of 89 years. S. B.

WELL ROOTED HEALTHY STOCK

CARNATIONS

Well Rooted Cuttings

PINK	Per 100	Per 1000
Lawson.....	\$1.50	\$10.00
Nelson.....	1.50	10.00
Nelson Fisher (gerise).....	2.50	25.50
LIGHT PINK		
Enchantress.....	2.50	25.50
VARIEGATED		
Mrs. Patten.....	2.50	25.50
WHITE		
Boston Market.....	1.25	10.00
White Lawson.....	3.00	25.00
RED		
Robert Oralg.....	6.00	60.00
Cardinal.....	2.60	20.00
Estelle.....	2.00	17.50

ROSES

Strong and Well Rooted Cuttings

	Per 100	Per 1000
Richmond.....	\$1.50	\$12.50
Liberty.....	2.00	17.50
Bridesmaid.....	1.50	12.50
Bride.....	1.50	12.50
Sunrise.....	3.00	25.00
Uncle John.....	1.50	12.50
Chatenay.....	1.50	12.50
Ivory.....	1.50	12.50
Perle.....	2.00	17.50

ROSE PLANTS

From 2½ inch Pots.
Ready for Shipment.

Richmond.....	} \$3.00 per hundred
Bridesmaid.....	
Uncle John.....	
Chatenay.....	
Brides.....	} \$25.00 per thousand
Ivory.....	
Liberty.....	} \$4.00 per hundred
Perle.....	
Sunrise.....	} \$5.00 per hundred
Perle.....	

Killarney 2½ inch pots Grafted Stock. \$12.50 per Hundred
PETER REINBERG, NO. 51 WABASH AVENUE, CHICAGO

Few members of the great fern family are as easy of culture as these nephrolepis. Their propagation by division and especially by runners is rapid and always successful. A well-lighted bench should be chosen for Summer propagation, and the plants should go into the soil now as soon as such a bench can be had. Early planting and early lifting in the Fall mean a goodly lot of fine, well-established specimens when sales begin. The best bench soil for the purpose is a mixture of sandy loam, rotted manure and leaf mold in about equal parts. No shading is needed for these ferns while making their growth.

Sweet Peas.

There is no such a thing as being too early with the starting of sweet peas out of doors in the beginning of Spring. It is a great advantage to have the ground in readiness for sowing the seeds without being compelled to wait for its becoming in proper condition for spading or plowing, which in early Spring is to be looked for, rather as an unusual state of things than as a rule. The grower, therefore, who plans in time for a coming season's large sweet pea field, preparing the land in the Fall and having now nothing to do but to sow the seeds as soon as the mellow upper crust is workable, will have the best chances of receiving good pay for his expenditure in time and labor.

Sweet peas do well in almost any kind of ground, provided it is deeply dug, liberally enriched and freely exposed to air and sunshine. Of course, there is a great difference as to behavior in the varieties offered by the seedsmen. Some are absolutely worthless for extensive culture by the professional florist, while others may be grown with success and profit in some localities, but not in all. Growers who go into sweet peas heavily every Summer must continue to test some of the newer or untried sorts in a small way every year to discover those of merit for their particular place. Outsiders' advice here is most unreliable. A variety that as a trial crop proves a profuse producer of high grade, fast selling flowers, has, with me at least, usually continued in succeeding years to be a good thing to grow quite heavily. While some of the old standbys have become enfeebled and uncertain and some of the newer ones are giving out too quickly, there still remains a long list of good varieties to recruit from.

Reminders.

Left over azaleas, if not already started into new growth, are improved in shape by judicious pruning before making a renewed start. They should not be placed out of doors until the new growth is well under way or almost completed, when they will be excellent stock for next season.

Stock plants of poinsettias should now be repotted into new soil after being cut back. If sparingly watered at first and afforded a good place on a sunny bench, a good crop of cuttings will be available in May.

From salable plants of Vinca major many cuttings may now be taken without lessening the value of the old plants. No opportunity to increase the stock in this line should be missed. A Summer's field culture will make fine plants of cuttings rooted now.

Amaryllis vittata, now about out of bloom, must not be allowed to become dry at the roots for six or eight weeks yet or until the foliage is well ripened. On this depends future success.

The dividing and replanting of Shasta daisies, if deemed at all advisable, should be undertaken now or as soon as the ground is in fit condition.

The field set apart for asters should not be dug up or plowed while still in a soggy condition, and the plants should not be set out before the soil has become somewhat warm and is in the best state for planting.

A lime dressing on any land over-fertilized, sour or worm-infested, is a good thing at this time of the year. A liberal dose before plowing and another after the land is leveled off, evenly raked under, will prove of benefit to most outdoor crops, especially roses, asters and carnations.

One of the richest, safest and quickest acting fertilizers is coal soot. Thinly spread over the surface of the soil in which plants are growing it is carried down in watering and produces immediate results.

PRIZE-WINNING ROSES AND CARNATIONS

ROSES

The New Rose "Morton Grove," winner of the Silver Cup at Chicago Flower Show, 1906, for best new rose, will be disseminated in 1908.

	R. C. 24-in.	24-in.	34-in.
	Per 1000	100	Per 1000
Maids.....	\$18.00	\$4.50	\$40.00 \$55.00
Brides.....	18.00	4.50	40.00 55.00
Gates.....	18.00	4.50	40.00 55.00
Uncle John.....	18.00	4.50	40.00 55.00
Chatenay.....	18.00	4.50	40.00 55.00
Richmond.....	20.00	4.50	40.00 55.00
Perle.....	20.00	5.00	45.00 60.00
Sunrise.....	20.00	5.00	45.00 60.00
Rosalind Orr English.....	20.00	5.00	45.00 60.00
Kaiserin Augusta Victoria.....	4.60	40.00	55.00

American Beauties, rooted cuttings, March, April and May delivery \$3.50 per 100, \$30.00 per 1000; 2 in. pots, April, May and June delivery, \$7.00 per 100, \$60.00 per 1000.

CARNATIONS

	*Rooted Cuttings	24-in.
	per 100	per 1000
White Perfection.....	\$6.00	\$55.00 \$75.00
Rose Pink Enchantress.....	3.00	25.00 7.50
White Lawson.....	3.00	25.00 4.00
L. Peary.....	3.00	25.00 4.00
Gov. Wolcott.....	2.50	20.00 3.50
Pink Lawson.....	2.00	17.50 3.00
Enchantress.....	3.00	25.00 4.00
Victory.....	6.00	50.00 7.00
Cardinal.....	3.00	25.00 5.00
Red Lawson.....	4.00	35.00 5.00
Prosperity.....	2.50	12.50 3.50
Patten.....	2.00	17.50 3.00
Variiegated Lawson.....	4.00	35.00 5.00
Glendale.....	5.00	40.00 6.00
Oralg.....	5.00	40.00 6.00

Ready for shipment, from 2½ in. pots, Pink Lawson, Red Lawson, White Lawson, Variiegated Lawson, Glendale, Gov. Wolcott, Cardinal, Rose Pink Enchantress and Robt. Oralg.
Special price on fine, healthy, well rooted, stock of Prosperity, per 1000, \$12.50.

CHRYSANTHEMUM CUTTINGS

BEST COMMERCIAL VARIETIES ONLY

GET OUR PRICE LIST

FROM HEALTHY STOCK

POEHLMANN BROS. COMPANY, MORTON GROVE, ILL.

The Latest Novelty

NEW rose "ANNY MULLER" cross between **Crimson Rambler X George Pernet** (Baby Rambler growth), of a delicate bright pink color. Order early; a few thousand unsold yet; delivery, Fall 1907. Our Mr. Wiegand Bruss will visit you some time in April or May. All kinds of nursery stock, such as hardy **RHODODENDRONS, BOXWOOD**, our own growing all sizes up to 6 feet, etc., etc. Offered by

VAN DER WEIJDEN & CO.,

The Nurseries, Boskoop, Holland.

No agents.

Catalogue 1907-1908 now ready. For the trade only.

2-year-old ROSES 4-in. pots

P. & W. Cochet, Cr. Rambler, etc. 7c; Beesle Brown, Goutier, Planter, Soupart, etc. 8c; Caprice, Charta, Dieback, Dinemora, Lambelin, etc. 9c. Jubilee, Neyron, etc. 10c; Richmond, Baby Rambler, etc. 12c; Niel, 15c.
101 choice sorts in 2½-in. pots.

THE LEEDLE FLORAL COMPANY
SPRINGFIELD-OHIO

ALTERNANTHERAS

STRONG ROOTED CUTTINGS.
RED and YELLOW at 50c. per 100, or \$4.00 Per 1000.
BRILLIANTISSIMA (the best red) at 60c. per 100, or \$5.00 per 1000.

DAVIS BROS., Morrison, Ill.

THE WEEK'S WORK.

Timme's Timely Teachings.

Cyclamens.

We now enter upon a season when young stock of all kinds requires constant attention and when any sort of long continued neglect most often amounts to wilful sacrifice. Cyclamens, started last Fall or in Midwinter, are among the readiest to resent any slight in cultural care at just this time of year. Those sown in September or October are now ready for 3-inch pots and should now undergo this shift without delay. The later sown lots will need a transplanting into new soil and will fare best by being once more dibbled off into trays or boxes, allowing them more room and a slightly higher stand above the soil. The little corns should never be entirely below the surface of the ground; their tops should be visible when the planting or potting is finished. Only those seedlings started early last Fall will be in bloom in time for next Christmas, and their corns should now be of the size of peas.

A good potting soil for well advanced cyclamens is a rather stiff mixture of turfy loam and thoroughly decomposed horse manure, lightened by the addition of some sharp sand and a small portion of good leaf mold, all well broken up, but not sifted. Rightly placed drainage in the larger sized pots is essential.

Cyclamens may be carried through the Summer in outdoor frames, but all indoor culture from start to finish has resulted in the making of fine specimens and is to be preferred when the right kind of bench space is available. A shading, not too dense, at the sunniest hours of bright days, is necessary, but at all other times the plants must not be deprived of the fullest light.

Nephrolepis.

Boston ferns enjoy a degree of unflagging popularity that so far has been a potent safeguard against the danger from overproduction. Although the newer forms strive hard, and not in vain, for public recognition, the original type has gained such a firm hold in the esteem of the people as the most-effective, most easily managed and most durable of decorative house plants, that it seems doubtful whether the most distinct improvement will ever rise above the common appellation Boston fern. In the opinion of most buyers all the newer kinds of nephrolepis, some of them truly magnificent, are merely Boston ferns, better grown on some places than on others. But in the mind of the farsighted grower there exists no doubt as to the great superiority of nearly all of the later forms over the old type of Boston fern, almost as great and decided as the improvement in this over the old time Nephrolepis exaltata; and the time is not far off when Boston ferns will be grown and sold, which are not the Boston ferns of old.

MISS KATE MOULTON

What Richmond Is in Red
Kate Is in Pink

YOU WILL NOT MAKE ANY MISTAKE IN PLANTING
A LARGE STOCK OF THIS BEAUTIFUL ROSE

Rooted Cuttings All Sold Out

Plants in 2½ inch pots for late March delivery will be ready.
Order direct from Headquarters. Write for Prices

MINNEAPOLIS FLORAL CO., MINNEAPOLIS, Minn.

diate effect. Soot may also be employed in liquid form by suspending a small bag of it into a harrel of water for a day or two, and using this in the feeding of plants. To throw clean soot in with the cinders and on the ash heap is a sinful waste.

The best stock for planting in benches for Winter or early Spring flowering of such things as swainsonas and snapdragons is obtained by rooting cuttings now, taken from plants just coming into bloom.

It is now time to begin the propagation of chrysanthemums in good earnest. It is none too early for almost all of the leading commercial kinds.

Very useful during early Summer are a bed or two or a few rows of candytuft, mignonette, Gypsophila elegans and the like. Sow the seeds as soon as possible.

Uncover all hardy stock, remove the rubbish, and give things a tidy look and the plants a chance to grow.

If any grass seed is to be sown, the early part of April is the best time for it.

Dormant hardy stock, until sold, fares best if properly heeled in on some cool and shady spot of the garden, but for immediate trade a wrapping or mossing of the roots and a place in some cool shed will do well enough. Customers should be made to understand that entire success mainly depends on early planting.

A slight delay in the ordering of the material for the new houses to be put up usually amounts to a great lengthening out of the building season.

FRED. W. TIMME.

VERBENAS

Floer seedlings, 40c. per 100; \$3.00 per 1000; 2½ in. pots, \$2.00 per 100; \$15.00 per 1000.
Stocks, Phlox Drummond, Salvia, Alyssum, German Ivy, Ageratum, Cigar Plants, out of 2½ in., \$2.00 per 100; \$15.00 per 1000.
Pansies and Daisies, in bloom, \$1.50 per 100; \$12.00 per 1000.
Pensies that will bloom soon, 50c. per 100; \$3.00 per 1000.

J. C. Schmidt, Bristol, Pa.

ROSES :. CANNAS

The season for planting **Roses** and **Cannas** is at hand. Be sure and send for our catalogue to-day. Fine assortment.

**THE CONARD & JONES COMPANY,
WEST GROVE, PA.**

SALVIA ZURICH

THE EVERBLOOMING SALVIA

One of the most important novelties in bedding plants introduced for a long time, produces its wealth of flowers while very small and is in its full glory long before any other kind shows even a bud, grows also much dwarfer and more compact. Our stock is raised from cuttings and seed, which was procured in Zurich, Switzerland.

Strong plants from 2½-in. pots, 75c. per doz., \$5.00 per 100, \$45.00 per 1000. For full description send for circular or see American Florists' Carnation Number, page 19, Florists' Exchange, page 185, and Horticulture, pages 140 and 202.

PERENNIAL GARDENS CO., Toledo, O.

Asparagus Plumosus Nanus

Strong stock, 3-in. pots, \$6.00 per 100. Careful packing, liberal count.

WEATHERED BOILER, for sale cheap.

R. G. HANFORD, Norwalk, Conn

2,000 ASPARAGUS SPRENGERI, 3 in. pots once will go cheap, to make room, \$3.50 per 100.

**COHANZIE CARNATION GREENHOUSES,
NEW LONDON, CONN.**

CYCLAMEN GIGANTEUM

Twice transplanted, in fine growing condition—four leading colors, ready for 3 in., \$4.00 per 100; \$35.00 per 1000. Ready for 2½ in., \$3.00 per 100; \$25.00 per 1000.

Asparagus Plumosus, transplanted in boxes, \$1.50 per 100.

G. A. THIELE, Frankford, Philadelphia, Pa.

ROOTED CUTTINGS Prepared per 100. Ageratum Gurney, Panlinoe, 80c. Alternanthera, best red and yellow 50c. Coleus, best, 60c. Heliotrope, h no, 85c. Salvia Bonfire 75c. Cash.
SHIPPENSBURG FLORAL CO., SHIPPENSBURG, PA.

COLEUS

VERSCHAFFELTII, GOLDEN QUEEN, FIRE BRAND, LORD PALMERSTON, QUEEN VICTORIA, BECKWITH'S GEM.

Prices of Rooted Cuttings by Express, 60 cents per 100; \$5.00 per 1,000. **GOLDEN BEDDER**, Golden Yellow—the old original, true to name. Rooted cuttings, 75c. per 100; \$6 per 1,000.

FANCY VARIETIES. In addition to those named we offer a fine stock of twelve kinds. 75c. per 100; \$6 per 1,000. Strong cuttings. Free from Mealy bugs.

AGERATUM

STELLA GURNEY, Dwarf Blue, 75c. per 100; \$6 per 1,000.

PRINCESS PAULINE, a combine of blue and white in same flower, 75 cents per 100; \$6 per 1,000.

SALVIA

SPLENDENS, tall standard, one of the best, rooted cuttings, 75c. per 100; \$6 per 1,000.

BONFIRE, medium dwarf, very good, rooted cuttings, 75c. per 100; \$6 per 1,000.

HELIOTROPE

ROOTED CUTTINGS, 75c. per 100; \$6 per 1,000.

A. N. Pierson, Cromwell, Conn.

XXX STOCK

STRONG, READY FOR 3 IN. POTS

AGERATUM, "Garney," best dwarf blue, \$2.00 per 100.

VERBENAS, California Giants, seedlings, finest grown, mixed, strong 2 in., \$2.00 per 100.

PETUNIAS, New Star, from the finest marked star flowers, \$2.00 per 100.

PHLOX, New dwarf, Grand for pots. A good seller. Mixed \$2.00 per 100.

HELIOTROPE, Light and Dark, strong 2½ in., \$3.00 per 100.

PELARGONIUMS, Fancy mixed, 3 in., \$3.00 per 100.

ROSE GERANIUMS, 3 in., \$5.00 per 100.

Also Seeds as per our recent adv.

SALVIA BONFIRE, Finest grown, strong two inch \$2.00 per 100.

GIANT PANSIES, Strong, \$1.50 per 100. GASH. Extras added liberally.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.

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Seedsmen and the Trade in General

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

Change in Canadian Tariff.

In the revision of the Canadian tariff, a change has been made that will have considerable effect on the florist trade, says the Canadian Florist. Seedling carnation stock for propagating purposes has been placed on the free list. This means that Canadian growers will be able to purchase from the introducers in the United States, seedling carnation stock of new varieties, that they may wish to try in Canada, without having to pay a duty on such stock. Growers will not, however, be able to import standard varieties without paying the usual duty of 20 per cent.

A resolution has been sent by the Canadian Horticultural Association to the Minister of Customs asking that plants and cuttings of new varieties of roses, chrysanthemums and geraniums be also included in the free list.

Naming of Florists' Varieties.

Even in the naming of florists' varieties, some fancy used to be exercised in the seventeenth century, particularly in the case of carnations, says the London Times. There were red Hulos and Crystallines, and Striped Savages and Canbersines and Lusty Gallants and Pale Pageants and Infantas and Feathered Tawnies. And there is no reason why florists now should not show a little more spirit and invention in giving names to their novelties. Florists' varieties do not have botanical names; therefore, the florist has a free choice, and no excuse if his names are meaningless or ugly. Yet they are usually both. What is to be said for the name Blairii No. 2, given to an excellent old rose, or Gruss an Teplitz, given to an excellent new one? The habit of calling flowers after people is a very dull one and ought to be discouraged. All that can be said for it is that the names of people do not need to be translated, but this would apply also to classical names, which are far less used, scarcely at all; but even if a pretty florist's name had to be translated it would not matter much, provided it was short and descriptive. Daffodils in this respect are better treated than roses; for instance, Lucifer is a good name for the glowing flower to which it is given, and Sunset is another. But there are some pretty names even among roses, as, for instance, Irish Glory and Irish Modesty for the beautiful single teas, which have lately come from Ireland. Even humorous names are better than dull ones, and the gardener is to be commended who christened a new cucumber "Tender and True," when he might have called it Lord Kitchener or Sir Henry Campbell Bannerman.



Charles A. Reed.

Charles A. Reed, florist, and a popular member of Massasoit lodge, I. O. O. F., passed away at his home, 1062 North Main street, Brockton, Mass., on March 25, 1907, at the age of 40 years and 23 days, after a lingering illness. He is survived by a widow and two children.

Mr. Reed had been a resident of the north end for ever 30 years, living in the house where he died. He was a man esteemed and honored by all who knew him, his genial disposition winning many friends. He had been a sufferer with the disease to which he succumbed for several years. He went south to Asheville, N. C., some years ago, and was also treated at the Rutland sanitarium, with but slight result.

By occupation up to within five years Mr. Reed was a shoe operative. He succeeded H. E. Barrows in the florist business which he conducted in Brockton for the past five years.

Nathan Smith.

Nathan Smith, senior member of the firm of Nathan Smith & Son, Adrian, Mich., died at his home in that city on Thursday, March 28, 1907. Had he lived until



The Late Nathan Smith

Saturday, March 30, he and his estimable wife could have celebrated their sixty-fifth wedding anniversary.

Mr. Smith was one of the oldest and most highly respected citizens of Adrian. Without doubt, up to his death, he was the oldest continuous resident of the State, going to Michigan with his parents when he was but three years of age.

Nathan Smith was born September 22, 1817, at Manlius, Onondaga county, New York. Three years later he went with his parents to Michigan, the family settling near Birmingham, which is now nearly a suburb of Detroit. The father set to work making a home in the woods, where he reared a large family. Nathan Smith is the last one of this large family to go. As a young lad Nathan's playmates were the Indian children of the woods, and he learned their language quite fluently. He seldom saw a white child outside of his own family, and his education was picked up as best he could. Mr. Smith was a great reader, and kept up-to-date on all questions to a remarkable degree. At the age of 17 he began learning the carpenter trade, and was in the work quite extensively in Detroit. For many years he was in charge of the department of construction on the Michigan Central railroad, his first work being on the first Michigan Central round house at Detroit. Most of the first buildings along the Michigan Central road were erected under his supervision. He was in charge of a gang of one hundred men at the memorable time when, near Michigan City, a railroad crossing war resulted in an accident which killed many men, and which ultimately led up to starting the present laws regulating railway crossings in Michigan.

Mr. Smith was married March 30, 1842, in Southfield township, Oakland county, to Miss Helen A.

Green, and she has proved a faithful and helpful companion through all the sixty-five years that have passed. In the Summer of 1843 they moved to Detroit, where they kept their home until 1857, when they went to Adrian. That city has been their home ever since, Mr. Smith worked at the carpenter trade there for some years, built the present Smith residence himself, on West Maumee street, and in 1876 erected the first greenhouse of the plant which has grown into one of the largest floral establishments in the Northwest. Elmer D. Smith, the junior member of the firm, has accomplished much of this and is now recognized as one of the most expert chrysanthemum growers and originators in the United States. Two children were born to Mr. and Mrs. Nathan Smith, Alfred N., who was first sergeant of Company C., Eighteenth regiment, and died at Nashville, Tenn., and Elmer D. Smith, who has been spoken of.

Nathan Smith took much interest in the affairs of Adrian. In the building of the college in that city, he gave liberally of his money and in material. He was one of the first Republican voters, and a Fremont man. Of a robust constitution he had but little sickness during his long life, until last Summer he was taken ill. Still he kept up all Winter, and took to his bed only the Tuesday preceding his death, suffering from a complication of diseases.

In the death of Nathan Smith there is the passing of a good man; having nothing in his heart but the best wishes for his fellow beings and with kindly disposition and intelligent conception, of things has blessed the world for having lived in it.

The funeral was conducted from the house Sunday at 2 p. m., burial being private.

Thomas H. Douglas.

Thomas H. Douglas of the firm of R. Douglas' Sons, nurserymen, of Waukegan, Ill., died at Los Angeles, Cal., Tuesday, March 26, 1907, of heart failure. Mr. Douglas' father, the late Robert Douglas, was a nurseryman of international reputation and founded the business which bears his name.

OUR READERS' VIEWS

Sweet Peas.

Editor Florists' Exchange:

Noticing an article on "Sweet Peas" in your issue of March 16, quoted from The Horticultural Advertiser of England, perhaps the following reply which I have sent to that periodical will be of interest to your readers, namely:

"Observing an article in The Horticultural Advertiser of February 20, wherein my name is mentioned, as well as my Winter-flowering sweet peas, I would state in answer to Mr. Engelmann, that in all my experience with this flower—over twenty-five years, sixteen of which nearly all of my time has been devoted to its cultivation I have failed to see one sweet pea sport. Every variety I have, originated with me, is a seedling, and I have now over seventy colors in sweet peas. Christmas Pink is a cross between Blanche Ferry and one of my first early flowering seedlings; Florence Denzer is a cross between Christmas Pink and Emily Henderson; Christmas Captain is a seedling from Christmas Pink and Captain of the Blues; Mrs. Alex. Wallace, Christmas Comtesse, Mrs. Charles H. Totty (lavender), Mrs. William Sim, Mrs. F. J. Dolansky, Mrs. W. W. Smalley (soft pink or orange), and over sixty other varieties are all seedlings obtained by myself from crosses made by my own and my son's hands, and all duly recorded.

"I think Mr. Engelmann must be in error about his sports, for I am almost sure that he has obtained several stray seeds from me, as he has purchased sweet peas of me for several years.

"It is not necessary nowadays to wait for a sport in sweet peas. There is so much skill among specialists now that we can produce nearly every color to order to be delivered within two years. As an example of how quickly a new sweet pea can be obtained in the United States, I would state that I got from a friend some seeds of that fine variety, Gladys Unwin, which was disseminated by Messrs. Watkins & Simpson, if I am not mistaken in November, 1904. I sowed the seed at once, and in the following May Gladys Unwin was in full bloom. I made some crosses with it and several of my Christmas-flowering varieties, and in the following November I was in a position to show to the New York Florists' Club several new seedlings obtained from these crosses. These flowers have been referred to several times in our trade papers, and Messrs. Watkins & Simpson have asked me how it was possible that I could disseminate seeds from this cross the last year. This is very simple matter to me, and just as simple in the case of any of my seventy varieties.

Mr. Englemann must know the difference between his own sports and my seedlings, for he has over forty varieties originated by me and has been a customer of mine for several years.

"In answer to S. B. Dicks, I would state that I would be pleased to send him some of my Winter-flowering varieties for trial. Probably Mr. Dicks would be able to secure some of the Telemly strain and grow them side by side with mine. I have never heard of the Telemly sweet peas until this year in the Sweet Pea Annual. I ship many of my seeds to France, Germany, Austria and Russia as well as to England, but I never heard of Telemly.

In answer to the editor's note, I am very sure that my first sweet pea seedlings were obtained from crosses made with the vetch. ANT. C. ZVOLANER.
Bound Brook, N. J.

"New Creations."

Editor Florists' Exchange.

In your issue of February 28, your correspondent John Birnie, in an article entitled "That Burbank Letter," puts himself on record as claiming the word "create" as found in the Bible to mean, to make out of nothing something that did not exist before. And I must admit that this is the popular meaning given to the word as taught in our Sunday schools, and by those thinkers who have a tendency to take a superficial view of things or have not given the subject the attention it deserves. To illustrate—in the first Chapter of Genesis, verses 1 to 3, we read. (1) In the Beginning God created the heavens and the earth. (2) And the earth was without form and void; and darkness was upon the face of the deep. (3) And the Spirit of God moved upon the face of the waters and God said let there be light, and there was light.

Here we find no mention made of God making anything out of nothing. It simply says that the earth was without form and void. To make my meaning clear: Suppose there is an uncultivated field, or forest of tangles; enters a man who clears the ground, builds himself a house, lays out a beautiful lawn and garden. Before the man came to this place did the house and cultivated garden exist? No. Did he make it out of nothing? No again. If the man had not come there, could this house and cultivated field have sprung up "de novo"? Most certainly not.

Did Mr. Birnie in all his experience ever see Nature make something out of nothing, and what are we if not a part of the visible order of things, and do we ever try to make something out of nothing? And may not what is true of a part be true of the whole also? Out of nothing, nothing can come. If Mr. Birnie would go a little deeper into biology and psychology I am sure he would come to this conclusion.

In regard to Mr. Burbank's claim to the title of a "creator" of new varieties of plants, etc., I will not discuss the matter, but merely quote the following extract from a very able essay by Dr. W. C. Saleeby entitled "Chemistry and the World" which will be found in the February issue of Harnsworth's Self Educator Magazine: "Nature is commanded by being obeyed. In a great epigram which we have quoted more than once, Bacon has summed up all the facts of the case and more, Nature is to be commanded only by obeying her." Now words like creative and creator may legitimately be applied to man in many of his acts. A great musical composition, such as, let us say, the third or fifth or seventh symphonies of Beethoven, or even a simple folk song, may properly be called a human creation; so also is a chair, a house or a football, so also, is "Paradise Lost." Man may be looked upon as the creating animal.

Now what does the word mean? We who are students of science clearly recognize what the word does not mean. First the chemist or the poet does not make something out of nothing. And in the second place, whatever he makes, does or creates, he remains the servant of Nature, to use Bacon's phrase, as well as her commander. The greatest genius cannot modify by a hair's breadth the smallest of Nature's laws, not in this sense can man create; and not in this sense can Nature be commanded; but if man chooses to observe Nature's laws, to obey Nature, then he can command her in this limited sense.

Thus the synthetic chemist will fail if he tries to make compounds in defiance of Nature's laws. If it be a fact in Nature that carbon and oxygen have an affinity for each other, there will never be any making of a compound which depends for its existence upon antagonism between these two elements. If, on the other hand, the chemist will accept Nature's laws, then his intelligence is capable of directing them to his own purpose and so producing new compounds which Nature herself would not have made, but which yet are made in obedience to her. This saying of Bacon's is one of the profoundest that ever emerged from a mighty mind.

And now to conclude, if I have been able to throw any light on the subject for Mr. Birnie and others, I shall feel well repaid for the trouble of writing this letter, but if Mr. Birnie persists in thinking to the contrary, notwithstanding, then all I can say is that Mr. Birnie is "nothing," for, as the Greeks say, "Out of nothing, nothing can come."

Woodstock, N. B.

WINSLOW C. WATT.

Mixing Pollen.

Editor Florists' Exchange:

The case quoted by one of your correspondents giving the results of past environment, in future progeny, is valuable evidence if the records show that the first husband was absolutely and officially dead, grave closed, and tombstone erected.

The same law that governs the offspring of mankind governs the offspring of the carnation.

JOHN G. ESLER.

CLUB AND SOCIETY DOINGS.

THE COLUMBUS FLORISTS' CLUB held its last meeting for March on Tuesday of Easter week, and considering the busy time the meeting was very largely attended. President Sherman F. Stephens was in the chair, and we were all much pleased to have Secretary James McKellar with us again after his attack of the grip. The floral committee appointed for the evening, consisting of Messrs. Bauman, Hills, Metzmaier, Wedemeyer, Monk, and Battelle, made the following awards: L. D. Siebert for a very fine specimen of Empress of India azalea, 20 points; an especially cleanly grown Hydrangea otakasa, in a 4-inch pot, brought R. A. Currie 15 points.

At this meeting the committee chosen sometime ago, consisting of Messrs. M. B. Faxon, Albert Knopf, Guy H. Woodrow, James McKellar and Sherman F. Stephens, reported in regard to the chrysanthemum show to be held in November next. The committee recommended a list of prizes to be awarded by the club, which were unanimously approved. In addition to the regular prizes, there will no doubt be several special prizes offered by members and interested friends of the club, in the same manner as last year. Last season the chrysanthemum show was for the members only, but the club feels that the time has come for a public show; and on the motion of Vice-President Currie it was unanimously voted, that the exhibition this Autumn be held in some suitable place where the public can come, and that an admission fee be charged.

The progress made by the committee on the distribution of seeds to the school children, was reported by M. B. Faxon. Very little in active work has been done since the last meeting as while the club's seed committee attended the last meeting of the Columbus Board of Education, and tried to obtain the necessary permission to distribute the packets of flower and vegetable seeds to the children and collect a penny a packet for the same as in previous years, certain members of the Board of Education, who are opposed to the work, blocked the request of our club until the hour of adjournment arrived and so the matter goes over for another two weeks. It seems a shame after all the hard work our club has done in this matter, to be blocked now at the eleventh hour just as this movement is shaping itself to do so much good in this city. We hope at the next meeting of the Board of Education to obtain the desired permission to distribute the seeds to the children.

This meeting was an especially long one, on account of the time consumed in discussing the important matters I have just referred to; nevertheless, we made time to compare notes regarding the Easter outlook. On the whole it would seem that the week of Summer weather (temperature around 80 degrees), that we have been having and which still lingers with us, will do much damage to plants and all kinds of cut stock, as it is simply impossible to hold anything back in this intense heat. But there is no help for it. It has certainly been a strange time the past six months; either no sun or all sun. At a late hour we adjourned to meet again Tuesday evening, April 9. F. W.

TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY.—The regular monthly meeting of this society was held March 26. President Howard Nichols in the chair. There were two elected to active membership and three nominations. Wadsworth Lewis offers a silver pitcher to be competed for at the Fall show, and Mrs. George Lewis offers a silver cup. Julius Roehrs Company offers \$25 for the best table of orchids; H. A. Dreer, \$10 for the best collection of stove plants, and the F. R. Pierson Company, a \$25 silver cup for carnations. President Howard Nichols puts up \$10 for the best six pot plants of chrysanthemum, pots not to exceed seven inches. The executive committee reported on the schedule for the Fall show, and suggested a few minor alterations from last year.

The monthly prize for the best display of flowering plants and cut blooms was awarded to D. McFarlane, as was also a certificate of merit for the same exhibit. A certificate of merit was awarded James Ballantyne for his exhibit. The exhibits consisted mostly of *Cineraria stellata* and bulbous stock, most of which were shown in pots and pans. A paper on "Hardy Outdoor Roses" was read by D. McFarlane and freely discussed. D. M.

Our London Letter.

BY A. HEMSLEY.

OUR MARKET SUPPLIES.—The chrysanthemums, of which we had such a glut up to Christmas, finished up at better prices; those who were fortunate enough to have good blooms after Christmas did well with them. One grower told me that he made as much for one box of blooms the first week in January as he did for ten boxes of the same quality in the middle of December. Those who had good blooms early did well, and the late ones, especially good whites, made even better prices. The best late sorts were Mrs. J. Thompson, Madame T. Panckouke, and Niveus. I find that a good many growers are not likely to do so many another season; and those who have done best are the growers who grew them in moderate quantities, began to cut early, and had a regular succession all through up to the finish. And it is much the same with all other classes of flowers or plants—good quality and a regular succession will pay in any class of plants.

Some growers of carnations come in with a big lot just when the flowers are most plentiful and are surprised that they cannot make the prices recorded a week earlier. A week often makes a great difference. Taking varieties it seems that Enchantress will be overdone so many growers are doing it well. It is not quite deep enough in color for some work, but if we could get the same habit with the color of Mrs. H. Burnett we should have an ideal carnation. White Perfection I find is to take the lead in market as the best. Every grower is buying Britannia, but St. Louis and Robert Craig are also claiming attention, and Victory is another favorite.

Among roses we have been getting some very bright blooms of Richmond; the only fault is that they are not quite large enough. Liberty has also been good; both of these keep their color better than the old English favorite, General Jacqueminot, yet this variety is still valued on account of its beautiful fragrance. Mme. Caroline Testont was not in quite so early this season, but I saw some lovely blooms the third week in January. Mme. Abel Chatenay remains one of the most popular roses we have, and during the past year I believe that they have been procurable every morning that the market has been open. Hiawatha and the Climbing Frau Karl Druschki are the two roses that will be most in demand among trade growers next season.

FERNS.—*Nephrolepis Whitmanii* has shown in splendid condition by Messrs. H. Low & Company at a recent meeting of the Royal Horticultural Society, yet it failed to gain distinction from the committee. It is certainly a beautiful fern, but we are getting rather too many of this type, and as Piersoni elegantissima and Messrs. T. Rockford's *N. todoroides* had so recently received certificates, the last came failed. *Davallia canariensis elegans* is another valuable fern added to the list this year; it comes from Messrs. J. Hill & Son.

THE WINTER-FLOWERING CARNATION SOCIETY seems to be now well established on good lines. It has fixed on the Royal Botanic Gardens as its headquarters and held another show there on March 13. It will give a great impetus to English growers to work at hybridizing; and also to import all the new varieties from America and other sources. I find there are some difficulties ahead. The great point is to determine which is the best variety of any particular color. There will be a slight difference in the shade and one may like one and another a different shade. To properly prove a carnation it should be shown every month during the year and points given; we should then find out which were the best for all-the-year-round trade. We know that Mrs. T. W. Lawson, Enchantress, and a few others are good twelve months in the year, and others should be proved; then the best for any particular month might be selected. I do not believe in just the way it is done in the Sweet Pea Society, that is, giving first place to some variety because it is shown in most classes, especially as several classes are restricted to special sorts. I also find fault with the Sweet Pea Society for confining large classes to special sorts. I think there is one for about 18 or 19 sorts, which must be the same in each exhibit. Now take the scarlets; if A has a fine scarlet seedling which might be better than Scarlet Gem, which is shown by B he ought to be allowed to substitute it for that variety under a new name, and the same should apply to all other varieties. But I do not advocate the increase of new names; we are already getting too many. I find that the number of varieties has risen to 152 shown last year, where it was only 90 in 1903. The society gives an audit of the number of exhibits of each variety, but being compelled to include certain sorts in several classes, this does not prove much. But we get a little nearer the mark in the first-prize list, where it is for any variety of a particular color. This, however, does not take in some of the newer sorts. Coming to these I am surprised to find that Paradise, a beautiful variety of the Gladys Unwin type, has received no distinction.

About Asters.

I have grown asters for exhibition and commercial purposes for almost thirty years. I like them, and always have. As I look back over the years, and bring to mind all the innumerable novelties in this popular flower that have come and gone, I am almost forced to believe that anything of merit in asters, in the way of a real sterling novelty, is almost impossible to find. In the old days we grew almost entirely for exhibition and sale purposes the Victoria, and Truffaut's Pæony-Flowered Perfection classes; and to-day there are no better kinds in the whole aster family. The Victoria class, for all purposes, is certainly grand; the magnificent blooms in shade and color embrace every tint known in this flower. The blooms themselves are round and fully double, with the beautifully imbricated petals recurving to the edge of the flower.

Many amateur and professional gardeners as well have always contended and still contend, that the Improved Victoria is by far the finest aster in cultivation; be that as it may, it is certainly an elegant variety. Besides its great value for florists' purposes and as a garden plant, it is also the very best of all asters for pot culture. The plants can be grown and flowered wholly in pots if desired. In height this variety grows about two feet, in some soils possibly a little less. As regards colors best suited to commercial work, I would advise the following shades: dark blue, peach blossom pink, and snow white. There are some twenty other very pretty and delicate shades, but the ones mentioned can always be used with good effect, especially in funeral work, and it is in funeral work that a very large proportion of all asters-grown are used.

Truffaut's Pæony-Flowered.

Truffaut's Pæony-Flowered Perfection asters have always been favorites of mine, for many reasons; they are sturdy and easy growers, less liable to disease than any, and their flowers are intense and superbly brilliant in color and shade. The individual blooms are large, perfectly double, with each petal distinctly incurving to the center of the flower. This sort attains a height of two feet, and when in full bloom makes an extremely brilliant effect. As with the Improved Victoria class, there are many colors and shades, but the dark purple and snow white for commercial work are the most desirable varieties.

Imbricated Pompon.

Another class of asters that are not very much grown, in fact, never have been when compared with the large-flowering varieties just described, are the

Imbricated Pompon asters. These beautiful, small-flowered sorts are much liked by growers, especially for exhibition purposes. Each plant forms a most perfect mass of bloom; in fact, every plant might well be called a perfect bouquet in itself. This aster grows about twenty inches in height, and there are many very beautiful colors and shades in this class. For exhibition purposes it is superbly elegant. The whole plant is usually cut and placed in a vase, and the effect of a stand of these must be seen to be appreciated. The individual flowers are very small, but borne in the greatest profusion.

The three splendid classes of asters that I have just described have stood the test of time. They were popular thirty years ago and are to-day. There are no better sorts in cultivation.

American Branching.

Within a comparatively few years a class of asters known as American Branching have become very popular, and have been largely grown by both amateur and commercial growers. This class has many good points: in the first place they are very free-flowering, without which characteristic no aster can ever be a success commercially. The blooms are very double, average extremely large in size and the stems of the flowers being very long, make this class one of the very best for cutting. The make-up of the flowers is grace itself, the wavy and twisted petals giving the resemblance of a Japanese chrysanthemum. This class grows to a height of practically three feet, and needs quite good growing space for satisfactory results. For very early maturing asters, the Queen of the Market is valuable, as the plants come into bloom some four weeks before other varieties, and are very satisfactory for cutting.

The various strains of Improved Comet asters, as well as the Ostrich Plume varieties, are most charming for their exquisitely curled and twisted petals.

A Desirable Novelty.

To describe all the other more or less standard classes would be only right, but as I wish to take a little of your valuable space to describe an aster of recent introduction that I cannot but feel has before it a wonderful future, I want to tell you my experience of last season with Vick's Violet King aster. Perhaps in no more convincing way can I recommend this variety to you, than to at once tell you, that last September when other standard asters were a drug on the market, Vick's Violet King sold for fifty to seventy-five cents, and a few special blooms even brought \$1 a dozen. I have not for years been so much impressed with a novelty as I have been with



Vick's Lavender Gem Aster—Reduced to One-half Natural Size
Courtesy James Vick's Sons

this aster. In habit of growth it resembles the Branching types, is a most sturdy and bushy grower, and has rich green foliage, and strong stems. In form this variety is certainly distinct. The petals are large, broad, and quilled somewhat. The individual blooms are often five or more inches in diameter, and perfectly double; the curled and fantastically twisted petals completely covering the crown of the flower. In its superb color, is its great elegance. The originators call it a soft violet-lilac; but the description in my trial ground report book says:—a most brilliantly elegant "Royal Purple," and my notes further state that the last good cutting of these asters was made on October 9, 1906, when they brought seventy-five cents a dozen at retail. It is a splendid flower for funeral work, and in my judgment those who do not plant it liberally this year will regret it. One point in regard to it has not been emphasized very strongly, and that is, that Vick's Violet King is its best as a late aster—it is its very best when outdoor flowers are beginning to be scarce and of poor quality.

The Hercules Class.

Another aster which did very well with me last season was the new Hercules class. They are branching in habit, and grow about two feet in height. The individual flowers are extremely large, and borne on strong stems; the long-petaled flowers resemble very much Japanese chrysanthemums. This season there is being offered a pure white sort, which comes well recommended as a fine exhibition variety.

Lavender Gem.

Another new aster that has been well received is Lavender Gem. In color it is an exquisite shade of delicate lavender, deepening with age. The feathery effect of the ostrich feathered type, to which it belongs, is enhanced by the fact that it bears a large proportion of long, partly tubular florets, that are irregularly cut and slashed. The plant is erect and of medium height, branching close to the ground. The flowers are borne in profusion on long, slender, wiry stems. In season it comes between Queen of the Earlies and Daybreak. To the florist the value of this variety, the originator says, will be very great.

In watching the introduction of new asters, as the writer has for years, seeing them come into prominence through skillful advertising, flourish a short time, and then disappear forever, he has become very skeptical regarding new varieties. But it does really seem that, during the past few seasons some very promising new asters have been produced. They are so promising, and come to us from firms of such absolute reliability, that it would appear to be at least most conservative to give these new comers a fair trial.

M. B. FAXON.

Freesia Purity.

The accompanying illustration shows a spike of Freesia Purity, as grown by the originator, Rudolph Fischer, Great Neck, L. I.

The increasing demand for this freesia compels Mr. Fischer to give up his business in the East and move to the Pacific Coast, where the bulbs can be raised in quantity in the open ground, and where he hopes to maintain the high standard of his specialty. He grows only Purity and a batch of seedlings of his own raising. After May 1 Mr. Fischer's address will be Santa Anita, Los Angeles County, Cal.



Vick's Violet King Aster

Courtesy James Vick's Sons

Hardy Outdoor Roses.

Read by David McFarlane before the Tarrytown (N. Y.) Horticultural Society at the March, 1907, Meeting.

The so-called hardy outdoor roses with but few exceptions possess extremely poor qualities for the gen-



Vick's Imperial Sunset Aster

Courtesy James Vick's Sons.

eral embellishment of the landscape from an artistic point of view, consequently we cultivate the majority because of their excellence for house decoration as a cut flower and their unique colors, fragrance, purity and individuality. So many are the varieties of roses now in commerce that to make a selection is no easy task, and as the most of them have been hybridized in France, Germany and Great Britain, many that carry the highest honors in the lands of their birth are a sad disappointment when grown under our more extreme temperature. But if a collection of, say, three hundred well selected varieties were once established on a place, the chances are that not one of them would ever be discarded; for we might say, especially of hybrid perpetual roses, that the color and form of one variety is so near, and yet so far, in resemblance to another, that we decide to keep both because of their characteristic individuality.

The Hybrid Perpetual Class.

The grandest of all rose blooms are found in the class generally designated as hybrid perpetuals, but the word perpetual applied to the blooming of these roses, I regret to say, is very much of a misnomer, at least in our climate. While a bloom or so may be found later in the season, we have to console ourselves with the fact that the flowering period for these roses is during three weeks in June. If this fact alone were judiciously taken into consideration it would eliminate many a rose garden from such a prominent position in the landscape, while at the same time detract nothing from the general interest displayed in the rose.

Place for a Rose Garden.

The best place for a rose garden is one that cannot be seen from any distant point, but one where a host, or hostess, can guide his or her guests and lead them by surprise among the rose beds or under the arbors in the season of bloom. And while the plants are at work preparing for next June they will not be critically commented upon for their rustic looks. The rose is a strong feeder and is best suited in a heavy, moist, but well drained soil, and if they can be planted with a shade from the east, but by no means an overhead one, so that the dews will hang on until 9 or 10 a. m., so much the better, as I consider this the best location for roses.

Time to Plant.

The best time to plant hardy roses is in the Fall, about the first or second week in November. In planting be sure that the graft is well buried. In the case of strong growing varieties I recommend a depth of

seven or eight inches, and the weakest growers should not be planted any less than four inches below the normal surface of the soil. Roses planted at this time should be laid down at once and covered over with three or four inches of soil. In that way they will keep over the Winter and turn out plump and fresh in Spring.

If it is compulsory to plant roses in Spring, have the work done just as early as the ground will permit, for there is no plant that I know of that suffers from late planting as much as the rose. Should the plants show the least sign of shriveling when received in Spring, dig a trench and cover them entirely with about eight inches of soil for three or four days, and unless they have been all the more dried out you will generally find the wood and buds quite plump when you lift them from the trench. If any wrinkles remain on the bark, the chances are that these plants will die; and should they survive, the growth will be extremely poor for the first season.

Pruning.

The last week in March or first week in April is generally the best time to prune hybrid perpetual roses, as at this time all danger from damaging frosts are past, so that we can spread what covering has been used for Winter protection. After the pruning is done give a good loosening up of the soil with a spading fork and the plants are ready to start work.

Few gardeners prune their rose bushes close enough. With but a very few exceptions I prune down from one to four inches of the soil and those exceptions are only such roses as Margaret Dickson, General Jacqueminot and Prince Camille de Rohan, which are apt to run blind on the extra strong shoots from the bottom. Even with these varieties care should be taken to cut out all two-year-old wood close to the soil.

Fertilizers.

If the manure used for protection during Winter is dug in in Spring no additional fertilizer need be applied until the 20th day of May, when a liberal application of some stimulant—pure bone meal, a good grade of commercial fertilizer, or liquid manure from the baryard which ever is convenient—is of great benefit; and should the weather be dry from this time until the flowering period is well over the ground should be well saturated with water. Where the soil is very light a mulch of from four to six inches of litter, or cut grass, is good to retain moisture and also to keep the roots cool, although, it adds nothing to the beauty of the beds. I would prefer litter to grass as a mulch, as I have seen the grass during a dull spell create a bad dose of mildew. If a mulch has been used up to and through the flowering period it should be removed early in July, and the beds kept well cultivated from then until October.



Freesia Purity

Grower Rudolph Fischer.

Growing H. P.'s for Cut Bloom.

The best way to grow hybrid perpetual roses for cut blooms is in rows in the garden, and I would advise every one to give them plenty of room between the rows—three feet or more. They may be set fifteen to eighteen inches in the rows. This enables



Comet Asters

Photo by J. F. Johnston.

you to draw up the soil to the heel of the plants for Winter protection before placing the manure around them. Another advantage it lends in Spring when you remove the manure, the cavity in the center will hold quite a lot of it, where it can be deeply forked in. This will cause fresh root action over a wide space, as the root is the driving power for the top and our aim is to produce a good bloom on a long stem with good foliage. I have never seen this method fail even on light sandy soil.

Most men who have written on the rose advocate the soil to be left good and firm and only forked up to a depth of a few inches in the Spring. This is contrary to my experience for good results, as I never hesitate to put the fork as far in as the foot will send it, seven or eight inches away from the neck of the plant. No doubt by this operation a great many roots are broken, but it is at a time when the plant is dormant and we have just cut all of its top away, and I think that the young roots will work through the loose soil with such vigor that will soon more than compensate for the rough pruning they have received.

Hybrid perpetual roses should not remain undisturbed more than seven or eight years when they should either be replaced with young two-year-old stock or carefully lifted, placed over a chopping block, and all the thick fiberless roots removed with a sharp hatchet. Roses treated in this way are in many cases as good as younger stock. Care should be taken not to treat all in one season, as hybrids give very poor results the first season after being planted.

Roses grown for cutting or exhibition purposes should be disbudded, leaving only the strongest bud on each shoot, which is generally the center one. And where roses are grown especially for exhibition the small weakly shoots may be removed at an early stage; although the latter is seldom necessary where the operation of pruning has been perfectly performed in early Spring, for in that operation no wood should be left that is likely to throw up a weak growth.

List of Varieties.

The following are varieties that I have found worthy of a place in any collection. I will not try to describe their colors in shades as I will probably get confused. I might here make a suggestion for that energetic body of men, The American Rose Society, of which one of our esteemed members is ex-vice-president, to take up, and see if a standard color chart could not be produced. I think it would aid compilers of catalogues in describing varieties in a more satisfactory form to

their patrons, for with this color question left to the masses we get various descriptions of the same roses. This is not to be much wondered at, as we very often get three and more shades of color harmoniously blended in one bloom.

White—Frau Karl Druschki, Margaret Dickson, Merveille de Lyon, Mabel Morrison, Jules Finger, White Baroness, Merveille de Blanchés, Helen Paul and Clio may also be classed among the whites.

Pink—Mrs. John Laing, Mrs. R. B. Sharman-Crawford, Mrs. Frank Cant, Mme. Gabriel Luizet, Pride of Waltham, Robert Duncan, Paul Neyron, Paul's Early Blush, Marguerite De St. Amande, Marchioness Dufferin, Laurence Allen, Jennie Dickson, Ellen Drew, Magna Charta, Abel Grande, Alphonse Souper, Baronne Prevost, Baroness Rothschild, Duchess of Edinburgh, Francois Michelon, Jules Margottin, Mme. Eugene Verdier, Duchess of Fife, Duchess de Vallombrosa, Dupuy Jamain, Duchess of York, Mme. George Paul, Marquis de Castellane, Mrs. Cockey and Mrs. Harkness.

Red and other shades—Ulrich Brunner, Jubilee, John Hopper, Jean Liabaud, Jean Souper, John Bright, Lady Helen Stuart, Longfellow, Lord Macaulay, Lord Frederick Cavendish, Mme. Ferdinand Jamin, Eugene Verdier, Louis van Houtte, Horace Vernet, Grand Mogul, Gloire de Margottin, Gloire de l'Exposition de Bruxelles, Earl of Dufferin, Earl of Pembroke, Eclair, Exposition de Brie, General Jacqueminot, Fisher Holmes, Prince Camille de Rohan, Paul Verdier, Paul Jamain, Pierre Notting, Mrs. Jowitz, Mrs. Harry Turner, Star of Waltham, Victor Hugo, Victor Verdier, Tom Wood, Waltham Standard, Mlle. Annie Wood, Marie Baumann, Marie Rady, Maurice Bernardin, Mlle. Suzanne, Marie Rodocanachi, Mme. Charles Wood, Mme. Lelievre Delaplace, Duke of Connaught, Duke of Edinburgh, Duke of Fife, Countess of Oxford, Charles Lefebvre, Charles Lamb, Captain Haywood, Boh. Davison, Bruce Findlay, Ben Cant, Baroo de Bonstetten, Prince de Portio, Abel Carriere, Alfred Colomb, Anne de Diesbach, Charles Margottin, Eugene Furst, Francois Levat, and Marshall P. Wilder.

No collection of roses is complete without a few of the mosses. They require the same treatment as the hybrids. The following I have found the best: Common Moss, Crested Moss, Gracilis, Little Gem, Muscosa Japonica, Crimson Globe and Blanche Moreau.

For rose heds in prominent places I would recommend the following varieties: Pink and white Maman Cochet, Grace Darling, Viscountess Folkestone, Safrano, Hermosa, Gruss an Teplitz and the polyantha Baby Rambler.

A whole bed of one variety is always more effective than any attempt to mix them, and a suitable edging of sweet alyssum, verbenas, or any low growing continuous flowering plants will help show the roses off.

All decaying blooms should be frequently picked off and the plants should always be gone over after a heavy rain.

These roses, with the exception of Baby Rambler, are either tea or hybrid tea, consequently are not so hardy as the hybrid perpetual, and should be extra well protected during Winter. They should not be pruned nearly so far back in Spring.

No class of rose has gained in popularity in the last fifteen years as the climbing rose. This I may say is due to the Crimson Rambler, which is now no stranger neither to the humble cottager nor the wealthy millionaire. But the Crimson Rambler may justly be credited with the stimulus created among hybridizers the results of whose work are now demonstrated by a vast variety of sterling merit, and the Yankee hybridizer deserves a goodly share of the credit.

For covering arbors, trellises, fences, pillars, or planting alongside of buildings and high walls in conjunction with other climbers, nothing is more effective than these Rambler roses. The best and hardest varieties are found in the Rambler, or polyantha class, although some of the Wichuraiana hybrids are extremely useful for this purpose. But some of the latter cannot be classed as hardy roses, many of them having too much tea blood in them to be able to stand our Winters. I have seen large plants of Gardenia, Jersey Beauty and Evergreen Gem completely killed in a moderate cold Winter. They are better adapted generally for covering banks and low projecting rocks. And when mixed with honeysuckle are extremely valuable for landscape work. The following are good varieties of Climbing roses: Dorothy Perkins, Lady Gay, Dawson, Leuchstern, Psyche, Crimson Rambler, Sweetheart, Debutante, Lynch's Hybrid, and White Wichuraiana.

Pillars and various shaped trellises may be covered with roses in the front and rear yards of the small cottages, and many of the strongest growing hybrid perpetual varieties as well as the so-called pillar rose may be used for this purpose. Some of the best are Baltimore Belle, Queen of the Prairie, Gem of the Prairies, General Jacqueminot, Mme. Plantier, Magna Charta, Marshall P. Wilder and Carmine Pillar.

Climbing and pillar roses must not be cut far back in Spring, but the oldest wood should be cut out occasionally and this is best done just after the flowering period, taking care that you have a good young growth from the bottom for every old one you cut out. All that will be necessary in Spring will be to cut back to suit the space desired to be covered.

Some varieties of roses may be used for hedges, but I think there are other plants that adapt themselves better to this work than the rose. The best rose for this work is the hybrid China, Mme. Plantier, although some of the Austrian, of which Persian Yellow is the best, may also be used.

Rosa rugosa can vie with the best of flowering shrubs for ornamental mass planting; Alba and Rosea are the best. These should also be cut well back in Spring and induced to throw up strong shoots from the heel.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unequalled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO. Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Insect Pests.

The rose like all other good things in floriculture has its bug enemies. White scale or rose scale, is often troublesome on climbing, pillar, or standard roses; where the wood is over a year old it is generally worst. A thorough spraying with Pratt's Scalecide, one portion scalecide to twenty of water, applied with a fine nozzle in late Fall or early Spring, will kill this pest. Caterpillars must be carefully guarded against. I generally find one application of powdered hellebore sufficient to keep these pests in check. This should be applied about the 20th of May. The best way is to use it in liquid form, one tablespoonful of hellebore to fourteen quarts of water, sprayed on in the afternoon of a bright dry day. One should not wait until reminded by the half-eaten leaves before using hellebore, as the caterpillars are sure to visit the plants about the time I have stated.

Another great enemy of the rose is a little white thrips, but this insect seldom attacks roses in the open garden. However, look out for your climbers on buildings, or pillar roses, if any way shaded by trees. I find strong applications of tobacco water the best for keeping this thrips in check, but generally the application has to be repeated at intervals throughout the season, commencing about the 10th of May.

Aphis is sometimes troublesome; tobacco dust, applied late in the evening, is the surest remedy for aphis.

But, gentlemen, the worst of all bugs that we have seen in late years is the genuine rose bug that devours the finished product and has vexed all admirers of the rose along this section of the Hudson River for the last two years. I have seen arbors of roses with the blooms literally covered with these bugs, and scarcely one perfect bloom free from its ravages. Killing by hand seems to be the only way to destroy this pest, but even this plan gives small satisfaction, for we are unable to save our blooms. If I could prescribe a remedy to eradicate this pest, this paper would have been at least worth the ink that has been spilled upon it.



Hedge of Madame Plantier Roses

Photo by John F. Johnston.

New York.

News of the Week.

The next meeting of the New York Florists' Club takes place on Monday evening, April 8, and is to be a ladies' night. This means, of course, that the house committee are making the usual elaborate preparations, and we can assure all ladies who attend this gathering that they will have a most pleasant evening. In addition to the entertainment provided for the ladies, it is expected that some of the members who attended the recent meeting and exhibition of the American Rose Society, held in Washington, D. C., will have something to say regarding their experiences and impressions gathered while there.

The weather has been decidedly cooler ever since Sunday evening, and all cut flowers are being much benefited thereby.

It is in the general order of things to expect a lively season of trade from now on to the beginning of May. There are many weddings and other social events to come off, and retailers will no doubt experience quite a busy time for the next few weeks. Stock in general has been so scarce and high-priced during the winter months that it is within all reason to expect that from now on there will be an unusually heavy supply of all seasonable flowers, and as that will mean a corresponding decrease in wholesale values, it should give the retailers an opportunity to recoup somewhat from the uphill business they had to contend with during the few months of scarcity and high prices.

Peter Beurlein has resigned from the position he has held as assessor in the tax department of Long Island City. Mr. Beurlein has for 16 years held that office. Before the township of Newtown was merged in Greater New York, he was elected assessor for Newtown and held the office for seven years, and for the nine years since Newtown became a part of Greater New York, he has held the office by appointment, with headquarters in Long Island City. Mr. Beurlein has been building more glass recently, and from now on he will devote all his time to his carnation business.

U. G. Scollay, who answers the heating problems in our question box department, is making rapid progress toward recovery, and his doctor thinks that in the course of two or three weeks or so Mr. Scollay will be able to resume his business duties again. He has been suffering from an internal tumor and not from appendicitis as has been previously stated.

The coast steamer Bermudian, which arrived from Bermuda on Easter Saturday, had only 250 boxes of cut lilies aboard. This is the smallest number of lilies that have arrived by steamer from Bermuda for Easter in a great many years. The fact of the festival being so early this year accounts for the shortage, as the lilies were not in full blossom early enough in the fields to make them available for the Easter trade.

Joseph Myrtle, described as a florist living at 30 Wilbur avenue, Dutch Kills, L. I., was shot recently while crossing a vacant lot at Sherman and Wilmer streets. He was wounded slightly in the right arm. Myrtle stated that while crossing the lot he saw three men, evidently Italians, talking together, and one of them called on him to stop, but instead of doing so, he broke into a run; then a shot was fired and the bullet hit him. He was taken to St. John's Hospital, and two of the three men were arrested by detectives and held in \$500 bail for a hearing later.

Rudolph Fischer, the well-known florist of Great Neck, L. I., will on May 1 move to Santa Anita, Cal., where he will make his permanent home and cultivate extensively his freesia Purity.

The monthly meeting of the Horticultural Society of New York will be held in the American Institute rooms, West Forty-fourth street, on Wednesday, April 10, at 4.20 p. m., and a discussion on "Plants for Shaded Gardens" will be introduced by Parker Thayer Barnes of the Garden Magazine. The annual exhibition of this society will be held in the Museum Building of the New York Botanical Garden on May 8 and 9. On May 8 the annual meeting of the society will also be held in the Museum Building, and G. T. Pow-

ell will speak on the subject of "Renovating an Old Orchard."

L. W. Wheeler, of Vaughan's Seed Store, has returned from a trip to Bermuda, where he has been inspecting the lily crop.

Fire broke out in the building in which is located the store of Traendly & Schenck, 44 West Twenty-eight street, a little after 12 o'clock on Tuesday night. The firemen after their arrival soon had the flames under control, and finally extinguished, when it was found that the tenants in the upper floor had suffered a loss of about \$3,000. Traendly & Schenck suffered little damage except that occasioned by water and some broken glass. The fire had evidently started on the second or third floor of the building, but its origin has not been determined.

Wm. C. Russell, for fourteen years superintendent of the Daheim estate, Millbrook, N. Y., and well known as an expert plantsman, has started in the florist business at the H. J. Smith greenhouses, Millbrook.

On Wednesday, April 3, Miss Katherine Olive, daughter of Chas. B. Weathered, greenhouse builder and engineer, was married to Norman J. Couder, at St. Michael's Church, Cranford, N. J. Miss Anita Weathered was her sister's maid of honor.

Chicago.

News of the Week.

John A. Evans, Richmond, Ind., was in town last week.

Clara Kirscht, seventy-two years of age and mother of ten children including the florists by that name in Niles Center where the deceased lived, died last week and was buried from her late residence on Saturday morning.

Although early in the season bulbous stock, probably owing to the scarcity of carnations and roses, brought for a considerable length of time higher prices than usual, the year as a whole has not proved profitable to some growers, who, as a result of the Easter slump, are confirmed in a previously formed intention of withdrawing from that field in the future.

Lilac from out of doors from Southern shipping points appeared in large quantities on Friday of last week. By referring to his books Percy Jones ascertained that the first outdoor lilac he received from the same sections last year was on April 21, which taken as a criterion would make the season fully three weeks ahead of last year.

Thirty-seven hundred and fifty pounds, well up to two tons, was the weight of the first shipment of roses and carnations, bulbous stock, etc., (lilies included) from the Poehlmann Brothers' greenhouses to the city salesroom last Friday morning.

H. B. Beatty accompanied J. C. Vaughan to this city from Pittsburg, arriving last week Friday and remaining until Easter Sunday.

A meeting of the executive committee of the Horticultural Society of Chicago was called for Wednesday afternoon of last week at the store of P. J. Hauswirth but, lacking a quorum, was postponed.

Louisiana strawberries arrived in the Chicago market in quantities a month earlier than usual; Mississippi narcissi were shipped to our wholesale florists three weeks in advance of the last year's record, which in itself was some weeks ahead of any predecessor. A telegram reached here last week from New Orleans stating that ripe peaches were being gathered in Plaquemine parish months ahead of time owing to the warmest March weather ever recorded anchored in this neighborhood about March 23, all of which form pretty positive evidence of the precocity of the season.

Peonies in this vicinity were seen last Sunday several inches high, and commission men report that inquiries regarding the crop are already coming in.

This Easter was assuredly a retailer's festival, as the purchasing price was favorable to them and the further reports that are coming in make more emphatic the favorable accounts which were circulated earlier. Later reports such as, "largest ever," "fifty per cent. increase," "twice," and even, "three times as much as last year," were common on the street early this week.

The Winterson Seed Company reports a satisfactory, in fact, encouraging plant business for its opening week and commenced on Monday to open up a carload of box plants and trees.

Carl Cropp reports a very heavy de-

mand for gladiolus Princeps, so heavy indeed that the stock is exhausted.

Vaughan's West Market Seed Store has been compelled to make a change by the improvement of West Randolph street in the Haymarket district, and has removed from 206-S to 202 West Randolph street, where they have a first floor store and four large lofts, occupying the whole of the notable Masonic building at the Southwest corner of West Randolph and Halstead streets.

The Kennicott Brothers' Company commenced moving on Thursday from their recent location, the building having been obtained by Marshall Field interests, to 48 and 50 Wabash avenue.

William La Hayn of Chesterton, Ind., was a recent visitor.

The greenhouse of Mike Smith, a former policeman, but now a vegetable grower at Ridge and Farwell avenues, Rogers Park, was partly destroyed by fire between one and two o'clock Sunday morning, entailing a loss in the neighborhood of \$1,000. Mr. Smith is the grower made famous by Chief of Police Collins' stories regarding the former's extraordinary success as a mushroom culturist.

Frank Pisternick of the Wienhoeber Company staff was compelled to withdraw from active duty at a critical time in the middle of last week, owing to the appearance of blood poisoning in his left arm. At this writing he is making favorable progress.

Mr. Washburn, who is among the best at statistics, estimates that there was nearly fifty per cent. more stock handled by Chicago houses than at any previous Easter, but owing to low prices the returns would not foot up to over a ten per cent. increase. One hundred thousand lilies is his estimate of the number passing through the wholesalers' hands.

The express companies caused not a little hard feeling and inconvenience by starting in at one of the busiest days in the year to enforce the rule to make no collections after six o'clock.

Paul A. Stover of the Lincoln Park Greenhouse staff has the sympathy of many friends in the loss of his daughter Lillie, who died quite suddenly on Saturday last.

George Reinberg, after rebuilding some of his old houses, will erect a new range north of his last year's addition, which will be devoted entirely to miscellaneous stock, including Asparagus Sprengeri and plumosus, smilax and orchids in half a dozen of the favorite commercial varieties. A new departure for this section on a large scale. As previously stated carnations will be abandoned and his entire place, except as above stated, will be devoted to roses.

Florists' Club meeting and smoker next Thursday evening at 8 o'clock.

WILLIAM K. WOOD.

Philadelphia.

News Items.

Pennock Brothers have started this week opening their store at 8 a. m., instead of 7 a. m.; the last year they closed at 7 p. m., instead of 8 p. m. and as business increased, they have decided to still to with another hour less, believing that they can do just as much business in the shorter hours.

Fred Ehret, 1405 Fairmount avenue, had a horse stolen on Saturday. He sent a man out with horse and wagon to deliver plants; the man sold the plants, pocketed the money, left the wagon and harness in the street and sold the horse. The horse was recovered, but the man has gone.

Florists' Club Meeting.

There was a very good attendance at the club meeting on Tuesday evening. The paper read by Paul F. Reichner, of Henry F. Michell Company on "Bulbs," dealt chiefly with lilies, giving some of the methods used by growers who each year raise these flowers for Easter. The essayist suggested that florists generally select too small a bulb; more 7 to 9 would be better than the 5 to 7 size. He also suggested that economy in space and time could be gained by using cold storage bulbs which can be brought in in 12 weeks. He also dwelt on florists making selections as to varieties of hyacinths and tulips for forcing. For instance, many still adhere each year to varieties that shoot their spikes; as soon as the flower spike appears ready to get out of the leaves it is found broken off. Also in tulips many continue to order the Pottbakker varie-

ties, the red one of which is a very poor forer.

Westcott's Laurel Hill Nurseries had on exhibition the new Spiraea Queen Alexandra, the flower spikes being carried high above the foliage; the color of the flower is a delicate pink. This variety is being sent out by Van Wayeren and Kruijff of Holland. B. D. Kepleyn of that firm being present, gave a very interesting talk, stating that this new spiraea was a cross between a Lemoine variety and S. chinensis and remarked that to get the color good the plants should be shaded when showing color. He also gave some information as to the reason for the scarcity of some varieties of bulbs. Tulips like Vermilion Scarlet produce but few bulbets each year and these take four years to grow before they can be offered for forcing. Murillo, on the other hand, produces small bulbets freely, and they make perfect bulbs in one year. He also stated that most florists afforded too much water after the spikes appear; keep the plants moist, but do not deluge them with water.

The Florists' Gnu Club has tendered the use of its grounds at Wissinoming, to the sports committee of our club for use during the convention next August.

After the club meeting the members enjoyed refreshments, generously tendered by George Burton, in celebration of his winning the Lord & Burnham silver cup for American Beauty at the American Rose Society's show in Washington, the cup now being his property. DAVID RUST.

Washington.

Club Meeting.

The Washington Florists' Club held its regular monthly meeting April 2. It was expected that this meeting would finally dispose of all matters pertaining to the convention, but it was found necessary to let the matter lie over until another session, in order to render full and accurate account. Secretary McCauley read a letter from Edward A. Beaven, Evergreen, Ala., in which that gentleman returned the check sent him in payment for the wild smilax to decorate the hall, saying the pleasure was "all his." Wm. Weber, Oakland, Md., also returned with thanks the check which the club had sent him in payment for services as one of the judges of the show. In each case a unanimous vote of thanks was given, and the secretary requested to acknowledge same. Z. D. Blackstone, vice-president of the club, likewise returned the check for the \$25 prize, which he had taken for his mantel decoration. David Bisset also declined to accept his prize of \$6 for violets. In each of these cases a vote of thanks from the club was given. George C. Shaffer, chairman of the decorative committee which did the work of the banquet hall, was congratulated by the club and President Bisset upon the very able and efficient manner in which his duties had been performed. President Bisset stated that the hall was acknowledged by many to be one of the most beautiful ever seen. Professor Webber, formerly of the local branch of the Department of Agriculture, but now located in Boston, was made an honorary member. Fred D. Owen, who has for some time been connected with Public Buildings and Grounds here, and who originally laid out the landscape work of the flats, has written the Florists' Club inviting their co-operation with him and the civic government in making Washington more the "city beautiful."

G. H. Cook had the \$50 silver cup, which he had offered for 50 blooms of best Richmond roses, and which was won by Wm. H. Elliott, Brighton, Mass. Mr. Cooke was endeavoring to decide on the best inscription, and as soon as the work is done the cup will be forwarded to the winner.

The next meeting will be held on May 7. We are always glad to have any of our out-of-town brother tradesmen present at these meetings, and to receive from them a few leaves from their experience book.

JAS. L. CARRERY.

TOLEDO, O.—Miss C. B. Flick, of Fort Wayne, Ind., has sold her store here to Miss Helen F. Patten. It is now known as the Patten Flower Store.

SHARON, PA.—John Murchie has opened a flower store here.

ASPARAGUS

Robustus, best for pots, pans and vases. Sprenger, extra fine stock. Plumosa, supply limited. \$6.00 per 100, well worth eight or ten. Send ten cents for sample.

CARNATIONS

The Queen, \$12.50 per 1000. Nelson Fisher, \$15.00 per 1000. Last of April delivery subject to their rooting. The Queen, \$10.00 per 1000. Nelson Fisher, \$12.50 per 1000. Bountiful, \$15.00 per 1000. Enchantress, \$15.00 per 1000. J. E. Haines, \$25.00 per 1000. 100 at thousand rates.

GERANIUMS

Rooted cuttings only, ready about April 15th. at the uniform price of \$1.50 per 100, or \$10.00 per 1000. S. A. Nutt, Perkins, Vlaud, Buchner Poitvine, L. Francis, Castollano, Ricard.

ALBERT M. HERR, Lancaster, Pa.

Miscellaneous Stock---Surplus

ASPARAGUS SPRENGERI, 2 1/2 in., \$2.50 per 100. ANTHERICUM VIVATUM VARIEGATUM, \$3.00 per 100. BEGONIA VULCAN and VERNON, 2 in. ready for shift, \$2.50 per 100. HARDY PINKS, 2 in. in variety, \$2.50 per 100. GLOXINIA BULBS, Separate colors, \$4.00 per 100. CANNAS---Chas. Henderson, David Harum, Mills. Berat, Shenandoah, Italla, Duke of Marlborough, Pres. Carnot, 2 and 3 eye pieces, \$2.00 per 100, \$17.00 per 1000. (See catalog No. 5 for complete list.) ROSES---Strong young plants of Clotilde Soupert, Champion Climbing Soupert, Empress China, Golden Gate, Grusa An Tepnitz, Meteor-Mosella, Papa Gontier, Safrano, \$3.00 per 100, \$25.00 per 1000. CARNATIONS---Fair Maid, Mrs. Lawson, The Queen, Queen Louise, Boston Market, from flats of soil, \$2.50 per 100.

The STORRS & HARRISON CO., PAINESVILLE, OHIO.

GERANIUMS

ROOTED CUTTINGS S. A. Nutt, Buchner, and Doyle, \$10.00 per 1000. Ricard, Poitvine, Vlaud, and Castellano, \$1.50 per 100. Cash with order.

PETER BROWN, Lancaster, Pa.

For Immediate Delivery

PLUMOSUS, 2 1/2 in., \$3.00 per 100 4 in., 10.00 Bridesmaid, Golden Gate, Ivory, Kalsorin, Bride, 2 in., \$3.00 per 100; \$25.00 per 1000. MUMS, General Nonin, 2 1/2 in. pots, \$3.00 per 100 " " R. C. 2.00 " " Mrs. G. A. Lotze, fine com. white, 5.00 per doz.; \$25.00 per 100. Mrs. Geo. Truffett 2.00 " " Beatrice May \$10.00 per 100. Morton F. Plant 1.00 " " Mrs. John E. Dunne .75 " " General Hutton .75 " " Mrs. D. V. West .75 " " Ivory, Kalb, Willow Brook, Jerome Jones Queen, Nellie Pickett, Robinson, Ben Wells, Glory of the Pacific, John K. Shaw, Chalmersin, Dr. Enguehard, Wm. Duckham, Ralfour, Helen Frick, Quita, Cobbold, Bonsson, Halliday, Appleton, H. A. Psarr, G. T. Baer, Brutus, Edgar Sanders, rooted cuttings, \$1.50 per 100; 2 in. pots, \$2.00 per 100.

THE FLORISTS' EXCHANGE, St. Paul & Franklin Sts., BALTIMORE, Md.

PETUNIA "THE QUEEN"

This is something new in the PETUNIA order, a new double, extra fine, that requires no staking, 2 1/2 in. pots, \$1.60 per doz.; \$10.00 per 100. COLEUS, Golden Bedder, and other varieties, rooted cuttings, 60c. per 100; \$5.00 per 1000. FUCHSIAS, in variety, 2 1/2 in. pots, \$3.00 per 100; R. C., \$1.50 per 100. HELIOTROPE, in variety, 2 1/2 in. pots, fine, \$2.50 per 100; R. C., \$1.00 per 100. SWEET ALYSSUM, 2 1/2 in. pots, fine, \$2.00 per 100. Capt. of Snows, 2 1/2 in. pots, fine, \$2.00 per 100. Little Gem, \$2.00 per 100. LOBELIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.00 per 100. AGERATUM, in variety, \$1.60 per 100; R. C., 80c. per 100. ROSE GERANIUM, 2 1/2 in. pots, \$2.00 per 100. HAPPY THOUGHT GERANIUM, \$2.00 per 100. GERMAN IVY, R. C., \$1.50 per 100. ENGLISH IVY, R. C., \$1.60 per 100. SALVIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.60 per 100. ALTERNANTHERAS, R. C., 80c. per 100. Cash with order.

J. E. FELTHOUSEN, 154 Van Vranken Ave. SCHENECTADY, N. Y.

MOON VINE

Ipomoea Multiflora, (A. W. Smith, originator), best pure white, largest and most fragrant moon vine in the world. We have made a specialty of it for the past 15 years, and are known as the moon vine growers of America. Grow 20,000 of them, 2 1-2 in. pots, \$5.00 per 100; now ready. Cash with order, please. All goods must travel at purchaser's risk only.

GODFREY ASCHMANN,

Importer and Wholesale Grower of Pot Plants. 1012 Ontario St., Philadelphia, Pa

LILY OF THE VALLEY, in pans, planted only to order, 6c. Boxwood, \$1 per pair; Pyramid, \$2.50, \$3, \$4, \$5, \$6, \$8 and \$10 per pair. Gloxinias, in bud now, very fine plants, \$2.00 per doz. Asparagus Robustus, 2 1/2 in. pots, \$1 per doz.; \$8 per 100. Asparagus Plumosus, 2 1/2 in. pots, \$5 per 100. ANTON SCHULTHEIS, 19th Street and 4th Ave. College Point, N. Y.

GERANIUMS for bedding out. Ready May 10th. WM. J. CHINNICK, Trenton, N. J.

VERBENAS 60 Finest Varieties Perfectly Healthy

Rooted Cuttings. Our selection.....\$0.75 per 100 \$6.00 per 1000 Plants. \$2.50 per 100 \$20.00 per 1000 Rooted Cuttings. Purchaser's selection..... .90 per 100 8.00 per 1000 Plants. 3.00 per 100 25.00 per 1000

CARNATIONS Choice Rooted Cuttings Free from Disease.

Rohit, Cralo, My Maryland, Jessica. Price \$6.00 per 100; \$50.00 per 1000. Criss, Lady Bountiful, Enchantress. Price \$3.00 per 100; \$25.00 per 1000. Mrs. M. A. Daffen, Judge Minsdale. Price \$2.50 per 100; \$20.00 per 1000. Mrs. Thos. Lawson. Price \$2.00 per 100; \$17.50 per 1000. Golden Beauty, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000. Mrs. E. A. Nelson, Dorothy, Wm. Scott, Ethel Crocker, Eldorado, Mrs. Joost, Portia. Price \$1.50 per 100; \$12.00 per 1000.

COLEUS The Best for Bedding

Verschaffeltii, Golden Bedder, Firebrand, Gluck Auf. Mixed varieties, fine rooted cuttings. Price \$0.75 per 100; \$6.00 per 1000.

GRAFTED ROSES The Finest and Best Crown

Liberty, Richmond, La France, Killarney, rose pots, \$15.00 per 100; 3 1/2 in. pots, \$18.00 per 100. Bride, Bridesmaid, Golden Gate, Kalsorin, rose pots, \$10.00 per 100; 3 1/2 in. pots, \$15.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

GERANIUMS 100 10 varieties, 3-3 1/2 in. pots, my selection \$5.00 ALTERNANTHERAS, red and yellow 2.00 PANSY plants, in bud 1.50 ASPARAGUS PLUMOSUS, 2 1/2 in. pots 2.00 ASPARAGUS SPRENGERI 2.00 ASPARAGUS PLUMOSUS seed, new crop, \$2.50 per 1000. COLEUS 100 10 varieties, 2-2 1/2 in. pots..... 2.00 CANNAS, May 1, from pots 5.00 PETUNIAS, from double seed .. 3.00 VINCA, variegated 2.00 VERBERNAS 2.00

CASH JOS. H. CUNNINGHAM, Delaware, O.

5000 GERANIUMS

Large, out of 3 1/2 inch pots. NUTT, DOYLE, POITVINE, RICARD, BUCHNER, \$6.00 per 100; \$50.00 per 1000. 500 variegated VINCA, large plants from field, \$10.00 per 100. These are bargains. Write at once. Cash with order.

STEPHAN CHASE, NASHUA, N. H.

Ivy English, 2 to 3 1/2 ft., one to three branches per 100, \$12.50. Asparagus Plumosus, 2 1/2 in., per 100, \$4.00; A. Sprenger, per 100, \$3.00; 3 1/2 in., per 100, \$6.00. Boston Ferns, from pots and bench.

Write for Prices. THOMAS STOCK, 251 Minor Street, Dorchester, Mass.

GERANIUMS Rooted in sand, then pot grown a month. Sent partly free of Soil.

Dbl. Grant, Buchner, Poitvine, Ricard, Perkins, Nutt, Doyle, and three fine new. Bargain prices. COLEUS Venenit, G. Bedder, and only very brightest. Fancy, 20 kinds, mixed, well rooted, 100, 60c., 1000, \$6.00 Giant, many kinds, finest of all Coleus, 80c. per 100. GLADIOLI Groff's Hybrids, blooming size, 60c. per 100. SAGE, Ball of Fire, R. C., 50c. per 100. Choice Pansies Alternanthera. Soil plants, Rug and Imp. P. M., 100, 80c. Yellow, 100, 90c.--Nothing by mail. DANIEL K. HERR, Lancaster, Pa.

GERANIUMS

S. A. Nutt, single and double Grant, strong, 2 1/2 in., \$2.50 per 100; \$20.00 per 1000. Colour, rooted cuttings, 75c. per 100; \$6.00 per 1000. Alternanthera, Aurea Nana, Patryochoides Brilliantissima, R. C. from soil, 75c. per 100; \$6.00 per 1000. Achyranthos, R. C., three kinds, \$6.00 per 1000. Canna Rhea, dry, Souv. d'Antoine Orozy, Alphonse Bouvier, \$2.00 per 100; \$18.00 per 1000. Cash with order. Jos. Ambacher, West End, N. J.

PLANT CULTURE PRICE \$1.00 A. T. DE LA MARE PTG. & PUB. CO., 2 Duane Street, New York

Davenport, Ia.

The Tri-City Florists held a meeting on March 21 at Fejervary Park and elected their officers for the ensuing year as follows: President, William Knees; vice-president for Davenport, Henry Pauli; vice-president for Rock Island, Henry Myer; vice-president for Moline, Julius Staack; treasurer, Adolph Arp; secretary, John Staack; financial secretary, Theodore L. Ewoldt; trustees, P. Becker, Frank Wolz and Henry Gaethje. The topic for discussion was "Beautifying City Lots and School Grounds." The discussion brought out many interesting features and facts, among which was that Davenport is a considerable distance behind Rock Island and Moline in the decoration of its lots and school grounds.

Plans were also discussed for the forming of a horticultural society. The object of the society would be to give displays regularly which would include every branch of the florist's work. Such an organization is badly needed in Davenport and it is thought more definite plans will be made in the near future. After the business meeting a social time was enjoyed and refreshments were served in the Inn. The next meeting will be held at Fejervary Park April 11.

Govanstown, Md.

The establishment of Isaac Moss at this place is one of the most complete of the many plant and cut flower growing establishments in the vicinity of Baltimore. The ride to Govanstown by electric car is not over twenty-five minutes from the business or central portion of Baltimore. Further out still Mr. Moss has quite a nursery where evergreens as well as a full line of nursery stock are grown. Here he also has a range of glass devoted principally to carnations where most of the newer varieties are seen. It is of the place at Govanstown your correspondent desires particularly to speak. Here is one of the finest commercial greenhouses possibly to be found in the State. It is of the Lord & Burnham construction, on the ridge and furrow plan, and gives a clear space on the inside of 180x76 feet. The entire floor space is laid out in solid beds with about two-foot walks between. Each bed is planted in a different variety of roses, principally Golden Gate, Bridesmaid, Ivory, Killarney and Richmond. Another bed was devoted to carnations, one to callas and longiflorum lilies and one to miscellaneous stock. The house is light and airy and is attractive on the outside as well as the inside, and is a credit to the enterprise of Mr. Moss who, by the necessary push and business acumen was able to erect such a handsome addition to his already large plant. W. C. Price is foreman for Mr. Moss and takes pride in his well-filled houses of valuable stock, all in the best condition. J. M.

Fishkill Landing, N. Y.

By prompt action on the part of workmen what would otherwise have been a serious fire in Hammond's Paint Works was averted on Thursday afternoon of last week. A pot of wax, used for lining barrels and kegs, was being melted in the Slug Shot grinding room, which has a cement floor, and in which there is no inflammable material. This vessel with several pounds of wax suddenly flashed fire, throwing a flame up to the ceiling. The blaze was quickly extinguished before any harm had been done.

Mr. Hammond has offered a cash prize of \$50 to the street commissioner of either village, Fishkill Landing or Matteawan, who puts the streets and crosswalks of the village under his care into the most tidy condition and so keeps them during the year. A committee of citizens will be appointed who shall pass judgment upon the results and the commissioner showing the best work to have the prize, and with the prize shall go a suitable certificate of honorable mention, which the street overseers may have as a testimonial of winning the said prize.

SCRANTON, PA.—The next regular monthly meeting and contest of the Seranton Florists' Club will be held on the evening of April 19, in Guernsey Hall. Besides the monthly contest and the regular business to be transacted, it is likely that the question of holding a chrysanthemum show in this city some time in the Fall of the present year will be brought up.

10,000 FERNS YOU MUST HAVE

Boston, 4 in. 16c.; 3 in. 8c.; 2 1/2 in. 3c.
Pierston, 4 in. 15c.; 3 in. 8c.; 2 1/2 in. 3c.
Scottill, 4 in. 16c.; 3 in. 8c.; 2 1/2 in. 4c.
Harrowall, 4 in. 20c.; 3 in. 12c.

Also 10,000 potted Cannas 4c.
3000 Ampelopsis Vetchil, pot grown, dormant, long tops, \$4.00
2000 Clematis Paniculate, 1 year old, pot grown, \$4.00
1000 Clematis Jackmanii, 2 year old, field grown, \$2.50 per dozen.
1000 English Ivy, 3/4 in. pot grown, heavy long tops, \$5.00 per 100.
3000 Vinca Major, variegated, 2 1/2 in. pot plants, \$2.50
1000 Eranthis, strong roots, \$4.00
500 Eranthis Radicans, variegated, 3/4 in. pots, \$4.00
1000 Hydrangea Otaksa, 3/4 in. pots, \$4.00 per 100.
2 1/2 in.
2000 Eranthis Punctata Grandiflora, 3 year old, \$2.00
2000 Madras Vine roots, \$5.00 per 100.
2000 Spirea Anthony Waterer, 3 year old, 6c.; 2 year, 4c.
500 Variegated Weigela and Yucca Filamentosa, 3 year old, \$4.00
500 Californian Privet, 5 ft., \$5.00 per 100; 2 1/2 to 3 ft., \$2.50 per 100; 12 to 18 in., \$1.00
1000 Helleborus Honeyuckle, 2 year old, 4.00
Baby Rambler, 2 year old, 5 in. pots, \$2.00
3000 Madras Vine roots, \$5.00 per 100.
1000 Stokesia Cynacea, pot grown, dormant, 3c.
500 Caladium Esculentum, 7x9, 5c.; 5x7, 3c.

BENJ. CONNELL, West Grove, Pa.

FERNS MY SPECIALTY

Please notice the big reductions. Cibotium Schiedel, the king of Ferns, well-known for its unequalled beauty and great keeping qualities.
Very easily grown:
3 in. pots \$2.00 per 100; 4 in. pots \$4.00 per 100; 5 in. pots \$6.00 per 100; 7 in. pots \$1.70 each.
Large specimens, \$5.00 each.
Adiantum Rhodophyllum, 4 in., \$2.00.
Assorted ferns for jardiniere, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate.
Fresh Fern Spores, Choice collection in 55 varieties, true to name, including all the best market sorts. 30c. per trade package; \$3.00 per doz.; \$12.00 for the whole collection. Write for list of varieties.

J. F. ANDERSON, Successor to Anderson & Christensen, SHORT HILLS, N. J.

WHITMAN FERN

Largest stock of strong plants, 2 1/2 inch pots, \$12.00 per 100. 4 inch pots \$25.00 per 100.

TARRYTOWN FERN
3 inch pots, \$ 8.00

SCOTTII
2 1/2 inch pots, \$ 5.00
4 inch pots, \$12.00

KENTIA FORSTERIANA
4 inch pots, made up, strong and bushy, \$25.00
5 inch pots, made up, strong and bushy, \$50.00
No order for less than 10 plants accepted.

CHAS. H. CAMPBELL, 3601 BERMANTOWN AVE., PHILA., PA

FERNS FERNS

We now have them in fine shape suitable for jardiniere, etc. \$3.00 per 100.
Boston or Scottill Ferns, 2 1/2 in., \$3.00 per 100; 4 in., \$12.00 per 100; 5 in., \$20.00 each.
Dracaena Indivisa, 6 in., \$5c. and 60c. each.
English Ivy, 4 in., \$10.00 per 100.
Kentia Bismoreans, 6 in., 60c. and 76c. each; 2 1/2 in., 10c.

H. WESTON. Hempstead, N. Y.

Adiantum Farleyense

The Very Best Only
5 in., 6 in., 7 in. pots—\$12.00, \$18.00 and \$24.00 per dozen.

JULIUS ROEHS COMPANY, Exotic Nurseries, Rutherford, N. J.

NEPHROLEPIS

Whitman, 2 1/2 in., \$10.00 per 100.
Boston, 2 1/2 in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass.

COLEUS

Golden Boddor and 15 Fancy Bedding varieties. R. C., 60c. per 100; \$5.00 per 1000.
Crimson Verschoffii, 75c. per 100; \$6.00 per 1000.
Colours, Giant Fancy Leaves, \$1.00 per 100.
Lobelia Compacta, blue, R. C., 60c. per 100; \$5.00 per 1000.
2 in. pots, \$1.50 per 100.
Fuchsias, 3 in. pots, \$4.00 per 100.
R. C., 2 in. 1.00 100
Heliotropes, Dark, 1.00 2.00
Vines, Variegated, 2.00 2.00
Verbena, Purple, Scarlet, White, 1.50 1.50
Ageratum, Pauline and Guiney, .75 1.50
Geraniums, 3 in. pots, \$4.00 per 100.

ERNEST HARRIS, DELANSON, N. Y.

FEVERFEW

Dwarf double, 2 in., 2c.
COLEUS, 3 inch, 2 cts.
SALVIA, Boufere, Splendens, 3 in., 2c.
ROOTED CUTTINGS, prepaid per 100.

FUCHSIA, 6 kinds, \$1.25.
AGERATUM, white, GURNEY, PAULINE, 60c.
VINCA VARIEGATA, 90c.
SALVIA BONFERE, SILVERSPOT, SPLENDENS, 90c.
ALTERNANTHERA, 3 kinds, 60c.
HELIO-TROPE, 3 kinds, \$1.00.
FLOWERING BEGONIAS, 3 kinds, \$1.25.
PARLOR IVY, 75c.
DOUBLE PETUNIAS, 10 kinds, \$1.00.
MUMS: TRANTOR, ALLIANCE, PACIFIC, CHELTONI, GOLDEN AGE, APPLETON, WELKS, SILVER WEDDING, \$1.25.
STEVIA SERATA, and VAREGATA, 60c.
COLEUS, 10 kinds 60c.
CUPHEA, 2 kinds 80c.

Seedlings, Dwarf and Tall, double stock. Antirrhinum, Grand White, pink and yellow, \$3.00 per 100.

BYER BROS. Chambersburg, Pa.

ENGLISH IVY

R. C., 75c.; 2 in., \$2.00.
BEX BEGONIA, 2 in., \$2.00; 4 in., \$3.00.
ASPARAGUS SPRENGERI, 2 in., \$2.00 per 100.
ABAUCHARIAS, 60c. and 75c. each.
CANNAS, Austria, \$1.50; America, \$1.50; D. Harum, \$2.00; Pennsylvania, \$1.50; K. Gray, \$3.00.
Marlborough, \$2.00; Italia, \$1.50; A. Bouvier, \$2.00; C. Henderson, \$2.00; Egandale, \$3.00 per 100.

J. H. DANN & SON, WESTFIELD, N. Y.

THE QUEEN

a wonderful bloomer; flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants in bud and bloom 2 1/2 in. pots \$10.00 per 100. Rooted cuttings will make fine plants for Decoration Day. \$5.00 per 100.

THE YATES FLORAL CO. Joseph Traudt, Prop. Canajoharie, N. Y. Scranton Florists Supply Co., Scranton, Pa.

SEED PANSY PLANTS

THE JENNINGS STRAIN
26,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, \$1.00 per 100; by express only. Second size, strong plants, 100 by mail, 60c; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00. Cash on order.

E. B. JENNINGS, Southport, Conn. Grower of the Finest Pansies

ALTERNANTHERA

50,000 plants in 2 in. pots. Paronychoides aurea, nana and versicolor at \$25.00 per 1000; 500 at 1000 rate. No order for less than 500. Ready for delivery May 1.

J. CONDON, Florist, 734 5th AVENUE, BROOKLYN, N. Y.

Cyclamen

Splendens Giganteum Hybrids
This strain has no equal or better, in live true colors, including fringed varieties, twice transplanted from flats \$3.00 per 100, \$25.00 per 1000, from 2 1/2 in. pots \$5.00 per 100, \$45.00 per 1000.

Asparagus Plumosus Nanus

From 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 3 1/2 in. pots \$8.00 per 100.

Cannas

Started from Sandbed in variety as McKinley, Queen Charlotte, Florence Vaughan, Chicago, Papa, Egandale, J. D. Cabos, Alphonse Bouvier good plants \$3.00 per 100 \$25.00 per 1000. Satisfaction Guaranteed.

PAUL MADER, East Stroudsburg, Pa

DRACAENA INDIVISA

Fine plants in 6 in. pots.

2-3 ft. high \$15.00 and \$25.00
SEASTA DAISY, 3 in. 3.00
MOON VINE, 2 in. 2.50
COBAEA SCANDENS, 2 in. 2.50
VINCA, variegated, 3 in., 12 in. high 4.00
MME. SALLEROI GERANIUMS, 3 in. 4.00
IVY GERANIUMS, 3 in. 4.00
PHLOX, dwarf cor-pacta, 2 in. 2.00
Trailing LANTANAS 3.00
Double PETUNIAS, fine plants, 4 in. 4.00

ROOTED CUTTINGS BY MAIL
Double PETUNIAS, Dreer's 1.25
HELIO-TROPE 1.00
Cash with order please

GEO. J. HUGHES, Berlin, N. J.

First Class Stock

200,000 Bedding plants. Dreer's superb single, fringed PETUNIAS, M. VERBENAS, SALVIAS, AGERATUM, LOBELIA, COLEUS, strong, 2 in., \$1.76 per 100; \$16.00 per 1000.
Standard GERANIUMS, extra strong branched, 3 in., \$4.00 per 1000.
DRACAENA INDIVISA, 6 in., \$2.00; 6 in., \$3.00; 3-4 ft., \$4.00 per doz.
Wanted some MME. SALLEROI GERANIUMS and VINCAS.
For sale, 60 Hotbed Sash, in good condition, \$1.25 each. Cash.

WM. S. HERZOG, MORRIS PLAINS, N. J.

200,000 PANSIES

SUPERB STRAIN. READY NOW.
Fine, large Fall Transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you have ever handled.
\$1.25 per 100; \$10.00 per 1000.
Cash with order.

LEONARD COUSINS, Jr. CONCORD JUNCTION, MASS.

Ferns a Specialty

BOSTON, 6 in. pots, 50c.; 7 in., \$1.00; 8 in., \$1.25; 9 in. pans, \$1.50 and \$2.00 each. From the bench, ready for 4 and 5 in. pots, \$10.00 and \$15.00 per 100.
CIBOTIUM SCHIEDEI, 6 in. pots, \$1.00 each.
ASSORTED FERNS for Jardiniere, good plants, 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

FRANK N. ESKESEN, Madison, N. J.

Baltimore, Md.

The Florists' Exchange has a handsome three-story building on the corner of Franklin and St. Paul streets, which is quite a monument to the enterprise of the florists of this city. It is a handsome structure of brick with elaborate stone trimmings, and columns that give the building quite an imposing appearance. As well the building affords the florists and gardeners of this city and vicinity a club room in keeping with many of the others of more elaborate pretensions.

The second floor and basement are occupied as a commission sales room and storage for all the surplus stock grown in the vicinity of this city. J. J. Perry is manager of this end of the business, and had well-filled tables of stock of all kinds for which there was a ready demand, it being Easter week. Bulbous stock seemed to be largely in preponderance, but there was also a large assortment of all other stock.

The entire floor upstairs is used as a club or meeting room and has a well-polished floor where the florists and their wives, and sweethearts may occasionally "shake their foot" as the occasion may demand. The hall is artistically finished and appurtenance with all the conveniences that a meeting place of this character requires.

J. M.

DAYTON, O.—Daytonians are gratified over the acquisition of the Montgomery County Fair Grounds for municipal park purposes, as proposed and practically arranged for. The Chamber of Commerce will probably indorse the purchase. J. B. Heiss, florist, suggests the conversion of the plot inside the race track into a public playground.

ADIANTUM FARLEYENSE

Good, thrifty stock, 3-4-5 in.

ROSES Grafted and Own Roots, Killarney, Richmond and Beauties.

POINSETTIA STOCK Strong plants from bench.

THORN HEDGE GREENHOUSES, NEWTOWN SQUARE, PA.

PALMS AND FERNS

Write for Price List.

The Geo. Wittbold Co. 1657 BUCKINGHAM PLACE CHICAGO

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.

Sander, St. Albans, England and 235 Broadway, Room 1, New York City

ORCHIDS

Arrived in fine condition. Cattleya Harrisoniae, C. Intermedia, C. Gigas, C. Trianae, Speciosissima, C. Leopoldii, Laelia Purpurata, Oncidium Varicosum, Rogersii, O. Marshallianum, Phalaenopsis Amabilis and P. Schilleriana. Write for prices.

LAGER & HURRELL, Summit, N. J. Growers and Importers

BROW MUSHROOMS

If you do not know how, procure that simple but complete and practical book called "How to Grow Mushrooms." The price is ten cents and it can be secured from this office. Special rates will be made to the trade who wish to supply their customers.

THE FLORISTS' EXCHANGE 2 Duane St., New York

THE FLORISTS' EXCHANGE

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER. The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc. For Sale or Rent. Our charge is 10 cts. per line 7 words to the line set solid, without display. No advt. accepted for less than thirty cents. Display advertisements in these columns, 15 cents per line; count 12 lines aged to the inch. [If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.] Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday. Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—As foreman, cut flowers a specialty, 27 years' experience, references, married; full particulars please. Address, K. E. Kanibak, Madison, N. J. SITUATION WANTED—As working foreman Roses, carnations, chrysanthemums. References. Married; full particulars and salary please. Address, F. F. Rentz, Summit, N. J. SITUATION WANTED—Competent grower of roses, carnations, etc. wants position on moderate sized up-to-date place where first-class stock is wanted. Address, H. S. C., care The Florists' Exchange. SITUATION WANTED—As working foreman. For the last sixteen years with the leading growers. References the best. Address, T. G. W., care The Florists' Exchange. SITUATION WANTED—By single, competent grower of roses, carnations and chrysanthemums. Can take charge of 50,000 ft. glass. References. Address, Florist, 253 West 14th Street, New York City. SITUATION WANTED—Working foreman, 20 years' experience in roses, carnations, chrysanthemums and general stock. Wholesale and retail. First-class references. Address, G. S., care The Florists' Exchange. SITUATION WANTED—By young man, 27 years of age, 13 years' experience in growing roses, carnations, chrysanthemums and ferns. 16 months in this country. Address, X, care The Florists' Exchange. SITUATION WANTED—Two men, one a gardener and florist, aged 28, with 14 years' experience, thoroughly competent; the other as a helper in greenhouses. Address, Bettak, 285 Avenue A, New York City. SITUATION WANTED—By young, single man, as assistant on large commercial place under a foreman, where roses are grown. Has references. Kindly state wages and all particulars. Address, G., care The Florists' Exchange. SITUATION WANTED—By young, single man, aged 23, grower of first-class roses, carnations and most general cut flowers and pot plants under glass. Strictly sober and able to take charge of up to 50,000 sq. ft. Address, F., care The Florists' Exchange. SITUATION WANTED—Advertiser desires to engage with responsible family or firm desiring an all around man. Life experience; state salary in replying. Finest references. Address, Stephanotis, care The Florists' Exchange. SITUATION WANTED—By gardener and florist on private or commercial place. Single, aged 38, experience of 14 years as grower. Sober, honest, willing; best of references. American. Please state wages, permanent, etc. H. A. Bradt, General Delivery, Albany, N. Y. SITUATION WANTED—Horticulturalist with long experience in orchids, palms and exotic plants; has been 5 years in tropical country, understands gardening in general; now at one of the well-known nurseries of New York State. Will give best of references in every detail; private place preferred. Address, A. P., care The Florists' Exchange. SITUATION WANTED—A thoroughly experienced Scotch gardener and florist desires situation in this country, commercial or private. An A. No. 1 grower of orchids, chrysanthemums and decorative foliage and flowering plants, fruit and forcing of bulbs, etc. First-class testimonials: aged 30, married, one child. Correspondence invited from up-to-date establishments. Address, Hortus, care The Florists' Exchange.

Thirty cents is the minimum charge for advertisements on this page.

HELP WANTED

WANTED—Two good men for rose sections; wages, \$12.00 per week. S. J. Reater, Westery, R. I. WANTED—A good man for general greenhouse work. Apply to Clinton Hill Greenhouses, 374 Clinton Avenue, Newark, N. J. WANTED—Good man for general greenhouse work. Steady position. Apply at once. Dummett & Wagner, Mount Vernon, N. Y. WANTED—A German gardener as assistant to foreman in greenhouses. Apply, M. Than, Bellona Avenue, Gowanstown, Md. WANTED—Two men, one for rose houses and one for carnation houses. Address, James Horan & Son, 1941 Fairfield Avenue, Bridgeport, Conn. WANTED—A good all-around florist for a downtown retail flower store in Chicago. Must come well recommended. Address, E. F., care The Florists' Exchange. WANTED—An active young man as assistant on rose growing place. Steady position; state wages. J. Henry Bartram, Lansdowne, Pa. WANTED—Second assistant for greenhouses and flower gardens on private place. Wages, \$48.00 per month. Address, T. Bell, Fairfield, Conn. WANTED—To correspond with good man, competent to take a florist business on small scale. Address, Box 93, Winchester, Tenn. WANTED—Single young man as assistant in rose houses, position permanent. State reference and wages desired. Thora Hedge Greenhouses, New Town Square, Pa. WANTED—Two good men for Rose houses to work under direction of foreman, wages \$50.00 per month, steady position, reference in first letter. Address A, care The Florists' Exchange. WANTED—Experienced man to work under the present where roses, carnations, chrysanthemums and potted plants are handled. Give full particulars and address. F. J. Dolansky, Lynn, Mass. WANTED—First-class florist and gardener. New Jersey. State qualifications, references and wages required. Address, Ashridge, care The Florists' Exchange. WANTED—Young man, intelligent and active, for packing department of first-class nursery. Address Thomas, Meahan & Sons, Inc., Box A, Germantown, Philadelphia, Pa. WANTED—Gardener, thoroughly experienced man for greenhouse and landscape work. Wages \$12.00. Apply, Peter Denyse, Jr., 79th street and 6th avenue, Brooklyn, N. Y. WANTED—At once, experienced man in growing general stock of bedding plants; also two good men with three to four years' experience for general greenhouse work. A. Stebbins, Watervliet, N. Y. WANTED—Two men, experienced in general stock, chrysanthemums and pot plants. Steady work; wages, \$12.00 per week to start. Address, D., care The Florists' Exchange. WANTED—A single man as assistant on range of glass where American Beauty's are grown chiefly. Wages, \$50.00 per month. Address G., care The Florists' Exchange. WANTED—A good outside man for landscape and jobbing. Good salary to the right party. Apply immediately to John Doughty, 200 Kimberly Avenue, New Haven, Conn. WANTED—At once, a man with experience in greenhouse work and outside flowers in Summer. Steady position; \$30.00 per month and board. Address, F. O. Box 266, East Hampton, Long Island, N. Y. WANTED—A working foreman on a commercial place. Grower of roses, carnations and chrysanthemums. Must be sober, honest, industrious and capable. Address, W. E. Gravett, East Wheellog, Lancaster, O. WANTED—Young man to work on pleasure grounds and kitchen garden, also around flower beds. Wages, \$25.00 per month, board and rooms. Apply, Thos. L. Talbot, Everside, Rhinecliff, N. Y. WANTED—An experienced rose grower, wages \$15.00 per month and one dollar for each full Sunday or full holiday worked, and twelve days vacation during the year. Answer, giving references, stating age, nationality and whether married or single to Benjamin Dorrance, Dorranstown, Penna. WANTED—For Western city, first-class experienced grower and forcer of blooming plants and bulbous stock for large retail trade. Must be good manager and show satisfactory record in same lines. Address, M., care The Florists' Exchange. WANTED—Reliable, willing, single man, competent to take charge of grounds and village; near trolley and station. Make garden, carné horse, cow, etc. Room, board, \$25.00 monthly. Lock Box 1744, Paterson, N. J. WANTED—Young man as assistant in greenhouse and flower garden on private place. Must have good references and experience in roses, carnations and bedding plants. \$30.00 per month with board. Address, W. Willis, Katonah, N. Y. WANTED—First-class working foreman to grow roses, carnations and some potted plants. Pay \$15.00 per week to start with, and \$75.00 a month after first month, satisfactory. Give full particulars and address, F. J. Dolansky, Lynn, Mass.

HELP WANTED

WANTED—An assistant in rose houses where American Beauty only are grown. A permanent position to the right man. Single man preferred. Address, Frank Wellan, care John Young Company, Bedford Station, N. Y. WANTED—All around man for greenhouse work, capable of doing all kinds of work connected with the growing of carnations, asters and bedding plants. State wages expected and experience in first letter. Paul E. Richwagen, Needham, Mass. WANTED—Capable working foreman near New York. Good grower of herbaceous as well as greenhouse stock. Married man preferred. Must be well recommended as to experience, habits, etc. Address, stating wages asked and reliable references, to E. D., care The Florists' Exchange. WANTED—Two good men who understand the filling of orders and picking of trees. Place open March 20. Wages will be good and expenses here and return home. Season will last two months, and if parties are satisfactory, permanent position will likely come to them. The Riverside Nursery Company, Condemne, Pa. WANTED—A temperate, willing man to care for the lawns, flower and vegetable gardens of a country place. No glass, and greenhouse experience not required. In writing, applicant will state wages expected of him with and without board, and enclose copy of references from former employers. C. W. Barsum, Lime Rock, Conn. WANTED—At once, an able-bodied, intelligent young man of good character to learn the florist business. An excellent opportunity of advancement for the right man. Carnations, violets and bedding plants. Must be able to drive and care for one horse. \$20.00 per month, room and board, to start. Send references in first letter. P. O. Box 108, Berwyn, Chester Co., Pa.

MISCELLANEOUS WANTS

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange. WANTED—to buy or exchange for any other stock, old plants of Aspidistras, both green and variegated. Siebrecht & Son, 425 Fifth Avenue, New York City. WANTED TO RENT—Greenhouses with option to buy. \$,000 to 10,000 sq. ft., in fair condition. Suitable for cut flowers. High grounds. Address, K. E. Kanibak, Madison, N. J. RARE OPPORTUNITY—For a florist to establish a good paying business; 16,000 inhabitants; one of the fastest growing towns in the State. The grounds are especially adapted for the business. Malo Ave., on line of trolley. Five minutes from station. White Plains, N. Y. For full particulars apply to Elmo Brown, 3 Court street, White Plains, N. Y.

FOR SALE OR RENT

FOR SALE CHEAP—Greenhouse, 3-4 span, 42x34,ypress, modern construction, 16-inch glass, Jarnee Ramage Paper Co., Monroe Bridge, Mass. FOR SALE—4 greenhouses, each 20 x 150 ft., fully stocked and in good repair; situated on corner property; also dwelling, windmill, sheds, etc. Address, G. T. Hoer, Flemington, N. J. TO LEASE OR FOR SALE—Nice rose house and two fern houses, heated with hot water and steam, 24,000 feet of glass; thirty miles from New York. Apply M. McMahon, South Nyack, N. Y. FOR RENT—In Upper Montclair, N. J., four greenhouses in good growing condition. Trolley passes the door. This is a splendid opportunity, as there is a good market in the vicinity for everything grown. Address, N. J., care The Florists' Exchange.

A Golden Opportunity

FOR SALE—A fully equipped mushroom plant containing 50,000 sq feet of beds, perfect heating system, everything in perfect running order, price \$15,000. Advertiser is going to devote himself exclusively to mushroom spawn business. Possession given at once. Convenient to best market. Products sold by yearly contract. Theo. Fabricius, Lincoln and Bryn Mawr Aves., Eowmanville, Chicago.

FOR SALE

Three Greenhouses, 150x30 feet, potting shed, 90x22 feet, boiler room, 30x23 feet, built about three years ago, practically new. Everything in complete working order and stocked. One acre of land; 3-4 of a mile from railroad station; 18 miles from New York City. Price, \$8,000.00. Terms reasonable. Apply to A. V. D. Snyder, Ridgewood, N. J. FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. The 50,000 sq. ft. standard feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilsting Machine. My business is thoroughly established; none through the season. Address, E. Hipperd, Youngstown, O.

STOCK FOR SALE

TURNER Red Raspberry plants, \$8.00 per 1000; \$25.00 per 5000. W. F. Allice, Salisbury, Md. VIRGINIA best early, Chesapeake best late Strawberries. Colored plates sod catalogue free. W. F. Allice, Salisbury, Md. DAHLIAS, 250 varieties of strong, field-grown roots; 25 named varieties for \$1.00. Catalogue free. C. Peirce, Dighton, Mass. STRAWBERRY plants, 90 best varieties, stock excellent. Ask for prices on what you want. 60 page catalogue free. W. F. Allice, Salisbury, Md. JAPAN IRIS (Iris Kaempferi), white, \$5.00 per 100; mixed, \$4.00 per 100. Good roots, not seedlings. Wm. F. Halsey, Southampton, N. Y. SPLENDID stock, large, 4 year old Barri's Mammoth Aspergus roots, suitable for forcing, \$6.00 per 1000; \$25.00 per 5000. W. F. Allice, Salisbury, Md. DEWBERRY plants, Austin's sod Loretta, \$5.00 per 1000; \$20.00 per 5000; Premo, \$6.00 per 1000; \$25.00 per 5000. Free catalogue. W. F. Allice, Salisbury, Md. BOSTON FERNS, beach grown, ready for 3-inch pots, \$4.00 per 100; \$35.00 per 1000; ready for 2-inch pots, \$3.00 per 100; \$30.00 per 1000. R. E. Gloede, Evansston, Ill. SURPLUS garden peas, 50 lbs.; Alaska, \$3.25 per bu., 40 lbs.; First and Best, \$2.00 per bu. New crop Northern Michigan grown; none better. W. F. Allice, Salisbury, Md. BARBERRY THUNBERGI, 2000 to 3000, 15 to 18 in. at \$40.00 per 1000, 2000 to 3000, 18 to 24 in., at \$50.00 per 1000. Address, Eureka Nurseries, Flat, N. Y. PANSY plants, transplanted, \$1.00 per 100; \$8.50 per 1000; seedlings, 50c per 100; \$3.00 per 1000. H. W. Buckbee, Rockford, Ill. ROSES, Bride, Bridesmaid, Ivory, 2 in. pots, thrifty plants, \$3.00 per 100; \$25.00 per 1000. Wm. E. Sands, Lake Roland, Baltimore, Md. FINE, stocky plants of Salvia Boaire, 40c per 100; \$3.00 per 1000. Ball of Fire and Scarlet Dragon, \$1.00 per 100. Cash. R. Powell, Florist, White Plains, N. Y. FOR SALE—About 5000 good stocky Geranium plants, in 3 1/2 in. pots. Must be sold at once. Write for information. Address, Wm. G. Grimm, Cedar Lane, Woodhaven, L. I. CHRYSANTHEMUMS, Japanese varieties, cream white, very large, 1000 R. C. \$1.50 per 100. Also 500 R. C. of Harlowarden carnations, \$1.50 per 100. Cash. W. H. Shumway, Berlin, Conn. CARNATIONS, Rose Pink Enchantress, now ready for shipment, rooted cuttings, \$7.00 per 100; \$60.00 per 1000. 1500 Fine plants from 2 1/2 in. pots, \$8.00 per 100. H. W. Buckbee, Rockford, Ill. BABY RAMBLER ROSES, fine dormant stock, one year, \$12.00 per 100; 2 1/4 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y. ROOTED CARNATION CUTTINGS. Queen Louise, white; Francis Joost, pink; Fair Maid, light pink; Challenger, scarlet; Earlwarden and Harry Penn, crimson, \$1.25 per 100; \$10.00 per 1000. Cash. Hansen and Lundeast, Passaic, N. J. CHRYSANTHEMUMS, rooted cuttings; white, Mrs. H. W. Buckbee, Majestic, Nellie Pocket, Guy Hamilton; pink, Cash, Monogram, Mrs. Barkley, Dr. Engeland; yellow, Col. D. Appleton, Cheltonia; Percy Plumridge, H. W. Buckbee, Cash and Monogram, \$4.00 per 100; all other varieties, \$2.00 per 100. H. W. Buckbee, Rockford, Ill. NEW BEDFORD, MASS.—Everyone reports a very satisfactory Easter trade. Prices were good, and stock quite plentiful. Potted plants were in most demand, lilies were rather scarce; 25c. a flower was the price asked, although one department store was advertising them at 18c. a flower. Tulips, daffodils, hyacinths in pots and azaleas sold well; there seemed to be a good supply of these. They ranged from 25c. to \$1.50 for pots of tulips and daffodils and \$1 to \$2 for azaleas. Violets were not quite so plentiful as expected; the two days before Easter being so warm caused a big loss in these flowers, many of them drying up. The prices varied a great deal, from 75c. up to \$2 per 100 was the price asked. Carnations ranged from 75c. to \$1.50 per dozen. Roses were not advanced much in prices. H. V. Sowle had a store downtown, and Saturday night the place was packed with buyers. R. H. Woodhouse had some fine double tulips in all colors, which sold well. H. J. John had a fine lot of his white seedling carnation blooms; \$2 per dozen was the price asked. Good weather prevailed for the delivery of orders. HORTICO.

FOR SALE

FOR SALE—Greenhouse material and hot bed sash, milled from Gulf Cypress to any detail furnished. Oxford putty, specially made for greenhouse and hotbed sash. V. E. Hech, 1429 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. KROESCHELL BROS. CO., 33 Erie St. Chicago

FOR SALE

BOILERS No. 6 Weathered, round, \$90.00. One section Sunray hot water sectional boiler, grate 3 by 3. Price \$150.00. New Henderson boilers; send for prices on sizes wanted. One No. 367 Lord & Burnham hot water boiler, 7 sections, 38 in. grate, heat 3,000 sq. ft. of glass, used one season, price \$150.00, guaranteed. PIPE Good serviceable second hand. No Junk with new threads. 2 in. 70.; 1 1/2 in. 65c.; 1 1/4 in. 40.; 1 in. 30.; 2 1/2 in. 10c.; 3 in. 14c.; 4 in. 18c. 4 in. cast iron greenhouse 14c. 2 in. NEW, standard, full length, 10c. ft. All kinds of fittings for 4 in. cast iron end all sizes wrought iron.

STOCKS AND DIES New Economy, easy working. No. 1 cuts 1/4 x 1 in. \$4.00; No. 2 cuts 1/4 x 1 1/2 in. \$4.00; No. 3 cuts 1/4 x 1 1/2 in. \$4.00; No. 4 cuts 1/4 x 1 1/2 in. \$4.00.

PIPE CUTTERS Sanders, No. 1 cuts to 1 in. \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed. 12 in., grips 2 in. \$1.50; 2 1/2 in., grips 2 1/2 in. \$2.25; 36 in., grips 3 1/2 in. \$4.50.

PIPE VISES Reed's Best Hinged Vise, No. 1 grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in., guaranteed; 90.: for heavy work, guaranteed; 125c.

HOT-BED SASH New; Oulf Cypress, 3 ft. x 8 ft. 80c.; glazed complete \$1.60 up. Second hand sash glazed \$1.00 and \$1.25, good condition.

GLASS New American, 60 ft. to the box. 10x12 single \$1.50. 10x12, 12x12 10x12 B double \$2.85. 12x14 12x20 and 14x14 to 14x20 B double \$2.85. 16x18 and 18x18 B double \$3.00. 18x20 to 18 x 24 double \$3.25 per box. 8x8, 8x10, 8x12, single \$1.60. 6 x 10 old, double \$1.65. 12 x 14 old, single \$1.75.

Get our prices on second hand wood material. We can furnish every thing in new material to erect any size house. Get our prices.

METROPOLITAN MATERIAL CO. Greenhouse Wreckers 1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

GERANIUMS in bud and bloom, fine stocky 4 inch Nutt, Doyle, Poitevine La Favorite, Jaullin, Perkins, \$3.00 per 100. Margareth Verbenas, 2 1/2 in. bud or bloom \$12.00 per 1000.

Pansies, extra fine plants, Bngnot's, Odier and Cassiers in bud, \$1.00 per 100. Roses, Clothide, Soupart, in bud and bloom 4 inch, \$10.00 per 100.

Salvia Splendens, 3 inch, \$3.00 per 100. HILL TOP GREENHOUSES 15-16 Gray Ave. Utica, N. Y.

LILIUM AURATUM 6 to 8 inches, \$4.00 per 100; 9 to 11 inches, \$5.00 per 100.

CINNAMON ROOTS \$1.00 per 100.

HYACINTHUS CANDICANS Large bulbs, \$1.00 per 100.

ZEPHYRANTHES Yellow, \$1.00 per 100.

V. H. HALLOCK & SON, QUEENS, N. Y.

Cincinnati, O.

I regret very much to announce the death of Miss Lulu Hoffmeister, sister of August, Mary and Carrie, who compose the firm of Hoffmeister Floral Company. Miss Lulu was a younger sister. The funeral services were held at the chapel at Spring Grove Cemetery at 2:30 p. m. Tuesday, April 2. The craft will join me in extending sympathy to the bereaved family. E. G. GILLET.

PLANT CULTURE PRICE, \$1.00.

The best book for the plant grower. A. T. DE LA MARE PTG. & PUB. CO. LTD 2-8 Duane St. New York.

Now nearing completion and to be issued by May 15

The Book of Water Gardening

Giving in Full Detail

All the practical information necessary to the selection, grouping and successful cultivation of aquatic and other plants required in the making of a Water Garden and its surroundings, and covering all conditions from that of the Amature with a single plant to the large estate or park.

Profusely illustrated with over one hundred photographs from life, diagrams and plans.

The author is PETER BISSET, of Washington, D. C., a well-known expert in this art.

Price, postpaid, \$2.50—Orders taken now.

A. T. De La Mare Ptg. & Pub. Co., Ltd. 2 Duane Street New York

Boston.

News Notes. On Saturday the last of the series of lectures of the Massachusetts Horticultural Society was given at Horticultural Hall by John K. M. L. Farquhar. His subject was "The Gardens of Italy" and a large number of people turned out to hear what Mr. Farquhar had to say on this interesting matter. Mr. Farquhar illustrated his lecture with many excellent views of fine gardens of which he had taken photographs when in Europe last Summer.

The enterprising firm of W. W. Rawson & Company will now deliver free within fifty miles of Boston all orders for seeds and bulbs, amounting to two dollars or over.

The executive committee of the New England Dahlia Society met at the office of the secretary on Wednesday when some important business was transacted relative to the dahlia exhibitions the coming season.

R. and J. Farquhar & Company exhibited at Horticultural Hall on Saturday an exceptionally well-grown specimen plant of the fine old-fashioned pelargonium Mme. Thibaut.

J. J. Grulleman, Jr., of J. J. Grulleman & Son, Lisse, Holland, was among the visitors this week; also J. Horace McFarland, Harrisburg, Pa.

Hermann Thiemann, one of the well-known gardeners of this section, leaves for Chicago at an early date where he is to take charge of an extensive estate and commercial range for Mr. Fahyan.

Robert Cameron of the Harvard Botanical Gardens lectured before the Houghton Horticultural Society of Lynn on "The West Indies" on Monday. J. W. DUNCAN.

St. Louis, Mo.

News Notes. Our visitors the past week included Miss Bell Miller of Springfield, Ill., looking over the market for her Easter supply; and J. J. Karins, the well-known salesman of Henry A. Dreer, Philadelphia. Mr. Karins reports that the plant and bulb trade was never better. He spent Easter Saturday and Sunday with us and found everybody busy, so he will stay a few days longer. The Foster Floral Company has decided not to open its new store at 612 Olive street, having obtained a year longer lease on the old location at Broadway and Olive streets.

Oscar Hurtlemann, the North St. Louis florist, had a wagon-load of fine blooming plants destroyed by fire the past week while driving along Grand avenue. It was caused by some one placing a burning cigar in the rear end of the wagon. Loss, \$50.

Adolph Brix reports that he has bought the Klockenkemper place in the North End, he having a lease on it

heretofore. H. Braun, his foreman, says that they will build two new houses this Spring.

H. J. Pilcher, the Kirkwood florist, helped out Mrs. Ayers at Easter, and says he never saw such a quantity of stock as sold this year. Mr. Pilcher is building up his new place and is daily receiving a large number of carnation cuttings for his new houses.

Mrs. Frank M. Ellis, wife of our former wholesaler, will leave this week to join her husband in Panama; she reports Frank doing well.

Among our local growers who will build new houses this Summer are J. F. Ammann at Edwardsville, one large house, 150x40 feet; Hugo Gross at Kirkwood, six new houses; Oakland Floral Company, East Kirkwood, Mo., two large houses; W. J. Pilcher, Kirkwood, three houses; Adolph Brix, two houses. There are also a few others whose names we are not able to learn at present.

The local parks and the Missouri Botanical Garden are ablaze with fine tulip beds of all colors. George Ostertag, the superintendent of parks, with a big force of men, is hard at work in all the local parks. Park Commissioner Aul reports that the parks are in better condition now than ever before, and the Mayor will not go amiss to re-appoint these two men when the new officers will be named this month.

All the local seed houses have all they can attend to at present. Mr. Nichols of the St. Louis Seed Company, and Mr. Schisler of the Schisler-Corneli Seed Company say they were never so busy as this year, and the double force at these houses is kept going until late at night putting up shipping orders and attending to the over the counter trade.

President Irish and the trustees of the St. Louis Florists' Club expect a large attendance at the April meeting on next Thursday afternoon. This is generally a busy month for the growers, but the annual rose show should attract their attention. The retailers, who will be over their rush, should come out and swell the attendance. The meeting will take place in the Burlington building at 2 o'clock.

Washington, D. C.

Easter Notes:

The florists of this city and vicinity were a busy lot of people for the past week. Ideal weather in a great measure served in the double capacity of giving ample facilities to display to the best advantage their well grown stocks, as well as to bring out in large numbers an army of enthusiastic plant and cut flower purchasers. This, too, for an early Easter where the weather conditions have in some instances greatly interfered with the handling of the increased trade at this season to the best advantage. One met everywhere evidences of the festival. In the hotel lobbies, restaurants, and everywhere that men and women congregate were to be seen Easter plants in large numbers.

Gude Brothers' Company store on F. street, N. W., was a sight that attracted the attention of all passers by. On either side of the store and stretched along in front of those of their neighbors were banked lilies, rhododendrons, azaleas, spiraeas, deutzias, hawthorns, lilacs, and some fine bougainvilleas. One fine plant of bougainvillea that stood fully eight feet high and was well in bloom occupied the position of honor in front of the store in a handsome mound, and was offered at the modest price of \$50.

The Washington Florists Company on the corner of Thirteenth and F. streets had a handsome display of azaleas, hydrangeas, and rhododendrons, not to mention the hundreds of lilies and smaller blooming plants.

The display of J. R. Freeman at 612 Thirteenth street was in keeping with that of the other growers. Several large azaleas, well flowered, four to five feet high, made a notable appearance. Hybrid roses in both bush and standard form were also seen, all well flowered and thrifty. Hydrangeas, rhododendrons, spiraeas and lilies were here also in large numbers.

N. Davis had an entire street corner and large basement to himself on F. street, N. W. He seemed to have disposed of a large amount of stock. He kept a well-trained brigade of bicycle boys continually on the move.

F. Kramer had at 915 F. street, as well as in the Central market, a fine display of all to be found at this season in a florist's stock. Prominent among his cut flowers were a few fine vases of his new rose Queen Beatrice, that were much admired.

The store of J. H. Small & Sons on Fourteenth and G. street was an emporium of all the requisites of the florist's art that might be required for either personal adornment or public display.

Henry Pfister and George H. Cook both hold forth on Connecticut avenue. Each had attractive displays where rhododendrons and bougainvilleas appeared to be most prominent.

It is in the Central market, however, that one sees the greatest display of all the smaller blooming plants. In a few of the larger displays pyramids of lilies reached almost to the ceiling of the market house. Here was also found bulbous stock in large quantities—hyacinths, tulips and narcissus in great preponderance—in addition to all the other stock. Among the florists having the largest showings in the market the names of Comley Brothers, J. R. Morgan, John Boyle, Frank Shultz, N. Studer, F. H. Kramer, Alex. B. Garden, Robert Bowdler, and the American Rose Company were most noticeable.

On the outside of the market were scores of smaller displays where daffodils, pansies, laurel branches, saxifras, and pussy willows could be had at prices to suit the very smallest purchaser.

Possibly one of the largest collection of orchids in this country where the plants are grown for cut blooms, is that of George Fields on Brightwood avenue. The sorts grown are such as from long experience prove the most profitable for the cut flower trade. About ten large houses are devoted to this collection, where the plants are so classified that to a great extent, but a few kinds are found in each house. The first house was devoted exclusively to cypripediums, still indispensable to the commercial grower. Here large, well-filled twelve to fourteen-inch pans could be counted by the hundreds. Each season a certain number of pans are taken and divided that a single season's growth gives again a well established plant. In this way the stock is on the increase annually, in very rapid proportions. The dendrobium house comes next, and presents a very handsome effect as many of the plants were in bloom. While many pretty varieties were to be found the old and always pretty D. nobile predominated to a considerable extent. Formosum and Fendleyanum were also in good cutting stage, as well as some nice plants of Wardianum. Of this variety Mr. Fields has a white that he is very proud of—Wardianum album; several plants developed from among an importation of the other varieties.

Two or more houses are devoted to cattleyas—many hundreds of well-established plants, most of them in large twelve-inch pans. Several benches run the entire length of the house and on each bench are found such well known kinds as Mossiae, gigas, labiata, Triane, and Mendell.

Another interesting house contained some three hundred plants of Vanda cœrulea in from six to twelve-inch pans. Oncidium splendens was also to be found in this collection, but not in as large proportion as the other orchids named. Taken as a whole there must be between eighteen to twenty thousand well-established plants in this collection.

Besides orchids Mr. Fields has eight houses of roses as a side line, but his orchids claim the greatest part of his attention and care. J. M.

Lenox, Mass.

The regular meeting of the Horticultural Society was held Saturday, March 16. President Heeremans in the chair. F. Heeremans was awarded a cultural certificate for a very fine vase of Richmond roses. A. McConnachie won the society's checker tournament, also the medal presented by H. A. Bunyard, New York.

At the next meeting on April 6, John K. M. L. Farquhar, Boston, will give a lecture, illustrated with stereopticon views on "The Gardens of Italy."

Robert Mackie, for four years foreman at Allen Windon Gardens, has been appointed superintendent to Charles L. Laurence, Esq., Bay Shore, Long Island. G. H. I.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties— Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

A. J. GUTTMAN, JOHN E. HAINES, BETHLEHEM, PA. The Wholesale Florist of New York. 43 WEST 28TH STREET.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock WINSOR and HELEN M. GOULD, \$12.00 per 100, \$100.00 per 1000. ROBERT CRAIG, VICTORY, HELEN GODDARD, \$8.00 per 100, \$50.00 per 1000. RED LAWSON and VARIEGATED LAWSON, \$4.00 per 100, \$30.00 per 1000. LADY BOUNTIFUL, NELSON FISHER, and ENCHANTRESS, \$3.00 per 100, \$25.00 per 1000. BOSTON MARKET, GENERAL MACED, MRS. T. W. LAWSON, PINK ARMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

Table with columns for variety names and prices per 100 and per 1000. Includes VERENAS, Ageratum, P. Pselite, Achyranthus, Coleus, Cuphea, Fuchsia, Everfew, Geraniums, Heliotrope, Ivy, Moon Vine, Salvia, Vinca, and CANNAS.

Strong Gormant Roots in 30 fine varieties \$2.00 and \$3.00 per 100; \$15.00 and \$25.00 per 1000.

WOOD BROS.

Rooted Carnation Cuttings

Table with columns for variety names and prices per 100 and per 1000. Includes White Perfection, Glendale, Victory, Robert Craig, Fiancee, Cardinal, Lady Bountiful.

ASPARAGUS. Ready for shift, strong. ASPARAGUS SPRENGERI. 3 inch \$4.00 per 100; 4 inch \$6.00, 5 inch \$20.00. ASPARAGUS PLUMOSUS. 3 inch \$5.00, 6 inch \$20.00. CASH or C. O. D. COLEUS. Assorted rooted cuttings, 60c. per 100; \$5.00 per 1000; 2 in. \$2.00 per 100.

W. J. & M. S. VESEY, Fort Wayne, Ind.

Advertisement for Baur Floral Co. featuring 'VISIBLE' and 'INVISIBLE' carnations. Includes a diagram of a carnation with a clip and text: 'SAVE YOUR SPLIT CARNATIONS'.

CARNATIONS

1000 Boston Market, 500 Flora Hill, 300 Queen Louise, 1000 Queen, 1000 Joost, at \$15.00 per 1000. 500 Elbon, 250 Flamingo, 400 Crane, 500 Dorothy, at \$2.00 per 100. 200 Candace, at \$4.00 per 100. 250 Mrs. Patten, at \$2.50 per 100. LOCUST STREET GREENHOUSES, J. H. Hutchinson, Prop. OXFORD, PA.

CARNATIONS

FINE, STRONG PLANTS Robert Craig, 1 1/4 in. pots, \$8.00 \$50.00. Variegated Lawson, 1 1/4 in. pots, 3.00 25.00. Victory, 1 1/4 in. pots, 6.00 50.00. ROBT. C. PYE, NYACK-ON-HUDSON, N. Y.

ASPARAGUS

Table with columns for variety names and prices per 100. Includes PLUMOSUS NANUS, SPRENGERI, and Grafted ROSES Own Roots.

Orders booked for early delivery. KILLARNEY, RICHMOND, JOE HILL, KAISERIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, FERLE, SUNRISE, SUNSET, etc.

MANETTI STOCKS

\$1.25 per 100; \$10.00 per 1000. CHRYSANTHEMUMS

A. J. BALFOUR, COL. D. APPLETON, DR. ENGUEHARD, GEO. KALB, MRS. MCARTHUR, MONROVIA, MRS. BARCLAY, MAUD DEAN, META, MISS ALICE BYRON, MRS. COOMBS, NAGOYA, OFAH, ROBT. HALLIDAY, SOLEIL, D'OCTOBER, SUPERBA, WM. DUCKHAM, Price, Rooted Cuttings, \$2. per 100; \$15. per 1000. AUTUMN GLORY, ADA SPALDING, CREMO, GULLINGFORD, DOROTHY DEVEN'S, GLORY PACIFIC, HARRY MAY, H. W. REIMAN, IVORY, J. E. LAGER, J. H. TROY, MRS. JEROME JONES, MINNIE WAINAMAKER, MRS. RAEB, MAJOR BONNAFON, MAJ. FRED. BERGMAN, NIVEUS, PINK IVORY, TIMOTHY EATON, W. H. LINCOLN, XENO. Price, Rooted cuttings, \$1.50 per 100. JEANNIE NONIN, \$2.50 per 100, \$20.00 per 1000.

Send for List. Fishkill, N. Y.

Rooted Carnation Cuttings

Table with columns for variety names and prices per 100 and per 1000. Includes The Belle, White Lawson, Enchantress, Nelson Fisher, Harry Fern, Mrs. T. W. Lawson, Boston Market.

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size.—Three to four inches in diameter when established. Odor.—Pleasing, but not strong. Stems.—Favorably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.—A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness.—Prodigious in the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. No discounts. First class certificates Madison and Indianapolis. Delivery Jan. 6th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD.

MABELLE--New Pink Carnation for 1907

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size.—Three to four inches in diameter when established. Odor.—Pleasing, but not strong. Stems.—Favorably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.—A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness.—Prodigious in the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. No discounts. First class certificates Madison and Indianapolis. Delivery Jan. 6th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

CARNATION CUTTINGS

FOR IMMEDIATE DELIVERY. White Perfection, \$6.00 per 100, \$50.00 per 1000. Victory, \$6.00 per 100, \$50.00 per 1000. B. Market, \$1.50 per 100, \$12.50 per 1000. Enchantress, \$2.50 per 100, \$20.00 per 1000. JENSEN & DEKEMA, 674 W. Foster Avenue CHICAGO, ILL.

S. J. GODDARD

Framingham, Mass. Rooted Carnation Cuttings a Specialty Correspondence Solicited Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

CARNATIONS

A Word About Varieties. Paper read by Robt. M. Schultz before Morris County Gardeners and Florists' Society, March 13, 1907.

Having had little experience with carnations and trying to ascertain the best varieties to grow for New York, I canvassed the market and noted the opinions of several wholesalers. We are now growing Mrs. Lawson, Enchantress, Queen and Victory, which, to my mind, is a good commercial combination and as I thought the poor man's varieties; but one morning my wholesaler said to me: "What makes Enchantress go to sleep so quickly, and why doesn't it hold its color?" "Why don't you grow a carnation like this?" holding up a bunch of Fair Maid. Looking them carefully over, I remarked the smallness of the flower and the color, being very good, and compared them with Enchantress. I thought Enchantress would bring twice the amount the salesman was getting for Fair Maid, but changed my mind when he pointed out the difference in keeping and shipping qualities, also its color. I saw both varieties that had been shipped two days previously by the one grower, and witnessed them sold to a retailer, who preferred Fair Maid for the reasons mentioned above. I must admit here, that Enchantress did show up in poor shape, while Fair Maid was fresh as if newly picked.

I just mention this incident to show that size of flower does not count if it hasn't the keeping and shipping qualities and color. Three different people spoke to me of this variety, and I believe it is worth a trial. They also mentioned Mrs. Frances Joost, Goethe, Abundance, Queen, and several other varieties of the smaller type and told me that these were the money-makers for Long Island and up-Hudson growers.

Now the question arises, Is there more profit in growing these small varieties than in novelties and fancy grades? Novelties and fancies embrace those varieties which are adapted for private gardeners and show purposes, but I do not think them profitable for a commercial grower. On the other hand, would the novelty and fancy grades, were they grown more extensively for market, show a balance on the right side of the ledger? This is a question open for discussion and I would like to see it thrashed out and opinions given by growers more able than I to handle the subject.

The ideal commercial carnation is the one that has size, color, stem, keeping and shipping qualities. Produce one with these attributes and you will win favor with the commercial grower as well as the private gardener. These are the ones the commercial grower should handle—the varieties that produce the greatest number of first-class flowers to the square foot.

Of the varieties in vogue there are some first-class ones to stick to, and of the new sorts of 1907 introduction, we have several presented to us which I believe will make good. We have pinks, reds and variegated kinds to choose from, but as yet the commercial man has not found his ideal white. However, from what I have seen and heard of late, I venture to say that the day is not far distant when we shall see several good whites disseminated.

The commercial value of the carnation is being felt more every year, and many growers have discarded and will discard roses, violets, etc., to take up and grow the "divine flower." Those growers who can handle novelties and fancy grades, and produce the goods, will no doubt be successful; but to the ordinary grower I say leave novelties and fancies alone. Stick to those from which you are sure of the best results.

A great mistake we growers make, is to purchase very small lots of the new introductions that strike our fancy, grow them in an off-handed way in some remote corner, and when we see we have a good thing, we say words to ourselves for not purchasing more and giving it a better chance. Where a money-maker is presented to you, take the time to look it up; go and see it growing, satisfy yourself as to its commercial value, and if it appeals to you as being the right thing stock a house with it. If it proves a bread-winner, under your culture, you will have plenty of stock to propagate from the following season. This purchasing of small lots is a great mistake. Regarding the temperatures that different varieties require, I do not feel competent to give the practical knowledge requested. I believe, though, such a table would be appreciated, were it compiled and printed in our trade papers.

CARNATIONS

Table with columns for variety names and prices per 100, per 1000, and from pots. Includes White Lawson, Bountiful, Cardinal, Enchantress, Lawson, Harlowden, Queen, Boston Market.

Cash with Order. Satisfaction guaranteed. SMITH & GANNETT Geneva, New York

LOOK HERE

ROOTED CARNATION CUTTINGS 250 at 1000 rate WHITE LAWSON, VARIEGATED LAWSON, \$3.00 per 100; \$25.00 per 1000. MRS. PATTEN, ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000. BOSTON MARKET, FAIR MAID, QUEEN LOUISE, HARLOWDEN, MRS. LAWSON, \$2.00 per 100; \$15.00 per 1000. BRIDES, BRIDESMAIDS, KILLARNEY, RICHMOND, own roots, 3 in., about last of April, \$6.00 per 100. GRAFTED ROSES, \$12.00 per 100. HELEN GODDARD, \$5.00 per 100. WILSON MARSHALL, Red Seedling, \$5.00 per 100; \$45.00 per 1000. JAMES E. BEACH, 2019 PARK AVENUE BRIDGEPORT, CONN.

CARNATIONS ROOTED CUTTINGS

Ready Now—Prompt Delivery. Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000. F. DORNER & SONS CO., La Fayette, Ind

White Enchantress

white sport of Enchantress, rooted cuttings \$12 per 100; \$100 per 1000. E. SCHRADER NEW SPRINGVILLE, Richmond Borough, N. Y.

ROOTED CUTTINGS

Table with columns for variety names and prices per 100 and per 1000. Includes WHITE-Queen, PINK-Pink Garden, Helen Goddard, Ethel Ward ready about Mar. 25, Harry Fern ready about April 1.

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Price \$6.00 per 100. \$50.00 per 1000. 43 W. 28th St. NEW YORK. Grower, LYNBROOK, L. I.

Aristocrat Beautiful cerise, ready for immediate delivery. \$12.00 per 100. \$100.00 per 1000. The variety nearly every florist will grow. Get your order in now and be in line.

White Perfection The best pure white carnation on the market. First class cuttings for immediate delivery. \$6.00 per 100. \$50.00 per 1000.

SEND FOR OUR LIST OF OTHER VARIETIES.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr. JOLIET, ILL.

Rooted Carnation Cuttings

	Per 100	Per 1000		Per 100	Per 1000
Mrs. Lawson	\$2.00	\$15.00	White Cloud	\$1.25	\$10.00
Guardian Angel	1.50	10.00	Fred Burki	2.50	20.00
Enchantress	2.50	20.00	Harlowarden	2.00	15.00
Lieut. Peary	3.00	25.00	Chicago	1.50	12.50
Boston Market	1.50	11.00	Estelle	2.00	15.00
			Red Sport (Maceo)	2.00	15.00

Roses from 2 1/2 inch pots

	Per 100	Per 1000		Per 100	Per 1000
Brides	\$3.00	\$25.00	Rosalind Orr English	4.00	30.00
Bridesmaids	3.00	25.00	Chateauy	\$3.00	\$25.00
Richmond	3.00	25.00	Uncle John	3.00	25.00

CHRYSANTHEMUMS

Rooted Cuttings from sand ready April 1st

White	Per 100
Estelle	\$2.00
Geo. S. Kalb	2.00
Mrs. Robinson	2.00
T. Eaton	2.50
Mayflower	2.00
Wanamaker	2.00

	Per 100	Per 1000
Ivory	\$2.50	\$20.00
Mrs. Swinburne	2.50	20.00
C. Touset	2.00	15.00
Mrs. Jerome Jones	3.00	25.00
W. H. Chadwick	3.00	25.00

	Per 100	Per 1000
Col. Appleton	\$2.00	\$15.00
Mrs. Geo. Beech	2.50	20.00
Roi d'Italia	2.00	15.00
Chas. Cronin	2.50	20.00
Percy Plumridge	2.00	15.00
Maj. Bonnaffon	2.00	15.00

	Per 100	Per 1000
Lady Harriet	\$2.00	\$15.00
Glory of Pacific	2.00	15.00
Wm. Duckham	2.00	15.00
Mrs. Perrin	2.00	15.00
Mrs. Mary Mann	2.50	20.00
Marie Liger	2.00	15.00
Monogram	2.00	15.00
Cash	2.00	15.00

WIETOR BROS., Wholesale Growers 51 Wabash Ave. CHICAGO of Cut Flowers

ROOTED CARNATIONS

WHITE PERFECTION, \$50.00 per 1000
LADY BOUNTIFUL, \$25.00 per 1000
ROBERT CRAIG, \$5.00 per 100

LARCHMONT NURSERIES, Larchmont, N.Y.

JOHN E. HAINES

The leading scarlet, lilliant color, fine stem, the most productive ever introduced, blooms early and thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place. ROOTED CUTTINGS, \$6.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

CARNATIONS

Rooted cuttings Victory, \$6.00 per 100; \$50.00 per 1000; Enchantress, Beautiful, White Lawson, Var. Lawson, Fatten, \$2.50 per 100; \$20.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Fenn, and Fair Maid, \$2.00 per 100; \$15.00 per 1000. 5 per cent. discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

WM. SWAYNE, Box 226, Kennett Square, Pa.

Chrysanthemums

WHITE.

Early—George S. Kalb, Polly Rose, Willowbrook.
Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka.
Late—Mrs. McArthur.

PINK.

Early—Glory of the Pacific.
Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, Ethelyn, A. J. Balfour, William H. Duckham, Dr. Enguehard.
Late—Maud Dean, The Harriott.

YELLOW.

Early—Monrovia.
Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham.
Late—Major Bonnaffon, H. W. Reiman.
Root Cuttings, \$2.00 per 100; \$16.00 per 1,000.

A.N. PIERSON, Cromwell, Conn.

Robert Craig Cuttings

FOR SALE

From soil or 2 in. pots, just ready for a shift into larger pots. They are in first-class health and condition. Price, \$6.00 per 100; \$50.00 per 1000.

VALLEY VIEW GREENHOUSES
VELIE BROS., Props. Marlborough, N. Y.

250,000 CHRYSANTHEMUMS

POLY ROSE, PINK PACIFIC, ROBINSON, WM. DUCKHAM, BONNAFFON, J. JONES.

Rooted Cuttings, \$1.25 per 100, \$10.00 per 1000.
MONROVIA, ALICE BYRON, CHELTONI, EATON, IVORY, APPLETON, DR. ENGUEHARD.

\$2.00 per 100, \$15.00 per 1000.
Healthy Stock. Enough said.

WM. BECKER, BOX 48, FARMINGDALE, L. I.

CHRYSANTHEMUMS

White Shaw, the very best second early 'Mum' takes place of Robinson. No grower should be without it. \$4.00 per 100, rooted cuttings; unrooted, \$2.00.

CARNATIONS

Mrs. W. T. Omwaka (Enchantress Sport), Pink Patten and Mikado, \$4.00 per 100, rooted cuttings; \$2.00 per 100, unrooted. CASH.

HENRY EICHHOLZ, Waynesboro, Pa.

CHRYSANTHEMUMS CARNATIONS and ROSES

Novelties and all the standard varieties. MOSCHOSMA RIPARIUM, a valuable new Christmas flowering plant. Write for descriptive circular and price list.

CHARLES H. TOTTY, Madison, N. J.

Looking for a good, late, Yellow MUM?

Invest in

GOLDEN DOME

There is nothing to equal it. Stock ready now. \$35.00 per 100; \$5.00 per dozen.

S.S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa.

CHRYSANTHEMUMS

Bonnaffon, Ivory, Appleton, Enguehard, Robinson, 2 1/4 in., \$2.00 per 100; \$17.50 per 1000. SALVIA and HELIOTROPE, 2 1/4 in., \$2.00 per 100. DORMANT CANNAS, named varieties, \$2.50 per 100; assorted, \$1.50 per 100. Cash with order please.

W. H. PARSIL, R. F. D. Chatham, N. J.

FOR A SHORT TIME ONLY. Chrysanthemums, strong, rooted cuttings, per 100, \$1.00; per 1000, \$10.00; 2 1/2 in. pots, per 100, \$1.50. These are Glory of the Pacific and Polly Rose in mixture. Heliotrope, R. C., per 100, 75c; 2 1/2 in. pots, per 100, \$1.75; unrooted cuttings, per 100, 35c. Cash with order please.

PATERSON ROSE CO., Paterson, N. J.

A Few Good Things You Want

Cash with Order.
Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100.
Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.

Geraniums, S. A. Nutt, John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellane, Poitevine and Viaud, 2 in. pots, \$3.00 per 100.

Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100 Boston Ferns, 5 in., 30c. each.
Vinca Var, 2 in., \$2.00 per 100.

Gladiolus, blooming bulbs, extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.

Primula Obconica, 3 in. in bloom, \$5.00 per 100. Heliotrope; Coleus, red and yellow; Cigar Plants; Verbena; Scarlet Sage, 2 in. \$2.00 per 100.

Cash with order: no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.; properly packed in good order.
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THE EASTER TRADE OF 1907

The reports which follow, received from the larger cities, indicate that the Easter business of 1907 has been in general most satisfactory. The weather with the exception of that experienced in the Northwest, where frost occurred, was propitious, necessitating but little wrapping of stock, with consequent saving of time and labor.

It was again a plant Easter, although cut flowers were also in active demand. Azaleas seem to have been the almost universal favorites, but there was also a large call for lily plants, shortages of which are reported from some centers. Spiraeas, hydrangeas, rhododendrons, lilacs, Crimson Rambler and h. p. roses, bulbous flowers, geraniums, etc., all had their admirers, and it is noticeable that acacias and genistas were more largely called for than in some former years at this season.

The very warm weather immediately preceding Easter brought in a plethora of cut stock, in many cases militating against its quality. In this respect bulbous flowers suffered considerably, much of this class of goods being unsalable. Complaints are also registered regarding the unsatisfactory condition of violets in some cities, and carnations were also reported to have been, in several instances, soft and sleepy. There were, in general, plenty of cut lilies and good prices were realized for these. The picking practice does not appear to have been so general this year.

Prices obtained for plants generally were about as usual; and no attempt was made to inflate cut flower values. The volume of business done exceeded that of last year by a considerable margin. No novelties are reported.

Easter, 1908, comes at a much later date than this year, namely, April 19.

NEW YORK.—In glancing briefly over the business conditions that prevailed in this city during Easter time, one is forcibly impressed with the low prices that were obtained for all kinds of cut flowers and also for a great many plants. This, of course, was not unexpected and cannot be wondered at, as never before was there such an enormous quantity of plants and flowers available for an Easter holiday, and any attempt to obtain prices above the normal would have been suicidal. While values were in the main below the ordinary, it was, taking it all round, a splendid Easter trade. The weather was all that could be desired and had been so all the week previous, making it possible for plants to be delivered without any wrapping, thereby obviating a great deal of work on the part of the growers. It did commence to rain on Easter Sunday evening; and this was followed by a snow-storm on Monday morning; happily, this was too late to affect business in any way and one shudders at the thought of what might have happened if this storm had arrived twenty-four hours earlier. We can say for once that florists were especially favored by weather conditions. It was reported that early in the week some enthusiasts in the district that supplies New York with flowers and plants, requesting that all get down on their knees and pray for fine weather; if this was so, and the recipients did as requested, the thanks of the florist community are certainly deserved by that gentleman.

While here and there were those in the trade who affirm that Easter business was unsatisfactory it goes without saying that taking the city as a whole and taking into consideration the large amount of stock available, the trade in general was most satisfactory. It is true that if it were possible to get a record of the gross amount of money spent on flowers in this city, we feel positive that the figures would show an enormous advance over those of any previous year.

Retailers throughout the city cleared up quite satisfactorily. The plants they had prepared for the occasion, and with the reasonable prices prevailing in cut flowers, they had a good business along that line also. In the wholesale market, when stores were closed on Sunday noon, it was apparent that quite a little stock remained in the ice-boxes of the dealers. At the same time, it must be remembered that with the seemingly never-ending supply of flowers that pours into the wholesale district at such a time as this, it would be an utter impossibility to sell out clean of every thing.

On Saturday morning the Cut Flower Exchange the scene there was one of the liveliest we ever remember seeing. There was an absolute plenty of every seasonable flower, including lilies. It seemed a sure fact that fine weather would prevail, and buyers were there by the hundreds picking out their stock and getting away with it as rapidly as possible. No attempt to inflate values was made; lilies were offered at 12c.; carnations at \$3 and \$4 per 100; narcissus and single tulips were sold at the rate of eight bunches for \$1; sweet peas at \$1.50 per dozen bunches and every seed to be enough stock for everybody.

On the floor below where are located the salesmen of some of the larger rose and carnation growers, it early became evident that supplies were extremely heavy. The Summit express had two large wagons loaded to their utmost, and we feel perfectly safe in saying that never before was such a number of American Beauty and Killarney roses seen at one time on this floor as was the

case last Saturday morning. While it had been rumored that American Beauty might reach the 40c. mark, no attempt was made to obtain that figure; 30c. each was the highest price asked and that was an outside one; many going at a price below that. The best Bride and Bridesmaid went at 8c. and 10c., with an occasional 12c. each for something of extraordinary quality. Contrary to the rule of last year, it was the short stock that was left after the business of the day was over, Number one and Number two roses not being in such good demand as were the extras and specials. Lilac did not clear out here, neither did lily of the valley.

The best carnations obtainable were sold at 8c. each; this means for novelties only. Of the ordinary varieties, even of fancy grades, \$5 per 100 was the outside price, and from this down to \$2 per 100 was the general run of carnation values all through the day.

Among the wholesale stores in Twenty-eighth and Twenty-ninth streets conditions about the same as were mentioned, there being an abundant supply of everything and no attempt made to advance prices over what had ruled the day before. While 30c. was the outside price on American Beauty, it must be remembered that lots of the same were sold at 25c. also, and in large numbers even at 20c. In addition to that there were many so-called special American Beauty that could not be classed with the best grades and had to be moved at a price below 20c. even. The stock was so plentiful that buyers were extremely picky, and anything below first-class quality had to be sacrificed if it was desired to move it at all. Bride and Bridesmaid roses went at 8c. and 10c. each for specials, down to 2c. for Number twos; in fact, some of the latter grade went as low as 1c. each in quantity, and there was an occasional sale at 12c. made for some of exceptional quality.

Carnations sold at from 6c. down, an occasional hundred touching the 8c. mark. We may also mention here, with respect to carnations, that there were a number of choice fancy varieties that went to sleep in the hands of the dealers, and on that account were entirely unsalable. It seems strange that such a thing as this could happen; at the same time it is a fact and one that is much to be deplored.

Of lilies there seemed to be enough for all demands, and while 15c., was the top ruling price, there were many sold at \$1.50 per dozen.

Sweet peas were extremely plentiful and no attempt whatever was made to advance prices. A great many being cleared out. Lily of the valley was a complete drug, and those who attempted to get over \$1 or \$2 per 100 had the stock on their hands, as it was absolutely impossible to obtain a price on this staple. Lilac was another hard proposition and unless offered at reasonable prices say around 75c. per bunch, it generally remained unsold.

The violet question was one that everybody was well prepared for. It was expected that the greatest crop on record would be in, and it was also on record what had happened at the violets on the Easter Sunday of 1906. At that time we are reasonably sure that when the business was over there were no fewer than 250,000 violets left in the hands of the dealers. With this incident in mind, dealers this year made no attempt to get fancy prices. For good, ordinary flowers no higher than 50c. per 100 was asked and for this grade of stock it may be said that prices ruled at from 30c. to 50c. per 100, depending solely on the number wanted by the buyer. If he wanted a few hundreds,

he would pay 50c.; if he wanted a few thousands, he could have them at 30c. The special grade of violets was consequently very scarce. There were very few boxes of these violets in, consequently those that had them were enabled to clear them out at a fairly reasonable figure—that is, 75c. per 100, with an occasional sale going slightly above that. Roughly estimating the number of violets that came in, we believe there were about two millions, and there would have been more if the growers in Rhinebeck had been able to get the flowers picked. It was very evident, also, from the stock as it came in, that the warm weather which had prevailed some seven or eight days preceding Easter, had had a very bad effect on the violet stock, for, as a general rule, the flowers available for this Easter were of a very poor quality, indeed, and much unsatisfactory comment is heard among dealers who handle them in quantities. Still it must be stated that on Sunday the violet was the scarcest flower in the market.

Orchids sold out very well; they were not so plentiful as was expected, at the same time those obtainable brought good prices. The same can be said of gardenias of good quality, though there were many of the latter that did not sell out satisfactorily on account of being short-stemmed and otherwise inferior.

Bulbous stock, particularly narcissus in variety and single tulips, there was a great plenty. Prices were kept down at about \$1 per 100, and while a great many were cleared out, some were left over on Sunday. The bulbous stock that came up from the South was absolutely worthless when it arrived; evidently the heat had been too much for the successful shipping of these particular consignments.

The plant trade of the city was eminently satisfactory to growers, and we believe to retailers also. As is well known the city authorities allowed the plant peddlers the use of the side-walk around the park on Union square on Easter Saturday, and almost by daylight on that morning the little park was completely encircled by the offerings of these merchants. These peddlers had previously been to the triangular market at Canal and Washington streets, where the Jersey growers unload their products, and the growers had gone home early, having had little trouble in disposing of their plants. The Canal street market had to be run in the open as the inclosure had not been prepared to receive the tent under which the New Jersey growers have done business for the last few years. The tent is to be erected this week, however, and business there will be as usual under the canvas roof until the end of the season. We have been informed that this will be the last season that that spot of ground will be available for market purposes, as the city authorities have for it some other purpose in view. To get back to Union square where the peddlers had decorated the side-walk with their gorgeous azaleas, roses, hydrangeas, geraniums, spiraeas, etc., the place took on a very lively aspect early in the morning, and all classes and kinds of people were observed among the throngs. The "flushing" business being done throughout the day until the last plant had been disposed of.

As we said last week, the retailers were making elaborate preparations for Easter, and while there was little to be arranged, there was absolutely new in the plant line, there were many attractive arrangements, both as window displays and in combination boxes of plants. Among the prettiest trimming of plants noticed, we might mention some combinations seen at the store of J. W. Hauser, Fifty-sixth street and Madison avenue. The artist here had some very pretty blendings of ribbon and pot cover effects with Porto Rican mats, that were among the finest seen in the city. Myer, the florist at Fifty-eighth street and Madison avenue had a very tastefully arranged window in which were introduced boxes and nests of wicker-work made with the live pussy willow. George M. Stumpff of Fifty-eighth street and Fifth avenue went in chiefly for massive effects, showing large plants of azaleas, genistas, acacias and Rambler roses. J. Warrendorf, near Sixtieth street and Madison avenue, had for a window attraction a Rambler rose trained in the form of an automobile. The machine was of good-sized dimensions, there being room enough for a lay chauffeur and lady passenger, and considering the amount of twisting and tying that had been necessary to get the rose canes to conform to the shape of the vehicle, there was quite a goodly profusion of flowers. Another feature at this place was a miniature greenhouse filled with various flowering plants, the whole structure being about fifteen inches high, thirty inches long by eighteen inches wide, resting in a miniature garden with gravel walks, turf, etc., complete. We also observed an arrangement similar to that of the Fleischman store at Twenty-fifth street and Broadway. J. H.

Small & Sons, at their Broadway store, had one of the prettiest displays they ever had, and a collection of plants included all the choicest that the market afforded.

Taking it all in all through every department of the flower trade in this city, and at the same time realizing that here and there in spots business will not average up as good as last year, we have no hesitation in saying that the Easter trade of 1907 far exceeded in gross value that of any other previous Easter.

With the passing of Easter the market has been plentifully supplied with flowers, and prices are now about where they were one week ago. The cool wave that came in early in the week was most welcome indeed to flower handlers, and stock of all kinds is appearing to much better advantage than it did on Saturday and Sunday last. The consignments of bulbous flowers from the South are much better than those which arrived for the Easter trade. Violets have shortened up considerably, and slightly better prices are resulting. Mignonette was a glut all through and so remains. Lily of the valley is yet an unsatisfactory proposition and hard to dispose of.

American Beauty roses with long stems go anywhere from 10c. to 25c. each according to quality. Bride and Bridesmaid bring from 6c. down to 1c., including all grades. Carnations are selling at from 1c. to 3c., and there are more than enough at all times. Of lilies there is a regular supply on hand, and callas are plentiful. Narcissus are selling at from 20c. per 100 for Southern stock to \$1 per 100 for home-grown, and the market is glutted with them.

Smilax is not selling nearly so well as it did a week ago. Maidenhair fern and asparagus are moving fairly well.

Everything almost seems to be in full crop, and it would appear that for this season at least the high prices are over; at the same time we never know what a day will bring forth in this market.

NEWPORT, R. I.—As far as the demand for plants and flowers was concerned, Easter this year beat all former similar occasions, and had not lilies been very scarce it would have been the most profitable Easter on record for every florist in town. The shortage as well as the quality of the bulk of the lilies on sale cut a big hole in the net profits of the greater number of the dealers in Newport. Lilies were as usual, first choice, and sold at 25c. per bloom, the same as last year. White hyacinths in pans came next and went readily at \$1 in 6-inch pans; there were not enough to meet the demand. Blue hyacinths were in much larger supply which ought not to have been the case, but they had to go, and on Saturday evening they too brought \$1 each. Azaleas in 7-inch pots went rapidly at \$1.50; spiraeas and genistas in 6-inch pots at \$1 each. Deutzias were more in demand than usual and sold at the same price as spiraeas. A novelty for Newport was shown by Gibson Brothers in the shape of cacia pubescens in fine shape in 8-inch pots. They brought \$5 each. Hydrangeas, Baby Rambler and Crimson Rambler roses were features of the display at Zeigler's, who also had some good hybrid perpetual roses in pots; they all sold well. Genistas were rather neglected until a late hour, but they moved finally.

Cut flowers of every kind sold at high figures Saturday evening. Roses were scarce especially Bride. Carnations were also scarce toward the finish especially Enchantress, which was the favorite. Violets cost 2c. each; callas 25c. per flower. Small and medium azalea plants sold more readily than the larger-sized plants. Tips were rather slow in moving until nothing else remained.

D. M. CINCINNATI.—Once more Easter has passed into history, but this time it had its peculiarities. The beginning of the week was so warm that growers could do nothing with their stock, and for four days (Monday, Tuesday, Wednesday and Thursday) the ash barrel was the commission man's best customer. The boxes would fairly steam when opened, and it certainly made one sorry to see such a loss—something never before known to the oldest florist. But on Friday the wheels commenced moving, the stock that arrived was fresher, and when Sunday noon was reached the sales had passed those of 1906. Tulips and narcissus filled the barrel to the greatest extent. Roses, the kind treated to the salt solution, also went there. The grower; this Easter is a heavy loser; still in the end he will pull out fairly well.

The growers in the Jabez Elliott flower market report a fine business. There was nothing new in the plant line. In cut flowers sweet peas sold well—that is, good ones. E. G. G.

April 6, 1907.

J. K. ALLEN
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Wholesale Prices of Cut Flowers, New York, April 3, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special....	10.00 to 20.00	inf'r grades, all colors	1.00 to 1.50
	" extra	8.00 to 10.00	White	1.50 to 2.00
	" No. 1	6.00 to 8.00	STANDARD Pink	1.50 to 2.00
	" No. 2	4.00 to 6.00	VARIETIES Red	1.50 to 2.00
	" No. 3	1.00 to 3.00	Yel. & Var.	1.50 to 2.00
	Bride, Maid fancy-special....	4.00 to 6.00	White	2.00 to 3.00
	" extra	3.00 to 4.00	*FANCY—Pink	2.00 to 3.00
	" No. 1	2.00 to 3.00	" grades of	2.00 to 3.00
	" No. 2	1.00 to 2.00	" standard var	2.00 to 3.00
	Golden Gate	2.00 to 8.00	" NOVELTIES	4.00 to 6.00
	RICHMOND	2.00 to 10.00	FREESIAS, per doz. bunches	1.00 to 1.50
	Mme. Abel Chateausy	2.00 to 8.00	GARDENIAS, per doz.	1.00 to 3.00
	ADIANTHUM	.50 to 1.00	LILAC, per bunch	.50 to .60
	CROWANUM	1.00 to 1.50	LILIES	10.00 to 12.00
	ASPARAGUS	25.00 to 50.00	LILY OF THE VALLEY	1.00 to 2.00
	Plumosus, bunches....	15.00 to 20.00	MIGNONETTE	1.00 to 4.00
	Sprengeri, bunches....	15.00 to 20.00	NARCISSUS, White	.25 to .50
	CALLIAS	8.00 to 10.00	" Yellow	.25 to 1.00
	CATLEYAS	40.00 to 60.00	ROMAN HYACINTHS	..... to
	CYPRIPEDIUMS	12.00 to 15.00	SMILAX	12.00 to 15.00
	DAISIES	1.00 to 3.00	SWEET PEAS, per doz. bunches	.50 to 1.00
			TULIPS	.50 to 2.00
			VIOLETS	.30 to .75

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THOMAS YOUNG Jr.
Wholesale Florist
43 West 28th Street, NEW YORK
Telephone, 4550 Madison Square
Consignments of Choice Flowers solicited

ST. LOUIS.—Easter trade was about the best the local florists have ever had. It was full of surprises on all sides. This Easter every retailer went heavy on plants and sales in these were better than ever before. Cut flowers, too, averaged considerably better than last year, with prices not so high. The uptown florists, who are in the fashionable district, made great window displays of fine blooming plants, which attracted the shoppers. Everything in the plant line sold well. Lilies sold out early as they were not any too many fine plants in the market. Other plants, such as azaleas, tulips, Dutch hyacinths, Crimson Rambler roses, Begonia Gloire de Lorraine and other high-class blooming plants, also sold well.
In cut flowers the trade was all that was expected. Everything sold out clean early Sunday at fairly good prices. The downtown stores, who rely mostly on cut flower sales, had fine window displays of all kinds of seasonal stock, and all report a heavy trade. So it can be safely said that we all had the best Easter in years. As for the cut flower market, the less said the better. The wholesalers were in all but good humor the early part of the week, and they say that never before did they have such a glut of everything as the early part of the past week brought. Stock, good and bad in all varieties and grades, went for a song only to slacken up Saturday when it was most needed. Then shipments became scarce and buyers very plentiful, and prices went up. Monday, Tuesday and Wednesday of the past week carnations sold at \$1.50 per 100. Roses, all kinds and grades, went at \$2 to \$3 per 100. Bulbous stock was mostly all dumped. Violets and sweet peas also went begging; so the wholesalers have little to say for this year's Easter trade. ST. PATRICK.

S. S. PENNOCK-MEEHAN Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA,
 STORE CLOSÉS AT 8 P.M. 1608 to 1618 LUDLOW STREET
 EASTER PLANTS, RIBBONS AND SUPPLIES

American Beauties, the best flowers coming to this city, \$30.00 to \$40.00 per 100.
Valley, finest ever offered, \$3.00 to \$4.00 per 100.
Richmond and Liberty Roses from prize winning stock.

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Fancy Carnations,
 Long Pink and White Peas,
 Fancy Maids and Brides

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W. E. McKISSICK,
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Wholesale Prices of Cut Flowers—Per 100

Boston Apr. 1, 1907	Buffalo Apr. 1, 1907	Detroit Mar. 1, 1907	Cincinnati April 1, 1907	Baltimore Mar. 25, 1907	NAMES AND VARIETIES	Milwaukee Mar. 7, 1907	Phil'delphia Apr. 2, 1907	Pittsburg Apr. 1, 1907	St. Louis Apr. 1, 1907
to 50.00	30.00 to 40.00	to 100.00	to	to 25.00	A. BEAUTY, fancy-special	to	to	25.00 to 35.00	30.00 to 40.00
20.00 to 40.00	20.00 to 30.00	to 80.00	to	to 15.00	" extra	to 25.00	to	15.00 to 20.00	15.00 to 25.00
10.00 to 20.00	5.00 to 20.00	to 70.00	to	to 4.00	" No. 1	15.00 to 18.00	to	8.00 to 10.00	10.00 to 12.00
1.00 to 10.00	1.00 to 10.00	20.00 to 30.00	to	to 8.00	Gulls and ordinary	4.00 to 8.00	to	4.00 to 5.00	5.00 to 8.00
to 12.00	8.00 to 10.00	6.00 to 15.00	to	to 10.00	BRIDE, 'MAID, fancy-special	to	to	to 12.00	8.00 to 10.00
8.00 to 10.00	6.00 to 8.00	to 8.00	to	to 8.00	" extra	to 18.00	to 20.00	to 12.00	8.00 to 10.00
4.00 to 8.00	4.00 to 6.00	to 4.00	to	to 6.00	" No. 1	to 8.00	to 12.00	to 8.00	10.00 to 12.00
1.00 to 4.00	3.00 to 6.00	to 2.00	to	to 3.00	" No. 2	to 5.00	to 8.00	to 6.00	6.00 to 8.00
to	to	to 2.00	to	to 4.00	GOLDEN GATE	to 4.00	to 6.00	to 4.00	to
to	to	to 2.00	to	to 5.00	K. A. VICTORIA	to 8.00	to 15.00	to 4.00	to 6.00
to	to	to 3.00	to	to 5.00	LIBERTY	to 4.00	to 10.00	to 4.00	to 6.00
to	to	to 3.00	to	to 5.00	METEOR	to 4.00	to 25.00	to	to
to	to	to 50.00	to	to 4.00	ROSES	to 4.00	to 6.00	to 4.00	to 6.00
to	to	to	to	to 3.00	ORCHIDS—Cattleyas	to	to 50.00	to 4.00	to 6.00
to	to	to	to	to 3.00	Interior grades, all colors	to	to 2.00	to 3.00	to 1.50
to	to	to	to	to 3.00	Standard White	to	to 3.00	to 4.00	to 2.00
to	to	to	to	to 3.00	Standard Pink	to 1.50	to 2.00	to 3.00	to 4.00
to	to	to	to	to 3.00	Standard Red	to	to 3.00	to 4.00	to 2.00
to	to	to	to	to 3.00	Standard Yellow and var.	to	to 3.00	to 4.00	to 2.00
to	to	to	to	to 3.00	Standard Yellow and var.	to	to 3.00	to 4.00	to 2.00
to	to	to	to	to 3.00	Fancy Pink	to 3.00	to 4.00	to 3.00	to 4.00
to	to	to	to	to 3.00	Fancy Red	to 3.00	to 4.00	to 3.00	to 4.00
to	to	to	to	to 3.00	Fancy Yellow and var.	to 3.00	to 4.00	to 3.00	to 4.00
to	to	to	to	to 3.00	Novelties	to 3.00	to 4.00	to 3.00	to 4.00
to	to	to	to	to 3.00	ADIANTUM	to 1.00	to 1.00	to	to
to	to	to	to	to 3.00	ASPARAGUS	to 20.00	to 30.00	to 50.00	to 50.00
to	to	to	to	to 30.00	Plum. and Ten	to 20.00	to 30.00	to 50.00	to 75.00
to	to	to	to	to 30.00	Sprengerl, bunches	to 10.00	to 12.60	to 12.50	to 15.00
to	to	to	to	to 75	CALLAS	to 7.50	to 1.50	to 3.00	to 2.50
to	to	to	to	to 18.00	DAISIES	to 15.00	to 18.00	to 15.00	to 15.00
to	to	to	to	to 3.00	LILIES	to 2.00	to 3.00	to 2.00	to 3.00
to	to	to	to	to 3.00	LILY OF THE VALLEY	to 2.00	to 3.00	to 3.00	to 4.00
to	to	to	to	to 25.00	MIGNONETTE, ordinary	to 4.00	to 8.00	to 5.00	to 6.00
to	to	to	to	to 25.00	" fancy	to 20.00	to 15.00	to 20.00	to 25.00
to	to	to	to	to 75	SMILAX	to .50	to .60	to 1.00	to .50
to	to	to	to	to 1.00	VIOLETS, ordinary	to .75	to .75	to 1.25	to .75
to	to	to	to	to	" fancy	to	to	to	to

BOSTON.—There was an extensive Easter trade in this city. Plants were by far the best selling stock of anything the dealers had. Lilies led the way by long odds and there was a great scarcity of them. By noon Saturday it was seen that lilies were short and many plants were pressed into service that otherwise would not have been fit to market for another week. Next to lilies came the ever popular azalea; these sold well, especially the larger sizes. Rambler roses followed closely; the pink sorts, like Dorothy Perkins, were popular. Crimson Ramblers were not up to the standard of former years—the flower trusses being much smaller than generally seen. Acacias and genistas all sold well and many fine plants were available.

Cut flowers kept up well in price all the week, but on Saturday morning there was a big slump, for all kinds of flowers poured into the market in quantities. The extremely warm day made matters worse and only small prices could be realized for very good grades of flowers. Cut lilies, like the pot plants, sold all out at good prices, although the average was \$15. Violets, ever popular at Easter, were selling very low; in fact 25c. was the price for very good flowers, although later on in the day they fetched from 35c. up to 75c. Carnations could be bought for \$3 and \$4, but some of the best grades brought \$5 and \$6 and even \$7 for fancy ones. Roses brought from \$1 up to \$12. There were some good American Beauty in the market; the best grades brought \$6 per dozen, a few extra fine, long-stemmed bringing even more. Sweet peas sold well at from 35c. to \$1. Eulubus stock was the most plentiful of all flowers, and it was hard to move at any price; much of this stock sold in quantities at \$8 and \$10 per 1000.
 J. W. D.

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 CITY HALL CUT FLOWER MARKET
 226 Devonshire Street.
 Kaiserin Carnations
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 Can furnish at short notice, Price according to quality of goods. Long Distance Telephone 6267 and 6268

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 And all kinds of Seasonable Flowers.
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 Choice Stock Always on Hand
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 CARNATIONS and Novelties in DECORATIVE PLANTS
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COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
 White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00.
 Bountiful. Per 100 \$2.75, per 1000 \$25.00.
 Enochstrass. Per 100 \$2.00, per 1000 \$18.00.
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Be your own Commission Man
THE FLOWER GROWERS' MARKET
 furnishes the facilities
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Wholesale Prices of Cut Flowers, Chicago, April 2d, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES	
American Beauty	
36-inch stems.....per doz.	.....to 4.00
80-inch stems.....	.....to 8.00
24-inch stems.....	.....to 2.50
20-inch stems.....	.....to 2.00
18-inch stems.....	.....to 1.50
12-inch stems.....	.....to .75
8-inch stems and shorts	.....to .50
Bride Maid, fancy special.....	8.00 to 10.00
" extra.....	.....to 6.00
" No. 1.....	.....to 5.00
" No. 2.....	2.00 to 4.00
Golden Gate.....	2.00 to 8.00
Uncle John.....	2.00 to 8.00
Liberty.....	2.00 to 8.00
Richmond.....	2.00 to 8.00
Killarney.....	2.00 to 8.00
" extra.....	10.00 to 12.00
Paris.....	2.00 to 8.00
Obstadey.....	2.00 to 8.00
Calias.....	5.00 to 10.00
HYACINTHS, Roman.....	.....to 2.00
Narc. Single Yellow.....	1.00 to 2.00
Tulips, White.....	2.00 to 3.00
" Yellow.....	2.00 to 3.00
Mignonette.....	2.00 to 6.00
FORET-ME-NEE.....	.50 to 1.00

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Orchids
 FANCY VALLEY, ROSES, CARNATIONS,
 and all CUT FLOWERS and GREENS
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The Old Reliable
CUT FLOWERS AND SUPPLIES
 76-78 Wabash Avenue, CHICAGO.

CARNATIONS	
STANDARD White.....	1.00 to 2.00
VARIETIES Pink.....	1.00 to 2.00
" Red.....	1.00 to 2.00
*FANCY Yellow & var.....	1.00 to 2.00
" White.....	2.00 to 3.00
" Pink.....	2.00 to 3.00
" Red.....	2.00 to 3.00
" Yellow & var.....	2.00 to 3.00
NOVELTIES.....	.....to
ADIANTHUM.....	.75 to 1.50
ASPARAGUS Plum & Ten.....	.85 to .50
" Sprangeri, bunches.....	.85 to .50
LILIES Longiflorum.....	12.00 to 18.00
HARRIS.....	12.00 to 18.00
Orchids—Oatleays.....	.....to 50.00
SMILAX.....	.....to 25.00
LILY OF THE VALLEY.....	2.00 to 3.00
VIOLETS.....	.20 to .50
LARRY FERNS per 1000.....	.....to 2.50
GALAX.....	1.00 to 1.25
JONQUILS.....	2.00 to 3.00
SWEET PEAS.....	50 to 1.00
SNAPDRAGON.....	4.00 to 8.00
.....	.....to
.....	.....to
.....	.....to

J. A. BUDLONG
 37-39 Randolph Street, CHICAGO.
 Wholesale
 Grower of **CUT FLOWERS**
 A Specialty.....

ST. PAUL, MINN.
 Send us your Orders for delivery in the
 Northwest, which will have our best
 attention.
L. L. MAY & CO.,
 Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.
 WHOLESALE FLORISTS
 and FLORISTS' SUPPLIES
 Manufacturers of WIRE DESIGNERS
 457 Milwaukee St., MILWAUKEE, WIS
 Phone, Main 874. P. O. Box 108

WHOLESALE CUT FLOWERS
 and FLORISTS' SUPPLIES
C. C. Polkworth Co.
 MILWAUKEE, WIS.

Your Money is well spent when you
 advertise in
THE FLORISTS' EXCHANGE

houses and was consequently thrown on the market in unexpected and unprecedented quantities

The first important break in the weather occurred about ten days before Easter, followed by an almost unbroken succession of bright, warm, hot days interspersed with the Summer accompaniments of three severe thunderstorms on Saturday, Tuesday and Wednesday evenings, a hall storm on Wednesday afternoon, a deluge on Thursday evening, and the mercury one day registering over eighty degrees—the highest March record in the history of the weather bureau in Chicago. Except in the length of the day the productive conditions were fully three if not four weeks in advance of the calendar which fact being general immeasurably added to the complication of matters by forcing on to the market stock from out of doors, grown in the Southern section of the State in the form of hundreds of thousands of narcissi and wagon loads of lilacs, consignments which generally reach this center the latter part of April.

So thoroughly swamped were some of the commission houses that it became next to impossible to accommodate the continual influx of stock, notwithstanding that the express companies were constantly pressed in the work of properly sorting and dispatching the wagon loads of boxes prepared by the steady exertions of upward of seventy-five expert flower packers and shipped to all sections within the radius of the Chicago shipping district.

Notwithstanding the deluge of stock which nearly overflowed every house there was throughout a steady demand, especially toward the end of the week, for fresh, sound goods, which would stand shipment to distant points and to satisfy the requirements of the better class of the local trade.

The anticipated shortage of lilacs had occasioned unusual forcing in many cases, so that stock was so soft that it could not withstand the torrid wave and was rushed in during the middle of the week and in some instances sold seemingly for what was offered, producing a slightly depressing effect on the better goods on Wednesday and Thursday, after which they recovered and the finish prices were maintained to the finish for netted and prime cut goods.

Flowering plants, as a rule, sold well and when added to the above is the item of smilax which at times was hard to find and brought 25c. a string and Asparagus plumosus, which sold well at advanced prices and possibly scarlet carnations which were in short supply, the really stable feature of the last few days of the week have been mentioned.

The reports on roses were more or less conflicting and varying at different times, though the large dealers in this specialty, with practically unlimited stock to select from, probably succeeded in turning over the soft and more advanced flowers which remained in their hands at a figure which brought the totals up to a satisfactory average.

Carnations at no time reached the prices expected, and the bulk of the stock which was all right sold at from \$15 to \$30 a thousand and though quantities of these goods went much lower on Saturday afternoon and Sunday morning.

But bulbous stock was one of the worst stumbling blocks of the week and was severely cut and sacrificed throughout, it being impossible to estimate the quantity which failed to find a purchaser at any price and was at last consigned to the barrel.

It was, however, among the large consignees of violets that the greatest degree of mortification and disappointment was to be found, as thousands of bunches reaching this market in a dilapidated condition, entirely too far gone to stand shipment and were taken up by speculators or peddlers at from \$1 to \$2 a thousand.

The retailers, however, have very generally had what may be termed a gala week, and in the case of some of the higher classed stores it has been a record one for large sales; and though much of their stock was engaged in advance at regular prices, the profits have been large and satisfactory. The cheaper stores handled untold quantities of stock which must have netted good returns, and the peddlers resented a generous supply from condemnation.

Among the retailers there was nothing seen in the line of novelty, the regular lines being very generally offered as heretofore. Pretty but moderate priced baskets, hampers, and decorated pots were leading features in the principal stores, lilacs, azaleas, rhododendrons, Rambler roses, spiraea and bulbs being everywhere much in evidence and attractively presented.

A tour of the wholesale district on Monday of this week revealed but slight evidence of the strife and turmoil which had reigned there for several days previous. In the Atlas building where an even dozen of the large houses are installed, small reports were reported and comparatively light shipping orders came in. Opposite in the flower market upstairs and at the Chicago Rose Com-

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pany's headquarters downstairs there was not much stock, in sight, while at the Bassett & Washburn's and the Hunt store at 78 Wabash avenue it was stated little could be done for the day between an Easter Sunday and a city election Tuesday. On Randolph street the A. L. Randall Company, the Kennicott Brothers Company and E. C. Ambling made similar reports, so that all around it was a day of comparative quiet, the city trade requiring but little attention, dealers generally having nearly stock enough on hand to supply their slight needs and orders for out of town being very light.

Prices, though hardly re-established on a firm basis were, for good stock, generally on a scale a trifle lower than before Easter week. W. K. W.

PITTSBURG.—A good Easter trade is the general report of all. As to whether it was better than last year is doubtful. Regardless of the good times we have had right along, the people are not so willing to spend as much money as they did some years ago. The plant trade hints the cut flower business considerably, as many people who formerly spent from \$10 to \$15 for cut flowers will hardly spend the half of that amount now for plants, which if properly delivered will give more satisfaction. There were more plants on the market this year than ever before, particularly bulbous stock; and quite a few growers thought they were stuck, but they cleaned out very well at fair prices. The stores all had a good selection of pot plants that sold at good prices, some azaleas as high as \$25 each. Of the larger sizes of azaleas Blind Brothers had the best stock; the plants were fine and brought fancy figures. John Bader had the largest stock in the western part of the State of commercial sizes which brought from 75c. up. Pot hyacinths sold remarkably well at all prices; in fact, all good bulbous stock went well as the cut stock was very scarce. Genistas, hydrangeas and Crimson Rambler roses were not as abundant as usual.

In the cut flower line everything was of good quality excepting bulbous stock and some lilies. The warm weather a few days before Easter brought on tulips, daffodils, etc. in great numbers and the heat spoiled them; they are not fit to be sold. Very few good ones could be had and they went readily. Harrisii lilies were plentiful and many remained unsold. The quality was none of the best. There were quite a few good ones but many more were poor. The prices was from 12c. up, retailing at \$3 per dozen. Callas were not so abundant but there was little demand for them. Roses were generally good for the season. Prices of American Beauty, long stemmed, brought \$5 to \$6 wholesale and \$10 and better at retail, per dozen; Bride, Bridesmaid, Richmond and a few other sorts were sold at from \$3 to \$5 per dozen, retail. Carnations reached all around although a little more colored stock could have been sold late in the evening. Prices ranged from 7c. per dozen up. Tulips and daffodils went at \$1 per dozen. Violets were in good demand; many thousands were sold at from \$2 per 100 up to \$5 and even better in some cases the quality was good. Sweet peas went well at 75c. per bunch.

The commission houses did a nice business and considerable stock was sold up to midnight on Saturday, as quite a few of the dealers cleaned out of carnations and roses early in the evening. All carried a good and sufficient stock, excepting in bulbous flowers for which they were forced to refuse orders. E. C. REINEMAN.

PHILADELPHIA.—The market is quiet this week after the great rush of Easter; there are entirely too many flowers for the demand. Easter business was the largest ever seen in this city; the number of plants sold surprised everyone. Everything that had a few open flowers went. There was plenty of stock for all orders except that some growers could have sold more azaleas. The extreme warm weather of last week told on lilies; some growers lost a few on that account. It was almost entirely a plant Easter; in comparison very few cut flowers were sold. Even the most prominent stores sold very few roses; one large store had only four dozen American Beauty on hand on Saturday, and not all of these were sold. Most of the cut flowers were very soft, and much stock could not be used for shipping orders, so that many cut flowers were left over.

In the retail stores the chief demand was for made-up baskets and hampers of plants; large numbers of plants of all descriptions were used in this work. The most expensive baskets contained ericas and Adiantum Farleyense. DAVID RUST.

INDIANAPOLIS, IND.—The many trials undergone by the grower and retailer during a fortnight of the most unseasonable March weather on record were more than counter-balanced by the generous amount of support afforded them at Easter. The florists were forced to stand by many days and see thousands of bulbous flowers, as well as their choicest specimen plants, wilt under a temperature of 80 degrees before the buying time arrived. Many of the flowers intended for April use were on hand last week, and even the immense Easter trade did not clear the market. The displays in the various flower quarters were most beautiful this year as they have undoubtedly never been surpassed in this city. The great mass of lilacs, rhododendrons, spiraeas, hydrangeas, roses and other plants, created most gorgeous showings.

Prices in most instances were lower than at former Easters; with few exceptions they deviated but little from the customary figures. Lilies and violets were the only flowers not in sufficient quantities. The last named were ridiculously small at \$1 to \$1.50 the hundred; when priced to customers at \$2 to \$3 the hundred they were declined for sweet peas at the same price.

But few novel flowers were on hand when the public waited expectantly. A few "Goldengem" and genistas, although not entirely new, sold upon sight. It is time for something new, as the introductions of late years no longer satisfy the regular custom.

Carnations were of exceptional quality this year and filled a wide gap at \$4 to \$6 a hundred; \$1 to \$1.50 a dozen were the popular retail prices.

Roses were plentiful throughout and advanced but little in price; Bridesmaid went at \$2 to \$4; American Beauty at \$3 to \$12 a dozen received the most patronage.

Fancy baskets and hampers sold away ahead of former years. The vast amount of stock enabled the dealers to offer them at low prices. Those from \$4 to \$12 sold most readily.

Specimen plants adorned with an attractive pot cover commanded the usual attention.

Tomlinson Hall market received its usual share of Easter trade, but keenly felt the loss of a great portion of the bulbous stock. I. B.

KALAMAZOO, MICH.—Easter trade was good and far in advance of that of last year's. The weather also was in marked contrast to that of last year as then the week preceding Easter was very cold and stormy, hence business suffered accordingly. This year the reverse happened and fine, bright weather prevailed during the latter part of the week which brought on the buyers who spent their money freely on both plants and flowers and caused a new record for Easter. The plant displays made were very effective in all the stores, and while I noticed no novelties, the quality of what was offered was very good indeed. Cut flowers were abundant, quality good, and prices reasonable. In roses American Beauty sold for from \$2 to \$6 per dozen; teas, 75c. to \$1.50; carnations, 35c. to 76c., 50c. being what the bulk brought. Tulips and daffodils realized 50c. per dozen; lilies, 20c. per bloom. Most of these prices show a 50 per cent. decrease from last year's figures. An abundance of bulbous stock in pots was on hand and really fair stock of hyacinths and tulips was offered as low as 5c. per pot. Large quantities of this class of goods were sold and good business in higher-priced stock, such as lilies, azaleas, etc., is reported.

Van Bochove & Brother rented a large additional store where they made an elegant display and did a big business. Fisher & Rockley and the Central Nursery Company also made attractive displays and profited accordingly. A Grofvert and the Dunkley Company had good displays and lots of flowers at their greenhouses and were also pleased with the volume of business done. The weather and the crops were for once in accord, and the florists in this city have reason for satisfaction. S. B.

Carnation growers who have a surplus of young plants should advertise them in THE FLORISTS' EXCHANGE.

RUFFALO, N. Y.—Friday and Saturday preceding Easter were ideal spring days, bringing out throngs of people. This, of course, helped trade considerably, which was the best we have had in years. Flowers and plants of all descriptions sold well. Violets went exceptionally well, but many complaints are coming in an account of this flower falling so rapidly. Violets seem to have a tendency to fall at this time of the year. It appears that the growers hold them on the plants too long before cutting, and by the time they reach the customers' hands they have that stale violet smell, which is very offensive. In roses, good Bridesmaid, Bride and Liberty sold at from \$3 to \$5 per dozen, the supply being limited. Bon Silene, and Mme. Abel Catronay had a fair sale, ranging from \$1 to \$2. In carnations, Enchantress, Roosevelt, and Mrs. M. A. Patten were extra fine stock, and sold at \$1 per dozen. Mrs. Patten's plants were of white varieties bringing from \$1 to \$1.50 per dozen. Lily of the valley was in great demand at \$1.50 per bunch of 25. Sweet peas had a good sale, at \$2 per hundred.

The sale of plants was phenomenal. The Harrisil lily crop ran out early, selling at 25c. per flower or bud. Azaleas held their own, retelling at from \$1 to \$25 per plant, according to size and quality. Spiraea, hyacinths, tulips and lily of the valley in pans had a good sale, bringing from \$1 to \$1.50 for pans of four to six flowers. Baby Rambler plants in 4-inch pots sold well at \$1.50 per plant, while the Ulrich Brunner and Mrs. John Laing ran a good race as sellers.

Anderson had some especially fine window displays, which speak well for Jos. Sangster's ability. He also had his store leaded with plants of all descriptions, which sold well. He had many specimen plants of azaleas and lilies. Arthur Beyer at W. J. Palmer's show store at 522 Main street had a great display of fancy baskets; they have quite a demand for this line of trade. The Ever Ready Flower Pot Cover Co. had a phenomenal sale of their covers; many florists are just beginning to realize the necessity of this neat little plant trimmer. W. H. G.

ROCHESTER, N. Y.—The volume of Easter business handled here is surprising, considering the many places catering to the flower loving public. Reporting on business done at the established stores—H. E. Wilson, Salter Brothers and J. B. Keller Sons—all agree that receipts were far in advance of last year by about 20 per cent. The last named firm this year found the occasion demanded an annex, this being the first time in its history such a requirement was necessary. With this firm Easter was a plant and decorative basket occasion, they having disposed of over 350 baskets varying in price from \$25 to \$2.50, necessitating the use of a considerable quantity of small flowering plants. With other firms cut flowers were a secondary matter, leading plants being, of course, azaleas and lilies. Owing to the scarcity of the latter a greater demand was expected for other plants. Prices kept up accordingly. Considerable material was shipped here, all of which was disposed of by Geo. Hart. A very fine consignment of dwarf hydrangeas and well grown lilies were shipped in from Lake View Greenhouses, which were speedily sold at a good price.

Lilium, Angliferum and Harrisil brought 20c. per bud and flower for top grade, but a great many diseased flowers—cripples—were shipped in, selling at anywhere from 10c. to 18c. Azaleas, hydrangeas, primula, spiraea, potted flowering shrubs and ferns, etc., were also found a ready sale at prices satisfactory to all, size of plant and quality of same determining its market value.

In cut flowers violets took the lead, the wholesale price being 75c. per 100, for good grade, but the recent warm spell had its effect on these, as was plainly evident in the poor quality of nearly all consignments. Of American Beauty, Bride and Bridesmaid, enough were to be had at prices ranging from \$8 to \$12 per 100, the best grade of Bride being early sold out. Carnations of the whole proved an unsatisfactory investment, owing to the sleepy appearance of the majority of the stock received. Buyers were tardy, and bought no more than really necessary, owing no doubt to the growers evidently mixing old and fresh flowers in the bunches, as could plainly be seen by their appearance soon after their arrival. Top grades reached \$5 per 100, lowest grade \$1.50 most of which went to the Greeks.

A scarcity of orchids at the last day was very apparent, the demand for this class of flowers having increased considerably of late years. Growers will have to consider the forcing of larger numbers for future holiday occasions. Bulbous stock moved slowly and was bought only when other material was scarce; hyacinths especially, being a back number, presumably on account of being too tall and brittle for general use. Churches on the whole were very liberal in their orders for decorations. Does any person know of a way whereby flo-



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rists can get their orders for such decorations a few days ahead of time, instead of at the last day? No end of inconvenience is felt, and one is lucky to get out of the reach of some of the sextons who complain of having dirt on the floor at the eleventh hour.

Rochester was particularly fortunate in the matter of warm weather, a fact which was deeply appreciated by florists, as considerable labor was saved, the thermometer showing between 40 and 50 degrees, necessitating only the light wrapping of plants and cut flowers.

Owing to the early arrival of the warm spell, vegetation has commenced to grow in real earnest, and nurserymen have secured a two weeks earlier start on their shipping orders, than is usually to be had, their hope being that no very severe cold snap will arrive to check growth, as trees, etc., are so far advanced that a severe freezing would do great injury.

SYRACUSE, N. Y.—Easter of 1907 will long be remembered by all the florists as the greatest record-breaker ever known. Glorious Spring-like weather prevailed for the entire week, which induced many persons to make early purchases. L. E. Marquise says he never sold so many plants before as he has this year. The market was well supplied with everything required with the exception of lilies; there was a general complaint of these being late and dwarfier than usual. As a rule high prices were not asked for cut flowers or pot plants; consequently very large quantities were disposed of and few left over.

There were no novelties to speak of. Quinlan's two stores were very attractive, with a fine display of pot roses and fancy baskets which found a ready sale. Burt's and Morris's stores were stocked with the usual Easter plants. McInnelly & Son made a very pretty display. George Bartholome, as usual, had a very nice showing at his greenhouses, and cleaned out. Bard & Davis were especially strong in violets and lily of the valley. L. E. Marquise was well supplied with carnations which were exceedingly fine, and those which he had in large sales. His Marchioness is simply grand, and two dollars a dozen was easily obtained for them.

Prices for cut flowers were as follows: American Beauty, \$5 to \$15; Bridesmaid, \$1.50 to \$3.50; carnations, \$1 to \$2 per dozen; violets, \$2 to \$3 per 100; lily of the valley, \$1 a dozen; daffodils, narcissus, tulips, 75c. to \$1 per dozen; callas and lilies, \$3. Carnations had the call, and violets were in good demand.

WASHINGTON.—In spite of the weather, which would have been more seasonable in August than March, and attendant injury thereby to Easter crops, the Washington stores presented a most attractive appearance with cut flowers and plants of good quality. Among the many attractive stores were George H. Locke's, with banks of specimen plants of azaleas, hydrangeas, rhododendrons, etc. Guide Brothers Company devoted their large store to a display of many of the season's most attractive plants, and in front of the entrance had a most magnificent specimen of Bougainvillea glabra, some seven feet high, around which were banked azaleas and other seasonable plants. George C. Shaffer not only filled his store, but considerable of the sidewalk with miscellaneous plants which attracted much attention. Easter lilies were very scarce as a result of disease, and the quality of those offered was much below the average of former years the larger majority being very short, and all lacking the usual number of flowers. Some of the local growers claim to have lost over 50 per cent. of their stock by reason of the disease, and further state that many of the lilies received from abroad are not true to name. Business in all branches of the trade was about all one could desire and prices strictly in line with those of former years.

A review of the Washington stores after Easter shows a wonderful change; the immense stock has dwindled down and in no case is the store too small to carry its remaining plants inside. Both grower and retailer had all they could handle. Everything sold, from the specimen plant to the Baby Rambler rose. There was an especially good market for the poorer grades of bulbous plants, and at the Center market as in most others, by ten o'clock Saturday



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night nothing was left on the benches. At the stores azaleas sold best of all the plants offered, the demand being principally for the smaller sizes, as the majority of customers for large specimen plants are abroad. All classes of cut flowers were eagerly sought, and toward the end of the day but little regard was manifested as to what it was so it was a flower. As anticipated, the glut has been relieved, and indications point to a fair market the remainder of the season.
J. L. C.

BOOKS

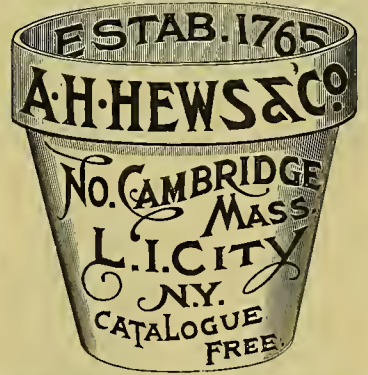
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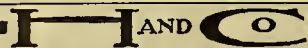
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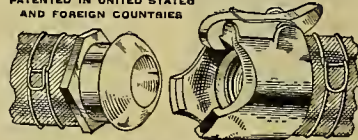
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BALTIMORE.—Easter business was exceptionally good and the supply was about equal to the demand. Very good prices were obtained. Potted plants of every description went faster than expected. Azaleas, lilies and other bulbous plants were sold at better prices than heretofore at Easter. The window displays by our local up-town florists were both artistic and enticing.

ST. PAUL.—At this writing Easter trade is practically over aside from the complaints from late delivery, frozen stock, etc. The fore part of the week we had very mild weather, which brought the stock in in due time. The temperature dropped Friday very near to freezing point and continued to get colder, so by Saturday it was freezing hard and everything had to be wrapped carefully. Notwithstanding the inclement weather business with all of the dealers was very good, the general report being that it was the best Easter trade for a great many years. Lilies were only fair and a great many showed the results of forcing, being very soft. It appears that there were only about a dozen to supply the demands, while some of the trade claim they could have sold a great many more lilies if they had been available. It is remarkable how well the high-priced azaleas sold; those left on hand are only inferior plants. Spiraeas, hydrangeas and dentals also all bulbous stock were easily disposed of. Prices were maintained nicely and only in one instance were lilies retailed below 25c. a bloom; this one concern, however, quoted them at 15c. a flower, but as the demand was very heavy, it did not affect sales in any way. Cut flowers sold in very small quantities, Saturday, of course, being the big day. Carnations and roses were plentiful, but violets were indeed scarce, practically all of the stores being over-sold; in consequence some substituting was done.

COLUMBUS.—We have most certainly had a more than satisfactory Easter business. The warm weather, of course, pushed forward an enormous quantity of stock, both plants and cut flowers, all at once; but our great trade took it all in good shape. As compared with a year ago, the prices obtained were somewhat smaller, especially for bulbous flowers. This had been expected, and in order to get rid of all the stock low prices were made—as low as 35c. a dozen for narcissus. Tulips did a little better, but plenty of this sort of stock customers could easily find for 50c. a dozen. Such prices encouraged a perfectly enormous over-the-counter trade, with the resultant great total of sales. It was an Easter when stock being good, plenty of it, and prices for it reasonable, the rank and file of the entire city bought lavishly. As regards prices, roses brought \$1.50 to \$3.50 a dozen with American Beauty at \$3 to \$12; carnations from 75c. to \$1, with a few very fine Enchantress at \$1.50. Lilies were

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only in fair supply; the price was 25c. each. Violets had a great run at \$1 to \$2 a hundred in bunches to suit customers; some firms sold entirely out of violets early.
The stock of plants in the city was larger than ever before. I think one reason for this was the fact that a year ago the supply was so short and poor

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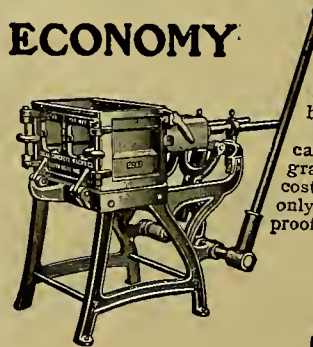
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that every grower made special efforts to have a large supply. They did, but the sales were enormous and everything went. Here again prices averaged reasonable. Crimson Rambler roses had a great sale at from \$1 to \$3 each. Azaleas never before had such a run and ranged from \$1.50 to \$3, with a few at \$5 and \$6. Hydrangeas went at \$1 to \$3, and

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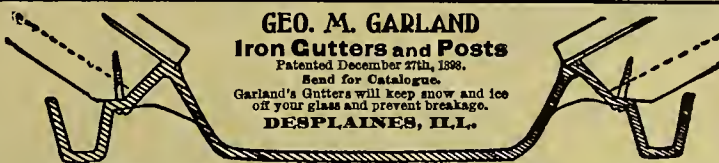
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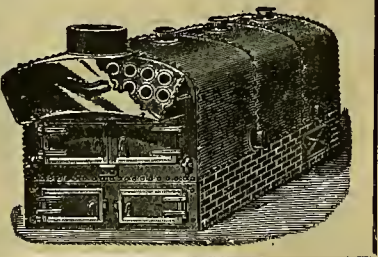
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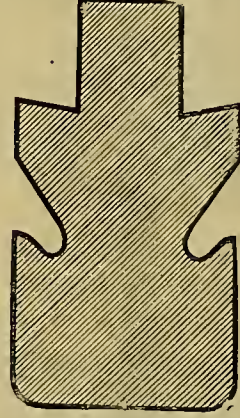
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OUR GRADE INVARIABLY THE BEST, OUR PRICES RIGHT.		
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WIFE

G. D. Stone
March Exp. Six
1908

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

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

Vol. XXIII. No. 15

NEW YORK AND CHICAGO, APRIL 13, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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Richmond, Wellesley, Liberty, Bride, Bridesmaid, Bon Silene, Safrano and Mrs. Oliver Ames.

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5 to 7 inches in circumference	\$1.75	} F. O. B. New York
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9 to 12 inches in circumference	5.00	
12 inches and up.....	9.00	

Write for 1000 prices

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Augusta	2.50	20.00	Vaughan's XXX Florists' Mixture, made from named light and white kinds.....	1.75	15.00
Brenchleyensis.....	1.35	11.50	Fine Mixed, all colors	1.25	10.00
Ceres	1.40	12.00	Childsii, fine mixed.....	2.00	18.00
Isaac Buchanan.....	4.00	35.00			
May.....	1.75	14.00			

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1st SIZE 4 TO 6 INCH; MEDIUM SIZE 3 TO 4 INCH
Write for prices

FIELD-GROWN ROSES LOW BUDDED EXTRA STRONG

Baby Rambler, Bush form, 2-year, 25c. each; Baby Rambler, Standard, 48 in. stems, \$1.50 each; Crimson Rambler, 4 to 5 feet, \$15.00 per 100,

Magna Charta, clear rosy pink
Marshall P. Wilder, scarlet crimson
Gen. Jacqueminot, red
Ulrich Bruner, rose
Prince Camille de Rohan, darkest red
Alf. Colomb, carmine
Mad. Chas. Wood, pink
Coquette des Alps, pure white
Each 20c., doz. \$1.50; per 100 \$11.00.

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Sov. de Malmatzen, soft pink
Giant of Battles, bright red
Glory Lyonnet, cream yellow
Baroness Rothschild, rich satiny pink
Margaret Dickson, pure white
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Large	\$12.00 per 100
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Gladiolus, fine mixed seedlings	\$1.25 per 100, \$11.00 per 1000

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Cantaura Gymnocarpa	per oz. 35c.	
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Lobelia Crystal Palace Compacta	tr. pkt. 25c.	
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Phlox, choice mixed	per oz. 40c.	
Phlox Dwarf	per oz. \$1.25	
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FROM COLD STORAGE

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May	2 00	15 00	60 00				

Gold Medal Strain

Begonias

Tuberous Rooted

Single White	Doz. \$0 40	100 \$2 50	Single Mixed	Doz. \$0 35	100 \$2 25
" Yellow	40 2 50		Double White	65 5 00	
" Nankeen	40 2 50		" Yellow	65 5 00	
" Pink	40 2 50		" Orange	65 5 00	
" Rose	40 2 50		" Rose	65 5 00	
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ASTER SEED. We are the leading specialists and largest growers of high grade Asters in the world, and have originated more of the standard varieties than all other American seedsmen combined. Five new varieties this past season. **One Packet of Each for \$1.00.**

Daybreak and Purity. 1/8 oz. 35c., 1/4 oz. 50c., 1/2 oz. 80c., 1 oz. \$1.50.

Vick's Branching. The original strain from which have come all others of any worth. White, Pink, Lavender, Rose, Crimson, Purple and Dark Violet, 1/8 oz. 20c., 1/4 oz. 35c., 1/2 oz. 65c., 1 oz. \$1.25.

Sweet Peas and Nasturtiums. A large supply of the newest and best varieties.

Flower Seeds for Greenhouse and Outdoor Planting. All the kinds which florists grow.

Dahlias, Gladioli, Cannas, Caladiums, Tuberose, Tuberous Rooted Begonias, Geraniums, and all other tender and hardy plants in season.

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Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

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25 Varieties, \$17.00, \$19.00, \$22.00 and \$24.00 per 1000.

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April 13, 1907.

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PRIZE ENGLISH FRINGED MIXED, 100 seeds, 25c.; 500 seeds, \$1.00; 1000 seeds, \$1.75.
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Large Bulbs, 1 1/4 to 2 in.
Single white, rose, yellow, scarlet, crimson, orange, separate or mixed, per 12, 30c.; per 100, \$4.00; per 1000, \$18.00
Double T. Begonias, in separate color or mixed white, rose, scarlet, crimson and yellow, per 12, 50c.; per 100, \$3.75; per 1000, \$30.00.

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In separate colors or named, white, red, violet, purple, tigered, blue with white border, red with white border, per 12, 50c.; per 100, \$3.25; per 1000, \$30.00
Mixed Colors, per 12, 40c.; per 100, \$2.75; per 1000, \$25.00.

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(Elephant's Ear)

6 x 8 inches circ	12	100
7 x 10 " "	25	3.00
9 x 11 " "	60	4.50

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Excelsior Double Pearl
4 x 6 inch 12 100 1000
2nd size.....\$0.20 \$1.00 \$8.00
..... .10 .50 4.00

SEEDS

Asparagus Plumosus Nanus, BEST greenhouse grown (Absolutely true), per 100, 50c.; per 1000, \$3.00.
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Summer-Flowering Bulbs
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Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

BOSTON, MASS.—W. W. Rawson & Company report a most favorable season up to now. Whether it is due to the change of locality or improved methods of doing business they feel highly encouraged with the increase of trade experienced, particularly in specialties. This relates to beets, Crosby Egyptian, Arlington strain, also hothouse lettuce, horticultural wax beans, dandelion and the best strain of radish seed. The firm says there is no doubt but what there will be an extreme scarcity in the future of hothouse grown lettuce seeds as the crops of late have been continuous failures, and those who have grown for the wholesale trade in Boston have decided to abandon growing lettuce seeds in hothouses. Mr. Metcalf, one of the growers of lettuce seeds under glass, refuses to accept any orders for them as he will not grow any more; his losses having gone into hundreds of dollars for the last two seasons.

In regard to flowers there has been an unusual demand for Queen of the Market aster which now is a very short article; an increase of 400 per cent. over former years is reported by the concern.

The firm's new introductions of this year have taken hold so well that they are sold out of the available stock. The new gladiolus Harvard has been distributed widely, orders having been received from Italy, France, Germany and England.

LARGE PRIVET

3 to 4 feet	.....	\$30.00
4 to 5 feet	.....	40.00
5 to 6 feet	.....	50.00
6 to 8 feet	.....	60.00
Wichitiana Hybrid, 2 year	.....	40.00

Plenty of shrubs at low prices.

CANNAS, 4 inch pots, \$6.00 per 100.
ELIZABETH NURSERY CO., Elizabeth, N. J.

LANSING, MICH.—The Senate has passed a bill regulating the sale of agricultural seeds. Its provisions are sweeping and provide a penalty for the sale of seeds of some kinds which are adulterated more than a thousandth part. The bill is designed to prevent the continuance of the growing up of Michigan farms to weeds. Senator Bates of Moline, who championed the measure, declared that Michigan is a dumping ground for adulterated seed and that much of it is sent across the river from Canada. Action on the bill was unanimous.

CROP CONDITIONS ON LONO ISLAND.

—The anxiety that is always manifested at this season regarding the conditions of the stocks put away for seed purposes has been intense for the past two weeks—more than usual, because of the extreme and steady cold weather that followed the warm spell of December and January. The first reports were unfavorable for the cabbage stocks, as many had rotted badly in the trenches; at the present writing the growers have nearly finished setting, and a majority of the fields present a satisfactory appearance, and an average crop is now in sight. The only shortage will be in some special strains where the dealer furnished the stock seed, and only sufficient for the amount desired; in case of failure or partial failure of these crops the loss cannot be made up. But of the main crops, there is always a sufficiency planted to secure the desired quantities for all orders.

The two types of Wakefield are making a good showing, which is satisfactory, as there is a constantly increasing demand for these sorts. Allhead is also looking well as are the Flat Dutch types. The Volga is a sure seeder, and has kept well. The Mammoth Rock Red looks badly, as do the Savoys. Rutabagas have kept well, and the kale appears all right, but it will take a few days of hot sunshine to test its vitality. Brussels sprouts are looking badly; total or practical failure of crop is certain. A more complete report will be made early in May.

The demand for Long Island grown stocks of cabbage seed is on the increase, and fill up orders are constantly coming in.

BEANS.—The Department of Agriculture will soon issue Farmers' Bulletin 289 on Beans, prepared by L. C. Corbett, Horticulturist, Bureau of Plant Industry. In this bulletin types of beans are discussed under Broad beans, Kidney beans, Lima beans, Dolichos beans, Soja beans, Scarlet Runner beans, and Velvet beans. These are divided into two classes, namely, field and garden beans. Field beans are discussed under the following subjects: Preparation of the soil; planting, which includes the quantity of seed per acre, as well as depth of planting; culture; harvesting, which includes a description of the commercial methods of harvesting the crop by machinery; thrashing, with a brief description of the types of machines used for this purpose, together with a brief description of the subject of cleaning and grading the product for market. Garden beans are discussed under the type of soils to which they are adapted, fertilizers used in connection with the production of this crop, cultivation, harvesting, yield, enemies, and diseases. The whole matter is a brief summary of the commercial industries as they now exist in the United States of growing dry beans and garden or string beans. Maps accompany the text, showing the distribution of the two crops, and there are illustrations showing typical fields of beans grown for dried beans as well as those grown for string beans, together with character of implements used in handling these crops.

Copies of the bulletin may be obtained upon application to Senators, Representatives, and Delegates in Congress, or to the Secretary of Agriculture.

IMPORTS OF SEEDS, ETC.— March 27.—H. Frank Darrow, one case live plants; J. M. Thorburn & Company, two sacks seed; C. B. Richard & Company, 29 packages plants; M. F. Berry, 10 cases plants; H. F. Darrow, 59 cases plants; John Dunn, Jr., 102 packages plants; W. Elliott & Sons, 22 cases plants, 17 cases trees. March 30 and 31.—C. F. Meyer, 150 cases lily of the valley pips; John Scheepers & Company, 60 cases lily of the valley pips; N. E. McCarthy, 9 bags plants; Mrs. J. C. Bishop, one bundle lily buds; I. D. Crossman, 12 cases cut flowers; E. F. Darrell, six cases lily buds; R. F. Downing & Company, 17 packages lily buds; James Kempe, four boxes lily buds; E. & A. Morris Exporting Company, 37 crates lily buds; John Nix & Company, four crates lily buds; P. E. Vandegrift & Company, 15 bushels canna roots, one box palm leaves, 31 boxes lily buds; Wells, Fargo & Company, one case lily buds; C. C. Abel & Company, 11 packages plants; Amerman & Patterson, 19 packages trees; H. P. Darrow, five packages plants; International Despatch, one package plants; Maltus & Ware, 26 packages plants; Rölker & Sons, 51 packages plants; C. Reed, one package plants; G. W. Sheldoa & Company, 36 packages plants; Universal Express Company, 13 packages plants; P. B. Vandegrift & Company, 81 packages plants. April 1.—H. Frank Darrow, two cases trees; C. C. Abel & Company, 18 cases live plants; H. Frank Darrow, four cases plants; W. Elliott & Sons, nine cases plants; Maltus & Ware, 74 cases plants; McHutchison & Company, 30 cases plants; A. J. Smith, five cases plants; J. Ter Kuile, five cases bulbs and plants, one hamper bulbs and plants; Taft Brothers, 25 sacks seed; Walsler, eight cases plants; Perry, Ryer & Company, eight packages trees; Austin Baldwin & Company, two cases trees; L. D. Crossmond & Company, one case trees; R. F. French Company, 25 sacks seed; Peck & Velsor, 10 bags roots; Hosea Waterer, eight cases plants. April 2.—P. E. Anderson & Co., 20 bushels roots, eight bags roots; L. D. Crossmond & Company, one case plants; J. G. Christopher, one case plants; H. Frank Darrow, 57 cases plants; H. A. Dreer, one case plants; W. Elliott & Sons, 15 cases live plants; Elliott Nursery Company, three cases trees; C. A. Haynes & Company, one case plants; C. C. Metz & Company, 53 cases bulbs; W. A. Manda, 14 cases plants; Maltus & Ware, 359 packages plants, flowers, roots, etc.; McHutchison & Company, 126 packages plants; P. Ouwerkerk, 61 cases trees; C. B. Richard & Company, 857 packages plants, 60 cases trees and shrubs; Stallman & Fulton Company, 29 bags roots, 24 bushels roots; Stump & Walter Company, five packages plants; Elmer & Amend, four bags seed; J. L. Hopkins & Company, 16 bags seed; E. Hoenicke, 55 bushels roots; H. Bischoff, two cases plants; C. A. Haynes & Company, three cases bulbs; Maltus & Ware, 60 tubs laurel trees; Smith & Bolzenthal, one case plants, 14 tubs laurel trees; L. D. Crossmond & Company, two packages plants; H. Frank Darrow, 18 packages seed; R. J. Godwin's Sons, six packages plants; Mc-

Hutchison & Company five packages plants; C. Root, two packages plants; G. W. Sheldon & Company, nine packages plants; C. C. Abel & Company, 53 cases bulbs; American Express Company, 80 packages plants; R. F. Lang, 19 cases plants; A. Murphy & Company, eight cases plants; A. Rölker & Sons, 18 cases plants; P. B. Vandegrift & Company, 74 packages trees, plants, etc. April 3.—H. Nungesser & Company, 130 barrels grass seed.

EXPORTS OF SEEDS, ETC.—March 30.—Shipped from New York to Dresden, two packages seed, valued at \$130; to Stettin, 658 bags grass seed, valued at \$2,709.

European Notes.

The weather certainly has been on the side of the seedsman during the latter half of March, and the Easter vacation finds us all fairly well satisfied with the business of the past ten days. A light frost every night and brilliant sunshine all day provide conditions for Spring cultivation and sowing that are simply ideal, and so far as plants of biennials and perennials are concerned, the check they receive from the night frosts is less destructive than a mild frost in May.

Beets and carrots have made very little growth at present, so we hope that what is put out will be all right.

The before-mentioned causes have reduced the supply of green food for cattle, consequently the demand for kale, dwarf Essex rape and other quick growing plants is very large. Rape has reached the top notch in the matter of price during the present week, being sold freely at an advance of 35 per cent. on November prices. With some extra good samples, a lot of very inferior seed is being offered in Holland, the figure now paid being higher than the best price paid by the oil crushers. A lot of French seed has been thrown on the market for the same reason, but it is being let severely alone owing to disastrous results which have followed its use in at least two important countries.

The English crop is so small that it is all needed for home consumption, and as the acreage that will be left for seed is much below the average both in Holland and England, it will no doubt pay to carry any surplus over to next year. Owing to the almost entire failure of the purple sprouting broccoli the London markets are now being supplied with the young shoots of the thousand-headed kale. It makes an excellent green vegetable, but its use in this way means less food for the sheep and a smaller crop of seed, so that next season's price for this article will maintain the present season's advance.

EUROPEAN SEEDS.

Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

Summer Flowering Bulbs

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Strong roots with two and three eyes at a special price to clear.

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 - PHILADELPHIA
- and other sorts. Any of the above
\$2.50 per 100, per 1000, \$20.00

DAHLIAS

We have a large assortment of choice named sorts in DOUBLE, CACTUS, SINGLE and FANCY varieties.

Strong clumps, \$1.00 per doz., per 100, \$8.00.

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Strong bulbs which will bloom this season.

- 100 1000
- Scarlet and Crimson \$1.00 \$9.00
- Pink and Variegated 1.25 12.00
- Striped..... 2.00 19.00
- White and Light..... 1.75 15.00
- Yellow..... 2.50 24.00
- Childsii mixed 2.00 18.00
- Groff's Hybrids, mxd. 1.50 14.00
- Choicest mixed 1.25 10.00
- Fine mixed 1.00 8.00

Write for a copy of our Wholesale Price List also general seed catalogue.

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Prices Advertised in these Columns are for



Summer Flowering Bulbs

TUBEROUS ROOTED BEGONIAS

Single Large Flowering Separate colors, fine bulbs—	Double Large Flowering Separate colors, fine bulbs—
Per doz. \$ 0 35	Per doz. \$ 0 55
Per 100 2 25	Per 100 4 00
Per 1000 22 00	Per 1000 37 00

FERN BALLS

Each Doz. 100	Each Doz. 100
5 to 6 in. \$0 20 \$1 75 \$12 00	7 to 9 in. 0 30 2 75 17 00

DOUBLE HERBACEOUS PAEONIES (Splendid roots, 2 to 5 eyes).

Pink, Red, White and Mixed—Per doz., \$1.25; per 100, \$3.00.
NEW CROP ASPARAGUS PLUMOSUS NANUS. Fine new crop, sure to germinate. Extra Quality. Per 100, 50c.; per 1000, \$3.50; per 5000, \$15.00

CALLA BULBS

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Stokes Seed Store
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The universal favor in which these Directions are held, as shown by the many orders received therefor, encourages us in the belief that these Leaflets are just the neat little factor to help promote business and establish better relations between the dealer and his customer.

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- PEONIES
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- PRIMULA
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1,000 2.50

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(76) **Pansies coming with Small Flowers.**—Do you know of any lack of any special fertilizer in the ground as the cause of small flowering pansies? New York. E. R.

—Lack of nourishment in the soil would be evidenced by a poor growth of the plants. If in the present case the plants show a thrifty growth and are healthy otherwise, except in their flowering, we would be under the impression that it was quality in the strains of the seed used that was lacking, rather than any fertilizer in the soil.

(77) **Ferns.**—Kindly tell me which is the best way to grow ferns—in a bench or in pots—and how large a 2 1/2-inch fern should be by October 1 if started now, of the leading varieties.

Conn. J. E. C.
—We presume that the ferns referred to are of the Boston type, and if so, it will be a good idea to plant them in a bench containing three or four inches of soil, and if they are well taken care of they should be ready for 5 or 6-inch pots by the first of October.

(78) **Japanese Air Plant.**—Can you advise me where the Japanese air plant can be obtained? I have looked through plant catalogues but do not find it advertised.

New Hampshire. A. R. S.
—We do not know just what is meant by the Japanese air plant, but for novelties in Japanese plants we would refer the inquirer to H. H. Berger & Company, 47 Barclay street, New York City.

(79) **Sod for Carnations.**—Please let us know where we can get good sod for our carnations; we are unable to grow good carnations in the soil we have here. What would be the price of a quantity needed to fill three houses, 25 x 100 feet, each house having three benches, to get the sod shipped in from outside? We are located about 70 miles from Pittsburgh, East.

Penna. W. S.
—The best way for the grower to procure good turf for his greenhouse is to make thorough search through the territory in his immediate vicinity, and when he finds what is suitable make a deal with the farmer on whose land he finds the turf to purchase the quantity required. Farmers are generally willing to sell a few loads of soil from their old meadows when they can get a good price for it.

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CARNATION ABUNDANCE, R. C., \$40.00 per 1000; from 2 in. pots, \$50.00 per 1000.
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ROSES AND CARNATIONS. Liberty Rose Plants, 2 year old, own roots, \$3.50 per 100. Killarney Rose Plants, one year old, own roots, \$3.50 per 100. Brides, 3 in. pots, one year old, own roots, \$3.50 per 100. Walleisley, 3 in. pots, one year old, own roots, \$3.50 per 100. Carnation Cuttings from soil: Lient, Peary \$3.00 per 100. Mrs. Patten, \$3.00 per 100. Mrs. Thos. W. Lawson, \$2.50 per 100. All clean, healthy stocks. Cash with order.
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ROSES ON OWN ROOTS 2 YEARS.
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Mlle. Berat, 4 1/2 ft. 1 25 30 00
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ORANGE CANNAS
Admiral Avellan, 4 1/2 ft. 1 75 15 00
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GOLD EDGED CANNAS
Mad. Crozy, 3 1/2 ft. 3 75 25 00
Souv. ds A. Crozy, 4 ft. 3 75 25 00

YELLOW CANNAS
Comte de Bonohard, 4 1/2 ft. 2 75 25 00
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Aisaca, 3 1/2 ft. 2 00 17 50
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Black Beauty, 5 ft. 6 00 50 00
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Egandala, 4 ft. 3 25 30 00
Grand Bougs, 8 ft. 1 75 15 00
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Allsmania, 4 to 6 ft. 3 35 13 00
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6-8 inches in circumference. \$1 50 \$10 00
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150 Spiraea Van Houtel, 4 ft. \$10.00
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20 Purple Barberry, 3 ft. 3.00
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VEGETABLE PLANTS
LETTUCE, Grand Rapids, Big Boston, 100 2000
Boston Market and Tennis Ball. \$0.20 \$1 00
PARSLEY, Moss curled. 25 1.25
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	Per 100	Per 1000
Berberis Thunbergii, 12-18 in., \$4.00 per 100; 18-24 in., \$6.00 per 100; 2 ft. bushy, \$10.00		
Cornus sericea, 2-3 ft., \$5.00 per 100; 3-4 ft. 6.00		
Cornus Sibirica, 2-3 ft., \$6.00 per 100; 3-4 ft. 8.00		
Cornus stolonifera, 2-3 ft., \$8.00 per 100; 3-4 ft. 10.00		
Privet Itoha, 2-2 1/2 ft., \$6.00 per 100; 2 1/2-3 ft. 8.00		
Rosa blanda, 2-3 ft., 10.00		
Rosa lucida alba, 18-24 in. \$12.00		
Rosa setigera, 3-4 ft. \$8.00 per 100; 4-5 ft. 9.00		
Spiraea arguta, 2-3 ft., \$6.00 per 100; 3-4 ft. 8.00		
Spiraea Douglasii, 2-3 ft., \$6.00 per 100; 3-4 ft. 8.00		
Symphoricarpos vulgaris, 2-3 ft., \$5.00 per 100; 3-4 ft. 7.00		
Viburnum lentago, 3-4 ft. 15.00		
Celastrus scandens, 3-4 ft. 6.00		

FIELD GROWN PERENNIALS

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Coleopsis, in variety 5.00		
Delphinium hybridum, 6.00		
Eulalia gracillima 4.00		
Funkia laevisfolia 3.00		
Gaillard grandiflora 5.00		
Hollyhocks, single mixed 5.00		
Hollyhocks Allegheny 6.00		
Heliopsis, in variety 5.00		
Hemerocallis Sieboldii varieties 5.00		
Iris Kaempferi, named varieties 6.00		
Iris Germanica, in variety 6.00		
Iris Sibirica alba 6.00		
Iris Sibirica 5.00		
Lilium auratum, large 8.00		
Lilium album, large 8.00		
Lilium rubrum, large 8.00		
Lilium candidum, large 7.00		
Phlox amona 6.00		
Phlox decussata, best named varieties 8.00		
Phlox subulata, pink or white 6.00		
Paenonia, strong roots, named varieties 15.00		
Pyrethrums, double named varieties 15.00		
Spiraea palmata elegans 6.00		
Spiraea palmata alba 5.00		
Spiraea Veunata 8.00		
Vinca minor, strong plants \$30.00 per 1000 4.00		
Yucca filamentosa, 3 yrs. 8.00		

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Italia, 3 ft.
Mad. Crozy, 3 1/2 ft.
Pink Beauty, 4 ft.
Psa. McKinley, 3 ft.
Queen Charlotte, 4 ft.
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Anthemis, Tictoria Kelwayii	75	6.00	Hibiscus, Moscheutos, Crimson Eye	75 6.00
Aquilegia, Coerulea Canadensis	75	6.00	Hollyhocks, Double White, Pink, Yellow, Single, Mixed and Allegheny Fringed	1 00 8.00
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Bolonia, Asteroides, Latisquama	75	6.00	Myosotis, Palustris Semperflorens	60 4.00
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Caryopteris, Mastacanthus	75	6.00	Phytostegia, Virgatica	75 6.00
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Coleopsis, Rosea	75	6.00	Rudbeckia, Golden Glow Newmannii	75 6.00
Delphinium, Chinesensis	75	6.00	Salvia, Azurea Grandiflora	90 7.00
Digitalis, Gloriosa	75	6.00	Sedum, Acre	75 6.00
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Seasonable Notes.

The submergence of the roots of trees, often created by the banking up of water courses near them, causes no apparent harm to them in Winter, but is death to them if it occurs after the growing season starts in Spring. At least this seems correct from observations made here.

The discussion on a seedless apple which has been prominent of late leads to the thought that there are many cases of seedless fruits. The orange, persimmon, fig, and osage orange come to mind, and very often the mountain ash will have seedless berries. Some entirely lack seeds, others have them, but all imperfect. They are said to leave untouched mountain ash berries which there are no seeds.

Variiegated *Euonymus radicans variegata*, makes an excellent white-leaved edging plant. Its first growth is close to the ground, but afterward it makes a little height. Although of a creeping nature, if a plant of it is tied to a stake it will become an upright shrub in time.

To have the pleasure the bright green leaves of the *Bambusa Metake* afford in Winter the plants should be set in a well-favored sheltered spot, as free from high winds as possible. Where standing in an open place the leaves become greatly scorched in Winter.

Dahlias from cuttings make satisfactory plants. Old roots are started indoors and when the shoots are two to three inches long they are taken off and rooted in the hothouse. They root in a couple of weeks, giving nice plants for flowering the same season; and this way of increasing them is helpful in the case of rare sorts.

Cornus Florida.

One of the most charming trees of our woods in early Spring is the great white dogwood, as the *Cornus florida* is called. It comes into flower early, before its leaves expand, and before other trees and shrubs about it are far in leaf; and it is this that makes it so conspicuous and so universally admired. Those who greatly love trees are grieved to see the *Cornus florida* disappearing so rapidly as it does, as wood after wood is chopped down to make room for dwellings. Occasionally one who knows how to estimate a beautiful tree leaves a specimen or two of this dogwood as the forests are cleared, and to such a one we owe the preservation of the fine specimen it was our privilege to photograph. There are three or four such trees left standing in a field near the public road shown in the illustration, in Montgomery County, Pa., and rarely are better specimens to be met with anywhere. It is many years ago that the wood in which they grew was cleared, and so they have had a good chance to develop; and that they made excellent use of their opportunity all will admit.

Cornus florida, as it grows under cultivation in Europe, does not become anything nearly approaching what it does here. Many of the ministers and other officials of the governments of Europe who visit Washington become enamored of this dogwood as they see it in the woods near the Capital, and they order seeds or seedlings of it for their own grounds abroad. There are but five European countries that will admit trees from here, fearing the introduction of injurious insects, so that it is mostly seeds of the dogwood that find their way there.

As is well understood, the large white "flowers" of the dogwood are not flowers at all, but are bracts, the true flowers being what appear in the center of these. This, of course, is immaterial except as a botanical feature. It is the display of its mantle of white that is desired, no matter the name of what gives it.

The introduction of the pink dogwood has stimulated the demand for our white one as well. Both flowering at the same time, they are often planted together, in groups, the pink and the white mingling well together.

Both the pink and the white dogwood are easily raised from seeds, but the pink one cannot be relied upon to come true in this way, reliance having to be placed on propagating it by budding or grafting it on the white one.

Transplanting Azaleas.

Azaleas make such a mass of small roots binding the soil they meet with so firmly that no one need lose any of them when transplanting them. When often transplanted, as these plants usually are, they have such nice balls of soil with them that even when just about to flower they can be moved without any injury to their blossoms. Nearly all the azaleas planted are imported, and they cross from Europe with such good, solid balls that they simply need heeling in in some

convenient place for selling, as those unsold can be planted out properly when sales are over. The Holland shippers and all others who understand their business now wrap the balls in bugging, to keep the balls in solid condition, and this is something it pays well to do. Azaleas should be planted in light soil, but it should contain food. Their fine roots will not enter heavy soil. Loamy sod suits them well, and if mixed with decayed leaves or peat, so much the better. When planted the material should be packed closely to the roots.

The wild azalea of our Northern woods is found where decayed leaves have formed a light soil. Having grown from seedlings where they stand, they have not a ball of roots hence when transplanted they should be cut back well, when they will all grow.

Box Bushes for City Yards.

All who dwell in cities know how few evergreens there are that will thrive in yards. Of all the many

soils of Southern New Jersey. Many people are surprised to notice the thrift of such trees, knowing that sometimes several feet of sand is at the surface. An investigation would show that not a fiber was in the top layer, but that all the roots had struck through it to the solid soil beneath. When planting in such soil it is an advantage to place a spadeful or two of manure in the bottom of the hole, that the roots may have some food until they have penetrated to a lower depth where nutrition is to be had.

There are situations quite dry, often, even where the soil is not sandy, but of ordinary good substance. The same rule holds good here as well. A deep rooting tree will push down to where moisture is, and so will thrive in such a place, while a shallow rooting one would die.

Wax Myrtle for Seashore Planting.

Seashore residences are now desired by a great many, so much so that the finding of suitable trees and shrubs is the aim of all who have the planting of the grounds

in such situations. One of the useful large evergreen shrubs is the wax myrtle, *Myrica cerifera*, for, first of all it is a native of the coast close to the sea. Although it is found inland as well as along the seashore, it is never abundant in woods; still, the fact that it thrives there as well as at the shore is in its favor, as showing its adaptability to various situations.

Along the coast it is found so close to the shore that salt spray almost reaches it; and wherever a few bushes of it exist it catches the drifting sand, and the sand accumulating will creep up until often but the tops of the shrubs will appear above it, although these shrubs may be six to eight feet high.

The foliage of the wax myrtle is quite thick, the leaves being close together and leathery, but in green appearance they are not the equal of those of the ink-berry, *Prinos glaber*, another seashore evergreen, though not found as close to the sea as the wax myrtle is.

Those who have tried the raising of the wax myrtle from seed report varying success. Some seasons a fair lot of seedlings will appear, in others none. Still, this is the only way practicable of increasing the stock.

The name wax myrtle comes from the waxy particles adhering to the seeds, giving them a gray white appearance. It used to be customary to make the candles for Christmas trees from the wax of the berries of this myrtle, and this may be the custom still. The berries, or seeds, were exported to Europe in large quantities for the purpose. The sweet fern, a little bush common in our Northern woods, and known as *Comptonia asplenifolia* was formerly called *myrica* being closely allied to it.

Sowing Elm Seeds.

In common with other trees that ripen their seeds in Spring, the elms that do this are best sown as soon as ripe, when nice seedlings follow the same season. Not all elms ripen seeds in Spring; *crassifolia*, *texana* and the Japanese one, *parvifolia*, ripen late. Some of the Spring ripening ones are *americana*, *fulva*, *campestre* and *montana*; the two last named are European species. The seeds should be spread out on a floor of a shed for a week or two to thoroughly ripen them, and then be sown at once. The elm leaf beetle is not as destructive to the foliage of elms as it was. Doubtless the care given to the spraying of these trees has done much to lessen the number of beetles; besides this it is a fact that insect evils have their day. There may be several years in which the pests appear in great numbers, and this will be followed by a term of years when their numbers will be few. When the foe is numerous the European elm, *campestre*, suffers worst of all, next the *americana* and least of all the *fulva* and the *montana*. *Fulva* is the slippery elm.

JOSEPH MEEHAN.



Cornus Florida—Great White Dogwood

kinds that have been tried, quite a number fail, a few struggle on, and a very few thrive. In the latter class is the common boxwood, and a better evergreen bush than it for the purpose is hard to name. Give it good soil and an abundance of water, and its growth will be quite satisfactory. A surface manuring every Fall is one of its needs, as is then shown by the nice green foliage it displays the following season. One enemy it has in cities and that is red spider. This insect preys on the foliage of the plant to its injury, but, fortunately, it is easily destroyed. Attach a line of hose to the hydrant and play the water on the bush with all the force possible. This dislodges the red spider, and if the water is played on the plants every week it ends the depredations of the pest.

There are several varieties of box. The common tree box is as good as any to use. One called *rotundifolia* is also a good one, so is *myrtifolia*; but the common box edging form is too slow in growth to be satisfactory.

Planting in Dry Places.

It frequently happens that the planter is called on to set out trees in places where the soil is a dry one, and then it is that judgment is required to plant only such sorts as will thrive there. It is an error to think the place cannot be satisfactorily planted because of trees not doing well. It is useless to set out such shallow rooting ones as the elm, the maple, the linden and the like. Plant oaks, tulip poplar, ash, walnut, hickories, common poplars and similar sorts, and all will be well.

These trees are naturally of a deep rooting nature, and when they are in poor top soil, they ignore it quickly and the roots strike downward to the lower layer, and there they find the food they want. This accounts for the well being of many trees in the sandy

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Hardy Roses for Decoration Day

HARDY H. P. ROSES

We offer exceptionally strong two-year-old dormant, low-budded stock (on Massey), in the following varieties: Alfred Colomb, carnation; Anna de Dinbach, bright carmine. Ball of Snow, pure white. Baron de Bonstetten, dark crimson shaded. Baroness Rothschild, satiny pink; extra. Captain Christy, delicate flesh color. Duke of Edinburgh, bright vermillion; very fine. Fisher Holmes, dark rich scarlet. Fran Karl Druschki, the finest white in existence, \$12.00 per 100. General Jacqueminot, rich velvety crimson. General Washington, beautiful red, shaded carmine.

John Hopper, beautiful rose pink. La France, the finest light pink. Margaret Dickson, white, pale flesh center. Magna Charta, clear rose pink. Mma. Gabriel Luizat, light, satiny pink. Mma. Plantier, white. Mrs. John Laing, soft pink; most desirable variety. Paul Neyron, beautiful dark pink. Prince Camille de Rohan, velvety crimson. Ulrich Brunner, cherry red. Prices on H. P. Roses \$1.25 per 10; \$11.00 per 100; \$100.00 per 1000.

HYBRID TEA ROSES

Maman Cochet, pink. Maman Cochet, white. Unequaled as bedders for Summer blooming, producing buds of large size and of ideal form. The buds are of the color and form of Eridesmaid and Bride, but larger, and outside will yield more blooms than the latter will under glass. The two finest outdoor Roses yet introduced. Strong 2-year-old plants, 10 for \$1.50; \$12.00 per 100.

American Beauty, Clothilde Souper, Kaiserin Augusta Victoria, Caroline Testout, Hermosa. Strong, 2-year-old, \$1.50 per 10; \$12.00 per 100.

THE KILLARNEY ROSE

Irish Grown From the Raiser. Good strong two-year-old plants, \$3.00 per 10; \$27.50 per 100.

HARDY ROSE SOLEIL D'OR

(Golden Sun.)

Like Persian Yellow, this variety is perfectly hardy, with large, full, globular flowers, varying in color from gold and orange to reddish gold, shaded with assturtium-red. Two-year-old budded plants, per 10, \$2.00; per 100, \$16.00.

The Grand New Rose

ETOILE DE FRANCE

Superb crimson red velvet, the center of the bloom vivid cerise red. The flowers are very fragrant and last long. This new variety is the result of a cross between Madame Abel Chatenay and Fisher Holmes. Field-grown, strong two-year-old plants, \$2.75 per 10; \$25.00 per 100.

AMPELOPSIS and other Climbers

AMPELOPSIS

Ampelopsis Veitchii (Boston Ivy), extra strong imported vines, three-year-old, \$2.00 per doz.; \$15.00 per 100. Ampelopsis mutabilis, more rapid grower than the foregoing, larger foliage, \$3.00 per doz.; \$20.00 per 100. Quinquefolia (American Ivy or Virginia Creeper). Good for covering walls, verandas, or trunks of trees; attains shade quickly, 25c. each; \$2.50 per doz.; \$13.00 per 100.

CLEMATIS

Henryi, pure white; extra large. Jackmanni, purple. Alba, white. Sieboldii, lavender. Ville de Lyon. The finest of all reds; flowers brilliant carmine red. It is equally as good as Mma. Edouard Andre, but contrary to this one, is a very free-growing variety. All the above Clematis in extra strong plants, \$3.00 per doz.; \$20.00 per 100. Clematis paniculata, strong 2-year-old plants, \$1.25 per doz.; \$12.00 per 100.

HYBRID TEA AND OTHER ROSES OF RECENT INTRODUCTION

(Strong 2-Year-Old Plants.) Bessie Brown Creamy white, \$1.50 per 10; \$12.00 per 100. Gruss an Teplitz. The great new red Rose, closely resembling Liberty in color. No Rose in commerce can compare with Gruss an Teplitz as a bedder, \$1.50 per 10; \$12.00 per 100. Konigin Karola (Improved Testout). Magnificent, \$1.50 per 10; \$12.00 per 100. Mrs. Sharman Crawford. Deep rose pink, the outer petals shaded with pale flesh-color, white at base of petals, and distinct from all other Hybrid Perpetual Roses, \$1.50 per 10; \$12.00 per 100. Perle de Rooze. A polyantha variety of unusual merit. Color velvety crimson, with reflex of petals bright cerise, \$1.50 per 10; \$12.00 per 100.

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Assorted White, Pink, Red, large dormant plants, from open ground, \$1.50 per 10; \$12.00 per 100.

THE TREE BABY RAMBLER (Mad. Norbert Levassauer) GROWN AS A STANDARD

The popularity of the Baby Rambler has suggested the growing of it as a tree or standard. The variety is too well known for description; enough to say, it retains all its characteristics of free-blooming qualities, etc., 60c. each; \$5.00 per doz.

THE BABY RAMBLER

Mme. Norbert Levassauer. Strong field-grown plants, \$1.75 per 10; \$15.00 per 100.

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Large heavy plants, two years old, 3 to 6 feet, \$1.75 per 10; \$15.00 per 100. 4 to 6 ft. \$2.00 per 10; \$18.00 per 100.

DOROTHY PERKINS

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Paul's Curmine Pillar. One of the most attractive Climbing Roses. Two-year-old, field-grown, \$1.75 per 10; \$15.00 per 100. Marechal Niel. Color bright rich gold-an yellow, field-grown, \$1.75 per 10; \$15.00 per 100. Cloire de Dijon. Color buff, orange center, very sweet-scented, field-grown, \$1.75 per 10; \$15.00 per 100.

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"Aurora"

PAUL NIEHOFF, Leighton, Pa.

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PRICE \$1.00.

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Lancaster, Pa.

Among the florists here Henry D. Kohrer has probably the largest amount of glass, which is situated on the Philadelphia Pike. His greenhouses on Cottage avenue he expects to move in connection with his newer plant on the Philadelphia Pike, the property on Cottage avenue being more desirable now for residential sites. Mr. Kohrer grows cut flowers principally for the wholesale trade, making a specialty of carnations. His roses, carnations, smilax and in fact his entire general stock are all grown in solid beds. While some claim more blooms per plant can be produced from carnations on raised benches than in solid beds, Mr. Kohrer is very well content with the results he obtains from the latter. The expense of the benches and the keeping of them in good condition would be considerably more than the difference, if any, in the bloom producing qualities of plants grown on benches. The growers in this section, therefore, prefer the solid beds, even though they may get a few hundred fewer blooms in a season's cut. Albert M. Herr, the affable secretary of the American Carnation Society, has a thrifty looking establishment on Ryder avenue. Mr. Herr grows carnations and geraniums for the wholesale trade. Thousands of cuttings in all stages of development were to be seen

From a hurried observation it could be seen that the solid bed system, with the exception of one carnation house, prevailed all over his place. In this way the roses appear to be carried over for several years. Carnations, violets and all other stock were grown in solid beds with apparently good results. Unfortunately for your correspondent Mr. Barr was too busy to give any information relative to the methods employed in the practical administration of his establishment. One of Lancaster's most progressive florists is George B. Willson. He has the distinction that possibly no other florist in this country enjoys. Mr. Willson is the owner of "Wheatland," the old homestead of President Buchanan. In 1856, James Buchanan left Wheatland to make the White House at Washington his home. Mr. Willson purchased the place from Harriet Lane Johnson, some time previous to her death in Baltimore. Visitors to Lancaster take much interest in viewing this handsome old mansion and all its notable surroundings. Many fine trees are found all through the grounds that had been planted in President Buchanan's early days by people prominent in this country's affairs at that date. An old boxwood hedge, about 4 feet tall and the same in diameter and 500 feet long still stands in a state of fine preservation; it was planted by President Buchanan

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Wheatland, Once the Home of President Buchanan, at Lancaster, Pa. Now occupied by George B. Willson, Florist.

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everywhere. Mr. Herr, too, speaks very favorably of the solid bed system for carnation growing. In a fine new house, 256 x 20 feet, he grew last year Lady Bountiful, John E. Haines, Nelson Fisher and others in solid beds with the best results. This present season, now about over, he used raised benches, and the results obtained are not as good as those of the preceding year in solid beds. It is needless therefore to say that in the future, like most other growers in this section, he will stick to the solid bed system. Mr. Herr is somewhat of an authority on the propagation of geraniums. While he does not claim to be the equal of John Birnie he is entirely satisfied with the results he obtains. What a man may do with 50 or 100 stock plants depends entirely on what the stock plants are like. A stock plant may be a very small production, and again it might be of fine proportions capable of yielding a large number of cuttings during the propagating season. All of Mr. Herr's stock plants are grown in solid benches running the entire length of his houses. Whole benches, in some instances, are devoted to one or more particular varieties. These stock plants are used for three years. New beds are planted each season and some plants that had outlived their usefulness discarded. When stock plants are used for over three years Mr. Herr says they get too woody for propagating purposes. George W. Schroyer has a well stocked, up-to-date establishment on Harrisburg avenue. In addition to this he has a seed and flower store at 151 North Queen street. Mr. Schroyer handles a general stock of seeds, bulbs and plants. He says his Easter trade was the best he ever had. B. F. Barr's Keystone Nurseries and greenhouses are situated on Columbia avenue. Mr. Barr has also a city store,

when, it is said, he was quite a young man. It is in this historic old homestead that Mr. Willson resides. Few florists, if any, have this distinction, and Mr. Willson wears the honors of his achievements in this line most gracefully. He is genial and courtly, and despite the fact that he has much more to show as the results of a successful business career he has unlike some others of his calling, both the time and the inclination to treat a wanderer kindly. Mr. Willson has several well filled greenhouses of general stock that appear to be in good hands and he enjoys a splendid trade. D. K. Herr and Peter Brown are also among Lancaster's foremost geranium and carnation growers. The greenhouses of Mr. Herr are on Ryder avenue and adjoin those of A. M. Herr. Just at present he is making a specialty of coleus and has many handsome varieties. Geraniums, too, are in goodly numbers—long, solid beds of stock plants of all the popular bedding varieties were in abundance. The stock plants here also are carried over from two to three years with good results. J. M. DAYTON, O.—At the last regular meeting of the Dayton Florists' Club, Thursday, April 4, G. W. Bartholomew, the newly elected president, presided. A unanimous vote of thanks was tendered the retiring president, J. B. Heisa, for his untiring services rendered the club. It was decided that the club subscribe \$150 to the guarantee fund of the National Flower Show. Easter trade was reported good. It was the general opinion of all that there was a marked increase in the demand for blooming plants. There was an ample supply of almost all cut flowers, for which there was a healthy demand.

THE WEEK'S WORK.

Timme's Timely Teachings.

After Easter.

Not having had time so far to gather in the opinions of neighboring florists as to the volume and character of the trade during Easter, I can only judge and speak of what happened to fall to my share, and this justifies me in believing that after a more thorough-going summing up of the business transacted it will be found that this year's Easter was the best of any ever experienced by local florists and retailers. Cut flowers, made-up work, foliage and flowering plants, all went equally well and with astonishing rapidity, the bulk of the trade all being transacted on Saturday afternoon and Sunday morning. This again proved convincingly to be thoroughly prepared and to have all in line and readiness for the oncoming rush is of greatest importance and is a point worth remembering.

There was no trouble in disposing of anything in the lily line, either cut or pot-grown. As far as I am now enabled to judge, there were none too many lilies many plants only now beginning to show color. Very slow in coming into bloom and therefore behind for Easter were longiflorums of the Japan type, also most of the few Liliun candidum raised hereabouts. The loss in lily bulbs of all kinds, I think, was greater among those forced for this year's Easter than in most previous years, while those brought out in good time under moderate heat were, as a rule, of better quality and finer appearance than usually offered in former years.

High-priced flowering plants, not over-trimmed and ribbon bedecked, found buyers in plenty, and anything in this line, well grown and not of every-day character, could be sold at a fair price more readily this Easter than at any holiday in previous years. This is a point worthy of note, since cultural failures with plants of this kind, mostly foreign prepared and annually imported, are rare and the profits considerable.

Of other plants that sold exceptionally well this year, roses in pots deserve special mention, and of these the bright foliage and nicely bloomed hybrids, teas and remontants, found greater favor than the Rambler roses, which latter, though generally in good form, only went after the others were sold out clean. Baby Ramblers, field grown and potted up last Fall, did not all come into bloom in time for Easter. Those that did sold well. All pot culture for a season, after having been raised into size in the field, is the better course to pursue with these, as well as with most other roses.

Palms, ferns and other foliage and decorative plants were much called for and preferred by many people to flowers or flowering plants as Easter gifts. Common things from the ordinary run of greenhouse stock could have been disposed of in greater numbers had they been in a less backward condition than was the case. Much of this material had been made use of in filling boxes and baskets, which, as usual, are what a large class of buyers prefer to anything else offered. Most of the Holland bulb stock is disposed of in this form and is looked upon with as much favor as ever.

If there is any complaint to make as to the Easter business as carried on this year, it is the raw, chilly weather prevailing at a time when much of the delivering had to be done, which necessitated a deal of extra care in wrapping and packing. But altogether it certainly was a grand Easter and I hope satisfactory in its summing up to everybody, in the trade.

Left Over Plants.

Should any of the stock raised expressly for the Easter trade remain unsold on the benches of any retail grower, he will find most of it probably of little further use after this date. The cheaper kinds of bulbs, when out of bloom now,

GRAFTED ROSES

Brides and Bridesmaids.

EDW. J. TAYLOR Southport, Conn.

Dreer's Roses for Out-Door Planting

The best stock procurable to sell to your retail customers

WE make a specialty of this class of stock. All the plants are field grown plants which during the winter months have been potted up into 5 and 6 inch pots; they were stored in cold houses and are now breaking into growth freely and are in prime condition to sell to your retail customers for out-door planting. This stock must not be confounded with cheap Holland grown plants, all being either home grown or imported from England, Ireland or Germany.

Hybrid Perpetual, Moss and Other Hardy Roses

Strong two-year-old plants, nearly all in 6-inch pots

Table listing various rose varieties like Alfred Colomb, Anna de Diesbach, Alfred K. Williams, etc., with prices per dozen and per 100.

Table listing more rose varieties like Prince Camille de Rohan, Pride of Waltham, Queen of Queens, etc., with prices per dozen and per 100.

Hybrid Tea and other Everblooming Roses

Table listing varieties like Antoine Rivoire, Balduin, Baby Rambler, etc., with prices per dozen and per 100.



Frau Karl Druschki

Small table listing varieties like Safrano, Sonvenir de la Malmaison, etc., with prices per dozen and per 100.

Rambler, Climbing and Trailing Roses

All strong 2-year-old field grown plants potted up into 5 and mostly 6-inch pots

Table listing rambler rose varieties like Baltimore Belle, Climbing Clothilde Soupert, etc., with prices per dozen and per 100.

For a complete list of seasonable stock see our current Quarterly Wholesale List—Specialties, Hardy Perennial Plants, Water Lilies, Nulumbiums and other Aquatics, Decorative Plants, Palms, Ferns, etc., Dahlias and other summer flowering Bulbs.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Penna.

Large advertisement for 'ROSES : CANNAS' by THE CONARD & JONES COMPANY, WEST GROVE, PA. Includes text about the season for planting and a list of varieties.

Advertisement for 'Grafted Roses' by A. N. PIERSON, Cromwell, Conn. Lists various rose varieties and prices.

Advertisement for 'GRAFTED ROSES' by JACKSON & PERKINS CO., Newark, New York. Focuses on 'MONEY MAKERS FOR COMMERCIAL GROWERS' and lists various varieties.

Advertisement for 'ROSES' by ALFRED P. SMITH, Madison, N. J. Includes 'READY FOR SHIPMENT' and lists prices for various varieties.

Advertisement for 'GERANIUMS' by WM. J. CHINICK, Trenton, N. J. Includes text about bedding out and ready May 10th.

Advertisement for 'ROSES' by ALFRED P. SMITH, Madison, N. J. Lists prices for various varieties.

April 13, 1907.

are not worth the room they take up, either indoors or outdoors, though some, such as tulips, will bloom again next Spring if dried and ripened off and planted in August in an open border. But the time required in going to this trouble can more profitably be employed in work more garden-like.

Decorative plants of all kinds remain valuable stock in the hands of a good grower right along, and though the thinning out by sales at Easter may not have been as far-reaching as was expected, a real loss in stock, if in receipts, is not experienced. Any room gained through sales during Easter should be utilized in behalf of the remaining plants by systematic rearrangement.

Heaths, acacias, roses, lilies, primulas and anything on the grower's hands that proved too slow to be just right for Easter will be in good condition for a trade always to be figured upon right along throughout the early Spring months. Nicely grown flowering plants of all the holiday kinds and made-up arrangements in baskets, pans and boxes find buyers at all times nowadays, and I never had occasion to throw any away because of their being left over from the trade at any holiday.

Hydrangeas, roses, spiraeas, azaleas, acacias, genistas, and plants of like character, if now beyond their prime, can with a small amount of judicious care-taking be worked up into first class stock for next season's forcing. A trimming back into shapely crowns in some cases is necessary, but should not be attempted after a set of new growth has already started. All such plants may be held in good condition in out-of-door quarters during the Summer, but should not be exposed to open air conditions until well forward in their new growth and sufficiently weaned to a sojourn out of doors after having undergone severe forcing during Winter. While some could well be planted out into the open field, most of them will be better plants for another Winter's forcing by being kept in pots, some few probably needing a repotting before being plunged outdoors.

Hardy azaleas, rhododendrons, prunus, lilacs and hybrid perpetual roses, or any of the hardy shrubs that were subjected to a high degree of forcing, will seldom give satisfactory results if forced again the following season. If of shapely form and unimpaired health after they have brought flowers for cutting or remained unsold as pot plants, they are worth keeping as outdoor plants, but will not do for forcing for several seasons, for which purpose younger stock, expressly grown to that end, is to be preferred in every instance to these leftovers. It is therefore advisable to look about for the right kind of stock for next year's forcing in the line of hardy shrubs, if home-grown material is, to the exclusion of imported stock, thought to be the more profitable kind to handle, an opinion which is gaining ground on many places, where the extensive forcing of hardy shrubs has been successfully practiced for years. Small, vigorous, shapely plants of the suitable kinds, to be had at any nursery, potted up now or grown on in the open field until of proper size and promising condition, i. e., well set with buds and of fine form, are the kind to procure for the purpose, and now is the time to plant them if a fairly good piece of ground is available. Some will require several years of field culture, combined with frequent top and root pruning, to become suitable material for profitable forcing, while others arrive at the proper point and right stage of flowering condition in a single season. In planting merely room enough between plants for convenient cultivation is needed. Plants should be allowed full time for the ripening of their flowering wood in the Fall before being potted up. Those potted up in early Spring and carried through the Summer in pots, will invariably prove the best for Winter forcing.

Memorial Day.

In clearing up after Easter we are reminded that Memorial Day is not so far off as to render all thoughts of it or any preparations for it premature. The day has gained in importance from year to year, until now it is looked upon by a great number of retail florists, especially those located near our cemeteries, as the holiday above all others capable of making away with the greatest amount of florists' stock. It is the day when anything in flowers and plants, if in any way presentable, finds ready acceptance, a day for which little in the way of any special effort in preparing is needful. At

Plants for Spring Trade

Dracaena Terminalis, finely colored, 4 inch pots,	Per Doz.	\$4.00
“ “ “ “ 5 “ “		5.00
Cocos Weddeliana, fine plants,	3 “ “	2.00
Kentia Belmoreana, “ “ 24 to 28 inch high,		9.00
“ “ “ “ 18 to 20 “ “		7.50
Araucaria Excelsa, “ “ 15 to 18 “ 4 tiers		7.50
“ “ “ “ 20 to 24 “ 5 “		10.00
Pandanus Utilis, fine plants from 5 inch pots,		4.50

Peter Henderson & Co., 35 & 37 CORTLANDT ST. NEW YORK

Miscellaneous Stock---Surplus

- ASPARAGUS SPRENGERI, 2 1/2 in., \$2.50 per 100.
- ANTHERICUM VIVATUM VARIEGATUM, \$3.00 per 100.
- BEGONIA VULCAN and VERNON, 2 in. ready for shift, \$2.50 per 100.
- HARDY PINKS, 2 in. in variety, \$2.50 per 100.
- GLOXINIA BULBS, Separate colors, \$4.00 per 100.
- CANNAS—Chas. Henderson, David Harum, Mlle. Berat, Shenandoah, Italia, Duke of Marlborough, Pres. Carnot, 2 and 3 eye pieces, \$2.00 per 100, \$17.00 per 1000. (See catalog No. 5 for complete list.)
- ROSES—Strong young plants of Clotilde Soupert, Champion Climbing Soupert, Empress China, Golden Gate, Gruss An Teplitz, Meteor-Mosella, Papa Gontier, Safrano, \$3.00 per 100, \$25.00 per 1000.
- CARNATIONS—Fair Maid, Mrs. Lawson, The Queen, Queen Louise, Boston Market, from flats of soil, \$2.50 per 100.

The STORRS & HARRISON CO., PAINESVILLE, OHIO.

VERBENAS 60 Finest Varieties Perfectly Healthy

Rooted Cuttings. Our selection.....	\$0.75 per 100	\$6.00 per 1000
Plants.....	2.50 per 100	20.00 per 1000
Rooted Cuttings. Purchaser's selection.....	.90 per 100	8.00 per 1000
Plants.....	3.00 per 100	25.00 per 1000

CARNATIONS Choice Rooted Cuttings Free from Disease.

- Rohr, Craig, My Maryland, Jessica. Price \$6.00 per 100; \$50.00 per 1000.
- Crisis, Lady Beautiful, Enchantress. Price \$3.00 per 100; \$25.00 per 1000.
- Mrs. M. A. Patton, Judge Hinsdale. Price \$2.50 per 100; \$20.00 per 1000.
- Mrs. Thos. Lawson. Price \$2.00 per 100; \$17.50 per 1000.
- Golden Beauty, Gov. Roosevelt, Queen Louise. Price \$2.00 per 100; \$15.00 per 1000
- Mrs. E. A. Nelson, Dorothy, Wm. Scott, Ethel Crocker, Eldorado, Mrs. Joost, Portia. Price \$1.50 per 100; \$12.00 per 1000.

COLEUS The Best for Bedding

Verschaffellii, Golden Bedder, Firebrand, Gluck Auf. Mixed varieties, fine rooted cuttings. Price \$0.75 per 100; \$6.00 per 1000.

GRAFTED ROSES The Finest and Best Grown

Liberty, Richmond, La France, Killarney, rose pots, \$15.00 per 100; 3/4 in. pots, \$18.00 per 100.
Bride, Bridesmaid, Golden Gate, Kaiserin, rose pots, \$10.00 per 100; 3/4 in. pots, \$15.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

GERANIUMS 100

10 varieties, 3-3 1/2 in. pots, my selection.....	\$7.00
ALTERNANTHERAS, red and yellow.....	2.00
PANSY plants, in bud.....	1.50
ASPARAGUS PLUMOSUS, 2 1/4 in. pots.....	2.00
ASPARAGUS SPRENGERI.....	2.00
ASPARAGUS PLUMOSUS seed, new crop, \$2.50 per 1000.	

COLEUS 100

10 varieties, 2-2 1/2 in. pots.....	\$2.00
CANNAS, May 1, from pots....	5.00
PETUNIAS, from double seed..	3.00
VINCA, variegated.....	3.00
VERBENAS.....	2.00

JOS. H. CUNNINGHAM, Delaware, O.

that time we are so well supplied with suitable material for all the purposes for which this day is set aside that very little of the stock offered then bears the stamp of being expressly grown for it. The up-to-date florist and plantsman should have no difficulty in being well prepared for Memorial Day.

FRED. W. TIMME.

VIOLET CULTURE

Price, \$1 50 Postpaid

A. T. De La Mare Ptg. & Pub. Co. Ltd., New York

FEVERFEW

Dwarf double, 2 in., 2c.
COLEUS, 2 inch, 2c.
ELEGANTISSIMA VERNIS, 2 1/2 in., 3c.
ROOTED CUTTINGS, prepaid per 100.
FUCHSIA, 6 kinds, \$1.25. AGERATUM, white, GURNEY PAULINE, 60c. VINCA VARIEGATA, 90c. SALVIA BONFIRE, SILVERPOT, SPLENDENS, 90c. ALTERNANTHERA, 3 kinds, 60c. HELIOTROPE, 3 kinds, \$1.00. FLOWERING BEGONIAS, 8 kinds, \$1.25. PARLOIR IVY, 76c.; DOUBLE PETUNIAS, 10 kinds, \$1.00. 'MUMS: TRANTOR, ALLIANCE, PACIFIC, CHELTONI, GOLDEN AGE, WEEKS, ENGLAND and EATON, \$1.25. STEVIA SERRATA, and VARIETAS, 75c. COLEUS, 10 kinds, 60c. GUPHEA, 2 kinds 60c. SWANSONIA ALBA, \$1.00. PARIS DAISSY, white and yellow, \$1.00. ALEXANDRIA, \$1.25. Seedlings, Dwarf and Tall, double stock, Antirrhinum, Grand White, pink and yellow, \$3.00 per 1000.
Cash or C. O. D.

BYER BROS. Chambersburg, Pa.

ENGLISH IVY

R. C., 75c.; 2 in., \$2.00.

BEK BEGONIA, 2 in., \$3.00; 4 in., \$8.00. ASPERAGUS SPRENGERI, 2 in., \$2.00 per 100. AERUCARIS, 60c. and 75c. each. CANNAS Austria, \$1.50; America, \$1.50; D. Harum, \$2.00; Pennsylvania, \$1.50; G. Gray, \$3.50 Marlborough, \$2.00; Italia, \$1.50; A. Bouvier, \$2.00; C. Henderson, \$2.00; Egandale, \$3.00 per 100.

Will exchange for Enchantress, Boaton Market or Guardian Angel Carnations.

J. H. DANN & SON, WESTFIELD, N. Y.

200,000 PANSIES

SUPERB STRAIN. READY NOW.

Fine, large Fall Transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you have ever handled.

\$1.25 per 100; \$10.00 per 1000. Cash with order.

LEONARD COUSINS, Jr. CONCORD JUNCTION, MASS.

SEED PANSY PLANTS

THE JENNINGS STRAIN

25,000 plants now ready. From finest selected stock, large flowering, fancy colors, in great variety. Stock is all transplanted and first-class in every respect. First size, large plants, \$1.00 per 100; by express only. Second size, strong plants, 100 by mail, 60c; 1000 by express, \$4.00; 2000 \$7.00. Seeds, \$1.00 per pkt. of 5000; 1 oz., \$4.00. Cash with order.

E. B. JENNINGS, Lock Box 254 Southport, Conn. Grower of the Finest Pansies

GERANIUMS

ROOTED CUTTINGS

S. A. Nutt, Grant, Buchner, and Perkins, \$10.00 per 1000.

Ricard, Poltevine and Castellens, \$12.00 per 1000.

3 in. pot plants, fine stock. S. A. Nutt, Buchner, Grant and Doyle, \$4.00 per 100; \$40.00 per 1000.

Cash with order.

PETER BROWN, Lancaster, Pa.

GERANIUMS Rooted In sand, then pot grown a month. Sent partly free of Soil.

Dbl. Grant, Buchner, Poltevine, Ricard, Perkins, Nutt, Doyle, and three fine new. Bargain prices.

COLEUS Verschell, G. Bedder, and only very brightest. Fancy, 20 kinds, mixed, well rooted, 100, 60c., 1000, \$6.00

6 in. pot, many kinds, finest of all Coleus, 80c. per 100.

GLADIOLI (Graft) Hybrids, blooming size, 50c. per 100. SAGE, Bull of Fire, R. C. 50c. per 100. Choice Pansies, Alternothern. Soil plants, Rug, and Imp. P. M., 100, 80c. Yellow, 100, 60c.—Nothing by mail.

DANIEL K. HERR, Lancaster, Pa.

FOUNDED IN 1889



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

Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published EVERY SATURDAY by

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YEARLY SUBSCRIPTIONS.

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

The address label indicates the date when subscription expires and is our only receipt therefor.

REGISTERED CABLE ADDRESS:

Flores, New York.

ADVERTISING RATES.

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

Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

To Our Advertisers.

Commencing with the issue of March 23 last, our patrons will have noticed that we had inaugurated a new departure in our advertising columns.

From its first issue in January, 1889 (in the fifth week of its publication), and thus for nearly eighteen years we have carried under each and every advertisement the wording, "Mention The Florists' Exchange when writing," the idea for the use of this legend being that readers answering would state they had seen the advertisement in The Florists' Exchange, and thus reinforce our claims as to being the best advertising medium for the trade.

The publishers of The Florists' Exchange have always, with no period of relaxation of vigilance, made a determined stand in the endeavor to restrict the circulation of this medium to those only engaged in the trade or in occupations auxiliary thereto; but, with increasing business, with the construction put on the second class mailing privileges by the Post Office Department, which forbids discrimination, with the failure of many unknown subscribers to answer our question as to whether they are in the trade or not, and perhaps more largely than from any other cause, the fact that many florists leave their trade paper where it can be readily seen by outsiders, here and there people who have no right to be considered as "in the trade" take advantage of having seen a quoted figure, and write expecting to get their stock at trade prices.

Under our new departure in the display line we are now printing at the foot of every advertising page, reading "Prices advertised in these columns are for the Trade only—When writing please mention The Florists' Exchange," we feel satisfied that we are protecting the interests of our advertisers better than ever before. As one advertiser well puts it: "We are gratified to see you take this action, and we feel certain the majority of the trade will appreciate it. It not only gives us a sound basis upon which we can turn down orders at wholesale prices received from retail customers, but will also head off many such orders and save useless correspondence at a busy season of the year."

There is no reason why growers should be compelled to retail at wholesale prices, and our announcement will assist their position materially when they are so requested to do. The greatest benefit to the trade will come from a strict adherence by all our advertisers to the letter of the announcement now appearing on our pages.

The Daily Press as Purveyors of Horticultural Information.

John F. Sullivan of Detroit has been giving some attention to the stories appearing in the public press and elsewhere concerning horticulture and floriculture, often "fearfully and wonderfully made," and at its last meeting he induced the Detroit Florists' Club to appoint a committee to endeavor to regulate the information concerning flowers and plants promulgated by the local newspapers and monthly magazines. Mr. Sullivan's aim seems to be, through this committee, to prevent as far as possible erroneous statements getting into the public prints regarding the craft and its operations, and immediately to correct all such statements when they do find their way before the people through the media mentioned. He believes a similar committee appointed by every florists' club in the land would render an admirable service, and save those engaged in the business much annoyance and oftentimes loss. And when editors and publishers of daily papers, and monthly or weekly magazines came to see that the florists themselves were anxious and willing to give correct information on such subjects, Mr. Sullivan thinks application would be made direct to the tradesmen for the desired data, instead of intrusting the work of writing these articles to those wholly ignorant of their themes.

The proposed plan is one worthy of being put in operation, even should it fail to accomplish all that is desired. Too much buncombe relative to plants and flowers, too many exaggerated statements regarding prices and profits of the florists are allowed to go unchallenged in the columns of magazines and newspapers. The trouble would be to get all the publishers of these to make the necessary corrections. Just imagine what an amount of ridicule heaped upon American horticulture would have been obviated had the foolish Burbank articles been nipped in the bud through this means in every instance whenever and wherever they appeared!

An unfortunate phase of this question, however, is that many of the craft are themselves the worst offenders along this line. They stuff reporters and magazine writers with all sorts of trash; the fountain can rise no higher than its source and, as a consequence, we have these Munchausenian horticultural tales which shock the sensibilities and work great harm to the industry. This is a condition that should be frowned down and reformed; then can the craft go with clean hands to the guilty ones and request redress.

The freedom with which the daily newspapers will accept and publish correct and valuable information on horticultural and floricultural topics is well exemplified by the success of the National Council of Horticulture in this direction. There is nothing sensational about the articles disseminated by that useful organization, yet they are welcomed and find a place in thousands of newspapers throughout the country.

By all means institute a campaign of censorship and correction in all matters dealing with horticulture and floriculture placed before the general public. It is greatly needed; and the time seems opportune for its inauguration.

American Rose Society.

Ex-Secretary Wm. J. Stewart of the American Rose Society told the New York Florists' Club on Monday evening last, that the former association must, in his opinion, live by the support afforded it by the commercial rose growers of America—men who are willing and ready to put their hands in their pockets when needed. The society people cannot be counted upon as rose enthusiasts, those of them appealed to by Mr. Stewart for a renewal of membership in the association having promptly sent in their resignations. One good friend of the rose in the commercial class is, according to Mr. Stewart, worth 40,000 ephemeral friends found in the upper strata of society.

This opinion is based upon the old method of doing things in the organization named. Neither the four hundred nor the forty hundred can be expected to take much interest in any body whose workings have no particular interest for them. When all the good suggestions propounded at Washington are brought to a culmination by the Rose Society, when an exhibition of hardy roses, in which the nurseryman, the florist, the amateur and private gardener will all take an active part; when helpful literature (not banquet reports or mere lists of awards) is provided, furnishing practical cultural instruction and in other ways for the general lover and grower of the rose in publications where such literature can be read by those interested; in short, when the American Rose Society lives up to its professed aims and objects in the fullest degree, then will the condition set forth by Mr. Stewart pass into its place among those that now reflect antiquated ideas and endeavors—relics of régimes that retarded progress.

Obituary

F. L. Tempie.

Felker L. Tempie, a well-known nurseryman and landscape gardener died Saturday afternoon, April 6, 1907, at his home in Hampden, Mass., his native town. For 20 years he was connected with the Shad Hill Nurseries in Somerville, Mass., and later had nurseries in Westminster, Vt. and Bucksport Me. He is survived by his widow.

Mrs. Anna B. Jones.

Mrs. Anna B. Jones, wife of Mr. William M. Jones florist, East Cambridge, Md., died on Easter Sunday morning, aged 32. For five weeks she had been suffering from blood poisoning. Her death was due to heart failure. She was the daughter of Mr. and Mrs. John L. Freeman, of Baltimore. In addition to her husband she is survived by five children, Anna, Viola, Myrtle Edith and William.

Thomas J. Kirchner.

Dying as he had lived—a true, good fellow—Thomas J. Kirchner, a veteran florist of Cleveland, O., raised a glass of milk to his lips with the words, "Here's good health," and sank back dead. The end came unexpectedly, Tuesday morning, March 27, though he had been ailing for two years. Mr. Kirchner was a veteran of the Civil War, an enthusiastic fox hunter and a collector of rare birds and flowers. His home in South Euclid resembled a small menagerie.

Mr. Kirchner was born 72 years ago in Bavaria. At the age of 22 he got a start as a florist at the corner of Quincy avenue and East Sixty-seventh street, Cleveland. He was one of the first in the field and prospered. Mr. Kirchner enlisted shortly after the outbreak of the war. He spent much money in raising the fine breeds of dogs, and his final breakdown was due to over exertion while fox hunting.

Deceased is survived by three sons: George J., William J. and Thomas J., the two last named being a head of the florist business, and two daughters.

Amasa Kennicott.

After an illness of about six weeks' duration Amasa Kennicott, horticulturist and florist, oldest surviving son of Dr. John A. Kennicott, one of the earliest horticulturists and physicians of Cook County, Illinois, died on Monday morning last at his residence, "The Grove," near Glen View. The deceased was 69 years old and leaves a widow, Mrs. Mary Seeley Kennicott; three sons, Ransom, Walter and Harrison; two brothers Bruno and Flint, and one sister, Mrs. Alice M. Reilly wife of Dr. F. W. Reilly.

Mr. Kennicott was born at "The Grove" in 1838 and served during the Civil War as captain of Company F., Thirty-ninth Illinois, the regiment known as the "Yates phalanx." At the close of the war he returned to the Grove, where he built up an extensive and lucrative wholesale flower business and attained a national reputation. The funeral services were held on Wednesday afternoon, and the interment was in Arlington Heights Cemetery.

Our statement that the fight on express rates making by the S. A. F. O. H. against the United States Express Company is one "for a few of its members in a restricted locality" is characterized by our esteemed Boston contemporary as "shallow," and in opposition to that view it is asserted, in all good faith, that this said fight "is on behalf of the entire horticultural industry of the country." This latter opinion will be apt to afflict the Jerseymen, for whom the struggle is making, with the exaggerated ego. It is, however, a view not in consonance with either the facts or the complaint of the S. A. F. O. H. itself. No positive assertion can be made regarding what other express companies will or will not do. Anything of the latter character is gratuitous and mere conjecture, and we were dealing with actualities, not assumptions or apprehensions as yet groundless or at best ill-supported. Evidently, too, the majority of those most vitally concerned take but little interest in the fight judging by their outward indifference thereto, and the fact that they have already solved the difficulty to their apparent satisfaction, by the institution of another and cheaper mode of conveyance for their traffic.

CLUB AND SOCIETY DOINGS.

NEW YORK FLORISTS' CLUB.—It was Ladies' Night on Monday evening, April 8, and the business session of the club was a brief one to allow full justice being done the entertainment of the fair sex. President Totty occupied the chair; and there was a gratifying attendance. Mr. Sheridan reported, for the dinner committee, a surplus of \$2.05 over expenditures, and the committee was discharged with much thanks. The outing committee reported progress of a satisfactory character; advertisements for the "book of sports," and donations of prizes are being given liberally. Most of the games will be for the women and children, with, probably, baseball and bowling for the grown-up males. George Baldwin and F. A. Bolles were elected members. Mr. Sheridan withdrew his motion to establish a membership committee. A suggestion by Alex. J. Gutman, regarding a life membership in the club, was referred to the board of trustees for consideration and report.

The essay committee announced that at the May meeting, S. S. Skidelsky, Philadelphia, would read a paper on "The National Flower Show," to be held at Chicago next year under the auspices of the S. A. F. O. H.

Mr. O'Mara gave an interesting talk on the work done by the American Rose Society at its recent Washington convention. Among other things Mr. O'Mara said he was glad to observe that many of the members of the Rose Society including the president, men engaged in forcing roses under glass were in favor of a broad policy being pursued by the organization. He believed the society had had its course shaped in the right direction; and could not see why the two ideals—the development of the rose as a winter-forcing or artificial product, and as a natural product—should not go on safely and harmoniously together. The work of the Rose Society is a little more complicated than that which falls to the lot of the Carnation Society inasmuch as the carnation is only to a limited extent capable of development in the open ground and is essentially adapted for artificial growing or forcing under glass. Mr. O'Mara thought that much depended at the present time upon how the executive committee of the Rose Society handled the subject. They were capable men, all of them, and if the necessary time could be given by them to a consideration of the question, he felt sure the American people were ready for some movement that will develop the rose, which flower year in year out, taking one season with another, holds the public favor in a way that no other floral product does.

Wm. J. Stewart, being called upon by President Totty, said he did not agree with Mr. O'Mara's views. His experience as secretary of the Rose Society for two years had shown him conclusively that the men engaged in commercial rose growing were the association's best friends, without whose munificent aid the Rose Society in recent years would have been in a bad plight. The Rose Society, Mr. Stewart thought, must live by the support of the commercial men—men who love the rose sufficiently to put their hands in their pockets when financial assistance is needed. Society people have no more interest in the rose than they have in chiffon or other articles of personal adornment, and a friend of the flower in the commercial ranks to-day is worth 40,000 of these ephemeral friends found in the upper strata of society. It required more than mere sentiment to carry on the work of any organization.

The balance of the evening was devoted to entertainment furnished by John B. Nugent, Jr., including songs by that gentleman himself rendered in his own inimitable style, piano solos by Master William Burnett, son of George Burnett, seedsman; negro and other melodies by the Rickard Brothers, and others, winding up near the midnight hour with a medley of music, vocal and instrumental, by the members generally given in a style rarely reached and certainly never eclipsed.

NEW JERSEY FLORICULTURAL SOCIETY.—The prevailing popularity of the orchid was again made manifest at the monthly floral display of this society. Langer & Hurrell, Summit, N. J., exhibited Cattleya Schroederæ alba and Laelio-Cattleya × G. S. Ball, both of striking appearance, and vases of the various season's blooms. Julius Roehrs Company, Rutherford, N. J., besides, beautiful examples of Cattleya Schroederæ var. Barouess, Cattleyas Rutherfordense and

Mossie and Odontoglossum pesentorei, contributed a new azalea which they have named Julius Roehrs. In color it is a bright crimson, with heavy leafage. Joseph A. Manda, West Orange, displayed four Cattleya citrina, Cypridium Sallisis pictum var. with a yellow margin to dorsal sepal instead of the usual white.

Carnations Eucharistess, Robert Craig, and a crimson seedling were shown by S. & A. Colgate (William Reid, gardener), and Charles Hathaway (Max Schneider, gardener), who also had Cineraria stollata, tulips Keizerkroon and Anaryllis, Empress of India. J. Crosby Brown (Peter Duff, gardener), contributed a vase of white and purple schizanthus, a most striking and ornamental bouquet for the table, and a specimen Adiantum dolabriforme. Judges were A. T. Caparn, Malcolm MacRorie and Edward Roehrs.

The paper of the evening was by John E. Lager upon "Travels in the Tropics." It was received with marked attention and was both entertaining and instructive. It was decided to hold a special rose night upon June 7 and a dahlia night. The schedule for the Fall show received its first reading. This exhibition is now an assured fact from the guarantee fund of two hundred dollars already subscribed among the society's patrons, and the fund still is growing.

Malcolm MacRorie announced a contribution of ten dollars cash through him from Mrs. Charles Rice. Designs for the society's medal were displayed, but action delayed until next month. Resolutions of condolence were read upon the death of Mr. Orson D. Munn and ordered spread upon the minutes. J. B. D.

OUR READERS' VIEWS

"New Creations."

Editor Florists' Exchange:

It has never been either my intention or desire to enter into any controversy or discussion on the word "create," further than to make a humble effort to prevent opprobrium and ridicule being brought upon our profession. The word "create" implies the word Creator which is one of the titles of the Deity; therefore to make use of the word for commercial purposes, or to attract notice or cause notoriety à la Burbank, is a direct breach of the third commandment. I call attention to the fact that this commandment has a special penalty attached to it.

I fail to see why Mr. Watt's letter was published unless it is to exemplify the detrimental effect that reading penny-a-line articles in a ten cent magazine has upon poorly balanced or immature minds. The letter is mostly a conglomeration of crudely called quotations, taken at second hand from some cheap magazine, and in most cases the quotation marks are left out. Nothing of any consequence has "emerged" from his mighty mind. A "great musical composition" is a composition, not a creation, and the composer is only a created being exercising a God-given talent. Any one who claims to create any thing, be it plants, hens, chairs, houses or footballs, can safely be put in the same class as Teddy put Harriman. Mr. Watt has thrown no "light on the subject;" neither has he cast any shadow, having said "nothing." Out of nothing, nothing can come; Greeks and penny-a-line "students of science" notwithstanding.

JOHN BIRNIE.

Perhaps This Silence is Golden.

Editor Florists' Exchange:

I do not understand the circumstance under which Job and John Birnie remain silent and for all we at this distance know motionless while this most amusingly instructive controversy in connection with the parentage of carnation Winsor has been running its merry course. Although Job's thrusts were occasionally the means of causing a more or less smarting sensation they were nevertheless useful on account of their forcible demands for attention to things past, and therefore useful also in their suggestions for the proper conduct of affairs and individuals in the future. The onslaughts of Mr. Birnie, although differing in manner of delivery as well as in effectiveness from those of Job, were also of some avail if for nothing else than to show to what danger a man will lay himself bare without the doubtful precaution of hiding his identity. I say doubtful because I am still in doubt regarding the identity of Job, despite the sensational allusion to that gentleman's supposed forefathers by Mr. McGorum. I have no doubt that the effect of the work of Job would be less keenly felt by Mr. McGorum as well as many others were they convinced that their antagonist's identity was rightly made known by the allusion referred to. However, many of us hope, after the reflection afforded by the silence of Job and the other combatant, that we will in the near future be again enlivened by their strenuous if sometimes discordant exertions. F. D.

Reflections on Current Topics.

Mr. Editor:—That communication of "F. D.," in a recent number, is about the stiffest conundrum I have run up against in a long time. Had the initials been "D. F.," some excuse for the riddle would have been afforded. However, I submitted the subject to Jemima, and with her usual intuition she says she thinks my characterization of F. D., as an anonymous writer, in the now classic words of the Boston scribe, has aroused the ire of F. D., to the extent of creating a "brain storm," rendering him unfit for the intelligent and intelligible expression of his feelings. There are times, and probably this is one of them, when one's affection for a particular saying—owing to its originality, aptness or other attribute—puts him in the same ridiculous position as the Scotchman in London, of whom Goldsmith tells the story, "who refused to be cured of the itch because it made him unco thoughtful of his wife and Bonny Iverary." But "F. D." need not feel bad about being termed "a bemasked, skulking scribbler." I have had the same lash applied to myself; but, then, I'm hidebound, and that means much when one is subjected to castigation by the oracle of American intellectual horticultural knowledge and wisdom. These little occurrences only help to cheer us on life's pathway, enabling us, as they do, to "see ourselves as others see us."

I read in a Boston contemporary, that only appeals to "intelligent and progressive people," showing by the few I hear of reading it that many of us horticulturists, etc., are not in that class, that the Ginger Jar man has been at Washington shaking President Roosevelt's hand; and, furthermore, that in the East Room of the White House, George was in his element, for everything there was gingery, excepting the jars. It is stated by my friend Watson that he was "behind Job" (that is his natural place, invariably); and he goes on to criticize Job's bow and handshakes. Now I cannot wholly account for George's illusion regarding my presence in that ginger-colored chamber and under such august auspices. When I look at that group picture of "those present," and observe Watson's Dick Deadeye pose, which you may remember was a triangular one, I am inclined to the belief that George must have been indulging in a daydream; or that the fact that they permitted him within the precincts of the White House had so distorted his vision that he could only see through a glass darkly, and had mistaken his man—something not unusual in his case. However, it is a delightful description that the Ginger Jar man furnishes of what must have been an interesting event. I am sure, notwithstanding the awkwardness and other departmental defects of those participating in it. You see, the rose men—or the majority of them at least—are only used to receptions by presidents of the S. A. F. O. H., where they make no bow and where ceremony is as much out of place as the function itself is a foolish one.

Finally, I observe that Watson says he was "flustered." That is surely something unusual, isn't it? It would be interesting to know whether that condition ensued because he was actually in the President's presence, or, in fancy, in such close proximity to Job.

P. S.—Since writing the foregoing I observe that my friend R. McGorum has awakened from his hibernation, and is edifying the "intelligent and progressive" by the statement that he sees Job in the rose men's picture. Robert's magnified vision reminds me of that of the wayfarer who sought the aid of a policeman to get a cab to carry him home. "Go straight ahead," said the bobby, "till you reach the top of this street; you'll see two cabs, but there's only one there." I wonder what brand is McGorum's favorite?

McGorum likewise muses on the meager display of cut flowers at the recent Boston show. I did not happen to read this critic's name among the list of exhibitors there, nor at Washington. What a remarkable interest fellows like McGorum take in such matters—on paper—and then wonder "why we have not the spirited contests we had some years ago!" You remember the Biblical injunction, "Take the mote out of your own eye," etc. The musing man's optics seem to contain the proverbial beam, a condition always accompanied with a lively imagination, hence that weird tale about some one of my forefathers being "a pedantic ruler of Scotland," and carrying a long sword. Like John Birnie, I am too plebeian to have blue blood in my veins, and I would certainly draw the line at the Scotch brand. I refer my imaginative and deluded friend to my autobiography, previously published in these columns, where in he will find it stated that I am a native of Uz. The weapon of my forefathers was a shepherd's staff, the objects of their attention sheep, an inheritance that abides with myself, hence my solicitude for the welfare of McGorum and his ilk. J.

A Traveler's Observations.

On January 30, bright and early I boarded the train for New York City, arriving there the same evening at 10 o'clock. The next morning a trolley car brought me within a few blocks of the very fine greenhouse plant of the Dailledouze Brothers, at Flatbush, N. Y. This place consists of some 18 or 20 greenhouses, of which quite a number are iron frame of the most modern style. All of these houses are isolated. This place is almost exclusively devoted to the cultivation of carnations, and after a careful scrutiny one becomes easily convinced that these gentlemen most thoroughly understand the cultivation of the divine flower; in fact, that they are experts at the business. A variety originated on this place, called Crimson Glow, impressed me most favorably. As the name implies, it is a pleasing crimson, of vigorous growth, large, well formed flowers, strong wiry stems of good length, and a very free bloomer. Taking this variety all in all, as it shows up on the benches here, it is, in my estimation, one of the best crimson carnations in cultivation to-day. Those who attended the Carnation Society's convention in Toronto will remember the variety shown by Messrs. Dailledouze as Number 348, as one of the brightest carnation gems on the exhibition table there. However, I have found in many instances in the past that it is one thing to see a variety slick and trim on the exhibition table and quite another thing to see it growing on the greenhouse benches. Many of the varieties that have loomed up big and bright, that filled one with admiration in the exhibition hall, lose much of their glamor when you come to examine them with a critical eye at their home in the greenhouse. Not so with Number 348. The more carefully I examined it from every viewpoint the more I became convinced that here with-

carnations are grown, of which a good percentage were originated on the place. Of the latter Alma Ward looms up big and lofty, both as a plant and as a flower; but I am sorry to say that the good opinion one forms of it at a little distance requires material modification on closer and more careful inspection. It is sincerely to be hoped that by careful and continued selection for a few more years what now must be considered faults may be entirely eradicated. The two great faults of Alma Ward, in my humble opinion, are: First, the coarse loose habit of the bloom, and, second, the all too free tendency to show color, which latter in a white variety is altogether intolerable.

There are a number of pink and cerise varieties of Cottage Gardens origin grown here that I think are worthy of being widely disseminated. The carnation bloom produced at this place is of the highest quality and brings top notch prices in the New York market. Those who have any doubt about the future usefulness of Beacon can have the same quickly and permanently dispelled by visiting this place, where the variety named is certainly producing some grand results. It is, of course, admitted by all competent to judge in the matter that the color of Beacon is not as ideal as in Robert Craig; notwithstanding the slight drawback in color Beacon has so many good qualities as a flower and so many strong points as a plant that it will be easy for this, like so many others of Peter Fisher's introductions, to create a field for itself in the near future as broad as that now occupied by the famous Enchantress. Queens is also the home of Lieutenant Peary, which is extensively grown here. In this variety all the desirable points we look for in a commercial white are strongly developed. Octoroon is another of Mr. Ward's introductions; it is a pleasing crimson, finely fringed, of good

The Gardens of Italy.

Abstract of a Lecture delivered before the Massachusetts Horticultural Society, Saturday, March 30, 1907, by J. K. M. L. Forquhar.

The oldest form of Italian garden is undoubtedly the court-yard garden. This garden consisted of a geometrical arrangement of the court into formal beds and borders with convenient paths laid in mosaic or paved, and embellished with statuary, sculpture, sundials, fountains and stationary wash-basins of marble. Occasionally the statuary and fountains were of bronze. Pompeii had numerous gardens of this class, several of which have been restored by the Italian Government, and it is interesting to see the attendants turn the water on the fountain through the system of pyramidal lead pipes which did service 2000 years ago.

The court-yard garden is of oriental idea—enclosed for protection, surrounded by an arcade on three or four sides of its rectangular area, and furnished with benches and other accessories to comfort. It was a garden for the family to live in, serving the same purpose as the small garden in the rear of the city houses of Japan, or the high-walled gardens of China, and like these existed for the family rather than for the passer-by.

Hillside Gardens.

The second step in garden evolution is seen in the hillside gardens. These occur chiefly throughout central Italy and mark a more advanced state of civilization, when personal security had become established, and when a wall ten or twelve feet in height afforded ample protection to the inmates of the villa. The hillside villa was usually rectangular, the house occupying the highest ground in the rear. The ground was arranged in a series of terraces which were usually separated by parapets frequently surmounted by balustrades. One terrace would be arranged with arched recesses in the retaining walls, in some of which were erected statues for ornament and in others benches where one might enjoy a sun bath quite protected from any chilling breeze. Another terrace would be an extensive pergola, affording a pleasant, shady promenade which the Summer sun could not penetrate, and where the inmate might listen to the dripping water from the fountain on a terrace yet below.

It was in these hillside gardens that the great possibilities of landscape effect dawned upon the designer. The immediate environment often uninviting had to be obscured. If the protecting wall ten or twelve feet high was insufficient screen, it could be supplemented by a screen of cypress, the delicate cypress, the fine foliage scales of which distinguished it from the pines and firs, and the graceful tapering form of which carries the gaze of the observer to the distant surroundings. In these hillside gardens there were usually two flights of steps protected at least on one side with parapet walls or balustrades. The purpose of the arrangement was, if possible, to render the hillside more habitable and make it as it were an outer living room.

It must be noted that through these stages of development the Italian garden remained strictly formal, and its lines were made to harmonize with those of the architecture to which it was linked. It had three chief elements—marble, water and the foliage—flowers were incidental.

Gardens of the Renaissance.

An enlargement of the hillside villa marked the third stage of evolution, and brings us to the elaborate garden of the Renaissance. The terrace was broadened into an elaborate geometrically arranged area, in which were disposed sculpture, statuary, sundials and benches of marble. Flower beds were arranged in elaborate geometrical design, and numerous architectural features were introduced, such as wall-beds, pergolas, fountains, cascades and other ornaments.

It is this enlarged garden, in its great variety of character and feature, yet always rigidly formal, that has aroused so much interest and the desire on the part of many garden lovers in this country to reproduce it here.

About Naples we find the slopes of the hills covered with compact walled villas arranged with convenient paths, a few cypresses standing like sentinels about the house, here and there an olive, orange or lemon tree, and an abundant growth of fig and grapevines.

Noted Examples.

In Rome, the villas average larger; they are more elaborate and contain a greater variety of trees, shrubs and plants. The celebrated Villa Borghese is a beautiful public park with fine drives, interesting groves of umbrella pine, hedges or ilex and boxwood, the latter frequently forming a background for statuary. It is well kept and contains numerous elaborate flower beds. Flower beds are frequently arranged with a statue for a centerpiece. Such a bed in the Borghese has for its centerpiece an unknown statue found in the Forum;



New Carnation House of L. Cousins, Jr., Concord Junction, Mass.

out a doubt is the most promising of all the new pink varieties in sight at the present time. The bloom is very large, of fine form and substance, is well built up in the center, color a very attractive pink, lighter than Mrs. Lawson (approaching rose pink), long stiff stems, a prolific bloomer, calyx apparently split-proof, plant vigorous and healthy.

From Flatbush I proceeded to the Cottage Gardens Company establishment, at Queens, N. Y. Unfortunately Mr. Ward was away from home. However, I had the good fortune to fall into the hands of R. T. Brown, who looks after the financial end of this very large and thriving concern. Mr. Brown is quite familiar with all the details of the establishment; in fact, he seems to have all the valuable information that one is always eager to pick up at these places at his fingers' ends. To hear Mr. Brown talk about the good, the bad, the strong or the weak points of the numerous varieties grown here, one is inclined to think that he spent all of his time watching them grow and taking notes on their general behavior and habits. Besides the many large greenhouses of the most modern types and substantial character there is a very large acreage devoted to the growing of ornamental nursery stock. Here the mistake so often made by many nurserymen of growing five or six trees or plants in the space where one only ought to grow is studiously avoided, and the results obtained are very gratifying indeed. Every plant and tree grown here is a beautiful specimen, equaling the finest stock raised by the best nurserymen. It was really a pleasure to see these handsome specimens, especially in the evergreen plot, with all the parts perfectly developed—well balanced compact trees fit for the finest lawns or the spacious grounds of the multi-millionaire.

In the greenhouses a large number of varieties of

form, splendid stem and in every way one of the most desirable varieties in this color.

That the proprietor of this fine place is enterprising and progressive can easily be judged from the style and general character of the greenhouses and other buildings. Last season a neat office building was erected, which for its elegant interior finish, for the high quality of its furnishings and for the admirable appointments throughout would be difficult to equal in the largest florists' establishments of the big cities. The fine water colors on the walls of the office bear ample testimony to the artistic tastes of Mr. Ward.

Berlin, Ont.

II. L. JANZEN.

L. Cousins, Jr.'s, New Greenhouse.

The accompanying illustration shows the new carnation house added to the plant of Leonard Cousins, Jr., Concord Junction, Mass. It contains some 10,000 plants. Mrs. Lawson and its white and variegated sports, are grown here to perfection; some of the finest Mrs. Thos. W. Lawson carnations seen in the Boston market the past season, were sent from here. Fair Maid, Queen, J. H. Manley and Harlowarden are also grown in quantity.

Pansies form another specialty of Mr. Cousins who reports that they have wintered finely this season. The covering has been removed and the plants show up in excellent condition. By a careful selection of plants and growing his own seed for years Mr. Cousins now produces an excellent strain of pansies. He has already started shipping to an increasing trade of florists all over the country.

for its edging coral rock, inside of which were planted rows of white-leaved gnaphalium, pink ivy-leaved geraniums and white Paris daisy, in the order named; behind these followed blue aceratum, balsamin, scarlet salvia, African marigolds, cunmas, dahlias, New Zealand flax and Abyssinian banana. The only thing Italian in character in such a flower bed is the statue in the center; the floral treatment is borrowed from western Europe and is quite out of place. In Rome there are many beautiful water gardens and one is often surprised at the great effects produced with a comparatively small flow.

In southern Italy a large portion of the villa is generally devoted to fruit culture, especially figs and grapes. The latter are supported on live elms or poplars whose trunks and short pruned limbs serve as trellises.

Florence undoubtedly holds first place for beautiful environment and fine villas. The famous Boboli garden of the Medici family is one of the largest and best preserved. It is entered through an avenue arched with ilex trees, leading to a vast amphitheatre at the rear of the Pitti Palace. It contains many fine avenues which are perfectly straight, and to me much less interesting than the beautiful Rampa farther up the hill. The Rampa is a public driveway leading along the face of the mountain, lined on both sides with charming villas and commanding a fine view of the city and its surrounding mountains. Its culminating point is the Piazza Michael Angelo, a magnificent terrace affording a commanding view of the vast amphitheatre-like landscape in the city of art, forms the arena.

In Florence and northwards, garden arrangement has suffered encroachments of the ideas of western Europe, and it is only in the more neglected gardens that the architectural features of sixteenth century remain. Many of the older villas have been occupied by foreigners, and foreign ideas chiefly French and English, have been introduced. The architectural garden too, affords little opportunity for elaborate floral display, and it has been ruthlessly modified to overcome this limitation.

Whenever we find elaborate garden decoration, it follows French ideals, the only difference being that the colors harmonize better and the designs are more graceful in form than the French.

The grounds of the Milan Exposition last year were profusely planted with formal flower beds and borders all of refined and tasteful arrangement, but there was not a single example of the old Italian style of planting. The Italian garden of the sixteenth century is virtually a thing of the past. It is not built in Italy now and in but rare instances are the old ones kept up. Expense of construction and maintenance seems to stand in the way. There is also a taste for more lavish floral display to which the arrangement of the old garden is not adapted.

We also find in the north of Italy occasional fine examples of natural gardening. In these the most notable feature is the skill with which the gardener uses water in his composition. In American gardens we have hardly any water—we use it in our park, why not in our gardens?

Italian Gardens in America.

The best examples of Italian gardens in this country are much more floral than perhaps any in Italy. There the flowers are a secondary consideration, here the garden exists for them. A natural garden is a much better home for flowering plants than an architectural one on the Italian plan; yet there are many features of the Italian garden which may be profitably introduced here. It will be prudent to say, however, that it should never be attempted upon a small scale or where there is any thought of economy. It is expensive to build, expensive to plant and the most expensive of all gardens to maintain. Yet there are instances where a modified Italian garden may be advantageously introduced. It may be made a suitable setting for an imposing residence, and its features may add much to an architectural design. The present method of using cement, where cut stone was formerly used, will reduce the cost of construction. Almost any kind of stone may be closely imitated by mixing the stone, crushed, with the outer layer of cement. Even the pergola—pillars and roof—may now be reinforced cement construction, which if well done, should last as well or better than stone.

The beautiful cypress is not hardy in our climate, but we have a satisfactory substitute in the pyramidal Arbor vite, *Thuja occidentalis* pyramidalis.

Water may be profitably introduced as an element of garden construction. Water pipes and basins must, however, be arranged so as to be thoroughly drained off during Winter to avoid injury by frost.

To maintain a continuous floral display, the plants must be frequently renewed. In many of the older gardens of Italy we find the floral collection confined almost exclusively to pots and vases. In an old garden in Naples last Summer I found growing in pots and vases amaryllis, agave, carnations, chives, chamærops, chrysanthemums, lantana, Pheasant-eye pink, pelargonium and phornium, while I found only fourteen kinds of flowering plants growing in the grounds, of

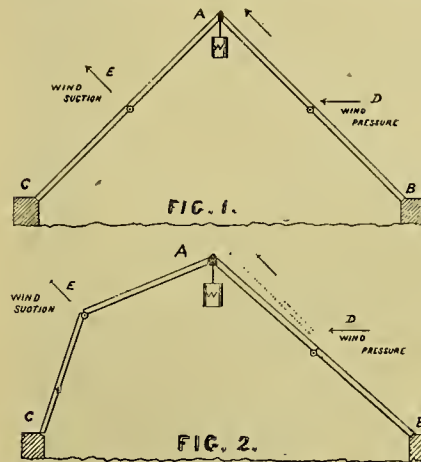
which only two, petunia and amaranth, were in bloom.

The Italian garden as a whole is not to be recommended for general adaptation here. There are of course exceptional places like two of our beautiful estates in Brookline, a new estate at Sharon, Conn., and the vast estate of Biltmore, where it may be appropriately used.

American conditions differ from those of any other country and no imported style exactly fits them. Each garden location calls for a particular style of treatment, which will fit its conditions and environment, and I am forced to the conclusion that in the majority of cases, the more natural the arrangement, the more satisfactory will be the result. Where a formal treatment is inevitable, the English terrace garden with a single parapet will usually be found more satisfactory than the elaborate and expensive sixteenth century garden, which the Italians themselves no longer build.

Wind and Greenhouse Roofs.

There is an idea, more or less general, among builders, that a floor, when first laid, should be arched up in the center to allow for a settling there that may afterwards occur. There is no scientific authority for this. A floor should be level when laid, and its foundations, including often a beam in the cellar, supported sometimes on posts under the center of the floor, should have their proportionate amount of bearing surface on the soil to the weight carried by them as compared to the weight carried on the walls, so that the settlement of all may be alike. To crown a floor up in the center is an acknowledgment that the foundations, carrying the center of the floor, are not sufficient to keep it from sinking with the accompanying cracking of partitions with door frames going out of square and other evils that result.



Wind and Greenhouse Roofs. Reproduced from Canadian Florist.

But what has this to do with a greenhouse roof? Nothing, if it were not that some builders have got the floor crowning idea so firmly rooted in their craniums that they want to apply the same principles to the sash bars of a greenhouse roof. To this we would take no objection were it not that it sometimes gets the owners of the houses, as well as ourselves, into trouble. When any one puts you to unnecessary trouble then it is time to speak with a view to securing an improvement of conditions.

To illustrate why the sash bars of a greenhouse should not be crowned I submit sketch Fig. 1 and Fig. 2, in illustration. In the roof here illustrated the rafters act partly as floor joists to support the sheathing of the roof, but they act also as columns or posts partly supporting the weight of the roof represented by W in the figures referred to.

The opposing sides of the roofs by leaning against each other at the ridge, help to support one another. For instance, the lower end of roof, side A B rests on the wall at B, the upper end rests on the rafters of the other side of the roof, said rafters, therefore, acting as pillars or posts to convey one-half of the weight on the roof and carrying this strain direct from the ridge A to the opposite wall at C.

Further, let D represent the pressure of a wind storm blowing on the side of the roof A B, and consider the effect on the roof. A greenhouse roof weighs about 2½ pounds a square foot, and it may be thought that when we allow an additional 7½ pounds for a snow load that our whole duty is performed, but in a windy locality, where the full sweep of the wind unbroken can get to the side or ends of your houses, it is not so.

The following data are taken from good authority on wind pressure:

Pleasant breeze, 4 lbs. a square foot.

Very high wind, 8 lbs. a square foot.

Wind storm, 10 lbs. a square foot.

Big storm, 20 lbs. a square foot.

Hurricane, 40 lbs. a square foot.

Thus, a hurricane will put four times more pressure on your roof bars than the average calculation for a snow load in Canada. There is a difference, however, in the nature of this pressure. A snow load is all downwards, a wind load is not, but rather at places has an upward suction tending to raise the roof. This was explained in my article on roof trussing, published in the Canadian Florist last Spring. How, then, is the wind pressure met in the illustration under consideration?

Half of it is met by the bottom end of rafter secured to wall B, which is considered a fixture. The other half is carried at the ridge and conveyed to the wall C by the rafters A C acting as posts. Thus the post strain on the rafters A C is half the pressure due to the weight of the roof itself plus half the pressure due to the wind.

Everyone should know that the whole virtue in the ability of a slim post, such as a rafter is, to carry weight is in keeping it absolutely straight. Let it deviate from a true line one-half its diameter, and it will support but one-fourth the load it would otherwise carry, but let it deviate its entire diameter and it will support nothing. Test this experimentally if you will by placing an ordinary folding carpenter's rule in the position illustrated at A C, Fig. 1. While the rule is straight it will carry all the rule is capable of carrying, acting as a post, but while continuing the pressure at A give it the least pressure upwards in the direction of the arrow E and see what happens. It supports nothing while its center piles up in the air, and the structure is a wreck.

Straight Rafters.

Therefore, to provide against a wind pressure, such as described, it is necessary, in the case under consideration, to be sure that the rafters on the suction side are straight. Since provisions made for carrying the roof prevent them from being forced downwards, if there is to be any "crowning" done let it be "concave" on the upper side of the roof, and let any wind ties put in, tie it in this position. Then, when there is a downward sag or bend in the rafters the post pressure, due to the weight of the opposite side and any extra pressure due to the wind, tends to further spring the sash bars down, and so resist the upward suction represented at E, tending to lift them upwards and create that flopping of the sash that in a wind storm sometimes threatens the safety of the roof or may wreck it.

These remarks apply mainly to roofs supported on walls and purlins, but not to roofs having posts under the ridge, for the reason that in the latter the post pressure is taken off the rafters and conveyed direct to the ground through the ridge supports. This note serves to further illustrate the correctness of the position taken, since with posts from the ridge to the ground direct there is no post pressure on the rafters. But, if the ridge posts are taken away then the rafters have to do the work of the posts.—R. W. King, in Canadian Florist.

American Carnation Society.

Variety Registered.

By James D. Cockroft, Northport, N. Y.

SENSATION.—Color, a beautiful shade of bright cerise; well built flower of large size; calyx perfect, does not burst; stem from 24 to 30 inches and over from September to July; keeping qualities of the best; early, free and continuous; habit, strong clean growth, every shoot producing a flower.

ALBERT M. HERR, Secretary.

Lancaster, Pa.

Notice to Florists' Clubs.

At your next meeting get a list of your members who would like a carnation measure. Mail the list to Kroeschell Brothers Company, 33 Erie street, Chicago, Ill., and they will mail a measure to each member free of charge.

GLADIOLUS PEACE.—An illustration of this gladiolus appears as a supplement to The Gardeners' Chronicle, London, England, of March 30, 1907. The variety was raised by H. H. Groff, Simcoe, Ont., and is being cultivated by Arthur Cowee, Berlin, N. Y. It is considered to possess exceptional merit, and has received certificates from the S. A. F. O. II., and the Canadian Horticultural Association, it is said.

A variety of the same name, described as of flesh-pink color with violet spot and white tips, is catalogued by Kelway & Sons, Langport, England. It is unfortunate that two new varieties should bear the same name.

FOR THE RETAILER

Weddings.

This is a month of weddings, and the week just past has been a busy one. Many wedding decorations are particularly acceptable to the trade the week following Easter, which is generally admitted to be a dull time, and prove a good outlet for stock left on hand, especially lilies, which are beginning to be a glut already and not worth a third of what they were bringing last week for even inferior flowers. A wedding decoration of the type that uses up surplus Easter stock, executed by a leading florist, created much favorable comment, and showed what may be accomplished with a miscellaneous supply of material to work with.

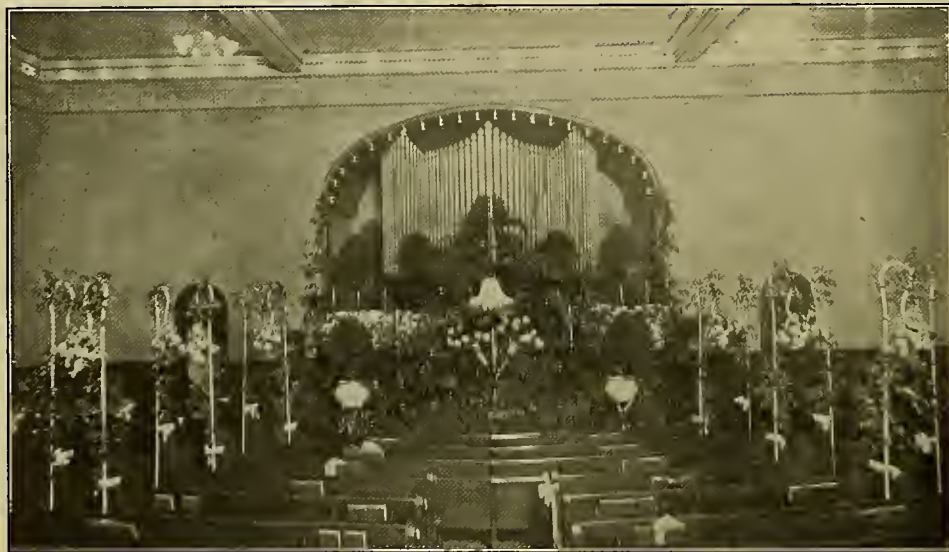
The chancel was banked high on either side with palms, the lofty effect being obtained with made-up stumps, in the tops of which were inserted giant palmetto leaves eight to ten feet long. Smaller palms graduating down from these, were brought out to the front, natural palms being used to finish off. Over the altar a Gothic arch frame had been erected. This was made of heavy wire, with a series of pot holders, the frame being hidden with wild smilax. Lilies in pots were used in the arch, the effect being very loose and airy. On the altar proper, turned over on its side, was an immense plant of Cibotium

Cattleya Schroderæ being intermingled with the ferns. Large French bows of pale orchid ribbon completed the arrangement.

The canopy under which the ceremony took place was in the form of a semi-circular pergola. Wild smilax was thrown carelessly over it, falling in graceful festoons. Wide open Mme. Abel Chatenay roses were fastened on the smilax, giving the effect of a beautiful climbing rose bush. Formal looking Italian pots filled with lilies and connected by ribbons, formed the aisle up which the bridal party walked. The stairway, which was a very wide one, was lined on either side with Crimson Rambler roses in pots, the pots being covered with smilax. The effect was that of a complete hedge of roses in full flower. One side of the hall was banked with the beautiful new rhododendron, Pink Pearl, its large masses of pink flowers proving quite an attraction. The bride carried a formal bouquet of white camellias, while the maid of honor held a basket of the same flowers in pink, tied with very pale green ribbon.

Polygonatum Multiflorum.

A firm of growers offered for sale this week "A new variety of lily of the valley, two feet high." Orders were given and the arrival of this new marvel anxiously awaited, when, lo and behold! on unpacking we discovered our old friend, Polygonatum multiflorum, or Solomon's seal. The plants were admittedly well grown, and distinctly a novelty in the florists' shop; but why they were sold under the name of "lily of the valley" was a mystery. This might possibly go through in some instances, but they were immediately recognized in most stores, even by customers. Possibly the joke was on the retailer, as orders were eagerly given for "lily of the valley, two feet high."



Church Decoration by A. N. Crouch, Knoxville, Tenn.

Schiedei, with a ten-foot spread, forming the background for a large sunburst cluster of lilies. On either side of the choir stalls rhododendrons and azaleas were banked, dark crimson starting at the altar rails, then azaleas of the Van der Cruyssen coloring, next Professor Wolters and Vervaneana, finishing up with the pure white varieties. Masses of spiræa and Dentzia gracilis, gracefully arranged, relieved the backs of palms facing the guests. Azalea mollis in its varying shades was used on the pews up the center aisle, each cluster being tied with pale yellow ribbon. A large mass of genista was arranged over the entrance at the rear of the church, and the supporting columns were entwined with garlands formed of wild smilax and Easter lilies.

It will be seen that three or four colors were used in this decoration, yet they were so carefully blended and artistically arranged that the most critical observer could scarcely find fault; and I have seldom seen a decoration that was so generally admired.

A Mirror Decoration.

At a home wedding this week a distinct feature of the reception room was a large mirror measuring ten feet in height by four feet wide. Some long strings of Asparagus plumosus were draped on one side and tied in with ribbon about half way down. At the highest point of the mirror was attached a large specimen plant of Dendrobium Wardianum; other plants of this orchid were placed at varying distances down the right hand side of the mirror, the spikes of flower being allowed to hang naturally from the plant. On a low shelf, about eighteen inches from the floor, were placed plants of Adiantum Farleyense, starting low to the left and rising gradually to a height of about two feet,

Beautiful Wreath.

The handsomest wreath I have seen this season was part of a large order taken this week. The wreath itself was made solid with white violets, with a cluster of purple lilac and lily of the valley; this was hung over a cross of purple violets standing on a square base, the base being filled in with lilies and white lilac. No ribbon was used.

D. RAYBUN.

A Southern Church Decoration.

The accompanying illustration shows the decorations of the Presbyterian Church at Knoxville, Tenn., for a wedding, recently executed by A. N. Crouch, florist. An innovation was the use of large candelabra, many of which are heirlooms, hundreds of years old. Large numbers of electric lights were intermingled among the palms and ferns, providing a beautiful effect.

H. Y.

Forcing Gladiolus in Winter.

Editor Florists' Exchange:

I recently read in The Florists' Exchange some communications regarding the growing of gladiolus in the greenhouse in winter. In France they plant the gladiolus like hyacinths, tulips or lilies, and have flowers all winter. Why is this not done here? I am sure that, with the number of varieties of gladiolus now on the market, some sorts could be found suitable for forcing in winter.

Wood Haven, N. Y.

BEAULIEU.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words: each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Avenue. My facilities for delivering flowers for any and all occasions are unequalled. I can give prompt service to steamer and theatre trade. Telegraphic orders solicited.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of reasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

WREATHS.—When calling on Messrs. Wills & Segar a few days ago I was rather interested in what to me is a new departure, called "forest wreaths," made up with large fir cones, teasels, thistles, echinops, etc., with a ground-work of beech, yew, etc., some being in natural colors and others dyed. They were beautifully made up and Mr. Segar told me that his firm did quite a large trade in them at Christmas, most customers preferring them to the holly wreaths, which have become very popular for putting on graves at Christmas time. I also find wreaths are made up of various sorts of fresh foliage, with a bunch of flowers on one part only. Colored flowers are generally introduced; mauve and purple are favorite colors. I recently noted some pretty designs with a groundwork of heather and a few white flowers standing up. Color in almost all funeral designs is becoming more and more in use, especially in foliage; and when natural bronzy foliage is not procurable dyed foliage is substituted. A. H.

DYEING FLOWERS.—Writing in condemnatory terms of this practice, as observed in London, England, a correspondent of the Chicago Inter-Ocean says:

"Plant or flower 'faking' is an old art. One of the most familiar examples of it is the 'carrot fern.' This merely consists of the crown of a carrot cut off, fixed firmly by means of wooden pegs in a pot of soil, then allowed to produce a tuft of green foliage, and in this state palmed off on unsuspecting town or suburban folk as a rare or choice fern at sixpence or so each. Beet, parsnip, and even mangold roots are treated in the same way, and disposed of as the latest floral wonder during the Spring months."

More inspiration for the fellows who "fake."

New York.

News of the Week.

From a musical standpoint it can safely be said that the Ladies' Night at the club meeting on Monday evening last was an immense success. John H. Nugent, Jr., was never in better voice and he was most liberal with his numbers, never once refusing to respond to a recall. The Rickards Brothers were also in splendid form and fully maintained their reputation as entertainers. Some of their selections were culled from the latest hits at Broadway theaters and they never failed to please. The outside talent provided by Mr. Nugent was all good and deserves the thanks of the club members for so liberally contributing to our enjoyment. It came near being an evening without Scotch music (the artists above referred to dealing strictly with the classical), for it was just at the close when John Birnie and a few of his compatriots gathered around the piano and commencing with Annie Laurie the airs of Bonnie Scotland were gone through in unison one by one until Auld Lang Syne was reached and duly enjoyed by the performers, giving a fitting finale to our Ladies' Night.

The weather is anything but suitable to the best interests of either the florist or the seed business. Tuesday we were treated to a snow-storm, which lasted all day, and traffic of all descriptions was very much impeded. With the ground about covered with snow in April, the check to the seed trade can better be imagined than described.

Wm. Elliott & Sons' auction room is a busy mart on Tuesday and Friday of each week, and immense quantities of imported hardy stock is being disposed of under the hammer. Visitors who are in the trade should make it a point to attend these auction sales, if possible, while in the city. There is always something going that would be of much interest to an outsider, as well as local tradesmen.

Evidence is not lacking that the average florist is equal to any emergency in the chase after the nimble dollar. One of the best things seen in a long while is the sign of a Greek flower store established in the heart of a settlement where the residents are chiefly from Erin's Isle. The sign is large and conspicuous and reads "The Shamrock."

Josephine Jeslin, who for some time ran a retail store at 2603 Broadway, has filed a petition in bankruptcy. The liabilities are \$2,512 and the assets are \$517. This seems but a simple announcement, but in connection with a failure like this there are, no doubt, some benevolent wholesale florists who suffer in silence.

Word comes from Milan Center, N. Y., a hamlet located somewhere in the neighborhood of Poughkeepsie, that there will be several greenhouses erected there during the coming Summer for the cultivation of violets. We are apt to think at times that there are about as many violets being grown now as can be disposed of at a profit, but, of course, the growers know better than we do just how cheap the violets can be sold at and still yield a profit.

F. B. Vandegrift & Company, custom house brokers, at 66 Beaver street, will move on May 1 to the Kemble building, 15-25 Whitehall street.

Bertha Cohn, a florist, 17 East Fifty-ninth street, has filed a petition in bankruptcy with liabilities of \$4,180 and assets of \$20.

St. Louis, Mo.

The Week's News.

W. C. Smith, Carl Beyer and Frank Weber, trustees of The St. Louis Florists' Club, held a meeting at Mr. Beyer's place on Thursday night, and report that they completed all the arrangements for the rose show to be held this week, Thursday afternoon, in conjunction with the club's monthly meeting. The kind of entertainment they will give for the club's twentieth anniversary, June 28, was talked over. A banquet or a smoker was suggested, also to have all the ex-presidents present.

The rose show will have ten classes, 15 to a vase, the prizes being \$3 for first and \$2 for second, making \$50 in all. The varieties mentioned are the Bride, Bridesmaid, Kaiserin Augusta Victoria, Mme. Abel Chateauy, Killarney, Richmond, Liberty, Perle des Jardins, Golden Gate and a mixed vase. The prizes can only be competed for by club members and local growers.

J. H. Denker, father of Edwin Denker, florist, St. Charles, was elected mayor at the last Tuesday election.

Professor Trelease, director of the Mission Botanical Garden, returned home a week ago from the West India Islands, bringing many new and valuable plants. Professor Irish reports that he will lecture before the ladies' club at Webster Groves next week.

The Bentzen Floral Company report a large Easter business in plants and plenty of orders ahead for planting out just as soon as the weather permits.

George Wallbart has refurbished his place on Grand avenue. As it looked like moving day during the Easter rush, everything sold clean in plants and cut stock.

Mrs. May M. Pape, wife of Fred W. Pape, florist and former superintendent of public parks, died on Sunday, April 7, after a short illness. Mr. Pape is well known among the local trade who extend their deepest sympathy.

Mrs. M. M. Ayers had a busy week with funeral work and a large wedding. Their Easter trade was even greater than they expected. The show house looks well with its new stock of palms. Carew Sanders is still under the doctor's care, but considerably better than a few weeks ago. A complete recovery is looked for this Summer.

C. Young & Sons Company are doing a rushing business in the plant and seed trade. An extra force is kept busy all day long. The cut flower department, under James Arata, has plenty to do in all lines. ST. PATRICK.

Washington, D. C.

News Items.

General regret has been expressed at the Department of Agriculture over the loss of Dr. H. J. Webber, chief of Division of Plant Breeding Investigations, who recently left for Cornell where he has accepted a position as head of a new department in that university. While connected with the Department here Dr. Webber made for himself a world-wide reputation. The work he has assumed at Cornell will be parallel with his former work, only far more searching, as he aims to discover the laws of plant heredity. Much has been learned along the line of the effects of heredity, but little is known of its causes. His aim will be to classify the laws of heredity and apply them practically. Besides having done much along the line of orange culture, he has made many improvements in both the tobacco and cotton crops. It is claimed that in the matter of cotton alone he has developed a method in the selection of seeds for the planter that should add \$40,000,000 annually to the value of the American crop.

In our last issue we mentioned the endeavor of Fred. D. Owen, who is connected with the Public Buildings and Grounds, to have the florists of this city unite with him and his colleagues and aid the civic government in further beautifying the Capital City. Mr. Owen's first meeting was held on April 6, but by reason of that date falling on Saturday, and the existing inclemency of the weather, few of the trade were able to attend. George Brown, Superintendent of Public Buildings and Grounds, was present to represent the government, while Z. D. Blackstone spoke in behalf of the florists. It appears that Washington is far behind many other cities in this class of work, notwithstanding the fact that many thousands of plants are annually placed in the public and private gardens here. Many private individuals do much to adorn their respective abodes with shrubbery and flowers, but there seems to be an underlying deficiency in the sources from which necessary knowledge of a reliable character can be readily obtained. The dissemination of such knowledge can only be effected through the experienced and competent gardener; hence Mr. Owen's request. It is believed that as soon as the worthy effort becomes known, there will be a ready response not only from florists but from those anxious to assist the cause and to beautify their surroundings. The idea should appeal to every progressive man connected with our profession, not only from the standpoint of beautifying the National Capitol in which he resides, but from the fact that his support means a stimulus to the plant industry. The date of next meeting was not decided upon, but due notice will be given. Let us each strive to lend a helping hand to this worthy cause. J. L. C.

Newport, R. I.

Trade Notes.

Indications point to a strong demand for *Rhododendron maximum* this Spring; several Newport men are already in possession of good-sized orders for early delivery.

Large native cedars stood the Winter remarkably well. I refer, of course, to the cedars moved from their native wilds within the last two or three years on to estates in town. There is no question of the immense value of these large cedars in producing immediate decorative effect, and if it turns out that a fair proportion of the number transplanted will survive, a great many more will be used.

Spring operations are now underway in spite of the best efforts of the weather man to still further hinder the progress of necessary and seasonable outdoor work. The past Winter has been one of the severest on record, but not until the snow had all melted was there any idea of the damage to things outdoors. Hybrid perpetual roses suffered to an extraordinary extent in some places; whole rows of certain varieties were killed down to the ground, making them of no practical utility this season and for that reason necessitating their removal and the purchase and planting of others to take their places. There are no roses in Newport to supply the want indicated, so that the supply will have to come from out of town. It is out of the question to order from any European source now for this Spring's planting.

There have been a great many hybrid tea roses planted during the past year or two, and luckily for the larger growers of these they lifted the most tender of the varieties out of the open ground and either heeled them in cold frames or housed them in some other way. The hardier of the hybrid teas or those known to keep pretty well outdoors were left out, but well covered. These survived in fairly satisfactory numbers, although some growers find that a great many are gone.

It is too early yet to say anything about the probable fate of the large number of specimen hydrangeas outdoors, but it is feared that many of these are put out of commission for this year's flowering, which is very regrettable when it is considered what a prominent feature of Newport hydrangeas are in Summer.

Although there are not very many carnation growers in Newport (Stewart Ritchie being now the largest), much interest was manifested in the proceedings of the convention recently held in Toronto, not only because of the importance of the convention as a whole, but because of the new carnations lately introduced and a curiosity concerning how they showed up and were recognized there. Everyone who saw Winsor has been delighted with it, and a great many are delighted at the promise it gives of being profitable to Mr. Pierson, who is recognized here as one of the most enterprising men in the business. The success of this carnation is also gratifying to many here because of their friendship for Peter Murray, the originator. It would be a generous thing for some of those-growers of carnations to ship a few blooms of their latest introduction, grown as no doubt all their product is, to perfection, to some of our meetings, where I am confident they would not only be greatly appreciated and instructive, but would also receive at our hands all the recognition within our power, commensurate, of course, with their comparative superiority, as we could to the best of our knowledge discern. The essays read at the convention were read here with much interest. The impression seems to be prevalent that John Birnie has modified his views regarding the growing of carnations of the highest development within the past year, his views now being just like what he and other able men would like in the carnation of the future—assured moderation in everything.

V. A. Vanicek is preparing to ship nursery stock.

There is already a demand for good kentias and when the season opens the call will be brisk indeed.

The supply of large plants of the Boston fern and its varieties is not at all extensive in Newport; a great many

are used by florists during the Summer. *Pandanus Veitchii* is also somewhat scarcer than usual.

Adiantum Parleyense is called for already both in its small size and as specimens in 6 and 8-inch pots at an increased price.

Dahlias promise to be in pretty good demand again this year; several large growers are giving up collections and are going in more for standard sorts of merit and utility.

Mr. and Mrs. Carl Jargens arrived home from Europe just before Easter; they are both much improved as a result of their trip abroad.

Gibson Brothers Tuesday of last week opened a new store on Washington Square, one of the best if not the best all the year round locations in the city. They did a very large Easter business; their stock was all first class including the bulk of their lilies (their own growing). John Gibson will have charge of the new store, Joseph will superintend the greenhouse work and Thomas the landscape department.

The bids for the care of the city parks will be opened this week. It is likely that a new man will have the work this year. Whoever gets it will have to purchase large quantities of material for bedding for Summer as well as bulbs for Fall planting.

Fred. M. Smythe made one of his periodical visits to Newport last week. He was accompanied on his return trip to New York by Mr. and Mrs. Charles Hurn. Mr. Smythe engaged the services of a competent Newport man to select and move large numbers of *Rhododendron maximum* from the Island to places where Mr. Smythe is carrying on landscape operations.

Stewart Ritchie had a good crop of carnations for Easter but nothing like sufficient for the demands. Mr. Ritchie thinks Winsor will make a go of it and will follow up his opinion by planting this variety in considerable numbers.

Oscar Schultz busied himself last week hunting up kentias for a customer. By the way, kentias in large sizes are scarce; that fact is worth noting.

Gardeners are again this year planting large evergreens; Andrew Meikle is the first to start.

The Italian garden at Mr. E. C. Knight's place will this year be planted by Charles Cowles with small *renisporas* exclusively. Ten thousand plants will be used in the work. V. A. Vanicek of the Rhode Island Nurseries has secured the contract. D. M.

Pittsburg.

Club News.

The April meeting of the Florists' Club was fairly well attended. The subject for discussion was "Roses and Bulbous Plants." There was a good exhibition. Three new members were elected and several proposed. The delinquent list was gone over with the result that some members were stricken off the list and a few held over for a month. Fred. Burki of the Bakerstown Rose and Carnation Company made a fine exhibit of roses Mme. Abel Chateauy, Wellesley, Bride, Kate Moulton, Bridesmaid, Richmond, Killarney and Mme. Cusin, all good sorts which are extensively grown in our vicinity. Richmond was exceptionally fine and pronounced by all the best rose of its color. The Phipps conservatory at Schenley Park showed some fine pot hyacinths; William Hamilton, superintendent of the conservatory in Allegheny Parks, fine plants of *Cineraria stellata*, glonias, hydrangeas, gesneras, cinerarias, and good amaryllis, favorites of his for many years. Dr. Shafer, the orchid enthusiast, sent in a hybrid *Laelio Cattleya* of a very odd color of dark red not often seen in orchids.

John H. Bochmann of the Holland Bulb Company, who was present at the meeting, spoke about bulbs and how they were grown for the trade. He also stated that the several severe dry spells the past season were responsible for the poor results in tulip forcing, as the foliage was destroyed, which checked the ripening of the bulbs.

At the next meeting the "Credit System" will be thoroughly discussed by Messrs. Langhans, Bader, Elliott, Randolph, Ludwig and several others.

E. C. REINEMAN.

STRATFORD, CONN.—Frank E. Conine has recently purchased a large farm here to be used by The F. E. Conine Nursery Company to increase its business.

LARGEST STOCK IN THE COUNTRY

PRIZE-WINNING ROSES AND GARNATIONS

CHRYSANTHEMUM CUTTINGS

BEST COMMERCIAL VARIETIES ONLY

ROSES

The New Rose "Morton Grove," winner of the Silver Cup at Chicago Flower Show, 1906, for best new rose, will be disseminated in 1908.

	R. C.	2 1/2-in.	2 1/2-in.	3 1/2-in.
	Per 1000	100	Per 1000	Per 1000
Maids.....	\$18.00	\$4.50	\$40.00	\$55.00
Brides.....	18.00	4.50	40.00	55.00
Gates.....	4.50	40.00	55.00	
Uncle John.....	4.50	40.00	55.00	
Chatenay.....	4.50	40.00	55.00	
Richmond.....	4.50	40.00	55.00	
Perle.....	5.00	45.00	60.00	
Smirise.....	5.00	45.00	60.00	
Rosalind Orr English.....	5.00	45.00	60.00	
Kaiserin Augusta Victoria.....	4.50	40.00	55.00	
American Beauties, rooted cuttings, May delivery \$3.50 per 100, \$30.00 per 1000; 2 in. pots, April, May and June delivery, \$7.00 per 100, \$60.00 per 1000.				
Bench Plants, Roses, cutback, 2 years old, Uncle John, Perle, Rosalind Orr English, and Smirise, n.w. ready for limited time, \$5.00 per 100 - \$40.00 per 1000.				

CARNATIONS

	Rooted Cuttings	2 1/2-in.
	per 100	per 1000
White Lawson.....	\$3.00	\$25.00 \$40.00
Gov. Wolcott.....	2.50	20.00 3.50
Pink Lawson.....	2.00	17.50 3.00
Euchantress.....	3.00	25.00 4.00
Victory.....	6.00	50.00 7.00
Cardinal.....	25.00	5.00
Red Lawson.....	4.00	35.00 5.00
Prosperity.....	4.00	35.00 5.00
Variiegated Lawson.....	4.00	35.00 5.00
Glendale.....	5.00	40.00 6.00
Craig.....	5.00	40.00 6.00

Ready for shipment, from 2 1/2 in. pots, Pink Lawson, Red Lawson, White Lawson, Variiegated Lawson, Glendale, Gov. Wolcott, Cardinal, and Robt. Craig.

VICTORY, the Red Carnation. Specially fine stock, \$6.00, \$50.00 and \$7.00.

WHITE

	R. C. per 100	2 1/2-in. per 1000
Robinson.....	\$2.00	\$17.50 \$22.50 \$22.00
Crawford.....	2.00	17.50 2.50 22.00
Eaton, Timothy.....	2.50	22.00 3.00 27.50
Alice Byron.....	2.50	22.00 3.00 27.50
Touset.....	4.00	35.00 5.00 45.00
J. Nonin.....	4.00	35.00 5.00 45.00
Madam Paul Sahut.....	5.00	45.00 7.00 65.00
Chadwick.....	2.50	22.00 3.50 30.00
Adelia.....	2.00	17.50 3.00 27.50
Kath.....	1.50	13.50 2.50 22.50
Merry Christmas.....	2.00	17.50 2.50 22.50
White Bonaffon.....	2.50	22.50 3.50 30.00

RED

Intensity.....	2.00	17.50 3.00 27.50
Shrimpton.....	2.00	17.50 3.00 27.50

PINK

	R. C. per 100	2 1/2-in. per 1000
McNiece.....	\$2.50	\$22.50 \$3.50 \$30.00
Maud Dean.....	2.50	22.50 3.50 30.00
Dr. Euguehard.....	2.50	22.50 3.50 30.00
Perrin.....	2.00	17.50 2.50 22.50
Shaw.....	2.50	22.50 3.50 30.00
New Rosier(best early pink).....	4.00	35.00 5.00 45.00

YELLOW

Col. Appleton.....	2.50	22.00 3.00 27.50
Bonaffon.....	2.00	17.50 2.50 22.50
Golden Wedding.....	2.75	25.00 3.50 30.00
Yellow Eaton.....	2.50	22.50 3.00 27.50
Reiman.....	2.50	22.50 3.50 30.00
Halliday.....	2.00	17.50 2.50 22.50
October Sunshine.....	2.00	17.50 2.50 22.50
Chautauqua Gold.....	2.50	22.50 3.50 30.00

FROM HEALTHY STOCK

POEHLMAN BROS. COMPANY

Morton Grove, Ill.

Chrysanthemums

WHITE.

Early—Willowbrook.
Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka.
Late—Mrs. McArthur.

PINK.

Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, Ethelyn, A. J. Balfour, William H. Duckham, Dr. Enguehard.
Late—Maud Dean, The Harriott.

YELLOW.

Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham.
Late—Major Bonaffon, H. W. Reiman.
Root Cuttings, \$2.00 per 100; \$15.00 per 1,000.

The 1000 rate obtains only when 250 or more of a variety are ordered.

A. N. Pierson, Cromwell, Conn.

FOR A SHORT TIME ONLY. Chrysaanthemums,

strong, rooted cuttings, per 100, \$1.00; per 1000, \$10.00. 2 1/2 in. pots, per 100, \$1.50. These are Glory of the Pacific and Polly Rose in mixture. Heliotrope, R. C. per 100, 75c; 2 1/2 in. pots, per 100, \$1.75; unrooted cuttings, per 100, 35c. Cash with order please.

PATERSON ROSE CO., Paterson, N. J.

Chrysanthemums

Major Bonaffon, white and pink; Ivory, Halliday, Yellow Jones, Enguehard, McArthur, Gillingford, Estelle and Bruna rooted cuttings and a few in 2 1/2 in. pots, \$1.25 per 100; \$10.00 per 1000; 600 at 1000 rate. Cash.

WM. KISSLING, 508 Oney Island Av. Brooklyn, N. Y.

CHRYSANTHEMUMS

White Shaw, the very best second early 'Mum' takes place of Robinson. No grower should be without it. \$4.00 per 100, rooted cuttings; unrooted, \$2.00.

CARNATIONS

Mrs. W. T. Omwake (Euchantress Sport), Pink Patten and Mikado, \$4.00 per 100, rooted cuttings; \$2.00 per 100, unrooted. CASH. HENRY EICHHOLZ, Waynesboro, Pa.

CHRYSANTHEMUMS CARNATIONS and ROSES

Novelties and all the standard varieties. MOSCHOSMA RIPARIUM, a valuable new Christmas flowering plant. Write for descriptive circular and price list.

CHARLES H. TOTTY, Madison, N. J.

250,000 CHRYSANTHEMUMS

POLLY ROSE, PINK PACIFIC, ROBINSON, WM. DUCKHAM, BONNAFFON, J. JONES.

Rooted Cuttings, \$1.25 per 100, \$10.00 per 1000. MONROVIA, ALICE BYRON, CHELTONI, EATON, IVORY, APPLETON, DR. ENGUEHARD.

\$2.00 per 100, \$15.00 per 1000. Healthy Stock. Enough said.

WM. BECKER, FARMINGDALE, L. I.

CHRYSANTHEMUMS

Bonaffon, Ivory, Appleton, Enguehard, Robinson, 2 1/2 in., \$2.00 per 100; \$17.50 per 1000. SALVIA and HELIOTROPE, 2 1/2 in., \$2.00 per 100. DOB-MANT CANNAS, named varieties, \$2.50 per 100; assorted, \$1.50 per 100. Cash with order please.

W. H. PARSIL, R. F. D. No. 5, Chatham, N. J.

Looking for a good, late, Yellow MUM? Invest in

GOLDEN DOME

There is nothing to equal it. Stock ready now. \$35.00 per 100; \$5.00 per dozen.

S. S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa.

MOON VINE

Ipomoea Multiflora, (A. W. Smith, originator), best pure white largest and most fragrant moon vine in the world. We have made a specialty of it for the past 15 years and are known as the moon vine growers of America. Grow 20,000 of them, 2 1-2 in. pots, \$5.00 per 100; now ready.

Cash with order, please. All goods must travel at purchaser's risk only.

GODFREY ASCHMANN, Importer and Wholesale Grower of Pot Plants, 1012 Ontario St., Philadelphia, Pa.

NEW DOUBLE PETUNIA THE QUEEN

a wonderful bloomer: flower: from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, in bud and bloom 2 1/2 in. pots \$10.00 per 100. Rooted Cuttings will make fine plants for Decoration Day. \$5.00 per 100. Vincas, variegated, 4 inch pots, strong plants, \$4.00 per 100.

THE YATES FLORAL CO. Joseph Traudt, Prop. Canajoharie, N. Y.

SALVIA ZURICH

THE EVERBLOOMING SALVIA

One of the most important novelties in bedding plants introduced for a long time, produces its wealth of flowers while very small and is in its full glory long before any other kind shows even a bud, grows also much dwarfer and more compact. Our stock is raised from cuttings and seed, which was procured in Zurich, Switzerland.

Strong plants from 2 1/2-in. pots, 75c. per doz., \$5.00 per 100, \$45.00 per 1000. For full description send for circular or see American Florists' Carnation Number, page 19, Florists' Exchange, page 185, and Horticulture, pages 140 and 202.

PERENNIAL GARDENS CO., Toledo, O.

COLEUS XXX STOCK

VERSCHAFFELTII, GOLDEN QUEEN, FIRE BRAND, LORD PALMERSTON, QUEEN VICTORIA, BEC-WITH'S GEM. Prices of Rooted Cuttings by Express, 60 cents per 100; \$5.00 per 1,000. GOLDEN BEDDER. Golden Yellow—the old original, true to name. Rooted cuttings, 75c. per 100; \$6 per 1,000. FANCY VARIETIES. In addition to those named we offer a fine stock of twelve kinds, 75c. per 100; \$6 per 1,000. Strong cuttings. Free from Mealy bugs. AGERATUM STELLA GURNEY, Dwarf Blue, 75c. per 100; \$6 per 1,000. PRINCESS PAULINE, a combine of blue and white in same flower, 75 cents per 100; \$6 per 1,000.

SALVIA SPLENDENS, tall standard, one of the best, rooted cuttings, 75c. per 100; \$6 per 1,000. BONFIRE, medium dwarf, very good, rooted cuttings, 75c. per 100; \$6 per 1,000. HELIOTROPE ROOTED CUTTINGS, 75c. per 100; \$6 per 1,000.

The 1000 rate obtains only when 250 or more of a variety are ordered.

A. N. Pierson, Cromwell, Conn.

First Class Stock

200,000 Bedding plants. Draer's superb, single, fringed PETUNIAS, M. VERBENAS, SALVIAS, AGERATUM, LOBELIAS, COLEUS, etc., strong, 2 in., \$1.75 per 100; \$16.00 per 1000. 100,000 GERANIUMS, best varieties, strong, branched, 3 1/2 in., \$40.00; 4 in., \$50.00; \$60.00 per 1000. DRACAENA INDIVISA, 6 in., \$2.00; 6 in., \$3.00; 3-4 ft., \$4.00 per doz.

CASH. WM. S. HERZOG, MORRIS PLAINS, N. J.

FUCHSIA

Little Beauty, strong thrifty plants, 2 1/2 inch, ready for 4 inch, \$4.00 per 100. Ferns Boston and Pierson, 5 inch, \$25.00; 4 inch \$12.00; 3 inch, \$8.00 per 100. Barrows, 5 inch, \$30.00; 4 inch, \$15.00; 3 inch, \$10.00 per 100. Adiantum Croweum, 6 inch, 50c. each. Ficus Elastica, 6 inch, 50c; 7 inch, 75c. each. Begonia Thurstonii, 3 inch, \$8.00 per 100. English Ivy, 3 inch, \$4.00 per 100.

BAUR FLORAL CO., Erie, Pa.

VERBENAS

Fine seedlings, 40c. per 100; \$3.00 per 1000; 2 1/2 in. pots, \$2.00 per 100; \$15.00 per 1000. Stocks, Phlox Drummondii, Salvia, Alyseum, German Ivy, Ageratum, Cigar Plants, out of 2 1/2 in., \$2.00 per 100; \$15.00 per 1000. Pansies and Daisies, in bloom, \$1.50 per 100; \$12.00 per 1000. Pansies that will bloom soon, 50c per 100; \$3.00 per 1000.

J. C. Schmidt, Bristol, Pa.

ASPARAGUS

Robusta, best for pots, pans and vases. Sprongerii, extra fine stock. Plumosus, supply limited. \$6.00 per 100, well worth eight or ten. Send two cents for sample.

CARNATIONS

The Queen, \$12.50 per 1000. Nelson Flaher, \$15.00 per 1000. Last of April delivery subject to their rooting. The Queen, \$10.00 per 1000, Nelson Flaher, \$12.60 per 1000. Bountiful, \$15.00 per 1000. Enchantress, \$16.00 per 1000 J. E. Haines, \$25.00 per 1000. 100 at thousand rates.

GERANIUMS

Rooted cuttings only, ready about April 15th, at the uniform price of \$1.60 per 100, or \$10.00 per 1000. S. A. Nutt, Perkins, Vioud, Buchner Poltevine, L. Francia, Castellano, Ricard.

ALBERT M. HERR, Lancaster, Pa.

COLEUS

Golden Bopper and 15 Fancy Bedding varieties. R. C., 60c. per 100; \$5.00 per 1000. Crimson Verhoefii, 75c. per 100; \$6.00 per 1000. Colons, Giant Fancy Leaves, \$1.00 per 100. Lobelia Compacta, blue, R. C., 60c. per 100; \$5.00 per 1000. 2 in. pots, \$1.50 per 100.

Table listing various plant varieties and their prices per 100 and per 1000.

ROOTED CUTTINGS

Heliotropes and Fuchsias \$1.00 per 100. Ageratum 75 cents per 100.

Cash with order. ERNEST HARRIS, DELANSON, N. Y.

PETUNIA "THE QUEEN"

This is something new in the PETUNIA order, a new double, extra fine, that requires no staking, 2 1/2 in. pots, \$1.60 per doz.; \$10.00 per 100. COLEUS, Golden Bopper, and other varieties, rooted cuttings, 60c. per 100; \$5.00 per 1000. FUCHSIA, in variety, 2 1/2 in. pots, \$3.00 per 100; R. C., \$1.50 per 100. HELIOTROPE, in variety, 2 1/2 in. pots, fine, \$2.00 per 100; R. C., \$1.00 per 100. SWEET ALYSSUM, 2 1/2 in. pots, fine, \$2.00 per 100, Capt. of Snows, 2 1/2 in. pots, fine, \$2.00 per 100. Little Gem, \$2.00 per 100. FUEBIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.00 per 100. AGERATUM, in variety, \$1.60 per 100; R. C., 80c. per 100. ROSE GERANIUM, 2 1/2 in. pots, \$2.00 per 100. HAPPY THOUGHT GERANIUM, \$2.00 per 100. GERMAN IVY, R. C., \$1.50 per 100. ENGLISH IVY, R. C., \$1.50 per 100. SALVIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.60 per 100. ALTERNANTHERAS, R. C., 80c. per 100.

Cash with order. J. E. FELTHOUSEN, 154 Van Vranken Ave. SCHENECTADY, N. Y.

Mammoth Verbena, 20 varieties large, strong, healthy plants from soil, \$1.00 per 100; \$6.00 per 1000. Salvia Splendens, raised from seed, transplanted into flats, large, strong plants, \$1.00 per 100. Asters, Queen of the Market, white, Queen of the Market, mixed; Dreer's Branching, Wick's Branching and Semple's Branching, mixed, fine, transplanted all healthy stock, 40c. per 100 \$3.00 per 1000. S. A. PINKSTONE, 20-22 Philip St., UTICA, N. Y.

CYCLAMEN GIGANTEUM

Twice transplanted, in fine growing condition; four leading colors, ready for 3 in., \$4.00 per 100; \$35.00 per 1000. Ready for 2 1/2 in., \$3.00 per 100; \$25.00 per 1000. Asparagus Plumosus Nanus, strong, transplanted, \$2.00 per 100. G. A. THIELE, Frankford, Philadelphia, Pa.

Begonia Gloire De Lorraine

The finest leaf cuttings obtainable For delivery from May 1st, 2 1/2 in. pots \$12.00 per 100, \$100.00 per 1000. Order at once. JULIUS ROEHRS COMPANY Exotic Nurseries, Rutherford, N. J.

ALTERNANTHERAS

STRONG ROOTED CUTTINGS. RED and YELLOW at 50c. per 100, or \$4.00 Per 1000. BRILLIANTISSIMA (the best red) at 60c. per 100, or \$5.00 per 1000. DAVIS BROS., Morrison, Ill.

ALTERNANTHERA

50,000 plants in 2 in. pots. Paronychoides aurea, nana and variegata at \$25.00 per 1000; 500 at 1000 rate. No order for less than 500. Ready for delivery May 1. J. CONDON, Florist, 734 5th AVENUE, BROOKLYN, N. Y.

Prices Advertised in these Columns are for

Cyclamen

Splendens Giganteum Hybrids This strain has no equal or better, in five true colors, including fringed varieties, twice transplanted from flats \$3.00 per 100, \$25.00 per 1000, from 2 1/2 in. pots \$5.00 per 100, \$45.00 per 1000.

Asparagus Plumosus Nanus

From 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 3 1/2 in. pots \$8.00 per 100.

Cannas

Started from Sandbed in variety as McKinley, Queen Charlotte, Florence Vaughan, Chicago, Papa, Egandale, J. D. Cabos, Alphonse Bouvier good plants \$3.00 per 100 \$25.00 per 1000. Satisfaction Guaranteed.

PAUL MADER, East Stroudsburg, Pa

10,000 FERNS YOU MUST HAVE

Boston, 8 in. 25c.; 4 in. 15c.; 3 in. 9c.; 2 1/2 in. 3c. Piersoni, 6 in. 26c.; 4 in. 16c.; 3 in. 8c.; 2 1/2 in. 3c. Scottii, 8 in. 36c.; 4 in. 16c.; 3 in. 8c.; 2 1/2 in. 4c. Barrowii, 4 in. 26c.; 2 1/2 in. 6c. Also 10,000 potted Cannas, 4c. Per 100 3000 Ampelopsis Veitchii, pot grown dor- mant, long tops, \$4.00 2000 Clematis Picnicata, 1 year old, pot grown, 2 year 10c. 1000 English Ivy, 3/4 in. pot grown, heavy, long tops, 6.00 3000 Vinca Major, variegated, 2 1/2 in. pot plants 2.60 Trifolium Uvaria, strong roots, 4.60 5 in. Euonymus Radicans, variegated, 3/4 in. pots, 6.00 1000 Hydrangea Opulenta, 2 1/2 in. pots, 2.50 2000 Hydrangea Paniculata Grandiflora, 3 year old, 8c.; 2 year old, 6c.; 1 year old, 4c. 2000 Spirea Anthony Waterer, 3 year old, 8c.; 2 year, 4c. 500 Variegated Weigela and Rosea, 8.00 6000 California Privet, 2 1/2 to 3 ft., \$2.60 per 100; 12 to 18 in. 1.50 1000 Hellebora Honeyuckle, 2 year old 4.00 Baby Rambler, 2 year old, 5 in. pots, 15.00 800 Madrala Vine roots, \$8.00 per 1000, 1.00 1000 Stokesia Cyanea, pot grown, dormant, 3c. 500 Caladium Esculentum, 7x9, 5c.; 6x7, 3c. XX Japan Snowball, 3 ft. 50c. 5000 Carnations from flats ready to plant... 2.0 5000 Best Commercial Chrysanthemum, 2 1/2 in. 2.60

BENJ. CONNELL, West Grove, Pa.

FERNS

Boston, Piersoni, Barrowii, Elegantissima, 4 in. 15c.; 3 in. 9c.; 2 1/2 in. 5c.; 7 in. 75c.; 8 in. \$1.00; \$1.25; 9 in. \$1.25 \$1.50. Whitmanii, 4 in., 35c.; 5 in., 50c.; 6 in., 75c., \$1.00; 7 in., \$1.50, \$2.00; 8 in., \$2.50, \$3.00, \$3.50. Kentia, 4 in., 25c.; 5 in., 50c.; 6 in., \$1.25, \$1.50; large plants, \$2.00 to \$35.00 each. Lantana, 2 in., 8c.; 3 in., 6c.; 4 in., 15c.; 5 in., 25c.; 6 in., 50c. All kinds of bedding plants at reasonable prices.

Hardy Rhododendrons, Azaleas, Dutchman's Pipe Vines, Clematis, etc., Boxwood from 2c. each to \$5.00.

John Bader, MT. TROY, ALLEGHENY, PA.

FERNS MY SPECIALTY

Please notice the big reductions, Cibotium Schiedel, the king of Ferns, well-known for its unequal beauty and great keeping qualities. very easily grown: 4 in. pots \$40.00 per 100, " " " 1.70 each. 10 " " 60.00 " " " Large specimen, \$5.00 each. Assorted ferns for jardiniere, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate. Fresh Fern Spores, Choice collection in 55 varieties, true to name, including all the best market sorts, 30c. per trade package; \$3.00 per doz.; \$12.00 for the whole collection. Write for list of varieties.

J. F. ANDERSON, Successor to Anderson & Christensen, SHORT HILLS, N. J.

WHITMANI FERN

2 1/2 in., \$10.00 per 100. Scottii Ferns, 2 1/2 in., \$5.00 per 100. Ampelopsis Veitchii, pot grown and staked, 4 in. pots, \$10.00 per 100. Hardy Ivy, 3 branches, 10 to 18 in. in length, 3 in. pots, \$6.00 per 100. Kentia Fosteriana, 4 in. pots made-up, strong and bushy, \$25.00 per 100. 5 in. pots, made-up strong and bushy, \$50.00 per 100. No order for less than 10 plants accepted.

CHAS. H. CAMPBELL, 3601 GERMANTOWN AVE., PHILA., Pa

ADIANTUM FARLEYENSE

Good, thrifty stock, 3-4-5 in. ROSES Grafted and Own Roots, Killarney, Richmond and Beauties. POINSETTIA STOCK Strong plants from bench. THORN HEDGE GREENHOUSES, NEWTOWN SQUARE, PA.

PALMS AND FERNS

Write for Price List. The Geo. Wittbold Co. 1657 BUCKINGHAM PLACE CHICAGO

NEPHROLEPIS

Whitman, 2 1/2 in., \$10.00 per 100. Boston, 2 1/2 in., \$3.00 per 100. Henry H. Barrows & Son, Whitman, Mass.

FERNS

Assorted, for jardiniere, strong, healthy plants, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate. Boston Ferns, from bench, ready for 5 in. pots, \$10.00 per 100. FRANK N. ESKESEN, Main St., Madison, N. J.

GERANIUMS

In bud and bloom, fine stock 4 inch Nutt, Doyle, Poitevine, La Favorite, Jrulin, Perkins, \$8.00 per 100, Mammoth Verbena, 2 1/2 in. bud or bloom, \$12.00 per 1000. Panicle, extra fine plants, Bognot's, Odler and Casiers in bud \$1.00 per 100. Rosea, Clothide, Sonpert, in bud and bloom 4 inch, \$10.00 per 100. Salvia Splendens, 3 inch, \$3.00 per 100. HILL TOP GREENHOUSES 15-16 Gray Ave. Utica, N. Y.

Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round JOHN SCOTT

Rutland Road & E. 45th St., BROOKLYN, N. Y. Telephone 2890 Bedford.

FERNS FERNS

We now have them in fine shape suitable for jardiniere, etc., \$3.00 per 100. Boston or Scottii Ferns, 2 1/2 in., \$3.00 per 100; 4 in., \$12.00 per 100; 8 in., 40c. each. Dracaena Indivisa, 8 in., 35c. and 60c. each. English Ivy, 4 in., \$10.00 per 100. Kentia Belmoreana, 6 in., 60c. and 76c. each; 2 1/2 in., 10c. H. WESTON, Hempstead, N. Y.

A Few Good Things You Want

Cash with Order. Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100. Asparagus Sprengerii, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100. Geraniums, S. A. Nutt, John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellano, Poitevine and Vioud, 2 in. pots, \$3.00 per 100. Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100 Boston Ferns, 5 in., 30c. each. Vinca Var., 2 in., \$2.00 per 100. Gladiolus, blooming bulbs, extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000. Primula Obconica, 3 in. in bloom, \$5.00 per 100. Heliotropis; Colens, red and yellow; Cigar Plants; Verbena; Scarlet Sage, 2 in. \$2.00 per 100. Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s; properly packed in good order. GEO. M. EMMANS, Newton, N. J.

BOXWOOD

For Window Boxes and Hotels! Nice and bushy, from 8 in. to 1 1/2 feet high. \$20.00, \$25.00, \$30.00, \$35.00, \$40.00 and \$50.00 per 100. Well shaped PYRAMIDS in tubs, 3 1/2 feet high and upwards, \$3.00, \$4.00, \$5.00, \$6.00, \$7.00, \$8.00, \$9.00, \$10.00 per pair. No charges for packing. Cash with order. ANTON SCHULTHEIS, P. O. Box 78, COLLEGE POINT, L. I., N. Y.

DRACAENA INDIVISA

3-in. plants, 10c.; 4-in. plants, ready for 6-in., 15c.; 6-in. plants, 25c.; 8-in. plants, 35c. VINCA, variegated, strong, 4 in., 10c. ASPARAGUS SPRENGERII, 3 in., ready for 4 in., 6c. T. W. A. SMITH, BIDDEFORD, ME.

Dracaena Indivisa

Large plants in perfect condition; our of 6 in. pots, \$3.00 per doz.; \$20.00 per 100; 8 in., \$4.00 per doz. Cash with order. GEO. H. BENEDICT, YORKVILLE, N. Y.

5c. EACH

The room is needed and to move them quick we offer 100 Asparagus Plumosus Nanus, extra large stock, 3 inch pots, ready for fours, at \$5.00 per hundred. Careful packing and liberal count. R. C. HANFORD, Norwalk, Conn.

ASPARAGUS PLUMOSUS

2 1/2 in., \$3.00 per 100; 4 in. \$10.00 per 100. Write for list of Mums, Bridesmaids, Gates, Ivory, Kaiserin, Brides, 2 in., \$3.00 per 100. THE FLORISTS' EXCHANGES, Franklin & St. Paul Sts, BALTIMORE, Md.

ROBERT CRAIG & CO ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS Market and 49th Sts. PHILADELPHIA, PA.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world. Sander, St. Albans, England and 235 Broadway, Room 1, New York City

ORCHIDS

Arrived in fine condition, Cattleya Harrisoniae, C. Intermedia, C. Gliges, C. Trianae, Speciosissima, C. Leopoldii, Laelia Purpurata, Oncidium Varicosum Rogerii, O. Marshallianum, Phalaenopsis Amabilis and P. Schilleriana. Write for prices. LAGER & HURRELL, Summit, N. J. Growers and Importers

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

STOCK FOR SALE

CARNATIONS, Rose Pink Enchantress, now ready for shipment...

BABY RAMBLER ROSES, fine dormant stock, one year, \$12.00 per 100...

VIOLETS, strong, healthy rooted runners of California, Princess and Campbell...

FOR SALE

From 30 to 50 second-hand hot-bed sash in good condition...

FOR SALE—Two florists' wagons. These were built to order...

FOR SALE—200 boiler tubes, each 17 ft. long by 3 1/2 in. in good condition...

FOR SALE—Greenhouses material and hot bed esbb, milled from Gulf Cypress...

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale...

FOR SALE

BOILERS No. 6 Weathered, round, \$60.00. One 3 section Sunray hot water sectional boiler...

PIPE Good serviceable second hand. No Junk with new threads...

STOCKS AND DIES New Economy, easy working. No. 1 cuts 1/4-1/2 in. \$4.00...

PIPE CUTTERS Saunders, No. 1 cuts to 1 in. \$1.00; No. 2 cuts to 2 in. \$1.30...

STILLSON WRENCHES Guaranteed. 12 in. grips 2 in. \$1.50; 24 in. grips 2 1/2 in. \$2.25...

PIPE VISES Seed's Best Hinged Vise, No. 1 grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50...

GARDEN HOSE 50 ft. lengths 3/4 in., guaranteed; 125 ft. for heavy work, guaranteed; 125 ft. for light work, guaranteed.

HOT-BED SASH New; Gulf Cypress, 3 ft. x 8 ft. 80c.; glazed complete \$1.80 up.

GLASS New American, 50 ft. to the box. 10x12 single at \$1.90. 10x12, 12x12, 10x16 B double \$2.66.

Get our prices on second hand wood material. We can furnish everything in new material to exact any size house.

METROPOLITAN MATERIAL CO. "Greenhouse Wreckers" 1398-1408 Metropolitan Avenue. BROOKLYN, N.Y.

Advertise in The Florists' Exchange and be sure of results

DRACAENA INDIVISA

Flno plants in 6 in. pots. Per 10. 2-3 ft. high\$15.00 and \$25.00

GEO. J. HUGHES, Berlin, N. J. Cash with order please

Century Plants WANTED

Some about three feet and some about two feet high from top of pots. Please describe fully and quote prices to include carefully wrapping leaves and delivery, f. o. b. cars.

Frank McMahon Sea Bright, N. J.

BEDDING PLANTS

Sweet Alyssum, Little Gem..... 2 3/4 \$2.00; alyxia, Bonfire..... 2 3/4 2.00; Verbenia..... 3 3.00; Phlox Drummond..... 2 3/4 2.00

J. S. BLOOM, Riegelsville, Pa.

FERNS

BOSTON FERNS 2 1/2 in. \$3.00 per 100. 4 in. \$10.00 per 100. COLEUS, Golden Bedder and Verschaefli, 2 1/2 in. \$2.50 per 100.

LARCHMONT NURSERIES, Larchmont, N. Y.

3000 2 1/4 in. Richmond Rose Plants All ready to shift, very fine stock, \$30.00 per 1000.

L. B. CODDINGTON, MURRAY HILL, N. J.

FUNKIA

Variegated Day Lily, Strong pips. \$1.50 per 100, \$10.00 per 1000. Clumps, from 3 to 12 pips, \$25.00 per 100. Cash please.

Charles Hornecker, Box 31, Springfield, N. J.

2000 CRIMSON RAMBLER

2 year, strong own roots. Pot now for Fall forcing, \$8.00 per 100.

BATTLE CREEK NURSERY CO. BATTLE CREEK, MICH.

Sphagnum Moss and Cedar Poles Moss, 6 barrel bale, \$1.25; 2 bale, \$2.25; 6 bale, \$5.00; 10 bale, \$9.00.

R. H. AKERS, Chatsworth, N. J.

A RECORD TO BE PROUD OF

The Florists' Hall Association has paid 1,040 losses amounting to \$102,000.00

JOHN C. ESLER, Saddle River N. J.

SURPLUS STOCK

Ageratum, 4 best dwl. kinds.....\$2.00; Begonias, flowering kinds assorted 2 50; Coleus, assorted 2 inch..... 1 75

Rubber Plants, 4 in., \$2.50, \$3.00 doz.; Ferns, Boston. large sizes, \$8.00; " " 2 inch..... \$10.00, 12 00; " " 12 inch..... \$3.50, 30 00

ROSES Everblooming Teas, Climbing Teas, Hybrid Teas, Hardy Climbing, etc., Lady Gay and Baby Rambler

Send in your list of wants for best prices. Terms Cash with order. Liberal treatment.

THE REESER FLORAL CO., Urbana, Ohio

FIRMS WHO ARE BUILDING

DEVIL'S LAKE, N. D.—P. J. Kerster will rebuild his greenhouse and enlarge his residence.

MEDICINE HAT, CAN.—Large greenhouses are to be built here by two concerns in the near future.

SOUTHPORT, CONN.—E. J. Taylor is erecting another large greenhouse, making thirty-four on this place.

LAFAYETTE, IND.—Dorner & Sons & Company are clearing the ground for an enlargement of their greenhouse plant.

STERLING, ILL.—The Sterling Floral Company will build an office and palm house, the former 24x26 feet; the latter, 40x26 feet.

LEBANON, TENN.—The Lebanon Floral Company has purchased a large tract of land and is building thereon an extensive greenhouse.

GRAND RAPIDS.—For two weeks previous to Easter Summer weather prevailed, bringing out the carnation crop with a rush, hurrying the slow blooming rose plants of all Winter forward into crops that hit Easter with gratifying precision.

The volume of business done was far larger than last year—about 20 per cent better on an average all round. Saturday was a balmy, windy, ideal Spring day, the thermometer standing at about 60 degrees.

The volume of business done was far larger than last year—about 20 per cent better on an average all round. Saturday was a balmy, windy, ideal Spring day, the thermometer standing at about 60 degrees.

BALTIMORE, Md.—The Glyndon Gardens nursery of Guthrie, Baltimore and Glyndon, Md., has been incorporated; capital stock, \$40,000.

MANCHESTER, MASS.—The North Shore Horticultural Society held its regular meeting on the 5th inst. President McGregor in the chair.

It was announced that the next attraction of the society would be an illustrated talk on the Gardens of Italy by J. K. M. L. Farquhar on April 26.

Victory Has Made Good Guttman & Weber

Place your orders early for rooted cuttings. Price \$6.00 per 100. \$50.00 per 1000. 43 W. 28th St. NEW YORK. Grower, LYNBROOK, L. I.

Aristocrat Beautiful cerise, ready for immediate delivery. \$12.00 per 100. \$100.00 per 1000.
 The variety nearly every florist will grow. Get your order in now and be in line.

White Perfection The best pure white carnation on the market. First class cuttings for immediate delivery. \$6.00 per 100. \$50.00 per 1000.

SEND FOR OUR LIST OF OTHER VARIETIES.

CHICAGO CARNATION CO.,

A. T. Pyfer, Mgr.

JOLIET, ILL.

Decorative Plants.

BOUGAINVILLEA GLABRA is easily propagated in Spring from cuttings of half-ripened wood, cut into six-inch lengths and placed in the sand in a propagating bench. Insert the part of the cutting that by nature is lowest about two inches in the sand. If there is any shade on the glass it should be removed when the cuttings of bougainvilleas are put in, because for the successful culture of the plants light must be admitted freely from start to finish. But for a few days after the cuttings are put in a temporary removable shade may be necessary during the hours of very bright sunshine. The sand should be kept continually moist and the cuttings syringed lightly every day.

When the cuttings are rooted they should be potted into small pots, in soil composed of fibrous loam, leaf mold and sand, then placed in a light, sunny location in the greenhouse, shading in the manner already indicated for cuttings. As soon as roots are well through the soil in the pots the plants should be shifted into larger pots; for this shift leaf mold should be left out of the compost, using mostly good fibrous loam with a reasonable portion of sand. The plants from this stage should be given liberal quantities of water at the roots and frequent syringing overhead, and be shifted into larger pots whenever the condition of their roots warrants it.

The plants as they develop in stature should be grown in full sunlight without crowding in order that every shoot will ripen sufficiently to flower freely, which condition they will attain by the end of October if properly treated; then the plants intended for early flowering may be kept slightly on the dry soil.

B. glabra is suitable for training on a trellis in a greenhouse as well as for a pot plant. **B. Sanderiana** is of a dwarf compact habit and is, in consequence, a splendid thing as a pot plant, especially as it can be had in bloom at Easter without trouble. This variety, although not on the whole as beautiful as **glabra**, is nevertheless well worthy of first choice for pot plants for decorative purposes, while for cutting **B. glabra** is preferable.

STEPHANOTIS FLORIBUNDA may be called old-fashioned, but like many other things similarly termed not many years ago it is coming into favor again, and no wonder when we consider how varied its capabilities are. On private places, where greenhouses are located on a scale in any way pretentious, **stephanotis** is almost indispensable as a plant to train upon portions of the roofs of one or more of these houses. For this purpose it is admirable, because it is easily controlled and in no way a hindrance to the growth of other plants except in so far as its unfortunate liability to attack by mealy bug is concerned; but even this, in the light of the knowledge we of to-day possess in the matter of insect pests, can be surmounted. **Stephanotis** makes a very good pot plant; all that it requires for that condition is a wire frame or trellis for its support. The plant is propagated from seed, and by layers and cuttings. The cutting method is probably the best, except when a large plant is required in a very short

time; then it will be better to layer it, as many shoots as plants are required in this way. A 4-inch or a 5-inch pot is procured and filled with sand and leaf mold in equal proportions, providing proper drainage, of course. Place the pot directly under the part of the shoot where roots are desired to come from, then cut the shoot half through at a joint, peg it down to the soil in the pot with a wire peg, cover slightly, and water; keep moderately moist until rooted and when well rooted cut off from the parent.

For cuttings take short shoots of the previous season's growth and make in each a clean cut with a sharp knife just below a pair of leaves. Do not remove these leaves. Put each cutting in a small pot filled with leaf mold and sand and a little peat if at hand, then plunge all the pots containing cuttings in sand over a good bottom heat, keeping them well shaded until they are rooted. The soil in the pots needs but very little water and none at all for two or three days after the cuttings are put in; but a humid atmosphere is necessary in order to keep the foliage from flagging to a serious degree.

As soon as the small pots are reasonably filled with roots the little plants should be shifted into larger pots, using this time a compost of fibrous loam two parts, sand and charcoal a part of each, always preparing for the soil with good drainage, without which success with **stephanotis** in pots is impossible. When the plants start well into growth and have made two pairs of leaves, the tops should be nipped off, in order to cause fresh breaks. Repotting and pinching should be continued as often as necessary until August. The second year the plants should be repotted twice, in February and in July; but no stopping of the shoots will be necessary unless with some special object in view. When the plants are in as large a size of pots as required they will stand without repotting for years, all that will be required being an annual top-dressing of home meal and fibrous loam. In Winter the plants require very little water, but when in active growth they need a good deal carefully applied.

CYTISUS should now be in their second size pots and be kept growing without interruption and repotted as they require it until they are in 5 or 6-inch pots, the sizes most in demand by customers. They succeed well in a compost of fibrous loam and leaf mold; or loam and peat with a little sand added. **Cytisus** are gross feeders and should never be allowed to suffer from want of water; in addition to water in its pure state an occasional watering with liquid manure will be very beneficial.

Old plants after flowering should be cut back and repotted as they show signs of growth, after which they should be kept close and syringed frequently until they are thoroughly established in their pots, when light and air in plenty should be given them. When growth is completed the plants may be put outdoors, in July, August and September, to be taken in again before the appearance of frost. The plants required for early flowering should be put in a moderately warm temperature when they are taken in or shortly thereafter; while

CARNATIONS

Rooted Cuttings; Fine Healthy Stock
WINSOR and **HELEN M. GOULD**, \$12.00 per 100, \$100.00 per 1000.
ROBERT CRAIG, VICTORY, HELEN GODDARD, \$6.00 per 100, \$50.00 per 1000.
RED LAWSON and **VARIEGATED LAWSON**, \$4.00 per 100, \$30.00 per 1000.
LADY BOUNTIFUL, NELSON FISHER, and **ENCHANTRESS**, \$3.00 per 100, \$25.00 per 1000.
BOSTON MARKET, GENERAL MACEO, MRS. T. W. LAWSON, PINK ARMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

VEREBNAS —Rest Mammoth, rooted cuttings	Per 100	Per 1000
Agratum, Cope's Pet. White Cap,	\$1.00	\$ 8.00
P. Paoline and Stella Gurney	1.00	8.00
Achyranthes, 4 sorts	1.00	8.00
Coleus, best bedding and fancy sorts	1.00	8.00
Cuphea, Platycodon	1.25	
Fuchsia, double and single varieties	2.00	15.00
Feverfew, The Gem	1.50	12.00
Geraniums, double and single	2.00	15.00
Heliotrope, light and dark	1.25	10.00
Ivy, German	1.25	
Moan Vine, true white	2.00	15.00
Salvia, splendens, Bedmae, etc.	1.25	10.00
Salvia, new early flowering sorts	1.50	12.00
Viola, variegated and Elegans, 2 1/2 in. pots	3.00	

CANNAS
 Strong dormant roots in 30 fine varieties \$2.00 and \$3.00 per 100; \$15.00 and \$25.00 per 1000.

WOOD BROS.

Send for List.

Fishkill, N. Y.

CARNATIONS

Rooted cuttings **Victory**, \$6.00 per 100; \$50.00 per 1000; **Enchantress, Bountiful, White Lawson, Var. Lawson, Patten**, \$2.50 per 100; \$20.00 per 1000; **Mrs. Lawson, Boston Market, Queen, E. Fern, and Fair Maid**, \$2.00 per 100; \$15.00 per 1000. 5 per cent discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.

CARNATIONS FROM SOIL

1000 Boston Market, 500 Flora Hill, 300 Queen Louise, 1000 Queen, 1000 Joosi, at \$15.00 per 1000.
 500 Elton, 2% Flamingo, 400 Crane, 500 Dorothy, at \$2.00 per 100.
 200 Candace, at \$4.00 per 100.
 250 Mrs. Patten, at \$2.50 per 100.

LOCUST STREET GREENHOUSES, J. H. Hutchinson, Prop. OXFORD, PA.

Robert Craig Cuttings

FOR SALE

From soil or 2 in. pots, just ready for a shift into larger pots. They are in first-class health and condition. Price, \$6.00 per 100; \$50.00 per 1000.

VALLEY VIEW GREENHOUSES VELIE BROS., Props. Marlborough, N.Y.

JOHN E. HAINES

The leading scarlet, Lilient color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place.
 ROOTED CUTTINGS, \$6.00 per 100; \$50.00 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

those intended for later or Spring flowering will require to be kept in a cool house and a batch taken therefrom as needed for forcing at intervals.

ASPARAGUS

PLUMOSUS NANUS, 2 1/2 in. pots	Per 100	4.00
" " " 3 in. pots		5.00
" " " 4 in. pots		10.00
SPRENGERI, 2 1/2 in. pots		3.10
" " " 3 in. pots		6.00
" " " 4 in. pots		9.00

Grafted ROSES Own Roots

Orders booked for early delivery. **KILLARNEY, RICHMOND, JOE HILL, KAISERIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, FERLE, SUNRISE, SUNSET, etc.**

MANETTI STOCKS

\$1.25 per 100; \$10.00 per 1000.

CHRYSANTHEMUMS

A. J. BALFOUR, COL. D. APFLETON, DR. ENGUEHARD, GEO. KALB, MRS. MCARTHUR, MONROVIA, MRS. BARCLAY, MAUD DEAN, META, MISS ALICE BYRON, MRS. COOMBS, NAGOVA, OPAL, ROBT. HALIDAY, SOLEX, D'OCIOBER, SUPERBA, WM. DUCKHAM. Price, Rooted Cuttings, \$2. per 100; \$15. per 1000.
AUTUMN GLOEY, ADA SPALDING, CREMO, CULLINGFORD, DOROTHY DEVENS, GLOEY PACIO, HARRY MAY, H. W. REIMAN, IVORY, J. E. LAGER, J. H. TROY, MRS. JEROME JONES, MINNIE WAN AMAKER, MRS. BAER, MAJOR BONNAFFON, MAD. FRED, BEROMAN, NIVEUS, PINK IVORY, TIMOREY ELTON, W. H. LINCOLN, XENO. Price, Rooted cuttings, \$1.50 per 100, \$23.00 per 1000.

WM. SWAYNE, Box 226, Kennett Square, Pa.

Carnations

Rooted Cuttings of all the new introductions of 1907 as well as standard commercial varieties. Send for List.

CARNATION CUTTINGS

FOR IMMEDIATE DELIVERY.

White Perfection, \$6.00 per 100, \$50.00 per 1000.
Victory, \$6.00 per 100, \$50.00 per 1000.
B. Market, \$1.50 per 100, \$12.50 per 1000.
Enchantress, \$2.50 per 100, \$20.00 per 1000.

JENSEN & DEKEMA, 674 W. Foster Avenue CHICAGO, ILL.

S. J. GODDARD

Framingham, Mass.

Rooted Carnation Cuttings a Specialty.

Correspondence Solicited.

IMPERIAL VIOLET CLUMPS

FROM THE ORIGINATOR

No. 1 clumps, 5c. each, \$5.00 per 100.
 No. 2 clumps, 4c. each, \$4.00 per 100.

W. L. MINOR, 826 BELMONT ST., BROCKTON, MASS.

Red spider is a persistent enemy of the **cytissus**, and frequent syringing will be necessary to keep the pest in check.
 D. M.

Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties
Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

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JOHN E. HAINES,

The Wholesale Florist of New York.
43 WEST 28TH STREET.

BETHLEHEM, PA.

Rooted Carnation Cuttings

	Per 100	Per 1000		Per 100	Per 1000
Mrs. Lawson.....	\$2.00	\$15.00	White Cloud.....	\$1.25	\$10.00
Guardian Angel.....	1.50	10.00	Fred Burki.....	2.50	20.00
Enchantress.....	2.50	20.00	Harlowarden.....	2.00	15.00
Lieut. Peary.....	3.00	25.00	Chicago.....	1.50	12.50
Boston Market.....	1.50	11.00	Estelle.....	2.00	15.00
			Red Sport (Maceo).....	2.00	15.00

Roses from 2 1/2 inch pots

	Per 100	Per 1000		Per 100	Per 1000
Brides.....	\$3.00	\$25.00	Rosalind Orr English.....	4.00	30.00
Bridesmaids.....	3.00	25.00	Chatenay.....	\$3.00	\$25.00
Richmond.....	3.00	25.00	Uncle John.....	3.00	25.00

CHRYSANTHEMUMS

Rooted Cuttings from sand
ready April 1st

White	Per 100
Estelle.....	\$2.00
Geo. S. Kalb.....	2.00
Mrs. Robinson.....	2.00
T. Eaton.....	2.50
Mayflower.....	2.00
Wanamaker.....	2.00

	Per 100
Ivory.....	\$2.50
Mrs. Swinburne.....	2.50
C. Touset.....	2.00
Mrs. Jerome Jones.....	3.00
W. H. Chadwick.....	3.00

Yellow	
Monrovia.....	3.00
Golden Chadwick.....	3.00
Yellow Mayflower.....	2.00
Yellow Jones.....	2.50
Yellow Eaton.....	2.50

	Per 100
Col. Appleton.....	\$2.00
Mrs. Geo. Beech.....	2.50
Roi d'Italia.....	2.00
Chas. Cronin.....	2.50
Percy Plumridge.....	2.00
Maj. Bonnaffon.....	2.00

Pink	
L. Filkins.....	2.00
Pink Ivory.....	2.50
Rosiere.....	2.00

	Per 100
Lady Harriet.....	\$3.00
Glory of Pacific.....	2.00
Wm. Duckham.....	2.00
Mrs. Perrin.....	2.00
Mrs. Mary Mann.....	2.50
Marie Liger.....	2.00
Monogram.....	2.00
Cash.....	2.00

Red	
Intensity.....	2.00
Oakland.....	2.00
Black Hawk.....	2.00

WIETOR BROS., Wholesale Growers 51 Wabash Ave. CHICAGO of Cut Flowers

ROOTED CARNATION CUTTINGS

	100	1000
White Perfection.....	\$6.00	\$50.00
Oleandale.....	6.00	40.00
Victory.....	5.00	40.00
Robert Craig.....	5.00	40.00
Fiancee.....	2.60	20.00
Lady Bonafant.....	2.60	20.00
The Belle.....	2.60	20.00
White Lawson.....	2.50	20.00
Enchantress.....	2.50	20.00
Nelson Fisher.....	2.60	20.00
Harry Penn.....	2.00	15.00
Mrs. T. W. Lawson.....	1.60	12.00
Boston Market.....	1.50	12.00

260 at 1000 rates.

W. J. & M. S. VESEY - FORT WAYNE, IND.

CARNATIONS ROOTED CUTTINGS

Ready Now—Prompt Delivery.

Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000.

F. DORNER & SONS CO., La Fayette, Ind

White Enchantress

white sport of Enchantress, rooted cuttings \$12 per 100; \$100 per 1000.

E. SCHRADER
NEW SPRINGVILLE, Richmond Borough, N. Y.

ROOTED CUTTINGS

	Per 100	Per 1000
WHITE—Queen.....	\$1.50	\$12.50
PINK—Pink Patriot.....	\$4.00	\$30.00
Helen Goddard.....	\$4.00	\$30.00
Ethel Ward ready about Mar. 26, \$1.60		\$12.50
Harry Penn ready about Apr. 11, \$1.60		\$12.50

All others sold out for the season. I thank the Florists for their generous patronage.

QUIDNICK GREENHOUSES
I. H. CUSHING, Prop., QUIDNICK, ANTHONY, P. O. R. I.

CARNATIONS

FINE, STRONG PLANTS

	100	1000
Robert Craig, 1 1/4 in. pots.....	\$3.00	\$30.00
Variogated Lawson, 1 1/4 in. pots.....	3.00	26.00
Victory 1 1/4 in. pots.....	6.00	60.00

ROBT. C. PYE, NYACK-ON-HUDSON, N. Y.

THE AMERICAN CARNATION

Price, \$3.50

A. T. DE LA MARE PTG. & PUB. CO. LTD
2-8 Duane Street, New York

WELL ROOTED HEALTHY STOCK

CARNATIONS

Well Rooted Cuttings

	Per 100	Per 1000
Lawson.....	\$1.50	\$10.00
Nelson.....	1.50	10.00
Nelson Fisher (ceirise).....	2.50	22.50

LIGHT PINK

Enchantress.....	2.50	22.50
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VARIEGATED

Mrs. Patten.....	2.50	22.50
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WHITE

Boston Market.....	1.25	10.00
White Lawson.....	3.00	25.00

RED

Robert Craig.....	6.00	50.00
Cardinal.....	2.50	20.00
Estelle.....	2.00	17.50

ROSES

Strong and Well Rooted Cuttings

	Per 100	Per 1000
Richmond.....	\$1.50	\$12.50
Bridesmaid.....	1.50	12.50
Bride.....	1.50	12.50
Sunrise.....	3.00	25.00
Uncle John.....	1.50	12.50
Chatenay.....	1.50	12.50
Ivory.....	1.50	12.50

ROSE PLANTS

From 2 1/2 inch Pots.
Ready for Shipment.

Richmond.....	\$2.50 per hundred
Bridesmaid.....	
Uncle John.....	
Chatenay.....	\$22.50 per thousand
Brides.....	
Ivory.....	
Liberty.....	\$4.00 per hundred
Perle.....	\$35.00 per thousand
Sunrise.....	\$5.00 per hundred
	\$40.00 per thousand

Killarney 2 1/2 inch pots Grafted Stock. \$12.50 per Hundred

BENCH PLANTS, American Beauty, \$10.00 per 100; \$75.00 per 1000
Liberty and Pearl, \$5.00 per 100; \$45.00 per 1000

PETER REINBERG, NO. 51 WABASH AVENUE, CHICAGO

MABELLE-- New Pink Carnation for 1907

Color.—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size.—Three to four inches in diameter when established. Odor.—Pleasing, but not strong. Stems.—Invariably strong, but always graceful, ranging from 12 to 16 inches during the season. Habit, etc.—A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness.—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. No discounts. First class certificates Madison and Indianapolis. Delivery Jan. 6th to 10th and later. Price, \$12.50 per 100, \$100.00 per 1000.

THE H. WEBER & SONS CO., OAKLAND, MD.

LOOK HERE

ROOTED CARNATION CUTTINGS
250 at 1000 rate

WHITE LAWSON, VARIEGATED LAWSON, \$3.00 per 100; \$25.00 per 1000.
MRS. PATTEN, ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000.

BOSTON MARKET, FAIR MAID, QUEEN LOUISE, HARLOWARDEN, MRS. LAWSON, \$2.00 per 100; \$15.00 per 1000.

BRIDES, BRIDESMAIDS, KILLARNEY, RICHMOND, own roots. 3 in., about last of April, \$6.00 per 100.

GRAFTED ROSES, \$12.00 per 100.
HELEN GODDARD, \$5.00 per 100.
WILSON MARSHALL, Red Seedling, \$5.00 per 100; \$45.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE, BRIDGEPORT, CONN.

CARNATIONS

Strong, healthy, well rooted stock

	per 100	per 1000	per 1000
White Lawson.....	\$3.00	\$25.00	\$35.00
Bountiful.....	3.00	25.00	3.50
Cardinal.....	2.50	22.50	3.00
Enchantress.....	2.50	22.50	3.00
Lawson.....	2.00	15.00	2.50
Harlowarden.....	2.00	15.00	2.50
Queen.....	2.00	15.00	2.50
Boston Market.....	1.50	12.50	2.00

Obtain with Order. Satisfaction guaranteed.

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CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

REVIEW OF THE MARKET

NEW YORK.—The market is a little too crowded with stock at present, and prices are weaker, if anything, than they were a week ago. It does not matter how heavy the demand may be at this particular time of the year, there is always a surplus of stock left over when the business of the day is finished, and when a day such as was Tuesday is experienced (it snowed all day long), the accumulations in the stores of the wholesalers are excessively heavy, and the effect on the following day's business is felt by a further depression of market values all around.

The rose and carnation problem must be a very satisfactory one to the retailer just now, prices are easy on all kinds and varieties. There is a general falling off in the supply of locally grown bulbous flowers, but any loss in quantity from this quarter is more than compensated by the steady consignments reaching us from the South. Lily of the valley is perhaps the one thing that is selling best this week than it does last. Lilies are quite plentiful and the prices they bring are most discouraging, especially to those growers who are cutting flowers that should have been in for Easter. Sweet peas and freesias are more plentiful and sell poorly.

Violets are not meeting with very flattering favor, and prices are ruling somewhat lower than a week ago. Callas are plentiful and not much in demand. Mignonette and smilax are both difficult to sell at satisfactory prices. Business, in general, is slow, with a wealth of material on hand every day.

PHILADELPHIA.—While there was a good business done in cut flowers on Monday, owing no doubt to the fact that all stocks were cleaned out well on Saturday, yet Tuesday was very dull. The retail stores showed little activity and the wholesale houses had lots of flowers of all kinds on hand. American Beauty are selling at from \$3 to \$5 for the very best stock, while no reasonable offer is refused for a large quantity. There are some very fine Richmond coming in from Stephen Mortensen and E. Towill, the choicest flowers selling at \$25, the general line of all teas running from \$6 to \$15 per 100.

Carnations are very plentiful just at present; white varieties are selling poorest. Beacon is bringing \$5 per 100 for the choicest flowers, fancy Mrs. Lawson and Enchantress, \$4, while \$2 and \$3 is obtained for general stock. A large number of carnations are coming in with split calyx, owing to the recent warm weather.

Antirrhinum majus is selling very well, \$1.50 and \$2 per dozen being obtained for the choicest flowers. John Savage at Gywnned, Pa., is growing this stock very fine; he is sending in a light pink, lavender, and pure white which are very good, about 3 1/2-foot stalks, with flower spikes of about 8 to 10 inches.

Lily of the valley is scarcer than for two weeks past; prices are \$4 to \$5 per 100. Sweet peas are very plentiful; most of this stock is selling at 75c. to \$1 per 100, a few choice flowers bringing \$1.50 per 100. Lilies are still bringing \$12 to \$15 per 100; daisies, \$1.50 and \$2.50 per 100. Daffodils are nearly over, and very little good stock being on hand; \$2 per 100 is the best price. Orchids are very scarce; cattleyas are quoted at 75c. each, oncidiums, \$2 per 100 flowers.

Smilax is rather scarce; there is some very good stock in this week at \$20 and \$25 per 100. Asparagus is in sufficient supply for all demands at 50c. and 75c. per bunch. DAVID RUST.

BOSTON.—The market is overstocked and prices are lower than they have been at any time this season. With few exceptions there is a surplus and many kinds of flowers are hard to move. Roses are very plentiful and sell at prices ranging from \$1 to \$8, while a few extra fancy blooms bring a little more. Richmond and Liberty realize from \$1 to \$12, according to grade. American Beauty are now quite plentiful, bringing \$1 to \$4 per dozen for the best grades. Carnations bring for ordinary blooms from \$1 to \$2, while the best grades sell for \$3 and \$4. Lilies are scarce, but there is not a great demand. Lily of the valley is plentiful and of excellent quality at \$1 to \$4. Sweet peas are very abundant and of good quality. Violets are becoming scarce this season for they are being nearly over. Bulbous stock of all kinds is very plentiful and sells at \$5 and \$7.50 a thousand up to \$1 and \$2 per 100 for the finest grades.

J. W. D.

PITTSBURG.—Business after Easter has been fair, but too much stock is coming in, which has resulted in a fall in prices. Those on roses particularly took quite a tumble; carnation values are also down, being at \$2 up per 100. Lilies are plentiful. A severe cold spell the past week, with the thermometer down to 16 degrees, checked the plant trade considerably. The seed trade is very active. W. C. Beckert the Allegheny seedsman is working his force day and night to catch up with orders. Several of our large department stores are selling more plants than ever before; roses are disposed of by the thousands in bundles of ten for \$1.

John Eader cleaned out his azaleas, of which he had an immense stock; his Easter trade was as good as he ever had.

Outdoor daffodils (Southern grown) have been in the market for some time and sell well. A few pæonies are also seen occasionally, and good ones at that. E. C. R.

INDIANAPOLIS.—Relief from the great inundation of flowers, with cooler weather, came this week. The height of the bulbous season was reached Easter week and there remain but a few varieties to supply the market. Much field-grown stock is brought in at \$2.50 per 1000. All lines of trade are bearing up splendidly. Quantities of funeral work greatly facilitate the reduction of stocks. Counter trade, too, is remarkably heavy. Reports from the smaller towns still arrive and indicate that the retailers throughout the State did a thriving Easter business.

Thousands of carnations are still on hand, selling at \$2 to \$3 a thousand. This fact often brings forth the prediction that there will be a shortage a few weeks hence. Sweet peas and lily of the valley are much used for evening wear as there are no good violets. The first mentioned are cleaned up daily at \$1 a hundred.

The rose market is suffering at present; many are shipped to distant markets, but the returns are meager. Select Bridesmaid and Bride may be had at \$6 a hundred; firsts at \$4 to \$5. Madame and Chandy, with four-foot stems, are common at \$10 a hundred. Richmond and Liberty roses still maintain their standard at \$8 to \$10 a hundred. Only the best American Beauty bring the market prices.

Harrisii and callas are not so readily disposed of at \$6 to \$12 a hundred. Antirrhinum and other Spring flowers are on hand in quantities.

A depleted and sun-cooked stock of potted plants is not sufficient to meet the demands of exacting customers. The display consists mostly of rhododendrons, roses, lilies and hydrangeas.

I. E.

ST. PAUL.—The past week the sale of cut flowers has been very slow. Prices dropped to the lowest point of the season. Wholesale prices are quieting and roses at \$3 per 100 and found difficulty in disposing of them even at that figure. Carnations are plentiful, but prices on them were maintained, no doubt, on account of their keeping qualities. Violets are beginning to get scarce and the small number on the market are off color. Bulbous stock is also becoming scarce; tulips are practically through and it appears hard to secure enough to fill small orders. Some Easter stock is yet in evidence; no one dealer sold out entirely. With some a number of lilies remained on hand and with others several very large specimen azaleas were carried over. The sales on other plants, such as spiræas, Rambler roses, and hydrangeas, appear to have been heavy as practically all of the varieties were entirely cleaned out.

The opening of the new City Auditorium made a little ripple in the cut flower market; a great many violets especially were used for the occasion. L. L. May & Company had the decorations.

August Swanson reports a fine Easter business, being successful in handling an enormous stock of fine plants. His Minnehaha rose found a ready market in Chicago; Mr. Swanson says he shipped it out in thousands.

Charles F. Vogt reports Easter week a strenuous one. He sold out of everything at the highest figure. Mr. Vogt & Olson sold everything with the exception of about 100 lilies. Their stock of these was especially fine this year.

Colberg & Lemke disposed of everything with the exception of some white lilac plants, which were held at a fancy price. PAUL.

ST. LOUIS.—The retail cut flower business since Easter has dropped off considerably, and stock shows a tendency to crowd the wholesalers. With good flowers of all kinds, prices have fallen and the retailer has had it all his own way for the past month in the matter of prices. This week we are hoping for the better, as a number of good-sized weddings and dinner parties are looked for by the uptown retailers. The downtown florists are not so well pleased with their trade since Easter, as everything is selling too cheap and profits are small. The greenhouse men are all busy getting ready for the Spring planting.

The weather since Easter has been damp and cold, and it is hardly safe to plant out before the latter part of this month. The wholesale market has been very discouraging regarding stock and prices. Roses are down to Summer figures, and some extra fine, long, fancy American Beauty are sold at 15c. each, the highest price being 25c. and in 100 lots even cheaper. There was no fixed value on high grade Bride and Bridesmaid; anywhere from \$1 to \$5 per 100 was obtained for them. Ivory, Richmond, Killarney, Perle des Jardins and short American Beauty run along the same lines as to price.

Carnations, unless extra fancy, had to suffer also; good stock sold as low as \$10 per 100, with extra fancy at \$20 per 1000. Common and splits brought \$5 to \$7.50 per 1000; prices in 100 lots were \$1.50, \$2 and \$3 according to grade.

Bulbous stock is about over. No Roman hyacinths, Paper White narcissus or freesias are coming in. Callas and Harrisii lilies bring \$10 to \$12.50 per 100; lily of the valley, \$3 to \$4; tulips, \$3 and \$4; Dutch hyacinths, \$3 per 100. Sweet peas are somewhat scarce and in demand at from 50c. to \$1 per 100. Violets are over for this season.

In greens smilax is up to 18c. and 20c. per string; all other greens are in plenty. Common ferns are at \$3 per 1000 and poor at that; this price will hold until the new stock comes in. Trade in the plant line has been brisk, and any kind of plant in bloom sells well. ST. PATRICK.

ROCHESTER, N. Y.—Business here has settled to its normal condition. Good snappy freezing spells and strong north winds help to keep the supply of cut flowers from becoming too large, and with many orders for funeral work, the retail men have no difficulty in keeping their ice boxes from becoming overstocked.

Prices for cut flowers have dropped since last writing. In roses—Bride and Bridesmaid bring from \$4 to \$5 per 100. American Beauty are not much in demand, and quality determines price. Carnations are in fair call, selling for \$1.50 to \$2.50 per 100.

Violets bring 50c.; lily of the valley, \$3 to \$5 per 100. Cut bulbous stock is to be had in plenty, whole shipments sometimes having to be disposed of at sacrifice prices, in order to clear up.

Salter Bros. have had good success with carnations, and feel satisfied that their decision to stock their entire Fairport range of glass with this flower, displacing roses, has been a decided advantage to them. This firm has on sale in their stores, some plants of the new Ficus pandurata, but finds it will have to last less before heavy sales of it are made. The question of experienced help in the different branches of the trade here is a serious problem, and one which the florists' clubs and societies would do well to seriously consider.

Regarding the cut flower trade of the past Easter season, considerable dissatisfaction was manifested among the retailers on account of pickled stock. It is the general opinion among the wholesalers and retailers here that until the public can be brought to realize that they are receiving fresh cut violets or other cut flowers, just so long will it take to re-establish confidence in this line of business.

Would it be advisable for the different societies and florists' clubs to take up this matter, and discuss its relative (dis) advantages? Or can we leave it to the business integrity of those interested to give us what we pay for? COCKNEY.

NASHUA, N. H.—There was a heavy Easter trade in this northern New England State. Prices were practically the same as in various cities and towns. August Gaedke & Company issued a schedule, and kept their prices firm. They report a 15 per cent increase.

In Manchester as well as Nashua lilies were scarce; in fact all cut flowers were sold close. The weather was perfect and no one had cause for complaint. C.

COLUMBUS, O.—Easter is over, and all agree that we had a much larger business, both in cut stock and plants than in any past season. The plant part of the trade was very satisfactory. With the cut stock it was a very different story; if the out of town shippers could be here and once fully realize the injury done our trade by being obliged to use stock which must have been unfit for sale even to street men when it was shipped, they would be brought to a full understanding of what it means to a retailer to receive "pickled" and "sleepy" carnations and equally good violets, etc., at such a time as a few hours before Easter, or for that matter any holiday.

The past week has, of course, seen an after holiday business, but notwithstanding the sudden change to very raw and cold weather, as compared with so short a time ago (we have had furries of snow and temperature down to 25 degrees the past week), trade with all has been very good, with funeral orders especially large. As Easter prices for cut stock were advanced less than ever before, so on the whole rates have settled very little. American Beauty roses range from \$2 to \$4, and other sorts \$1 to \$2 a dozen. Most carnations go for 50c. to 75c., lily of the valley, 75c.; Dutch hyacinths, \$1, and other bulbous stock in a regular way, 50c. a dozen. Violets are very plentiful and of better quality than they have been all Winter, but about \$1 a hundred in bunches to suit customers is the going price. In regard to violets they have until now been of poor quality almost all the season; this may in a measure account for the distinct falling off in their sales taking the season as a whole. Certain it is that one sees them less worn as corsage bouquets than formerly.

Both nurserymen and seedsmen are working to the limit, trying to keep up with their orders; but the past warm weather jumped things along, so that the next warm spell we are sure to get any day now will do much to shorten the season. F. W.

NEW ORLEANS.—The weather on Easter Sunday in this city was very unfavorable to the flower business, being wet and bleak which, of course, kept the casual buyers at home, but did not affect the general run of customers who do not leave their buying until the last moment. There was a good stock of both flowers and well-grown plants. Lilies were in abundance, the local crop being augmented by outside shipments.

The florists' windows were well worth looking at, most of them being a little flower show in themselves, and many novelties in made-up pieces were to be seen. The majority of the retailers report an increase of business over previous years; some the same as last year, but thin the inclement weather was the cause of this.

Outside florists mail their special Easter price lists too late to be of any benefit, many of them arriving about two days before Easter, when they should be received at least a full week to give time to order and have stock shipped on time. Several local florists state that they received many favorable offers of stock, but entirely too late to be of any service. Shippers take note. C. C.

TORONTO, ONT.—Business since Easter has been brisk, with good stock still plentiful. Yellow narcissus are no longer a glut, but there are still enough to go around. Carnations are very plentiful, and roses are coming in freely and generally of fine quality. American Beauty have been a little in oversupply.

The past week has been rather dull and cold, so the plant trade has been lethargic. The call for roses and other hardy flowering shrubs is good, and the indications are that there will not be many of them left over this Spring. There has been very little planting done here up to the present time, as in many places the frost is not yet out of the ground. There is somewhat of a shortage in Spring bedding stock in many places, but it is being worked up rapidly now.

The holding of a Fall show again this year is now assured and the committee expects shortly to pay the balance of last year's prizes. The Provincial Government has made a liberal grant toward the expense and there is every indication of a successful exhibition. T. M.

ALBANY, N. Y.—In an action brought by G. W. Pool against L. Menand, Florist, Cemetery avenue, to be tried before Judge Lathrop April 6, 1907, the matter was settled out of court by the defendant paying the bill together with the interest and costs. A. B. C.

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Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	10.00 to 20.00	Inf'r grades, all colors.....	1.00 to 1.50
	" extra.....	8.00 to 10.00	White.....	1.50 to 2.00
	" No. 1.....	6.00 to 8.00	Pink.....	1.50 to 2.00
	" No. 2.....	4.00 to 6.00	Red.....	1.50 to 2.00
	" No. 3.....	1.00 to 3.00	Yel. & Var.....	1.50 to 2.00
	Bride, Maid fancy-special.....	4.00 to 6.00	White.....	2.00 to 3.00
	" extra.....	3.00 to 4.00	Pink.....	2.00 to 3.00
	" No. 1.....	2.00 to 3.00	Red.....	2.00 to 3.00
	" No. 2.....	1.00 to 2.00	Yel. & Var.....	2.00 to 3.00
	Golden Gate.....	2.00 to 3.00	White.....	4.00 to 5.00
	RICHMOND.....	2.00 to 3.00	Pink.....	4.00 to 5.00
	Mme. Abel Chatensy.....	2.00 to 3.00	Red.....	4.00 to 5.00
ADANTUM	" extra.....	1.00 to 1.50	Yel. & Var.....	4.00 to 5.00
	" No. 1.....	25.00 to 50.00	White.....	4.75 to 6.00
	" No. 2.....	15.00 to 20.00	Pink.....	5.00 to 6.00
ASPARAGUS	" Sprenger, bunches.....	15.00 to 20.00	Red.....	5.00 to 6.00
	" Plumosus, bunches.....	15.00 to 20.00	Yel. & Var.....	5.00 to 6.00
	" Golden Gate.....	1.00 to 1.50	White.....	5.00 to 6.00
CALLAS	" Richmond.....	8.00 to 10.00	Pink.....	5.00 to 6.00
CATLEAS	" Mme. Abel Chatensy.....	40.00 to 60.00	Red.....	12.00 to 15.00
CYPRIPEDIUM	" extra.....	12.00 to 15.00	Yel. & Var.....	1.00 to 1.50
DAISIES	" No. 1.....	1.00 to 3.00	White.....	.25 to .50
	" No. 2.....	1.00 to 3.00	Yellow.....	.25 to .50
	" No. 3.....	1.00 to 3.00	Roman Hyacinths.....	.25 to .50
	" No. 4.....	1.00 to 3.00	Smilax.....	12.00 to 15.00
	" No. 5.....	1.00 to 3.00	Sweet Peas, per doz. bunches.....	.50 to 1.00
	" No. 6.....	1.00 to 3.00	Tulips.....	.50 to 1.00
	" No. 7.....	1.00 to 3.00	Violets.....	.30 to .50
	" No. 8.....	1.00 to 3.00		

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Philadelphia.
News Notes.
The principal activity just now is among the seed stores; all are very busy this week. The transient trade is now on and requires much attention. Some stores report that many large orders have been cut down very much this season owing to the financial worry of the past few weeks.
Several stores report much satisfaction resulting from the placing of lilies in cold storage. The forcing varieties did so well, that auratum, rubrum, etc., have been put in storage with good results, the bulbs coming out in splendid condition and being very satisfactory to customers, as often at this time of year they have been sold with growth started.

The Philadelphia Cut Flower Company expects to move to the new store 1517 Sanson street about July 1. The new store is 15 1-2 x 72 feet and will give the firm much needed increased facilities.

Several of our American Beauty growers are much concerned over the fact that flower buyers have evidently got away from these blooms, as they could not get them for three months; now they still don't ask for Beauty and these flowers are too plentiful.

Alfred Burton, who has acted as secretary of the Philadelphia Wholesale Flower Market, entertained the directors at dinner at his home at Wyndmoor on Tuesday evening. The market as a corporation is now in liquidation and its affairs will be wound up about July 1.

There is a great scarcity of young gardeners around this city; several of our prominent private places have been looking for good greenhouse men, but as wages are better in other trades, good help cannot be obtained.
DAVID RUST.

S. S. PENNOCK-MEEHAN Co.

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Wholesale Prices of Cut Flowers—Per 100

Boston Apr. 8, 1907	Buffalo Apr. 8, 1907	Detroit Mar. 4, 1907	Cincinnati April 8, 1907	Baltimore Mar. 25, 1907	Milwaukee Mar. 7, 1907	Phil'delphia Apr. 2, 1907	Pittsburg Apr. 8, 1907	St. Louis Apr. 8, 1907
to 50.00	25.00 to 35.00	to 100.00	to	to	to	to	to	to
10.00 to 20.00	20.00 to 25.00	to 80.00	to	to 25.00	to	to	to	to
4.00 to 10.00	5.00 to 20.00	to 70.00	to	15.00 to 18.00	to	to	to	to
1.00 to 4.00	1.50 to 15.00	20.00 to 30.00	to	4.00 to 8.00	15.00 to 18.00	to	to	to
6.00 to 8.00	8.00 to 10.00	6.00 to 15.00	to	to 5.00	4.00 to 8.00	to	to	to
4.00 to 6.00	6.00 to 8.00	to	to	to 10.00	to	to	to	to
2.00 to 4.00	4.00 to 6.00	to	to	to 3.00	to	to	to	to
1.00 to 2.00	3.00 to 4.00	to	to	to 2.00	to	to	to	to
to	3.00 to 6.40	to	to	to 4.00	to	to	to	to
2.00 to 12.00	3.00 to 10.00	to	to	2.00 to 5.00	to	to	to	to
to	3.00 to 6.00	to	to	3.00 to 5.00	to	to	to	to
to	3.00 to 6.00	to	to	2.00 to 4.00	to	to	to	to
to	1.50 to 2.00	to 60.00	to	to	to	to	to	to
1.00 to 2.00	1.50 to 2.00	to	1.50 to 2.00	3.00 to 4.00	to	to	to	to
1.00 to 2.00	1.50 to 2.00	to	1.50 to 2.00	3.00 to 4.00	1.50 to 2.00	to	to	to
1.00 to 2.00	1.50 to 2.00	to	1.50 to 2.00	3.00 to 4.00	to	to	to	to
3.00 to 4.00	2.00 to 3.00	to	2.00 to 3.00	5.00 to 6.00	3.00 to 4.00	to	to	to
3.00 to 4.00	2.00 to 3.00	to	2.00 to 3.00	5.00 to 6.00	3.00 to 4.00	to	to	to
3.00 to 4.00	2.00 to 3.00	to	2.00 to 3.00	5.00 to 6.00	3.00 to 4.00	to	to	to
4.00 to 5.00	to	to	to	to	3.00 to 4.00	to	to	to
7.00 to 10.00	to	to	to	to	3.00 to 4.00	to	to	to
to 50.00	to	to	to	to	3.00 to 4.00	to	to	to
to	25.00 to 60.00	to	25.00 to 30.00	to 30.00	20.00 to 30.00	50.00 to 75.00	20.00 to 25.00	40.00 to 50.00
to	20.00 to 30.00	to	20.00 to 30.00	to 30.00	20.00 to 30.00	50.00 to 75.00	10.00 to 30.00	25.00 to 75.00
8.00 to 10.00	8.00 to 12.00	to	10.00 to 15.00	18.00	10.00 to 12.50	15.00 to 20.00	8.00 to 10.00	10.00 to 12.50
to	5.00 to 12.00	to	to	7.50	to	7.50 to 15.00	1.00 to 2.00	to
8.00 to 10.00	8.00 to 12.00	to	10.00 to 12.00	15.00	to	15.00 to 18.00	8.00 to 12.00	10.00 to 12.50
1.00 to 4.00	3.00 to 4.00	3.00 to 5.00	to 4.00	to	2.00 to 3.00	2.00 to 5.00	3.00 to 4.00	3.00 to 4.00
1.00 to 3.00	2.00 to 3.00	to 15.00	to	2.00 to 3.00	to	3.00 to 6.00	2.00 to 3.00	3.00 to 4.00
to	3.00 to 4.00	to	to	to	to	4.00 to 8.00	to	4.00 to 8.00
to	3.00 to 4.00	to	to	to	to	4.00 to 8.00	to	4.00 to 8.00
to	3.00 to 4.00	to	to	to	to	4.00 to 8.00	to	4.00 to 8.00
35 to 75	38 to 50	12.50 to 15.00	to 15.00	to 25.00	to	15.00 to 20.00	25.00 to 15.00	15.00 to 15.00
to	.50 to .75	to	to	.50 to .75	to	.50 to 1.00	.25 to .50	to
to	.50 to .75	to	to	to 1.00	to	.75 to 1.25	to .75	to

Columbus, O. News Notes.

For some time past many of the craft here have most favorably commented upon the increasing popularity and consequently large sales of the Richmond rose; I think it is conservative to say that many customers have been buying this fine variety, neglecting somewhat the more expensive American Beauty. Apropos of these changeable flower fashions, there seems to be a feeling that violets are not the popular flowers they were; certain it is that ladies wear fewer of them in public than has for many years been the custom.

The Clover Hill Nurseries have had an especially good season with bulbous stock.

The seed committee of the Columbus Florists' Club, consisting of Messrs. M. B. Faxon, Sherman F. Stephens, and R. A. Currie, attended the monthly meeting of the Board of Education last Monday evening in an effort to obtain permission to make the yearly distribution of penny packets of seeds to the school children. This permission was refused.

S. N. Kiner & Son are very busy planting trees, the warm weather rushing their orders altogether.

State orchard inspector C. W. Mally, who was recently appointed by the state board of agriculture to succeed A. F. Burgess, has assumed his new position, beginning work April 1, 1907.

J. R. Hellenthal reports a very large Easter business; as a special attraction he advertised carnations all the preceding week at twenty-five cents a dozen.

Secretary T. L. Calvert of the State Board of Agriculture has decided to plant small plots of both alfalfa clover and soy beans, within the state fair grounds for exhibition purposes at the coming Ohio State Fair. Several plantings will be made in order to show both plants in all stages of growth.

The Livingston Seed Company held their annual sweet pea sale March 26. Extensive advertising and extremely warm weather combined to make the affair a success. F. W.

ALLIANCE, O.—On April 1 fire in the greenhouse plant of Albert Davis caused a loss of several hundred dollars.

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Wholesale Grower of Cut Flowers
CHOICE AMERICAN BEAUTY ROSES
We will take care of your orders at reasonable prices. Prompt attention.
35 Randolph Street, CHICAGO, ILL.

J.A. BUDLONG
37-39 Randolph Street, CHICAGO.
WHOLESALE CUT FLOWERS
Roses and Carnations A Specialty... GROWER of

Wholesale Prices of Cut Flowers, Chicago, April 9th, 1907
Prices quoted are by the hundred unless otherwise noted

Table with columns for ROSES (American Beauty) and various flower types with prices per doz. and per 1000.

Table with columns for CARNATIONS (STANDARD VARIETIES, FANCY, etc.) and various flower types with prices per 100 and per 1000.

Poehlmann Bros. Co.
Wholesale Growers of and Dealers in Cut Flowers.
All telegraph and telephone orders given prompt attention.
Greenhouses: 35-37 Randolph St., MORTON GROVE, ILL. CHICAGO.

ST. PAUL, MINN.
Send us your Orders for delivery in the Northwest, which will have our best attention.
L. L. MAY & CO., Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.
WHOLESALE FLORISTS and FLORISTS' SUPPLIES
Manufacturers of WIRE DESIGNS
457 Milwaukee St., MILWAUKEE, WIS.
Phone, Main 874. P. O. Box 108

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES
C. C. Pollworth Co.
MILWAUKEE, WIS.

Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

CHAS. W. McKELLAR
Orchids
FANCY VALLEY, ROSES, CARNATIONS, and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago

VAUGHAN & SPERRY
Wholesale Florists
Valley, Carnations and Roses
58-60 WABASH AVE., CHICAGO.

Rochester, N. Y.
Easter Echoes.
Now that the Easter season is over perhaps a few remarks concerning some phases of it may not come amiss. Referring to the plants disposed of, nothing really new was seen, the only novelties the trade had to offer being in basket work and trimming. The new wire basket handle, conceived by Geo. Hart, was in evidence at all the stores, it being a device whereby a pot plant is instantly changed into basket effect, by being fastened—very simply—on the projecting edge of standard pots. After the pot was trimmed, and a bow of suitable colored ribbon tied on wire handle, the plant was offered for sale at a more reasonable price than if the same plant had been put in an expensive basket. At the same time the handle is practically indestructible and can be used over and over, and on any size pot.

Noticeable, too, was the greater number of flowering shrubs, among which were some imported pot-grown Chinese wistaria. These were a perfect sight, and certainly an innovation to the plant-loving public. They are easily brought into bloom, in about five to six weeks, the only thing necessary being to be sure to have all buds break about the same time. This can be done by wrapping or packing the whole top of a plant in wet moss, thus insuring the softening up of the wood, and causing even breaking of the blossom buds.
Among the many Spring flowering shrubs also seen were deutzias, Lemoiné, gracilis and rosea, the last named being quite desirable on account of its pleasing shade of pink. Being new, it was more easily disposed of. Among the white deutzias, gracilis is here considered the most desirable on account of its long panicles of bloom, being useful for cutting and making up into design work. These are brought into flower in gentle heat about six weeks, frequent syringing of the wood being necessary in order to soften up the buds. The different varieties of weigela were used with tasteful effect in baskets. These require about eight or ten weeks to get them into flower, because of two or three leaves appearing on twigs before the flowers show.

York, Pa.
The florists' business is fairly well represented here. There are probably about a half dozen establishments in the city. Two florists, who are growers, have stores on Market street in addition to the store of J. E. Schaeffer who is not a grower.

Chas. E. Smith is on East Market street and his greenhouses on the corner of Jefferson and Juniper sts. He is the largest grower, having about 25 houses all in general stock. He supplies most of the City Parks with bedding plants of which he had a fine stock on hand.
Chas. A. Schaeffer has also a store on Market street with a very complete growing plant at West street and Penn. avenue. He has a new bright red seedling of Enchantress carnation as well as a few others of merit.

Mrs. Mary Lichtenberger, who has been conducting a business on George street near Prospect Hill Cemetery, has decided to go out of business and her greenhouses are for sale or rent. Mrs. Lichtenberger has three nice greenhouses well filled with a general miscellaneous stock.

J. C. Luitweiler has a smaller plant on Duke street and reports business good in his line.

Anthony Bruggeman and Casper Henkle, who have formerly been identified with the florist business of York, your correspondent was informed have gone out of business. J. M.

POUGHKEEPSIE, N. Y.—The Dutchess County Horticultural Society held its annual dinner on Wednesday evening, April 3. As usual, it was a most enjoyable affair.

COHOES, N. Y.—On March 26 fire in the store of A. D. Carpenter did damage to the extent of \$100.

Entirely distinct were some plants of Genistas Andreaea and alba praecox, grown by J. B. Keller Sons. These are deciduous, but not entirely hardy, as freezing kills back the flowering wood. G. alba praecox is the first to bloom, it having white pea-shaped blossoms along the entire stem, without leaves showing after flowering; very erect habit, and a plant that for general effect is useful in many ways. G. Andreaea requires two weeks more of forcing to bring it into flower, as the blossoms show only after foliage has appeared, as is the case with weigela. The coloring of the flowers of this variety is very pleasing, the center being maroon, and back or wing canary yellow. These with a background of its pale green foliage, are a pleasing sight.
Pyrus floribunda is easily forced into bloom, but should be put into a cold greenhouse before being fully open, as if not treated so, the apple blossoms fall off very easily, which is something to be remembered by those contemplating the handling of this plant.
Of the new hydrangeas, Souvenir de Clare, and japonica rosea, were tried for forcing, but on account of the early Easter, cloudy weather, etc., were not ready for sale. Some doubts were manifested about the japonica rosea variety, as to whether it should blossom on new growth or last season's wood. Perhaps some reader can write concerning this variety. It is a comparatively easy grower.
Spiraea Van Houttei and floribunda were both good plants, and desirable for a great many uses. To be easily handled these shrubs must be forced into flower in the smallest pots possible. Several Holland firms have made a specialty of growing these into two-year-old plants, and shipping them here ready for 4-inch pots. In this size they are found to be the most convenient. What plants remain unsold, the general florist has always a chance to use in the planting of hardy borders, so that the risk is small to those desiring to try a box of these ornamental as well as useful additions to our Easter supply, not forgetting, of course, the splendid show the hardy azalea makes. COCKNEY.

SOUTHERN WILD SMILAX

(Now ready in any quantity)

Book orders now for future delivery. **Beaven's Fadeless Sheel Moss**, \$3.50 per bag, delivered. Send for samples. Also **Fancy Holly** for Xmas trade. Satisfaction guaranteed. Write for prices.

E. A. BEAVEN
EVERGREEN, ALA.

HEADQUARTERS FOR HARDY CUT GREENS AND FLORIST'S SUPPLIES

- Fancy & Dagger Ferns. Fine Quality \$2.00 per 1000.
- New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.
- Southern Wild Smilax \$3.50 and \$7.00 per case.
- Laurel Festooning, Good and full, 5c. and 6c. per yard.
- Branch Laurel, 50c. per bundle.
- Leucothoe Sprays, \$1.00 per 100.
- Sphagnum Moss, 50c. per bag; five bags \$2.00.
- Green Moss, \$1.00 per bbl

FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes cut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.

15 Province St.—9 Chapman Pl. BOSTON, MASS.

TEL. MAIN 2617-2618



THE BEST WAY to collect an account is to place it with the

National Florists' Board of Trade

56 Pine St., New York
WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

CANADIAN NEWS

OTTAWA, ONT.—The Easter trade can be summed up as a record breaker. The stock was ahead of that of previous years in quality and quantity. The weather, although changeable, was, on the whole, as favorable as one could expect in March. In plants almost all lines sold out clean. With Scrim, American Beauty roses took the lead, with azaleas and tulips next. Graham Brothers had a very heavy stock of lilies which all went before Saturday night. They also had a good stock of Azalea mollis; a few of these were left. Spiraea were scarce with some of us; they arrived in poor condition and were no good. Azaleas were very fine and sold out. Bulbous stock, in pans and pots, and lily of the valley sold well and were cleaned up. There was but little green stock shown or sold. As Ottawa is about sold out of Boston ferns and good palms, the public did not seem to want them.

The cut flower trade kept up with the plants. There was a large stock of carnations, bulbous stock, lily of the valley and violets, which were sold out at good prices. The churches decorated a little more elaborately than in previous years, and the demand generally was in advance of any previous Easter. All are quite satisfied and prepared to enter into the Spring preparations with good spirits.

TORONTO, ONT.—The Easter trade this year again broke all records. The whole of the week was good for business, and Saturday was a splendid day, immense quantities of stock being sold, but there was plenty to go around. Lilies were very plentiful, but were not always well placed, as, while some of the stores could have sold a good many more, others had more than enough. During Saturday prices ranged from 7c. to 30c. per bloom, and the general price at retail was about 20c. per bloom; wholesale prices were from 6c. to 12c. per bloom. There were not so many lilies used in store decorations this year, but they were decidedly the favorites with the public. Roses sold exceptionally well, except American Beauty; these appeared to stick. There were but few of them of local growth, but some fine stock was imported. The public, however, did not appear to want them, and quite a number were left on hand.

Carnations were both good and plentiful and found a ready sale. Violets were also very abundant and most of our retailers made good money on them. Plenty of violets were bought for \$7.50 per 1000 and sold at \$3 per 100. Yellow narcissus were also very plentiful and thousands were disposed of; they were also remunerative to the retailer. Lily of the valley was both good and plentiful; tulips were also in good supply.

In plants, after the lily, azaleas were the favorite; nearly all seen around were in fine order, the early season being just right for them. Hydrangeas also went well and a few roses in pots sold very well. Cinerarias found a ready market. Some good Primula obconica were offered. Dunlop had a fine window of

Cypripedium spectabile which attracted much attention, and Tidy had some fine baskets of ericas.

Ferns and palms were not plentiful and were not much called for, most people wanting something in bloom. Simmers has just enlarged his store and had it finely decorated for the week. Harry Dillemath had a very husy week. He had some big decorations in our large stores and a fine family trade; he is much pleased with his stand on Spadina avenue.

Several new retail stores have been opened in different parts of our city, and all report trade good.

Some of the grocers and butchers had immense stocks of plants and flowers, and in most cases sold stock below the regular trade.

The last meeting of the Gardeners and Florists' Association was a social gathering and a very successful one. A good many members and their friends turned out. President E. Dale was in the chair. The program was in the hands of E. Graham of Reservoir Park, and although two of the principal singers did not turn up, a very pleasant evening was spent. The refreshments were in the hands of our treasurer, George H. Mills, and were, as usual, all right. The tables were decorated with fine bunches of Rose-Pink Enchantress carnations from the Dale estate and from Mr. Jennings of Brampton, also some fine violets from the latter gentleman.

Before the meeting opened, the Floral Committee of the late Fall Show took up the matter of the protest of F. R. Pierson as to whether the Dale Estate's carnation Excelsior was a variety not in commerce at the time of the show, and after very careful consideration, the committee recommended that the protest of Mr. Pierson be sustained.

THOS. MANTON.

FREDERICTON, N. B.—The Easter trade here was the best on record. Five hundred lilies were just in time and a large supply of bulbous stock in the pink of perfection. We transformed our potting shed and work room into a conservatory of beauty, with evergreens, flowering plants and cut flowers. Roses, carnations, lily of the valley and violets were all cleaned up by Sunday noon. The weather being favorable had much to do with a successful Easter in 1907.

J. BEBBINGTON & SON.

Indianapolis Ind.

News Items.
The State Florists' Association of Indiana will hold its Spring exhibition at the State House horticultural rooms this week. Many of the specimen plants are gone, but a large exhibit is anticipated.

Tomlinson Hall market lacks the profusion of last week; many growers are already bringing in Summer stock, which generally does not make its appearance until the latter part of April. John Rieman's delivery wagon was struck by a street car in front of his store last week.

Wilfred Emmons, formerly with Bertermann Brothers Company, has accepted a position with the Indianapolis Plant and Flower Company.

H. Athlee, who has been conducting the greenhouses for the Churchman estate, is preparing to start in business at New Bethel, Ind.

Thomas Knipe, Kokomo, is to erect a rose house this Summer. I. B.

Hydrangea Otaksa,
Asparagus Sprengeri,
Vinca Variegata, Smilax
Strong, clean stock, out of 2 1/4 in.,
\$2.50 PER 100.

John C. Hatcher
AMSTERDAM, N. Y.

Fancy or Dagger Ferns

- Dagger Ferns, \$1.50 per 1000
- Fancy Ferns, \$1.75 per 1000
- Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
- Boxwood, No. 1 Stock, 50 lb. cases, \$3.50
- Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
- Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
- Southern Smilax, fancy stock, 50 lb. cases \$5.50
- Laurel Branches, 35c. per bundle

Telegraph Office: New Salem, Mass. Long distance telephone connections
CROWL FERN CO., MILLINGTON, MASS.

The Headquarters for All Florists' Supplies IS IN BROOKLYN at 76 COURT ST.

We have developed our supply business to such an extent that it became absolutely necessary that we devote our whole time and space to this important branch of the florist industry.

We have upwards of 6,000 square feet of floor space in our show rooms, and carry a full line of all supplies; in fact, we have every requisite that is required by the retail florist.

Whatever Your Needs Are in this Line We Have It. WRITE FOR PRICES.

HICKS & CRAWBUCK, Inc., 76 Court St., Brooklyn, N. Y. Tel. 3660 Main.

EXTRA FINE FANCY AND DAGGER FERNS
\$2.00 per 1000. Discount on large orders. Leucothoe Sprays, \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season. 38 & 40 Broadway. Formerly Miami Ave. DETROIT, MICH. Send for our weekly price list on Cut Flowers.

REED & KELLER 122 W. 25th STREET NEW YORK
Importers and Manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

WILD SMILAX \$3.50 per case
NEEDLE PINES \$1.00 per doz.
Palm Crowns, \$2.50 per doz.; Palmetto Leaves, \$2.50 per 100; Magnolia, \$2.50 per case; Sheet Moss, \$2.00 per sack; Gray Moss, \$2.00 per sack; Galax, \$1.00 per 100.
Caldwell The Woodsman Co., Evergreen, Ala.

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

Boston.

The Week's News.

At a meeting of the Board of Trustees of the Massachusetts Horticultural Society on Saturday it was decided to open the library on Sunday afternoons from 2 until 6 o'clock. This will prove of great benefit to many of the members and especially gardeners and florists who find it inconvenient during business hours to take advantage of the many fine volumes on horticultural subjects.

The committee on special prizes for the Fall show reported progress and stated that the schedule would be ready at an early date. A memorial on the late George M. Fabian was presented by W. N. Craig.

Henry McGrady was accidentally killed on Saturday afternoon at his home in Newton Center by being buried in a trench in which he was connecting a water pipe to one of his houses. The sides of the trench caved in completely enveloping him and when dug out although he was still breathing he soon expired, all medical aid being in vain. Mr. McGrady was 37 years old and with his father conducted a florist business in Newton Center where he was well known.

John Kelly, formerly in the employ of N. F. McCarthy and later with Welch Brothers, died on Monday of pneumonia.

N. F. McCarthy & Company, started their Spring auction sales on Friday with an importation of Dutch-grown roses, trees and shrubs. There was a good attendance and satisfactory prices were realized.

E. Sutermeister is able to be in town again after a four weeks' sickness.

Welch Brothers are handling a fine grade of gardenias at the present time.

D. MacRorie, representing W. A. Manda, South Orange, N. J., is in town this week.

Frank Walsh of the firm of John

POT MAKERS FOR 140 YEARS
A. H. HEWES & Co., Inc. CAMBRIDGE, MASS.
 KIND OF WARE FLORISTS



The Whilldin Pottery Co.
STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
 Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA

WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



Sheep Manure

Pulverized. Free from all Adulteration.
 In Bag, \$18.00 per Ton.

ROBERT SIMPSON
 Clifton, N. J.

Walsh & Son, Melrose Highlands, is the latest benedict; Tuesday was the eventful day and the lucky lady is Miss Catharine B. Morton of Walden.

Arrangements are about completed for a very successful gathering at the banquet of the Gardeners and Florists' Club on the 24th inst. Full particulars will be announced at the regular meeting of the club on Tuesday next. J. W. D.

Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

GEORGE RIPPERGER,
 LONG ISLAND CITY N. Y.

IDEAL PLANT FOOD

Put up in 16^{oz} of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
 194 BOYLSTON ST., BOSTON, MASL.



THE BEST
Bug Killer and
Bloom Saver

For PROOF
 Write to

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 LOUISVILLE, KY.

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\$46⁸⁰

Is the cost of a one inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$140⁴⁰

Is the cost of a three inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$280⁸⁰

Is the cost of a six inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$369²⁰⁰

Is the cost of the *one cent stamp* required to mail 369,200 circulars, exclusive of the great additional cost of paper, printing, addressing, etc.

The advertisements in *The Florists' Exchange* are ALWAYS read. The circular generally goes into the waste basket, without being read.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

....Send for Particulars....
 REGARDING

Tobakine Products

"THEY KILL BUGS"
 "Flowers and Profits"

Is a profitable and interesting booklet.

E. H. HUNT, General Agent
 76-78 Wabash Avenue, Chicago, Ill.

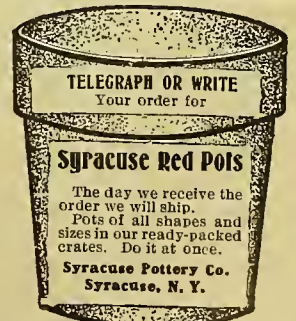
STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate	Price per crate
1500 2 1/2 in. pots in crate, \$4.25	120 7 in. pots in crate, \$4.20
1500 2 1/4 " " " 3.25	60 8 " " " 8.00
1500 2 1/8 " " " 2.00	HAND MADE
1000 2 " " " 6.00	48 9 in. pots in crate, \$8.60
800 2 1/2 " " " 5.50	24 11 " " " 8.60
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250 5 " " " 4.51	12 14 " " " 4.80
144 8 " " " 8.18	8 16 " " " 4.60

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
 August Rolker & Sons, Agts., 51 Barclay St., N. Y. City



PLANT CULTURE

PRICE \$1.00
A. T. DE LA MARE PTG. & PUB. CO.,
 2 Duane Street, New York

HAND CO
A POINT OF VIEW WORTH CONSIDERING

IT'S all right for you to buy your materials from us, and we are always glad to furnish them—but sometimes a man doesn't get the results he would if we had also erected the house for him; and that's why every year the florist is doing less and less of his own erecting.

Here's what one of our customers recently said in answer to an inquiry as to why he had stopped doing his own building: "My business is growing flowers, not building greenhouses. I can't afford to take the time from the business that I do know about, to experiment with something that I know nothing about."

Let us take this side of the question up with you at once. Write today, you'll be just as busy tomorrow.

HITCHINGS and COMPANY

GREENHOUSE DESIGNERS AND BUILDERS. Manufacturers of Heating and Ventilating Apparatus
1170 Broadway, New York



Detroit, Mich.

Club Meeting.

April 3, 1907, the Detroit Florists' Club had one of its outline meetings. There was a good attendance and two rousing papers were read, one by Robert E. Unger, the other by J. F. Sullivan.

After the reading of the papers, the Easter trade was discussed very completely. Mr. Sullivan introduced a proposition which should be of interest to all the clubs of this broad land. He proposed to have a committee appointed for the purpose of verifying all news items pertaining to horticulture and floriculture inserted in the daily papers. By this means he expects to keep all absurdities out of the papers, and thus do away with a great source of annoyance. If such a measure was taken in hand by the florists, says Mr. Sullivan, all papers, even periodicals of monthly publication, would look to the trade for correct data. Many monthly periodicals have their so-called space writers, in many cases ladies, who write on subjects of which they are entirely ignorant. Such an agitation would certainly be a great safeguard to the general public.
HARRY.

Cincinnati, O.

News Notes.

We have very little to say regarding trade since Easter; the past week has been very much on the quiet side with lots of stock of all kinds.

Ben George of George & Allan, bulb forcers, tells me that their loss on Paper White and Von Sion narcissus will be not less than \$1,200, to say nothing of tulips. But to make matters worse, four of their help have left and if any one is looking for a situation, call on George & Allan.

J. Charles McCullough says he has been very busy since the last flood and is still doing business at the old stand, Second and Walnut streets. For several weeks Mr. McCullough was very much indisposed and was confined to his bed, directing his business over the telephone which he had within easy reach.

Otto Haefner, formerly of Hamilton, O., but recently of San Bernardino, Cal., died at the latter place Easter Sunday. He was a good florist and was foreman for some firm at the time of his death. He was unmarried.

A few weeks ago it was my pleasure to have a call from our esteemed friend Walter Mott; it seemed like old times to see his familiar face.

Jumping from one subject to another, I would state that two hard freezes have killed much of the fruit in this section, but I am in hopes that Henry Smith of Grand Rapids, Mich., escaped, for, in connection with a very extensive florist business, he has a large fruit farm and annually ships many carloads to the larger markets. At present he is in New Mexico inspecting some orchards in connection with some Chicago capitalists.

Charles Knopf of the B. K. & B. Floral Company, it is reported, has bought out his partners and will conduct the plant.

For Greenhouses, Graperies, Hot beds, Conservatories, and all other purposes. Get our figures before buying. Estimates freely given

GLASS
N. COWEN'S SON,
14 & 16 Wooster Street. NEW YORK

GREENHOUSE GLASS
ALL SIZES

16x24 A. & B. Double a Specialty
C. S. WEBER & Co.,
10 Desbrosses St., New York

AFTER

using about one year, Boulton & Son write: "Your hose is without doubt the best we have ever had on our place. It is just as good as when it first came on the place."

Wrought iron pipe lasts longer than steel. Get our prices on "Guaranteed wrought iron pipe. Send for FREE catalogue. "Ray" Boilers, Ventilating Apparatus, Taps, Valves and Fittings. WILLIAM H. KAY Co., 244 Fulton New York City. Street.

ALL NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 100 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowtham, Notts. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, Lowtham, Notts
European Agents for THE AMERICAN CARNATION

Vernon Grave, Richmond, Ind., was a caller last week, as also Mr. Fuller of the same city.
E. G. GILLET.

FRANKLIN, MASS.—On March 24 plants to the value of nearly \$100 were destroyed by a fire that started in a corner of the greenhouse owned by Joseph Cataldo on his premises on Worsted street. An oil stove had been kept burning in the greenhouse, but it appears that the fire did not originate from this source, but started in a corner some distance from the stove and the cause is somewhat of a mystery. Besides the destruction of several plants the frame work of the house was considerably damaged.



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For Green House heating. Standard Cast Iron Green House Pipe and Fittings.

We are Headquarters for all sizes wrought iron pipe and fittings.

It will pay you to get our special quotation. We also contract for and erect Steam and Hot Water Heating apparatus in all parts of the country.

Illustrated catalogues free on application.

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Manufacturers of IRON FRAME GREENHOUSES
Re-enforcing for Concrete "Post and Board" Walls. Ventilating Machinery, Iron Fittings, Iron Purlins and Gutters for wood houses, etc., etc.
Send for catalogue and designs.

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BY USING

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One cent gets our catalog.

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Evans Improved Challenge

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

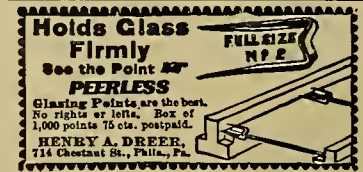
Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO. RICHMOND, IND.

FRANK VAN ASSCHE GREENHOUSE BUILDER

Private or Commercial. Iron or Wood.

Factory and Yards: Fulton and Rose Ave. and Dwight St., Jersey City, N. J.



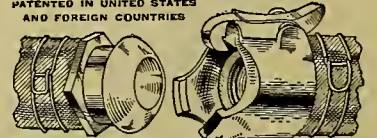
Holds Glass Firmly FULL SIZE SEE THE POINT PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

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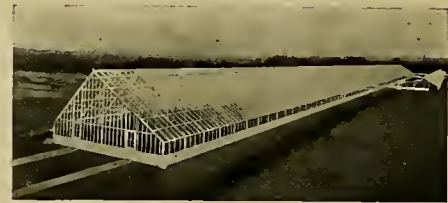
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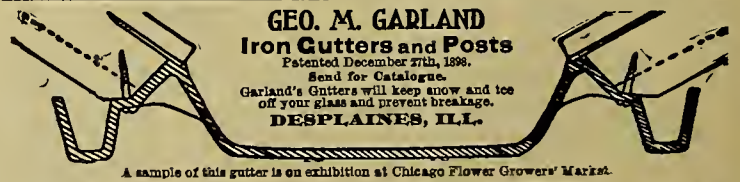
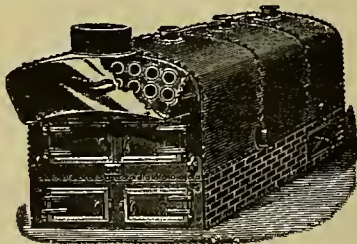
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We are a straight shoot and aim to grow into a vigorous plant

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

Vol. XXIII. No. 16

NEW YORK AND CHICAGO, APRIL 20, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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Richmond, Wellesley, Liberty, Bride, Bridesmaid, Bon Silene, Safrano and Mrs. Oliver Ames.

Splendid stock of ASPARAGUS PLUMOSUS NANUS SEEDLINGS, Seeds saved from my own plants.

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Special Surplus Offer F. O. B. New York

9 to 12 inches in circumference \$4.00
12 inches and up 7.50

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	Per 100	1000		Per 100	1000
MRS. FRANCIS KING	\$4.50	\$40.00	Vaughan's XXX Florists'		
Augusta, finest light color	2.50	20.00	Mixture, made from named		
Brenchleyensis	1.35	11.50	light and white kinds	\$1.75	\$15.00
Ceres, fine pink	1.40	12.00	Good Mixed	.85	7.00
Isaac Buchanan	4.00	35.00	Fine Mixed, all colors	1.25	10.00
May, white, pink flaked	1.75	14.00	Childsill, fine mixed	2.00	18.00

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1st. SIZE 4 TO 6 INCH; MEDIUM SIZE 3 TO 4 INCH
Write for prices

DAHLIA. Field Grown Clumps	LAWN SEED. Vaughan's Central Park
Pink, White, Yellow, Red, \$1.25 per doz.	Clean, heavy seed, sure to grow.
\$10.00 per 100	Half-Pound Lithographed Pkgs., per doz.
MADEIRA VINES, \$1.00 per 100; \$8.50 per 1000	\$1.20; per 100 \$8.50. Pound Lith. Pkgs. doz. \$2.20; 100 \$16.50; Bu. (15 lbs.) \$2.50; 100 lbs. \$14.00.
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or button varieties	\$2 00	\$18 00
Hardy Chrysanthemums, large flowering		
or Aster varieties	3 00	25 00
Hardy English Ivy, Extra strong stock	2 00	18 00
Swainsona, Alba, fine stock	2 00	18 00
Petunias. Dreer's superb, single mixed	2 00	18 00
Verbenas, white, purple, striped and scarlet	2 00	18 00
Petunias, double fringed	3 00	25 00
Alternantheras, six varieties; Ageratum, Stella Gurney; Salvia, Bonfire and Splendens; Begonias, Vernon; Cuphea; Lobelia, Crystal Palace Gem; Lemon Verbenas; Parlor Ivy; Tradescantia; Panicum, variegated	2 00	18 00
Water Lilies, Nymphaea Odorata Gigantea	3 00	
Cannas, 3 in. pots, 12 varieties	4 00	
Hollyhock, double white and mixed	3 00	
Hardy Phlox, 10 varieties	3 00	
Dahlia Roots, good assortment	6 00	
CASH WITH ORDER.		

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

It's Impossible to Buy Cheaper

BEGONIA, Tuberos Rooted

	Per Doz.	Per 100
Single White	\$0.50	\$3.00
Red	.50	3.00
Rosa	.50	3.00
Yellow	.50	3.00
Orange	.50	3.00
Mixed Colors	.40	2.50
Double colors, separate or mixed	1.00	6.00

GLOXINIAS

	Per Doz.	Per 100
Mixed	.60	4.00
Separate colors	.80	6.00

BULBS

Caladium, Medium	\$8.00 per 100
Large	\$12.00 per 100
Tuberose, 4 to 6 inches	\$8.00 per 100
Valley Clumps, Extra large	\$15.00 per 100
Gloxinias, Mixed	\$4.00 per 100
Separate Colors	6.00 per 100
Gladiolus, fine mixed seedlings	\$1.25 per 100, \$11.00 per 1000



CANE STAKES, 5 TO 8 FT., \$6.00 1000

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FROM COLD STORAGE

	100	1000	Case of 2,500
Hamburg Pips Re-Selected	\$1 75	\$13 00	\$28 00
Berlin Pips A1 Quality	2 00	16 00	34 00
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BEST POSSIBLE GRADE

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(White with Pink Eye)	4.00
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Brenchleyensis				Special Mixed,			
selected 1st size	1 50	10 00	47 50	extra large se-			
May	2 00	15 00	60 00	lected bulbs	1 00	8 00	37 50

Gold Medal Strain

	Doz.	100
Single White	\$0 40	\$2 50
" Yellow	40	2 50
" Nankeen	40	2 50
" Pink	40	2 50
" Rose	40	2 50
" Red	40	2 50
" Dark Red	40	2 50
" Salmon	40	2 50
" Orange	40	2 50

Begonias

Tuberous Rooted

	Doz	100
Single Mixed	\$0 35	\$2 25
Double White	65	5 00
" Yellow	65	5 00
" Orange	65	5 00
" Rose	65	5 00
" Dark Rose	65	5 00
" Dark Red	65	5 00
" Red	65	5 00
" Salmon	65	5 00
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ASTER SEED. We are the leading specialists and largest growers of high grade Asters in the world, and have originated more of the standard varieties than all other American seedsmen combined. Five new varieties this past season. **One Packet of Each for \$1.00.**

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Dwarf Wisterias, blue or white in full bud; very fine, 75c. each; \$8.50 per doz.

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Large Bulbs, 1 1/4 to 2 in.

Single white, rose, yellow, scarlet, crimson, orange, separate or mixed, per 12, 30c.; per 100, \$2.00; per 1000, \$18.00

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In separate colors or named, white, red, violet, purple, tigered, blue with white border, red with white border, per 12, 50c.; per 100, \$3.25; per 1000, \$30.00

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IF YOU NEED

Summer-Flowering Bulbs

German or Japan Iris,

write us for prices. We have the stock and can give you satisfaction.
JOHN LEWIS CHILDS, Floral Park, N. Y.

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. PEACOCK, Inc.
ATCO N. J.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

Just 389,985 one cent packages of flower seeds have been distributed among the school children of Cleveland, O., this year and at the end of the season prizes will be awarded to those making the best use of them.

ERNST BENARY, Erfurt, Germany, sends us a colored plate showing his latest introductions in *Petunia hybrida grandiflora fimbriata*. The markings are exceedingly pretty.

LOS ANGELES, CAL.—The recent item in regard to the onion sets that was productive of inquiry of the Editor should have read 100 instead of 1000 tons. This is the second year in business of the firm named in seed and onion set growing at Westminster, Cal.
P. D. H.

NEW YORK.—Sealed bids or estimates will be received by the Park Board at its office, Arsenal Building, Fifth avenue and Sixty-fourth street, until 3 p. m., Thursday, April 25, for furnishing and delivering grass seed, flower seed, and plants (No. 1, 1907), for the parks of the Borough of the Bronx.

ZVOLANEK'S SWEET PEAS.—Edwd. Alex. Wallace, Victoria, B. C., writes to the Horticultural Advertiser of England to the effect that he has grown the Zvolanek sweet peas this Winter and notices "that the tendrils have lost their power of clinging. Very few attach themselves to the strings, and these in a very loose and perfunctory manner. We have to train these peas about twice every week. This seems to me pretty strong evidence in favor of the vetch."

SANTA ROSA, CAL.—It is understood that Governor Gillett desired Luther Burbank to accept an appointment as Commissioner of Horticulture, as the successor to Ellwood Cooper, whose term will soon expire. Cooper is growing old and does not desire reappointment. Gillett felt that the State would receive wide value for the money expended if Burbank could be persuaded to accept. Burbank is working on plant problems under the direction of the Carnegie Institute at a yearly salary of \$10,000, and could not accept another position.

LARGE PRIVET

3 to 4 feet 1000
4 to 5 feet X..... \$30.00
5 to 6 feet 50.00
6 to 8 feet, XX..... 90.00
Wichuriana Hybrid, 2 year..... 40.00
Plenty of shrubs at low prices.

CANNAS, 4 inch pots, \$6.00 per 100.

ELIZABETH NURSERY CO., Elizabeth, N. J.

WATERLOO, NEB.—The J. C. Robinson Seed Company says the season's rush is nearly over; vine seeds and sweet corn orders were closed up some time ago, and another week will close up all field corn orders. Business in the latter has been brisk and all stocks of Flint and early Dent varieties are exhausted. Vine seed stocks are the lowest they have been in two years. Farmers are rather slow in taking contracts for vine seed, even at somewhat increased prices; and owing to trouble in getting Flint corn husked, they are fighting shy of them as well as small early sweet corn.

LOUISVILLE, KY.—Messrs. Wood, Stubbs & Company state that owing to the very favorable and opening weather during the early part of the season, the seed business has been very good. Local business started at least two weeks sooner than formerly, and has kept up without intermission steadily for two weeks, so the sales on garden seeds are far in excess of last year's business. Stocks of field seeds are pretty well cleaned up generally in this market. Grass seeds and clovers, though considerably higher than in other years, have been in very great demand, and prices have no effect on the demand. Onion sets are all used up; in fact, it would be hard to get five bushels in the entire city. Onion seed is about all exhausted in this market; sowings in this locality are about completed, and the acreage is about the same as usual. Cow peas, sweet corn, soy beans and other similar crops are getting scarcer, and the first three items are considerably higher than usual.

AMERICAN SEED TRADE ASSOCIATION.—Arrangements for the program of the forthcoming annual convention, to be held at the Hotel Astor, Times Square, New York City, June 25, are progressing very well. Among some of the most interesting matters already arranged for are the following: "Reminiscences of the Seed Trade," by F. W. Bruggerhof of J. M. Thorburn & Company. Mr. Bruggerhof has had an active experience of more than fifty years in the trade, and those who are fortunate enough to have a personal acquaintance with him feel sure that his paper will be a most interesting and valuable one. Dr. B. T. Galloway, Chief of the Bureau of Plant Industry of the U. S. Department of Agriculture, has agreed to give a talk on "What the Department of Agriculture is Doing for the Seed Trade." J. Horace McFarland will prepare a paper on "The Twentieth Century Seed Catalogue." From Mr. McFarland's knowledge and experience in this particular line, his treatment of the subject should be both interesting and profitable to the seedsmen. S. F. Willard will deliver a paper on "The History of the American Seed Trade Association," giving a review of the principal and most notable events of the association's past history.

The convention to be held in New York is the twenty-fifth anniversary of the formation of the American Seed Trade Association, and efforts are being put forth to make it a most notable occasion in celebration of that event. The selection of the Hotel Astor by the local Committee on Entertainment is a very happy and fortunate one. This hotel is one of the most modern in New York City, centrally located, and its selection should add very much indeed to the success of the convention.

EXPORTS OF SEEDS, etc.—April 5. —Shipped from New York to Aarhus, 55 bags grass seed, valued at \$405; to Cape Town, 24 packages seed, valued at \$106; 10 bags clover seed, valued at \$400; to Savanilla, 50 bags seed, valued at \$374; to Havana, 28 packages seed, valued at \$239; to Shanghai, two packages seed, valued at \$190.

HOW TO GROW MUSHROOMS

Price, - - 10 cents.

A. T. De La Mare Ptg. & Pub. Co.

2-8 Duane St. New York.

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

Summer Flowering Bulbs

CANNAS

Strong roots with two and three eyes at a special price to clear.

Alphonse Bouvier	Egandale
Alsace	F. Vaughan
Allemania	Italia
Austria	Mme. Crozy
Chas. Henderson	Philadelphica
Chicago	

and other sorts. Any of the above

\$2.50 per 100, per 1000, \$20.00

CALADIUMS

Monster Bulbs.....	100	1000
Mammoth.....	\$10.00	\$95.00
First Size.....	7.25	70.00
Second Size.....	5.00	47.50
	3.00	27.50

Write for a copy of our Wholesale Price List also general seed catalogue.

HENRY F. MICHELL CO.
1018 MARKET ST., PHILADELPHIA, PA.

DAHLIAS

We have a large assortment of choice named sorts in **DOUBLE, CACTUS, SINGLE** and **FANCY** varieties.
Strong clumps, \$1.00 per doz., per 100, \$8.00.

GLADIOLUS

Strong bulbs which will bloom this season.

Scarlet and Crimson	\$1.00	\$9.00
Pink and Variegated	1.25	12.00
Striped.....	2.00	19.00
White and Light.....	1.75	15.00
Yellow.....	2.50	24.00
Childsii mixed.....	2.00	18.00
Groff's Hybrids, mxd.	1.50	14.00
Choicest mixed.....	1.25	10.00
Fine mixed.....	1.00	8.00

OLD FASHIONED

Sweet Lavender

fine plants, 2 in. pots, 1 year old, 6c.

ASPARAGUS all sold.

R. C. HANFORD, Norwalk, Conn.

Stokes Standard Seeds.

Write me for advance prices in French and Dutch Bulbs.

Stokes Seed Store.

219 Market St., PHILADELPHIA

During 1906 we furnished to the trade over One Hundred Thousand of the below described leaflets.

CULTURAL DIRECTIONS

Specially written for the use of your amateur customers. Send Twenty-five cents for complete sample set, which amount will be deducted from order for first thousand.

The universal favor in which these Directions are held, as shown by the many orders received therefor, encourages us in the belief that these Leaflets are just the neat little factor to help promote business and establish better relations between the dealer and his customer.

TRY SOME!

BIG BUSINESS ASSISTANT

TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE YOUR CUSTOMER, WE HAVE PREPARED

Cultural Directions

COVERING A NUMBER OF THOSE PLANTS AND BULBS MOST LARGELY IN DEMAND

THE "CULTURALS" have been written by experts; they are fuller, and contain more detailed directions than it is possible to embrace in a catalogue. Equipped with these, just hand one out with each sale, and save yourself considerable present and future trouble, as the customer will then be able to consult the directions, grow his plants, seeds or bulbs intelligently, and so receive satisfactory results, without having to continually resort to you for advice.

The following "Culturals" are now ready:

AMARYLLIS (Hippeastrum)	CROCUS, Snowdrop and Scilla Sibirica	MUSHROOM CULTURE
ANNUALS FROM SEED	DAHLIA	ONIONS
ASPARAGUS	FERNS	PALMS, House Culture of
BEGONIA, TUBEROUS	FRESIA	PANSY
BULBS	GERANIUM	PERENNIALS, Hardy
CABBAGE and CAULIFLOWER	GLADIOLUS	PRIMULA
CANNA	GLOXINIA	ROSE CULTURE
CARNATIONS, MONTHLY	HOT BEDS and FRAMES	SWEET PEA, The
CELERY	HOUSE PLANTS, Care of	TOMATOES
CHINESE SACRED LILY	HYACINTHS, Dutch and Roman	TUBEROSE
CHRYSANTHEMUM	IRIS AND TRITOMA	TULIP
CLIMBING PLANTS, Hardy	LAWNS	VEGETABLES
COLEUS, and other bedders	LILY CULTURE for House and Garden	VIOLETS
		WATER GARDEN, How to make and Manage a

PRICE LIST

500 Cultural Directions for \$1.50	Printed on white paper, clear type, size 6 x 9 1/2 inches, in an assortment, your selection of not less than 100 of each, delivered carriage paid.
1,000 - - - - - 2.50	

Sufficient space will be left at the bottom of each leaflet for your name, address, etc. If you desire this imprint (3 lines) we will put same on for you at 50 cents for 500, 75 cents for 1,000. Special quotations will be made on quantities of 2500 "CULTURALS" or over.

A. T. De La Mare Ptg. and Pub. Co. Ltd.

Pubs. The Florists' Exchange. P. O. Box, 1697, NEW YORK

JAPANESE IRIS

Every florist should have a bed of this beautiful class of Iris. They are perfectly hardy and need little care. The large and magnificent flowers are very useful for cutting. Our collection consists of 25 of the best varieties. Strong clumps: 15c. each, \$1.50 per doz.; \$3.00 for the set of 25 varieties.

PANSIES

Strong bushy plants raised from our "Gold Medal Strain" sown in July. \$3.00 per 100; \$27.50 per 1000.

PERENNIAL GARDENS CO. TOLEDO, O.

VEGETABLE PLANTS

LETTUCE, Grand Rapids, Big Boston,	100	1000
Parsley Market and Tennis Ball.....	\$0.20	\$1.00
BOSTON, Moss curled.....	.25	1.25
BEETS, Eclipse.....	.25	1.25
CELERY, White Plume, White Solid, and Celeriac, Giant Plague.....	.20	1.25
EGG PLANTS, N.Y. Improved, small for transplanting.....	.25	2.00
PEPPER, Bull Nose and Sweet Mountain.....	.25	2.00
TOMATO, Earliana, Early Jewel, Lottard and Mayflower.....	.30	2.00
Stone, Perfection and other late kinds.....	.20	1.00
CABBAGE, Ready May 10th. Standard sort in any variety.....	1.00	
R. VINCENT, JR. & SON, White Marsh, Md.		

HARDY PHLOX

MISS LINGARD, best white summer color, R. C., \$30.00 per 1000.
CARNATION ABUNDANCE, R. C., \$40.00 per 1000; from 2 to 4 pots, \$60.00 per 1000.
HYDRANGEA HORTENSIS GRANDIFLORA, R. C., \$50.00 per 1000. Cash with order.

L. I. NEFF, PITTSBURG, PA.

THE AMERICAN CARNATION

Price \$3.80
A. T. DE LA MARE Ptg & PUB CO. LTD.
2-8 Duane Street, New York.

IMPORTS OF SEEDS, Etc.—April 5.—Maltus & Ware, 21 cases plants, three cases trees. April 6 and 7.—American Tobacco Company, 15 cases trees; H. Frank Darrow, two cases live trees; Hussa & Company, two cases plants; Maltus & Ware, 27 cases trees, two cases roots; August Rolker & Sons, 31 cases live plants; J. Ter Kulle, one crate plants; H. Waterer, five cases trees. April 8.—L. P. Schramm & Company, two cases trees; C. A. Haynes & Company, 29 packages plants; H. H. Homfeck, one case live plants. April 11.—Magro, one package plants. April 12.—American Express Company, 140 tubs laurel trees; Hussa & Company, 580 tubs laurel trees; Vaughan's Seed Store, one case bulbs; E. R. Brackett & Company, one box Ivy buds; J. & G. Lippmann, three boxes lilies; F. B. Vandegrift & Company, three barrels roots; Maltus & Ware, 50 cases plants; J. E. Ward & Company, eight bags plants; Wm. Elliott & Sons, 12 cases plants; McHutchison & Company, five cases trees, 110 packages plants; Maltus & Ware, 141 packages plants, etc.; P. Ouwkerk, 33 cases trees, 500 loose plants; F. R. Pierson Company, 29 cases trees.

European Notes.

Never in the history of the oldest inhabitant or since the preparing of meteorological records has Europe been favored with such a magnificent spell of glorious sunshine as we have this year experienced. We have enjoyed the twelve hours per day all the more complacently because the light, cool air by day and the surface frosts by night have kept vegetation in check and thus preserved it from injury. Although we have only had one light shower in nearly four weeks the land beneath the surface is sufficiently moist for all purposes and our Spring sowings of all kinds are now visible above the ground. Present indications point to rain in the near future and this, with the cessation of frost, will help our plants of cress, radish and spinach to make up for lost time.

As regards our biennial crops very little needs to be said. What is left standing is looking very promising and in the case of cabbage, Brussels sprouts and broccoli have grown much more quickly than could have been expected.

The satisfactory way in which the green crops of mangel and kohlrabi withstood the heat and drought of last Summer has caused an unusually heavy demand for these articles for Spring sowing. The crops of these seeds in England last year were both very good; they are consequently abundant and cheap.

The trade in the giant half sugar mangels has assumed very large proportions in France with a corresponding decrease in the demand for mangels of the coarser kinds. Some of the more enterprising firms in England are trying to popularize them in that country, but with such an absurdly conservative class as the British farmers it will mean a very hard struggle.

The culture of sugar beet for sugar is also a dead issue for the present, as, owing to the ridiculously low price of sugar, it is much more profitable to grow wheat.

EUROPEAN SEEDS.

NOTES FROM HOLLAND.—After three weeks of almost continuous hard storms and cold weather the last week of March has suddenly marked such an improvement in the temperature that the general aspect of the bulb fields has changed as if by magic. Whereas we expected that Easter would find us still in Winter weather and no flowers, some of the earliest of the narcissi, like Yellow King and Ard Righ, have suddenly burst into bloom, and many of the hyacinth varieties are already showing their colors, and will be in full bloom by the end of next week. If the present fine weather should continue, we may expect that hyacinths will be at their best in about two weeks from now, and tulips 10 days later.

Judging from the present state of the crops, outside of the fact that the acreage planted out this season is considerably less than last year, everything is promising a good crop, but as the critical time of growing has to come yet, after the flowering season, nothing decisive can yet be said.

Spring shipments have not been as good as last year up to the present, but as we have nearly a full month still before us, there is plenty of time to make up for it. Seedsmen, however, have no reason to complain, as the demand has been unusually good from all sides, and prices realized have been very satisfactory.—Horticultural Trade Journal.

INSUFFICIENT POSTAGE.—We notice in your issue of March 23 a protest about the insufficient stamps put on letters to Germany. We would like to join in the protest for this country. Scarcely a mail passes in the season that we do not have to pay an excess of 6c. The mail rate from U. S. A. is 5c. and when there is only a 2c. stamp put on it leaves a deficiency of 3c. which, according to our Post Office rule, we have to pay double on. We put this down often to the carelessness of the office boy, but it is quite a tax on us all the same.

JAMES CARTER, DUNNETT & BEALE, London, Eng.

CATALOGUES RECEIVED.

PETER LAMBERT, Trier, Germany. —List of New Roses for 1907.

AMERICAN WIRE BRUSH COMPANY, New York.—Illustrated Catalogue of "Minerva" Brush.

IDEAL CONCRETE MACHINERY COMPANY, South Bend, Ind., and London, Canada.—Illustrated Catalogue of Concrete Machinery, containing much valuable information regarding concrete in general.

Prices Advertised in these Columns are for

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

Dreer's Hardy Perennial Phlox

We are the largest growers of Perennial Phlox in the world. Our collection is unequalled, and we are prepared to furnish the new and rare kinds as well as all the popular and standard varieties in large quantities.

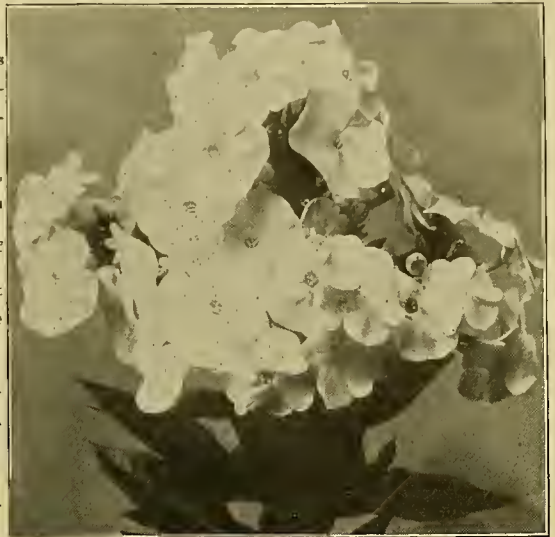
The plants we offer are nearly all strong one-year-old field-grown plants or equally strong divisions, and will make a fine display of flowers this season. This stock is much superior to and must not be confounded with young Winter propagated stock such as is generally sent out in the Spring of the year.

New and Rare Hardy Phlox and Varieties of Special Merit

Table listing various Phlox varieties with prices per dozen and per 100. Includes varieties like Albion, Chateaubriand, Coquelicot, Etna, etc.

Choice Standard Phloxes

Table listing standard Phlox varieties with prices per dozen and per 100. Includes varieties like Aquillon, Andrea Hofer, Bouquet Fleuri, etc.



Phlox Subulata

Moss Pinks or Mountain Pinks.

- List of Phlox Subulata varieties: Alba, Atropurpurea, Lilacina, Nelsoni, Rosea, The Bridesmaid.

All the above in strong clumps, 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

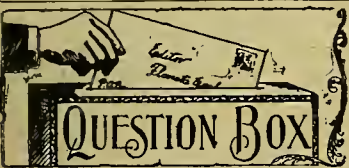
Phlox—Various Types

Table listing various Phlox types with prices per dozen and per 100. Includes Amoena, Divaricata Canadensis.

For complete list of hardy Perennial Plants, see our current Quarterly Wholesale List just issued.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA

The above prices are only for Florists, or those engaged in the trade.



(80) Wants a Cactus Catalogue.—If you know of a commercial place where they make a specialty of cactus, will you kindly publish their address? I would like to obtain a catalogue of cactus. P. B.

New York.—For the address of a grower of cacti and succulent plants, we would refer you to Frank Weinberg, Woodside, L. I.

(81) Lettering on Lawns.—What materials are used for lettering on lawns? Is there anything hardy employed that will not have to be replanted each year, something like a grass seed, but that will produce a color contrasting with the green lawn? I think a description of how this is done; how far apart to set different plants for that work and something as to the price charged for such work would interest many readers. New York. J. E. A.

—We know of no plant that is suitable for the purpose mentioned. The only way in which lettering can be done on lawns to be permanent is to do it with pebbles or medium-sized stones, and keep them white by frequent applications of whitewash or some other material.

(82) Leaf Blight of Gladiolus.—A purchase last Spring of 500 gladiolus bulbs (from one who made, by the bye,

large claims for his stock), introduced the first leaf blight of this flower I ever had on my grounds. In the Fall I had the whole lot dug up and given away. Is the disease likely to reappear with new corms from another source? Kindly tell me about this blight, as I am wholly ignorant of its cause and character. Canada. C.

—In our opinion the disease is not likely to reappear with new bulbs planted if they are of a variety that has not been affected with the blight in the past. We have been troubled with this blight more or less for a good many years, and have tried all kinds of experiments, planting the corms early and late and lifting early and late. We have tried planting with and without different kinds of fertilizers, but without any real results that amounted to anything. We have found that it is beneficial to plant on new ground as much as possible, yet this is not a complete remedy. There have been times when we thought that our stock was affected, perhaps on account of using the same ground year after year, more than other people's, but on looking into the matter we have learned that certain varieties that have been diseased with us have also done poorly with other growers, both in this country and abroad. For instance, the old variety Grand Rouge, which at one time was one of the leading sorts, was affected with this disease, and the entire stock has been lost. In tracing up this variety in foreign countries we found that the growers there report a crop failure also. This applies to White Lady and several other sorts, so we have come to the conclusion that the fault lies in the variety more than in the soil. On the

HERBACEOUS PERENNIALS We offer a fine stock of perennials as follows

Table listing various herbaceous perennials with prices per dozen and per 100. Includes Achillea, Agrostemma, Anemone, etc.

EDWARD J. TAYLOR, Roslindale, Mass.

10,000 Berberis Thunbergii, 18 to 24 in., \$50.00 per 1000. 15,000 Berberis Thunbergii, 15 to 18 in., \$40.00 per 1000. All are 2 year old transplanted, fine, bushy stock 2,000 Myrtle, nice plants, \$45.00 per 1000. 8,000 choice Dahlia roots for sale, cheap.

OAK HILL NURSERIES, Roslindale, Mass.

other hand, take the varieties Ceres, Breachleyensis, Shakespeare, etc., and plant these on ground that has been used for the varieties that were diseased, and the former show no effect of the blight whatever. Some years ago the New York State Experiment Station took up this matter with us very extensively, and they were forced to abandon it, having obtained no practical result. JOHN LEWIS CHILDS. Floral Park, N. Y.

CANNAS

Strong, Dormant Tubers Mixed varieties, \$2.00 per 100; \$15.00 per 1000. ALLEMANIA, CHAS. HENDERSON, MLLC. BERAT, PRES. FAIVRE, ROBUSTA, \$3.00 per 100; \$25.00 per 1000. ALPHONSE BOUVIER, BEAUTE POITIVINE, BRANDYWINE, BURBANK, DAVID HARUM, FLORENCE VAUGHAN, J. D. CABOS, MME. CROZY, QUEEN CHARLOTTE, SEMAPHORE, \$4.00 per 100; \$35.00 per 1000. We also have many other named varieties.

VICK & HILL CO. P. O. Box 613 ROCHESTER, N. Y.

Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

Flowering Magnolia
Althæas
Spiræa Van Houtte
Tamarix
Pyramidal Tree Box 4/5 ft.
Tartarian Honeysuckle
Barberry Thunbergii

Nursery Stock for Florists' Trade

General List

Fruit and Ornamental Trees, Roses, Shrubs, Clematis, Hedge Plants

Write for our Spring Wholesale Trade List

W. & T. Smith Co. 61 Years' Experience 600 Acres Geneva, N. Y.

Crimson Rambler
Baby Rambler
General Jack Rose
Lilac Chas. X
Lilac, Purple and White
Lilac, Rubra de Marley
Deutzia Gracilis

10,000 American Arbor vitæ,

(THUYA OCCIDENTALIS.)

Each tree grown wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arbor vitæ will.

3-4 ft. Size Per 10. \$6.00 Per 100. \$50.00
4-5 ft. Size 7.50 60.00

Prices for dealers only Packing additional at cost. 25 or more at the rate per 100
Send to us for Ornamental Nursery Stock of all Kinds.

The WM. H. MOON CO., Morrisville, Pa.

ROSES

American Beauty, Clothilde Sonper, Gloire de Dijon, Katesrin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., etc., Suitable for Foreign Immediate Delivery. Prices Right General Catalog and Price List ready

BAY STATE NURSERIES, North Abington, Mass.

F. & F. NURSERIES

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

Crimson Rambler

Two years, strong, field-grown, at \$7.00 per 100, a few other varieties still to be had in No. 1 stock, as well as a good assortment of

SHRUBS, SHADES, CONIFERS, VINES and PERENNIALS

for Spring planting. Write for our latest offers.

In GRAFTED ROSES for forcing, we can still book orders for

RICHMOND, KILLARNEY, CARNOT, IVORY, WELLESLEY, etc.,

at \$100 a 1000. Fine, thrifty, plants on English Manetti, in 2 1/2 inch pots.

Also Roses on own-roots from 2 1/2 inch pots. Send for list.

JACKSON & PERKINS CO., - - - Newark, New York

JAPANESE LILIES, IRIS, PÆONIES

IRIS KAEMPFERI, cases of 50 strong clumps of 50 best varieties, \$6 a case.

HERBACEOUS PÆONIES, cases of 84 strong clumps of the 12 best Japanese varieties, 7 clumps each variety, \$15.00 a case.

The YOKOHAMA NURSERY COMPANY, Ltd., 31 Barclay Street, NEW YORK

BEECHES

American, European, Copper, Rivers purple, Weeping and Fern leaved, large and small.

SHRUBS

Viburnums, Cornuses, Deutzias, Forsythias, Berberis and other shrubs 3 to 8 feet.

CONIFERS

Picea pungens and orientalis 3 to 6 feet. Abies Nordmanniana and Hemlocks 3 to 6 feet. Retinisporas and Junipers in variety. See trade list of MORRISVILLE NURSERY.

Samuel C. Moon, MORRISVILLE, PA.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

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

JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiræa Japonica, Lillium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

The F. E. Conine Nursery Co.

Established 12 Years, Stratford, Ct.

Send your orders to us when you do not know just where to get your

NURSERY STOCK.

We can fill most any variety or size. Retail only

Prices Advertised in these Columns are for

ARISTOLOCHIA SIPHO

Strong, \$25.00 per 100.

Double Flowering ALMOND, 3 to 4 ft., \$15.00 per 100. Oriental PLANE, 2 to 2 1/2 in.. \$125.00 per 100. Send list of wants for prices. Ask for catalogue.

HIRAM T. JONES, Union County Nurseries Elizabeth, N. J.

A Box Car

WILL HOLD 10 TO 15,000

CALIFORNIA PRIVET

I will pack them in car at reduced prices. California Privet, 3 to 4 ft., \$4.00 per 100; \$20.00 per 1000; 4 to 5 ft., \$5.00 per 100; \$25.00 per 1000; 5 to 6 ft., \$8.00 per 100; \$35.00 per 1000; Standard Privet, 5 ft. high, fine sheard heads, \$7.00 per 100; \$50.00 per 1000; Bush Privet, sheerd round, 4 to 5 ft. high; 3 to 4 ft. in diameter, \$7.00 per 10; \$50.00 per 100.

American Elms, fine trees, 12 ft., \$30.00 per 100; \$250.00 per 1000. Horse Chestnut, 2 to 2 1/2 caliper, 10 ft. high \$10.00 per 10; \$75.00 per 100.

Horse Chestnut, specimen trees, 3 to 4 Caliper, 12 ft. high, \$20.00 per 10; \$150.00 per 100. European Linden, 2 to 2 1/2 caliper, 12 to 14 ft. high, \$10.00 per 10; \$80.00 per 100.

Spiræa Billardii, 3/4 to 4 ft., \$1.00 per 10; \$8.00 per 100. Althæa, in variety, 4 to 5 ft., \$1.00 per 10; \$8.00 per 100.

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50,000 Sugar Maple Seedlings

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2,000 Hydrangea P. G., 2-3 ft., 7c.

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100 Deutzia Gracilis, 18 to 24 in. 7.00

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DECIDUOUS TREES and SHRUBS, EVERGREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties.

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Sound roots, 2 to 3 eyes, true to name

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Secretaire Chabanne, 4 ft., oranges, 2.00 19.00

scarlet, 2.00 18.00

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Martha Washington, 2 1/2 ft., rose p'k 1.50 14.00

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Free, Meyers, 4 ft., flower and foliage like King Humbert, 3.00 25.00

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Dahlias, leading kinds named, 3.50 33.00

Caladum, 6-8 in. circumference, 1.50 14.00

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Tuberose, Double Pearl, 4-6 in. 1.10 8.00

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NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN,
Orlando Harrison, Berlin, Md., president; J. W. Hill,
Des Moines, Ia., vice-president; George C. Seager,
Rochester, N. Y., secretary; C. L. Yates, Rochester,
N. Y., treasurer.

A NEW APPLE.—Hubert & Company Limited, seedsmen and florists, Jersey, Channel Islands, have a new apple which they intend introducing to the United States. The variety has been named "Jersey Pioneer." It is of a bright red color, of fair size, and is an excellent keeper. The introducers intend to place a few trees in different parts of the country in order to ascertain its growing and bearing qualities here.

TWIG FOR NAME.—Will you kindly give me the right name of sample spruce sent under separate cover. It is apparently a spruce of a robust growth, with a kind of bluish tint and stands the sea winds remarkably well. M. F.
Long Island.

—It is difficult to name sprigs of coniferous trees correctly. Whether a pine, fir or spruce can be told, but not so well the species. The spruce sent I believe to be what is called white spruce, *Picea alba*. J. M.

AMERICAN ASSOCIATION OF NURSERYMEN.
—The committee on exhibits is ready to receive applications for space at the forthcoming convention of the American Association of Nurserymen to be held at Detroit, Mich., June 12, 13 and 14 next. Application blanks can be secured from the chairman of the committee also any information required. The committee has decided that no application for space will be considered after June 1, and all exhibits must be in place at the exhibition hall not later than Tuesday evening, June 11. Application for space must be made on blanks to be furnished by the committee. Exhibits of every character, that will be of interest to nurserymen, are solicited; trees, shrubs, fruits, implements, and machinery and such devices as are or can be used by nurserymen, are especially desired. The committee is anxious to make this the most complete exhibition ever presented at the annual convention and earnestly requests intending exhibitors to take up the matter with the chairman of the committee as soon as possible so that all arrangements can be made in good time. Members of the association will confer a favor on the committee by advising them at once of the names of any manufacturer of tools or implements used by nurserymen so that an exhibit can be solicited from them.

THOMAS B. MEEHAN, Chairman.

A Fastigate Form of Larix Americana.

Editor Florists' Exchange:

I mail you a photograph of a small tree which I picked up in a near-by swamp. It has the Irish juniper habit of growth, foliage like that of larch or tamarix and cedar bark, stands about 2 ft. 6 in. high, and 6 in. wide. Please give the name of it, if known, and state if the plant is rare or grown extensively.

Syracuse, N. Y.

W. MENEILLY.

—The photograph represents a bushy, fastigate form of the tamarack, *Larix americana*, which, if propagated, would make an interesting addition to the list of ornamental trees. It could be increased by inarching or grafting it on the common larch.

JOSEPH MEEHAN.

Seasonable Notes.

The difference in appearance often noticed in the *Abies concolor* may be from one representing the Colorado form, the other, the Californian. The latter is sometimes known as *A. lasiocarpa*, and it is not of equal hardness to the one from Colorado.

Purple-leaved barberry is still in great demand, as it fully deserves to be. Its purple foliage is displayed early in Spring; its branches of yellow flowers also come early, and then the red berries follow. It is, too, among our hardest shrubs, hence its value in the coldest States. It comes fairly true from seeds; and seeds should be sown in Autumn, or in Spring if kept in moist soil all Winter.

No grander tree exists than a full grown blood-leaved beech which has thriven at will. But for certain situations pyramidal forms of it are most desirable; and they are lovely to look on when the foliage is fully expanded in Spring. Trees desired of this shape should be pruned in late Winter or early Spring, giving them the desired pyramidal shape.

English primroses live outdoors all Winter in the Middle States if given the shelter of a covering of leaves. But they require to be in a moist, shady place all the time, to have success with them. They should be set out in Spring, that they may have good root-hold by the close of the Summer.

Both Halesias, tetraptera and diptera, are known as snowdrop tree on account of their blossoms looking so much like the flowers of the snowdrop. *H. tetraptera* is the better known, but both should be grown where hardy, as they are here, as *H. diptera* flowers later than the other, and it has large foliage. The flowers appear in advance of the leaves.

A Maryland writer asks if the cork oak will live out in his State. It is not likely to, though it may not have been tried. It will stand a few degrees of frost, such as it meets with in California, but the zeros of Maryland are not to its liking.

Red birch, *Betula rubra*, is in much request for planting along the banks of rivers, situations it delights in, and it tends to hold the soil together as well. The seeds of this birch ripen in early Summer—June—and re-

very first flowers to proclaim by its appearance that Spring is near. Its bright yellow blossoms come in February or March.

It is customary to treat hollyhocks as biennials, sowing the seeds in Spring. This is a satisfactory way of treating them. If seeds are sown in January in the greenhouse and grown ahead from the start the plants will often bloom the first season. Plants treated as perennials are often satisfactory.

Killing Trees.

The killing of a tree by ringing it is understood by many gardeners, but the proper time to do this is not so well known. It has to be just as the foliage of the tree has fully expanded in Spring. The reason why this is the proper time is because during the Summer season trees are storing up sap, which has been perfected by the leaves. This is the office of the foliage. When the leaves fall there is this sap in all parts of the tree including the roots. As soon as Spring opens the sap is supplied to the leaves, bringing them to perfection, and when they are at this stage, fully unfolded, all the perfected sap is virtually exhausted. By ringing the tree then it stops communication between the severed parts, no more true sap can descend to the roots and, though the leaves may remain green even to the close of the season, there will be no fresh ones made the Spring following. If the ringing has been done at the exact time there will be no sprouting below the ringed part as well as none above, as no true sap will have been furnished by the new leaves, and all the tree had stored up before will have been used up.

The ringing may be done at any point desired. If the whole tree is to be killed, do it near the ground. A strip of bark of a width of from four to six inches will suffice.

The killing of poison vines and all objectionable plants can be accomplished by chopping them down at the same time in Spring, when the leaves first fully expand. If all sap has been drawn out by the tops before they were chopped off there will be no more shoots made. Otherwise there will be a few, which must be chopped off as soon as seen, for no plant can long exist that has no leaves.

Hedges of Purple Beech.

Hedges of beech are met with occasionally here, but they are not as common as they are in Europe. Yet in the way of a screen as well as for beauty nothing answers in the way that the beech does. The common European beech holds its leaves all Winter even though they die in the Fall, and because of this such a hedge is one of the best to act as a windbreak; and in Spring, when its leaves are well unfolded, it forms one of the most pleasing hedges on a place. The blood-leaved beech makes a beautiful picture when its new foliage is well matured in Spring. As is well known, the color intensifies for many weeks until it reaches its darkest stage, after which it lessens through the rest of the season; but even at the last, when Autumn comes, it is still a purple-leaved beech. A hedge of purple beech is a sight calling many to see it when in its perfection of new growth in late Spring. Seedlings of the purple beech are better to use than the Rivers' variety. The seedlings are bushy growers, while the Rivers' is not. The latter is known to be apt to make but few branches comparatively. It is first-rate as a tree, but as a hedge it lacks the bushiness required. Seedlings from the blood-leaved beech do not all possess the dark color of the parent, but vary from a light to a dark purple. As seedlings are set in nursery rows for a few years until they are of a suitable size for hedging, it gives an opportunity to select a uniform dark color, that the whole hedge may look alike.

Beeches are best set in Spring and at all times should be had into good roots and be severely pruned to insure success with them.

Value of the English Linden.

As between our native linden, *Tilia americana*, and the European one *Tilia europæa* the latter gives the most satisfaction in planting. The americana makes a very large tree, often too large, and its foliage is just what tent worms like, judging from the way they attack it every season. Then the leaves, though large, have not a pleasing green color. These defects would not be noticed so much could we do no better, but in European linden we have a superior tree. It is a medium sized tree; its foliage is of a pleasing green, and is not troubled with tent worm or any other insects. Its leaves are small compared with those of the American, and they are retained late in the season. The American is sometimes seen set as a street tree, a position it is no more fitted for than the plane, growing altogether too large. The European is much the better for this purpose, but it, as well as all lindens, delights in good, deep soil.

There are more than one variety of European linden; and foreign nurserymen say that to get the best, the order should call for *Tilia europæa platyphylla*.

JOSEPH MEEHAN.



A Fastigate Form of Larix Americana.

quire sowing at once, as they rarely vegetate well when sown in Autumn.

Quercus Prinus monticola is the rock chestnut oak, growing always on high ground or at least preferring that situation. The chestnut oak that grows in low ground is the *Q. Michauxii*. The foliage, while unquestionably a "chestnut oak," is larger than and of different outline to the other. Both are splendid lawn trees.

Pecan nut, *Carya olivæformis*, thrives in Southern Pennsylvania, but the trees do not bear the good crops of nuts they do farther south. In Delaware cultivated trees have given satisfaction.

The Winter aconite, *Eranthis hyemalis*, is esteemed by all who are familiar with it. It is really one of the

10,000 SPECIMEN EVERGREENS

ALL TRANSPLANTED

Balled and Burlapped when required.

- Abies Balsamea, 3-4 ft. 4-5 ft.
Abies concolor, 2-3 ft. 4-5 ft.; 5-6 ft.; 6-7 ft.
Abies Douglassii, 3-4 ft. 4-5 ft.
Buxus sempervirens natural, 1 1/2-2 ft. 2-3 ft.
Buxus pyramidalis, 4-5 ft.
Buxus Standards, 18-in. heads.
Juniperus virginica, 2-3 ft.; 3-4 ft. 4-5 ft.
Picea alba, 2-3 ft.; 3-4 ft.
Picea excelsa, 2-3 ft.; 3-4 ft.; 4-5 ft.
Picea excelsa inverta, 3-4 ft.; 4-5 ft.; 5-6 ft.
Picea excelsa conica, 2-3 ft.
Picea pungens green, 3-4 ft.; 4-5 ft.
Picea pungens blue, 3-4 ft.; 4-5 ft.
Pinus cembra, 2-3 ft.; 3-4 ft.
Pinus mugho, 12-18 in.; 18-24 in.; 2-2 1/2 ft.
Pinus strobus (White Pine), 3-4 ft.; 4-5 ft. 5-6 ft.; 6-7 ft.
Pinus sylvestris, 2-3 ft. 3-4 ft.; 4-5 ft.
Retinispora plumosa, 2-3 ft.
Retinispora filifera, 3-4 ft.
Thuja Hoveyii, 2 ft.; 3 ft.
Thuja lutea, 3-4 ft.; 4-5 ft.
Thuja occidentalis, 3-4 ft.; 4-5 ft.; 5-6 ft.
Thuja pyramidalis, 3-4 ft.; 4-5 ft.
Thuja Riversii, 4-5 ft.
Thuja Sibirica (Sbeared) 18 in.; 2 ft. 2 1/2 ft.; 3 ft.
Thuja Warreana, 4-5 ft.

TREES, SHRUBS AND ROSES IN GREAT VARIETY

- Berberis Thunbergii, 12-18 in. Per 100 \$4.00 per 100; 18-24 in. \$6.00 per 100; 2 ft. bushy \$10.00
Cornus sericea, 2-3 ft. \$5.00 per 100; 3-4 ft. 6.00
Cornus Sibirica, 2-3 ft. \$6.00 per 100; 3-4 ft. 8.00
Cornus stolonifera, 2-3 ft. \$8.00 per 100; 3-4 ft. 10.00
Privet Iboti, 2-2 1/2 ft. \$6.00 per 100; 2 1/2-3 ft. 8.00
Rosa blanda, 2-3 ft. 10.00
Rosa lucida alba, 18-24 in. Per 100 \$12.00
Rosa setigera, 3-4 ft. \$8.00 per 100; 4-5 ft. 9.00
Spiraea arguta, 2-3 ft. \$8.00 per 100; 3-4 ft. 8.00
Spiraea Douglassii, 2-3 ft. \$6.00 per 100; 3-4 ft. 8.00
Symphoricarpos vulgaris, 2-3 ft. \$5.00 per 100; 3-4 ft. 7.00
Viburnum lentago, 3-4 ft. 15.00
Celastrus scandens, 3-4 ft. 6.00

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- Hardy Asters, 25 named varieties. \$5.00
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Iris Germanica, in variety 6.00
Iris Sibirica alba 5.00
Iris Sibirica 5.00
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Phlox decussata, best named varieties 8.00
Phlox subulata, pink or white 6.00
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Pyrthrums, double named varieties 15.00
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Spiraea palmata alba 5.00
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Vinca minor, strong plants \$30.00 per 1000 4.00
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We grow about 1000 varieties of Herbaceous Perennials.
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The season for planting Roses and Cannas is at hand. Be sure and send for our catalogue to-day. Fine assortment. THE CONARD & JONES COMPANY, WEST GROVE, PA.

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On Best English Manetti Stock 2 1/2 inch pots; A No. 1 Plants
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Own roots, from grafted stock, 2 1/2 inch pots
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3000 2 1/4 in. Richmond Rose Plants
All ready to shift, very fine stock, \$30.00 per 1000.
L. B. Coddington, MURRAY HILL, N. J.
We offer this year the following assortment: Bride, Bridessmaid, Bon Silene, Etolle de France, Franz Desgan, Golden Gate, Ivory, Gen. McArthur, Este Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Mme. Abel Chatenay, Mme. Caroline Testout, Mme. Hoste, Mrs. Pierpont Morgan, Maman Cochet, Marechal Niel, Perle Des Jardins, Paps Gontier, Richmond, Roselind Or English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.
The above grafted from 2 1/4 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/4 inch pots, reotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.
The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.
AMERICAN BEAUTY
On own roots, from 2 1/4 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.
The 1000 rste obtains only when 250 or more of a variety are ordered.
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A. N. PIERSON, Cromwell, Conn.

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HARDY H. P. ROSES

We offer exceptionally strong two-year-old dormant, low-budded stock (no Manetti), in the following varieties:
Alfred Colomb, carmine.
Anna de Diesbach, bright carmine.
Ball of Snow, pure white.
Baron de Bonstetten, dark crimson shaded.
Baroness Rothschild, satiny pink; extra.
Duke of Edinburgh, bright vermilion; very fine.
Fisher Holmes, dark rich scarlet.
Fran Karl Druecki, the finest white in existence, \$12.00 per 100.
General Jacqueminot, rich velvety crimson.
General Washington, beautiful red, shaded carmine.
John Kopper, beautiful rose pink.
Margaret Jackson, white, pale fleab center.
Magna Charta, clear rosy pink.
Mme. Gabriel Luizet, light, satiny pink.
Mme. Plantier, white.
Mrs. John Laing, soft pink; most desirable variety.
Paul Neyron, beautiful dark pink.
Prince Camille de Rohan, velvety crimson.
Ulrich Brunner, cherry red.
Prices on H. P. Roses \$1.25 per 10; \$11.00 per 100; \$100.00 per 1000.
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Maman Cochet, pink. Strong 2-year-old plants, 10 for \$1.50; \$12.00 per 100.
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Good strong two-year-old plants, \$3.00 per 10; \$27.50 per 100.
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Resembles the Crimson Rambler, except in color, which is a lovely shell-pink, bolding a long time without fading. \$1.75 per 10; \$15.00 per 100.

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CROWN AS A STANDARD
The popularity of the Baby Rambler has suggested the growing of it as a tree or standard. The variety is too well known for description; enough to say, it retains all its characteristics of free-blooming qualities, etc., 50c. each; \$5.00 per doz.
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Large heavy plants, two years old, 3 to 5 feet, \$1.75 per 10; \$15.00 per 100. 4 to 6 ft. \$2.00 per 10; \$18.00 per 100.
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Paul's Carmine Filler. One of the most attractive Climbing Roses. Two-year-old, field-grown, \$1.75 per 10; \$15.00 per 100.
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ENGLISH MOSS ROSES
Assorted White, Pink, Red, large dormant plants, from open ground, \$1.50 per 10; \$12.00 per 100.

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- AMPELOPSIS
Ampelopsis Vetchii (Boston Ivy), extra strong imported vines, three-year-old, \$2.00 per doz.; \$15.00 per 100.
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Quinquifolia (American Ivy or Virginia Creeper). Good for covering walls, verandas, or trunks of trees; affords shade quickly, 25c. each; \$2.50 per doz.; \$18.00 per 100.
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Henryi, pure white; extra large.
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Ville de Lyon. The finest of all reds; flowers brilliant carmine red. It is equally as good as Mme. Edouard Andre, but contrary to this one, is a very free-growing variety.
All the above Clematis in extra strong plants, \$3.00 per doz.; \$20.00 per 100.
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Dutchman's Pipe, strong field-grown, \$3.50 per doz.
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Extra strong field-grown plants. Blue, \$3.50 per doz.; \$25.00 per 100. White, \$5.00 per doz.; \$40.00 per 100.
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Extra strong field-grown plants, 5 feet long, many branches.
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Beautiful New Pink Rose "Aurora"
PAUL NIEHOFF, Leighton, Pa.
KAISERIN ROSES
2 1/4 in. pots \$3.50 per 100; \$30.00 per 1000. Variegated Lawson, \$2.50 per 100. Mrs. Lawson, \$1.50 per 100.
E. H. PYE, Upper Nyack, N. Y.
1 year ROSES 2 year
2 1/2 in. ROSES 4 in.
VINCAS, COLEUS and SALVIA.
See our adv. April 13
THE LEEDLE FLORAL COMPANY, SPRINGFIELD-OHIO
When Writing Please Mention THE FLORISTS' EXCHANGE.

LARGEST STOCK IN THE COUNTRY

PRIZE-WINNING ROSES AND GARNATIONS

The New Rose "Morton Grove," winner of the Silver Cup at Chicago Flower Show, 1905, for best new rose, will be disseminated in 1908.

Table with columns: R. C. 2 1/2-in., 2 1/2-in., 3 1/2-in., Per 1000, 100, Per 1000. Rows include Maids, Brides, Uncle John, Chantress, Victory, Cardinal, Red Lawson, Prosperity, Variegated Lawson, Glendale, Craig, American Beauties, May delivery, Bench Plants, Uncle John, Perle, Rosalind Orr English, Kaiserin Augusta Victoria.

CARNATIONS

Table with columns: Rooted Cuttings 2 1/2-in., per 100, per 1000, per 1000. Rows include White Lawson, Gov. Wolcott, Pink Lawson, Enchantress, Victory, Cardinal, Red Lawson, Prosperity, Variegated Lawson, Glendale, Craig.

Ready for shipment, from 2 1/2 in. pots, Pink Lawson, Red Lawson, White Lawson, Variegated Lawson, Glendale, Gov. Wolcott, Cardinal, and Robt. Craig.

VICTORY, the Red Carnation. Specially fine stock, \$6.00, \$50.00 and \$7.00.

CHRYSANTHEMUM CUTTINGS

BEST COMMERCIAL VARIETIES ONLY

Table with columns: WHITE, PINK, YELLOW. Sub-columns: R. C. per 100, 1000, 2 1/2 in. per 100, 1000. Rows include Robinson, Crawford, Eaton, Alice Byron, Touse, J. Nonie, Madam Paul Sahut, Chadwick, Adelia, Intensity, Shrimpton, McNice, Maud Dean, Dr. Euguehard, Perrin, Shaw, New Rosier, Col. Apoleon, Bonnafont, Golden Wedding, Yellow Eaton, Reiman, Halliday, October Sunshine, Chautauqua Gold.

FROM HEALTHY STOCK

POEHLMAN BROS. COMPANY

Morton Grove, Ill.

Look at These Prices!

This Advertisement will not Appear Again

Table listing various plants and their prices. Includes Althaea Double White, Totus Albus, Blanche, Honeysuckle, Halleana, Golden, Chapmani, Tartarian, Forsythia, Deutzia, Orenata, Pride of Rochester, Weigela, Variegated, Lavelet, Eva Rathke, American Ivy, Berberis Thunbergii, Deutzia Gracilis, Lemoinet, Spiraea, Calluna, Revesii, Bunaldi, Superba, Billardi, Aurca, Silk Vine, Clematis, Mock Orange, Jasminum Nudiflorum, Persian Lilac, Tamarix Africana, Snow Ball, Elaeagnus, Clematis Ppaniculata, Rose Pride of Washington.

ROSES

Headquarters for Walsh's LADY GAY, field grown, two and three year old.

Grand stock Walsh's HIAWATHA, dormant plants, twelve to eighteen inch shoots, wintered in cold frame, perfectly rosy, and grand forcing roses for Florists' use.

WRITE FOR PRICES.

M. H. WALSH, Rose Grower, Woods Hole, Mass.

ROSES Mrs. Mason, Magna Charta, Vick's Caprice, Olio, Planter, P. Neyron, Blanca Victoria, \$10 00 per 100. Dorothy Perkins, 80, Crimson Rambler, Climbing Malmaison, James Sprunt, Climbing General Jack, 70.

MOUSSELLINE, James Veitch, Glory of Mossea, Princess M. Adelaide, Fieble d'Or, Perle d'Or, Monnente, Geo. Perret, Petite Louis, Empress of China, June Belle, Manda's Triumph, Universal Favorite, white, P. Nk, Yellow and Golden Rambler, Seven Sisters 80.

CARNATIONS 2 1/2 in. pots, Enchantress, White Lawson, Candace, at \$3.60 per 100 pink Lawson, The Queen Boston Market, Fair Maid, Queen Louise, Gov. Wolcott Prosperity, Richmond, Gem Orange, Moonlight Mrs. Patten, Harlowarden, at \$3.00 per 100; \$25.00 per 1000. 3 in. \$4.00 4 in. at \$8.00. CANNAS Alternantheras, Colens, \$2.00 per 100. Duetty Miller, single Petunias, English and German Ivy, Geraniums, at \$2.60 per 100; 3 in. Vinca, variegated, 4c. to 6c.; 3 in. Asparagus Sprengeri, at 4c. 4 in. at 8c.

NATIONAL PLANT CO. Dayton, O.

ROSES ON OWN ROOTS 2 YEARS.

Crimson Ramblers, extra strong, at \$7.00 per 100. Dorothy Perkins, Pink, White and Yellow Ramblers, etc., at \$5.00 per 100. H. P. Roses and Baby Ramblers, at \$8.00 per 100. GILBERT COSTICH, ROCHESTER, N. Y.

2000 CRIMSON RAMBLER

2 year, strong own roots. Pot now for Fall forcing, \$8.00 per 100.

BATTLE CREEK NURSERY CO. BATTLE CREEK, MICH.

THE WEEK'S WORK.

Timme's Timely Teachings.

Dahlias.

The trade in potted and well started plants of the better kinds of dahlias has shown a steady growth in the last half dozen years and is now of sufficient importance to justify particular attention when preparing for the coming Spring business in plants. As a cut flower for the general market the dahlia has been somewhat slower in coming to the front than was confidently predicted some years ago, all owing probably to our peculiar climatic conditions which render worthless, or at least unprofitable, many of the kinds so highly recommended as eminently suitable for cutting by European growers. In carefully conducted trials of some of the much lauded old and newer varieties it has been found that but few possess the requisite qualities which make them desirable stock for cut flower production. A variety worthy of being extensively raised for that purpose must be highly prolific, must bring faultless flowers from early until late in the season, and the blooms, after being cut, should last in good condition for four or five days at least. Any variety of whatever class lacking these attributes cannot profitably be grown for its flowers in a cut state by the commercial florist, though it may be an excellent kind for the home garden of his customer.

I have given much attention to dahlias of all the various types since their reinstatement to public favor, but owing to scarcity of garden space could only try a limited number of the newer kinds every year. Of the varieties thus grown in a small way, those of the decorative section proved most valuable; next to these the single sorts and least satisfactory were those of the cactus type. Most of the latter, although faultless in

form, lacked depth or purity in color, and those not having this defect were usually shy in production. However, a few proved remarkably good with me and in my soil, which is a black, heavy loam. Their flowers, though not over abundantly produced, take well and last a considerable length of time. They are: Britannia, salmon; Ringdove, pink; Mary Service, variegated rose and orange; Flamingo, best scarlet; Countess of Lonsdale, shaded pink, the most floriferous; Island Queen, lavender; Jealousy, yellow; Gabriel, the colors varying greatly in fine bleedings on white ground; and Mr. Moore, deep crimson. I failed to find among this section, the cactus dahlias, a perfect pure white.

The following varieties were fine decorative dahlias as grown on my place: Henry Patrick, clear white and a good keeper; Mrs. Basham, rose variegation on yellow ground, fine but a little shy; Mrs. Roosevelt, rose, very large bloom; Lucy Fawcett, variegated on yellow ground; Perle, a fine white, not very large; Black Beauty, dark maroon; Penelope, white, blotched and edged with light pink; John Walker, fine white, but not a good keeping sort; and Clifford Bruton, clear yellow.

Of all the dahlias the single flowered sorts are the most productive and any variety of good color and long keeping quality is a good market kind and a profitable thing to grow. But good keepers among singles are extremely scarce. Here are a few of the named single varieties well worth growing for their flowers: Scarlet Century, red; Gracie, variegated in light, delicate shades, better than Twentieth Century; Lustre, pink; Wildfire, scarlet; Alha Superba, pure white, long lasting; St. George, yellow, and Snow Queen, a fine white but a trifle shy. In addition to these I have three good singles, selected from a large number of seedlings, all of them good keepers, which, indeed, must be the first desideratum in choosing dahlias for cutting.

Careful selection of varieties from any of the various types and proper cultivation are necessary in an attempt to make dahlia flowers one of the foremost items handled in our markets during Midsummer and early Autumn. When this is accomplished it will be found that dahlias are the best paying of Summer outdoor crops. An increase in the demand and sales is noticeable from year to year. Last season all flowers of pleasing color, good form and known to be lasting for a reasonable length of time met with ready sales over the commission man's counter, bringing a prices satisfactory to grower and buyer.

The Culture of Dahlias.

The starting of dahlia roots, their care and after treatment in the field are most simple in their every detail. Many growers still cling to the oldtime meth-

ROSES. We have in stock upward of 1000 different varieties, consisting of the very latest European varieties, as well as all the leading varieties of American origin. Forcing varieties, including Killarney, a specialty. Stock from 2 1/2, 3, and 4 and 5 in. pots, all on own roots. Ask for catalogue.

CANNAS. 40 leading varieties. Write for list and prices. Louisiana Cannas, 8c. Mont Blanc, 8c.

MISCELLANEOUS PLANTS of all kinds, including Violets, Ferns, Geraniums, Asparagus Sprengeri and Plumosas, Dahlias, Cissus Discolor, Pot Hydrangeas, etc. in large supply. Send us your list for prices. Ask for catalogue. It's free.

THE DINGEE AND CONARD CO., WEST GROVE, PA.

ROSES AND CARNATIONS. Liberty Rose Plants, 2 year old, own roots, \$3.50 per 100. Killarney Rose Plants, one year old, own roots, \$3.50 per 100. Brides, 3 in. pots, own roots \$3.50 per 100. Wesley, 3 in. pots, own roots, \$3.50 per 100. Carnation Cuttings from soil: Leat, Perry \$2.00 per 100. Mrs. Patten, \$3.00 per 100. Mrs. Thos. W. Lawson, \$2.50 per 100. All clean, healthy stock. Cash with order.

A. L. THORNE, Flushing, L. I.

PLANT CULTURE

Price, - - - \$1.00. A. T. De La Mare Ptg. & Pub. Co.

GRAFTED ROSES

Brides and Bridesmaids. EDW. J. TAYLOR Southport, Conn.

ROSES

Table with columns: READY FOR SHIPMENT, strong, well rooted stock - Cash with order, R. C. Par 100, 1000, 2 1/2 in. pots, Per 100, Per 1000. Rows include American Beauty, Richmond, Bride, Bridesmaid, Alfred P. Smith, Madison, N. J.

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ad of planting the divided portions of the root clump at once in the field at a time when all danger of seeing the rapidly pushing shoots nipped by belated frosts is past. This is the least expensive way of making a start, much practiced by amateur gardeners and often resulting in a superb lot of dahlias. In following this course it is best either to plant pieces showing but one starting shoot or to remove all but one of the strongest after they have pushed their way above ground. One single shoot will make a better plant than several—a rule that holds good with whatever kind of dahlia one may grow. The distance between plants in the field depends somewhat on the variety grown, but three feet in the row and the rows at least four feet apart is not wasting any space when it comes to picking of flowers. Ground, manured heavily and grown to some other crop the year previous, is good for dahlias but should be freely exposed to air and sunshine. Subsequent cultivation merely amounts to staking and tying up in the case of some varieties, in shallow hoeing to keep the weeds down and in thorough and frequent watering in dry seasons. Flowers are cut as soon as fully open, placed in fresh water for a night and sent to market the following morning.

Starting Dahlias Indoors.

For the sake of economy, if stock is limited, it is best to divide dahlia roots in the Spring after the eyes have started, so as to make as many divisions as there are plump, promising eyes or well advanced shoots. These appear at the crown or wood-like stump of the old stem and are not always proportioned in number to the number of adhering tubers as is often supposed. Merely tearing the tubers apart, as I have seen done, is not the proper way of dividing dahlia roots, unless the grower has more of a kind than he knows what to do with. A strong knife, even a hatchet at times, and great care are necessary in effecting the right kind of divisions through the hard crown of the old clump. Every piece should show at least one strong, fairly well advanced shoot, connected with one or several tubers by a neck or thin elongation of the tuber, differing in length and strength as to variety and last season's mode of culture.

Dahlia roots, still dormant, may first be started into growth in some good soil in boxes or in a bench before being divided, or the divisions could thus be started in moderate heat and be potted up as the shoots appear, if potted plants are wanted for the Spring trade. It is now time to start dahlias for that purpose.

Dahlias from Cuttings.

Where large numbers and many varieties of the best dahlias are grown and handled in shipment during the busy season of plant traffic, propagation by rooting cuttings is the most satisfactory course to pursue. The plants so obtained, if not better as some claim, are fully as good as sprouted divisions, take less room, are less cumbersome and not so easily damaged in handling, and in the increase of high priced or rare varieties this is the process which results in the greatest number of good plants. For the retail plant trade, demanding nowadays a well-assorted supply of pot grown and finely started dahlias, the plant raised from a cutting with a firm ball of roots is the proper thing to offer and presents quite a different appearance from the started and usually overgrown tuber, squeezed into a pot never having the required depth.

To obtain good cuttings for successive propagation during the greater part of early Spring it is necessary to plant the tubers and start them into growth in a good, well-enriched kind of soil, choosing for the purpose a well-lighted bench in the warmest of carnation houses. Ordinary sorts of the common run of oldtime dahlias should not be bothered with in this manner; they should be discarded for newer sorts without loss of time. In taking cuttings of these newer dahlias, however, some good judgment must be exercised in order to avoid loss and disappointment. While cuttings of some sorts may be taken off and successfully rooted when but an inch high, others must be allowed to attain a proper degree of firmness and a height of from three to four inches to be in fit condition for the sand bed. The lower leaves are trimmed in and the cutting prepared as is done with other cuttings of like nature, and dahlia cuttings, no

more than these, should ever be suffered to wilt either before or after being put in the sand.

A temperature of from 50 to 55 degrees in the house, with a few degrees higher in the sand, is high enough for any variety of dahlia cuttings. While, of course, the sand should never become really dry, a moderate degree of congenial moisture is more likely to promote rapid root formation and to ward off destructive decay than a continual water-soaked condition. But frequent sprinkling on very bright days is necessary, and if this is attended to rightly shading will hardly be needful. And, again, dahlia cuttings, like those of most other kinds of stock, should be potted up as soon as the first rudimental fibers assure future progress in growth, or at least before the roots have grown to any considerable length. Rooted dahlia cuttings allowed to remain in the sand too long will never amount to anything surprisingly fine.

Most varieties of dahlias, when once established in pots, are wonderfully rapid in their growth and if started too early will need a repotting before the planting or the selling season begins, which, in most cases, amounts to a considerable loss in their value for outdoor planting and, of course, also means quite a lessening in profits considering the extra labor and room required in their repotting at the busiest time of the season. An abundance of light and fresh air, more than excessive moisture at the roots, prevents any lankiness of growth, keeps the plants stocky and in marketable shape for a considerable length of time and should be relied upon as the only means of keeping young dahlia stock in proper condition for future shipment, for which purpose a solid ball of roots is desirable.

Seedling Dahlias.

It is now time to sow dahlia seeds, of which strains of nearly all the leading types can be obtained. Seeds of dahlias sprout quickly and rapidly grow into sturdy plants, requiring well-timed attention as to potting and shifting. All the single flowering kinds, of which there are several fine strains to be had, if sown now will soon grow into flowering size and yield an abundant crop of blooms throughout Summer and Fall, while the double flowering varieties are slower in maturing flowering growth and usually amount to little before Autumn.

But in raising dahlias from seeds it must not be expected that they come as near true as to color, variety or even type as do most other things so raised. The seedlings vary greatly in all respects, but a small percentage of the named and double varieties showing up as such when coming into bloom. But while this may prove a disappointing outcome to the ever-expectant or inexperienced grower, it greatly heightens the interest and pleasure to be extracted from exploits of this kind. Few plants among any batch of dahlia seedlings are utterly worthless, most of them excellent stock for carrying along from season to season for a diversified demand in plants at home, and occasionally a truly magnificent one is discovered in a field of seedling dahlias.

All seedlings started now will attain full size by next Fall, and in digging tubers will be turned into view. The better plants should have been marked while in bloom and before the first frosts blot out all distinguishing features, so that none but those having shown real merit need be saved. But nearly every seedling dahlia will furnish good flowers for home use the first season.

FRED W. TIMME.

CYCLAMEN GIGANTEUM

Twice transplanted, in fine growing condition; four leading colors, ready for 3 in., \$4.00 per 100; \$35.00 per 1000. Ready for 2½ in., \$3.00 per 100; \$25.00 per 1000.

Asparagus Plumosus Nanus, strong, transplanted, \$2.00 per 100.

G. A. THIELE, Frankford, Philadelphia, Pa.

ASPARAGUS

Robustus, similar to Plumosus but better for pots, pans, and vases; extra fine stock ready for 4-inch pots at \$6.00 per 100, Sample for ten cents.

Success with House Plants

BY LIZZIE PAGE HILLHOUSE.

A complete text-book and guide to the care, cultivation and propagation of all plants in the garden and the home.

The volume is written by a woman for women, in plain, concise language, easily understood, and the book has the special merit of giving directions which can be readily followed, the methods prescribed being of the simplest, and the material suggested to be used easily within reach of all.

12mo., 232 pp.; profusely illustrated, with complete and ready reference index to all plants enumerated. Price, Cloth, \$1.00; Paper, 50 cents.

To Retail Florists. The old thought, that it was dangerous for a customer to know much about the care of plants, has passed away, being superseded by the newer and more intelligent one, viz.: that the more successful a customer is with plants, the greater quantity will he or she buy.

We offer Special Inducements to all who wish to handle this book. It is a good seller.

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- ROSES—Strong young plants of Clotilde Soupert, Champion Climbing Soupart, Empress China, Golden Gate, Gruss An Teplitz, Meteor-Mosella, Papa Gontier, Safrano, \$3.00 per 100, \$25.00 per 1000.
- CARNATIONS—Fair Maid, Mrs. Lawson, The Queen, Queen Louise, Boston Market, from flats of soil, \$2.50 per 100.

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- Verbena Cuttings, our selection 75c. per 100; \$6.00 per 1000
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CARNATIONS, Choice Rooted Cuttings, Free from Disease

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CRAFTED ROSES, the Finest and Best Grown

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ROSES, Own Roots

- Bride, Bridesmaid, Perla 3 in. pots, \$7.00 per 100
- La France, American Beauty 3 in. pots, \$9.00 per 100
- 100 Ivory, 100 Wootton, 100 Bon Silene, 100 Mator, 100 Marchal Neil, 300 Liberty in 3 in. pots which we offer at \$5.00 per 100. Good stock.
- 200 Golden Gate, 200 Killarney in 3 in. pots at \$7.00 per 100

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- 10 Varieties, 3x8½ pots, my selection 100 \$6.00
- Rose Geraniums, 2x2½ pots 2 50
- Alternantheras, red and yellow 2 00
- Asparagus Plumosus, 2½ pots 2 00
- " " Seedlings, May 15... 1 25

CASH

COLEUS

- 10 Varieties, 2x2½ pots 100 \$2.00
- 10 Varieties Cannas, from pots, May 1 5 00
- Vinca Variegated, 2½ pots 3 00
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- Asp. Plumosus Seed, New Crop, per 1000, \$3.00

JOS. H. CUNNINGHAM, Delaware, O.

ASPARAGUS

Robustus, similar to Plumosus but better for pots, pans, and vases; extra fine stock ready for 4-inch pots at \$6.00 per 100, Sample for ten cents.

CARNATIONS

Ready April 29th. Queen at \$10.00 per 1000. Nelson Fisher at \$12.50 per 1000. Cuttings from sand.

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Rooted cuttings only, ready May 6th, at the uniform price of \$10.00 per 1000. Nutt, Perkins, Buchner, Castellano, Francis, Vloud, Poltevine, Jaulin, and Ricard.

ALBERT M. HERR, Lancaster, Pa.

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FOUNDED IN 1884



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Seedsman and the Trade in General

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

PAMPHLETS RECEIVED.

BULLETIN OF THE AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS. Issued by the Association.

As usual, this bulletin is replete with information of the most practical and serviceable nature. The subjects treated upon include "The Water Garden," in which the construction of ponds, treatment of surroundings, plants to use, etc., are dealt with. Professor Cowell says: "Several low forms of plants—algæ and fungi—may be kept in check by copper solutions. We have used these for years and with uniform success. Some foliage is easily burned and lime may be added to the copper when spraying. Arsenite of lead is a good insecticide to use for the chewing pests that occasionally infest the plants. Aphids are quite troublesome at times and may be combated with tobacco dust and soap and kerosene emulsions. In our Victoria tanks we throw in sulphate of copper soon after planting, and have no trouble with algæ. I do not think we use more than an ounce of the crystals to 1000 gallons of water. If the algæ are allowed to start, however, it takes a stronger dose."

"The Herbaceous Garden" is also discussed, as well as "Bulbs." Some helpful information is given regarding the carrying over of bulbs, their use after having been forced and such like. Theodore Wirth suggests that tulips and other bedding bulbs, two or three or even more years old, not considered fit for bedding purposes, may be planted about eight inches deep along the edge of shrubberies, where they make an extremely pretty effect in the early Spring, especially where they are planted along dwarf shrubbery, so that the flowers when they are out will show through branchlets and possibly through very early foliage. It does not take long to plant these bulbs in the Fall, and they do not need to be disturbed thereafter. When spading that shrubbery a little bit of care can be taken not to spade deep.

"Playground Management," and "Cement Concrete Construction" form the remaining subjects treated upon in the bulletin.

It is a pleasure to observe the ready manner in which these park men, through the means of their bulletin, give freely of their practical experience for mutual benefit—a condition which makes that publication of the greatest service and utility to those concerned.

Notice to Our Canadian Readers.

An agreement between the United States Post Office Department and that of the Dominion of Canada, concluded April 1, 1907, amends Section "C" of Article 1 of the Postal Convention of January, 1888, now in force between the United States and Canada.

Under this new agreement, and commencing on the 8th day of May, 1907, the publishers of The Florists' Exchange will be compelled to pay postage on papers mailed to our Canadian subscribers at the rate of one cent for each four ounces, or fraction thereof, and to prepay same by means of postage stamps affixed.

Very unwillingly, and solely because of this new regulation, which will compel us to pay an average of two cents a copy, we have to announce that on and after May 8, 1907, our annual subscription rate to patrons within the Dominion of Canada will be increased from \$1.00 to \$2.00, until further notice, payable in advance.

The Florists' Exchange has been mailed to its Canadian subscribers all these years at the same postage rate and under the same privileges as it has been mailed to United States subscribers; namely, in bulk, at one cent a pound, under the provisions governing second-class matter; it will thus be seen that the amount of postage on each number issued was nominal.

The interest taken in The Florists' Exchange in the Dominion has always been very satisfactory to the publishers, and we regret much this backward step, for retrogression it must surely be called, when governments rescind long-standing privileges associated with mediums of an educational and trade nature, which lead to the development of a better understanding between peoples and the commercial advantages that go with it.

An Experiment Station in the Nursery Business.

A "Press Bulletin," issued by the Vermont Experiment Station at Burlington, announces that "the last legislature passed an important act establishing at the Vermont Agricultural Experiment Station a State Nursery for growing forest tree seedlings. The law specifies that these are to be furnished at cost for planting in the State."

The bulletin then goes on to describe the profits in tree culture; and announces the price at which the station will sell seedling trees for planting this Spring. It is also stated that the N. Y. State Forester, C. H. Pettis, is to act as consulting forester for the Vermont Station, and that the New York Forest Commission has given the Vermont State Nursery a "considerable number of 2-year-old white pine seedlings and offered to furnish an additional supply upon order through the Vermont Nursery at cost of growing and packing. As a result it will be possible for the State Nursery to take orders as long as this quantity permits, for delivery between May 1 and May 15 at \$2.50 per thousand plants for small orders and somewhat less for large ones. Since this is less than half the nurseryman's usual price, it behooves those who wish them to order promptly. May is the best month for planting and all orders should be in by May 1. It is not probable that as low prices can be quoted again until 1909 since it requires two years from seeding to grow the crop."

It would be difficult to conceive of a greater injustice to the nursery trade than the inauguration of this State nursery by the Vermont legislature, and the open announcement of the selling of stock by it to buyers at "less than half the nurseryman's usual price," particularly as the ultimate aim in planting these trees is the "bringing of a larger return for the investment than any other crop."

We do not believe that the farseeing and progressive men who planned the institution of State Experiment Stations ever desired or intended that they should become commercial ventures of any nature whatsoever. Such a step at once renders them a menace to legitimate business rather than an aid which latter assuredly is their proper mission.

The reforestation of depleted woodland tracts is, all will agree, a most commendable and necessary work, but it affords no good or sufficient reason for depriving the nurserymen of the share of trade which should be theirs in the accomplishment of that operation, especially when it is remembered that the denuded condition of our forest lands has been largely, if not wholly, brought about for gain; to say nothing of the injustice of taxing nurseries to maintain institutions that will act as competing factors in their business.

There is no telling where unjust competition of the character referred to will end, and nurserymen generally should register a vigorous protest against it, as being in direct opposition to the aims and purposes of a State Experiment Station, the province of which is to "make experiments," and not to act as competitors of any industry promoting the interests of those whom these institutions are designed to serve and assist in their own legitimate and proper way.

OUR READERS' VIEWS

Azalea Julius Roehrs.

Editor Florists' Exchange:

I read in your valued paper, page 517, a report referring to our Azalea var. Julius Roehrs. Kindly note that this variety was raised by Sander of Bruges, Belgium, and dedicated to our Mr. Roehrs, Sr. It is one of the finest, if not the finest, red pink azaleas introduced in the past years and no doubt will prove to be of great commercial value. In color it beats "Madame Vander Cruyssen all hollow," as the Eastern gardeners stated to me, "strong vigorous double flower and grower, and is a splendid forcer and even grower."

It will be put on the market in the Fall of 1907.

JULIUS ROEHR'S COMPANY,
Thomas Knight.

Steam Boiler Legislation and Other Heating Matters.

Editor Florists' Exchange:

Referring to the recent discussion on steam boiler legislation at the meetings of the Gardeners and Florists' Club of Boston and to the report of Mr. Palmer as chairman of the committee which attended the hearing at the State House, I wish to say that I also attended that meeting and as far as I could learn it was simply a dispute between the engineers and boiler makers as to who should have the right of inspecting the boilers in the State. After an experience of fourteen years throughout the United States erecting greenhouse boilers, I would say that the skilled mechanic should have the preference over all others.

I have set up hundreds of boilers in greenhouses, among them tubular boilers that the Hartford Insurance Company had cut the pressure on. These boilers have been running under a pressure of from 15 to 30 pounds for ten years or more and I find the plate in the boiler just as good to-day as when it left the shops.

In regard to licensed firemen, I would rather have a good upright and honest greenhouse man who has had experience with fires than a number of the licensed firemen of to-day, for I know of a case that came under my notice where a licensed fireman was the cause of almost freezing an entire greenhouse.

Hot Water Boilers for Greenhouse Heating.

During my experience in greenhouse heating I have set up a great many different styles of boilers, among them horizontal tubular, upright tubular, locknut-nipple, push nipple, and portable upright cast iron boilers. The tubular makes a very good boiler for heating purposes when properly taken care of. All the water should be run off and the boiler thoroughly cleaned once a year, when boiler and system should be refilled and left so until it is required for use again. All boilers should be properly valved on supply and return.

The cast iron boiler should be blown off by steam so as to clean out the boiler thoroughly. A great many boilers are found fault with as not giving satisfactory results, but if you look into the manner these boilers are run you will find the fault is not with the boiler, in a great many cases, but with the one who has charge of it.

In regard to push nipple boilers, I would say they are just as good for heating purposes as any cast iron boiler, but they are not quite so safe as the locknut-nipple boiler. If any part of a push nipple boiler needs repairing you have to take the whole boiler apart, whereas with the locknut-nipple boiler, if a part or section gives out you can take a three wheel pipe cutter and cut the connection to the damaged section, plug up same and your boiler is ready for work again.

All hot water boilers should be thoroughly cleaned every other year. A very good way to do this would be to close the main supply and return valves to the boiler, put on water gauge so placed that gauge cock will show water in boiler when it reaches to within three inches of top, start a wood fire in the boiler and when you have from ten to thirty pounds of steam draw the fire and blow off the boiler. This will carry off all sediment in the boiler. I would say, too, that there should be a safety valve on the boiler when blown off by steam.

Steam boilers should be blown off at least twice a year.

In heating greenhouses by hot water, it is necessary to use circulating pumps in order to get a rapid circulation. A cheaper, better and simpler method is the heat generator, which will give an increase of five to ten pounds pressure without any danger attached and makes a rapid circulation when the pipes are properly laid in the greenhouse. The generator is connected to the pipe of the expansion tank of the open kind and is a very simple device, operating by mercury. I find that the more simple the system, the better the results obtained.

Boston, Mass.

DANIEL ILIFFE.

"New Creations."

Editor Florists' Exchange:

Under the above heading much has been written within the past year, much more can be written without solving the problem or query. "What is a New Creation?" or through what agency new forms are developed. Lather Burbank has been charged with all manner of assumptions regarding the new types of vegetables, fruits and flowers which he claims to be the results of the labors of his own hands guided by his intelligence regarding plant life, its nature, variety and phenomena. That he has assumed the powers of a creator through whom development is the result of the power, "to will or to do," is making a charge which his own assertions would scarcely warrant anyone in stating.

What has been said regarding Mr. Burbank's wonderful work is, undoubtedly, in strange contrast with what he has actually accomplished which might well be and then have much to his credit. He is a close observer, an indefatigable worker, a man of keen perceptions and an ardent lover of nature. Such men are ever on the alert for the beautiful and the useful, that the casual observer would pass by unnoticed. His individuality, the most prominent feature of his organization, united with keen and active perceptive faculties, has given him a power of selection, which, in a climate where the development of all vegetable forms is extreme, has enabled him to do what he could not have done without the natural advantages due to environment. He is credited with work he has never performed, and with scientific knowledge he would never assert; more than that, he is credited with the production of vegetable wonders that some of our most careful observers have failed to discover in his gardens. That may or may not be charged to a disposition to over-estimate on his part the work of his own hands directed by a knowledge not possessed by others. Should that be the case, there is to his credit the vast amount of good he has done by interesting and encouraging others to work along the same lines of usefulness.

This brings us to the vital essence of the subject under consideration, viz: How are new varieties produced? Upon this subject there is a wide difference of opinion. As a rule, the hybridist gets credit for all, or nearly all, of the "new varieties" of fruits, vegetables and flowers no less than for the development of types. Than this there can be no greater mistake, neither one more generally believed. Much credit is due this class of workers—not for what they have accomplished, but for their persistent efforts to do something.

The active principle of creation is reproduction, it is also the vital principle. Strictly speaking a hybrid form is non-productive, that is seedless. Such a form would be of no use to the seedsman, yet their catalogues abound with various hybrids when none exist. At this point it is both safe and just to say that no hybridist ever made a cross between so-called species, or well defined varieties, in order to get a certain result, that ever accomplished his purpose. It is true that through cross-fertilization the good qualities of two varieties may be united in the one. That is a vigorous plant of great productiveness, but of a poor quality, may through crossing with a feeble growing variety of the same species, produce a plant possessing the good qualities of both. But that is not a hybrid, unless there is a new definition of the term hybrid, and what is generally called a hybrid is simply a cross between varieties with marked characteristics due to environment.

Some very useful forms have been produced through the agency of cross-fertilization; no one can dispute that fact, no one is inclined to. Every one interested in plant life greets with gladness any improvement in fruit, vegetable or flower, without the slightest regard to the methods employed to produce the results. There is however a principle underlying this fact but little known or appreciated; it is fundamental, the cornerstone upon which plant growth builds its many beautiful superstructures.

When a cross has been secured between two well-marked varieties (usually termed species) the work of the plant breeder is but fairly commenced. If the cross has been satisfactory, selection is the first step to be taken, and upon its development depends success or failure. All depends upon the keen, active perception of the horticulturist, and his industry in its application and environment. Both are essential, both necessary for success. What Mr. Burbank has done along the line of improvement in vegetable forms, neither he nor any other man could do without the assistance of nature's full and willing hand with which she has scattered her gifts more freely on the Pacific coast than in any other part of the globe. In that clime all the plant asks for is an opportunity, and it will develop the full limit of its usefulness. Man does not cannot have creative powers; his gifts and abilities come from his powers of observation and the intensity with which they are applied. Be-

cause of these gifts kindly assisted by environment Mr. Burbank has, by indomitable industry and perseverance, done that which entitles him to great credit. Having employed his eyes to the limit of their power, with results following, he has observation upon his crest and shield.

Other men have achieved greatness along the same lines. We will note a single instance. The late Mr. Livingston, the well-known tomato specialist, was a man gifted with the same powers of observation which he employed to the fullest extent in the development of his favorite industry. In answer to my interrogation, as to how much he was indebted to cross-fertilization for his success in the development of types or varieties of the tomato, his answer was prompt, plain and practical: "Nothing at all. From the setting of the plant to the perfection of its fruit the field is my study. Not a day passes, (weather permitting) that I am not in the field, noting the variations that are constantly presenting themselves. By these means I have been able to select all the valuable types I have sent out."

It is to such men we are indebted for all or nearly all our new varieties of fruits, vegetables, and flowering plants.

There is, however, an agency in plant development that must not be overlooked, a vital principle but little understood or appreciated; viz, changes through environment. A notable instance is the dwarf lima bean. How and whence did these valuable types come? Certainly not through man's agency, but through their own volition. I am in the most perfect and happy accord with Ernest Hecke's theory regarding the "soul cell" in plants that there are in each, and were when the plant was but an invisible cell, the possibilities of its highest development, also a consciousness of its duty to develop in harmony with other creations.

In South America its native habitat, the lima bean is a herbaceous perennial, a most rampant grower, midway between a climber and a twiner, and, having fully nine months to perfect its fruit, it can ramble at leisure, producing its seeds sparingly for several months previous to its season of rest. When the Spring time of plant life comes, as it does everywhere, from the crown of its immense fleshy tubers, some of which weigh nearly fifty pounds there shoot forth numerous tender stems, not unlike those of the perennial ipomoeas, which make a rapid growth twining over other vegetable forms, until it becomes an impenetrable mass.

Note the change. The plant's consciousness of its place in the economy of nature, that its mission is to adapt itself to the necessities of other forms of life, and, as reproduction is the active vital principle of life, when removed from its native habitat and grown under changed conditions of climate, it immediately adapts itself to its environments. If the season of growth of its adopted home is shortened its growth is more rapid, its vines are proportionately shortened, at the same time more vigorous. The further removed from its Southern home the more rapid its growth, and the more dwarf its habit until it reaches the limit of time it has for reproduction. The result is that in its Northern home it produces as much seed on a plant not more than 18 inches high, and, in a period of four months, as it does in its native habitat, in twice that time.

These changes are constantly going on with all plants and under every condition of growth. These changes in plant forms are simply the results of the soul of matter in operation along the line of adaptation to the necessities of other creations. Each form is a part of the great principle we call life; it is but a part, as no one form is an independent creation, but an item in the world of life.

Man's place in nature is to develop to the greatest extent the possibilities of every creation, which he can do through observation and applied industry. Floral Park, N. Y. C. L. ALLEN.

Birnie's Interpretations.

Editor Florists' Exchange:

Job, with characteristic stupidity, has utterly failed to interpret "F. D.'s" letter correctly, and Jemima's "usual intuition" is on a par with the old gentleman's stupidity—a stupidity which seems to run in the "blood" of whatever "brand" it may be. "F. D." has evidently had a little education, which may account for the difficulty both Job and Jemima find in understanding the letter. The letter, however, is quite plain and easily understood, and is not a criticism, as Job seems to think. It is an expression of "gratitude" and gives Job "credit" and praise for his apt use of "unadulterated billingsgate" and "borrowed epithets," and advises him to persevere and improve himself along these lines for the special benefit of those who like it and those who don't, as well as to further "the interests of Job himself." The last part of "F. D.'s" letter is just as plain as the first. When he reached the other name mentioned, he was so overcome with the ecstasy of delight, appreciation and admiration, that words failed him, and the "thought" died aborning! Such a calamity is to be deplored; the conception of a stillborn "thought"

must be discouraging in the extreme. I am inclined to believe that jealousy induced Job to suggest the transposing of "F. D.'s" initials. That either of the gentlemen will ever "create" a brainston is highly improbable, material being evidently in scant supply; the usual periodical attack of circular insanity is the only thing that is likely to trouble them.

I see it asserted in one of your contemporaries that Job's picture is in that Washington rose convention group, but upon close scrutiny I fail to find it. As I remember Job's picture, as published by you some years ago, he is neither handsome of feature nor graceful of figure. No one would be likely to be struck speechless by his beauty; his physiognomy (to put it mildly) would be conspicuous by its plainness in a picture like the one referred to, when all the faces (including Guttman's) are passably good-looking and intelligent. In fact, I am of opinion that Job's "looks" would militate against his admission into the White House. That George Watson should make such a mistake is remarkable, but mistakes will happen in the best regulated families. Watson's picture is all right, looks just like him; looks to me as if he was just about to step out, and in his own genial way pass the same remark to me as the Governor of North Carolina passed to the Governor of South Carolina, and I don't suppose there would be much argument about the matter. That Jersey coterie near the northeast corner, where the jovial features of Schultz and Boehler are prominent, gives tone and foreshadow to the picture.

It seems to me, Mr. Editor, that Job, like some others, is forgetting to use quotation marks when he quotes. That little paragraph "see through a glass darkly" sounds familiar to me. I have heard it asserted by those who ought to know, that if one looks through certain kinds of glasses often enough he is likely to see anything, and from Job's aptitude at relating such stories as that about the "wayfarer," the "hobby" and the "cab," the idea suggests itself that Job may be speaking from experience.

I gather from your Lancaster news notes that the Pennsylvania geranium growers are still experimenting with geraniums in the same crude, old-fashioned manner.

JOHN BIRNIE.

Sweet Pea Sports.

Editor Florists' Exchange:

Noticing in your issue of April 6 an article written by Ant. C. Zvolanek of Bound Brook, N. J., being a reply to Mr. Englemann of England, in which Mr. Zvolanek states that sweet peas do not sport, I wish to make it plain that my experience has been that sweet peas do sport, and any person wishing to be convinced that my statement is correct is welcome to visit me at any time and see at least four distinct sports in bloom at the present time. In connection with this I have written Mr. Zvolanek inviting him to visit me and see these peas growing.

Regarding the sports in question, during the Winter of 1903-04 in the month of December I noticed in a bed of peas, variety Earliest of All, three vines producing flowers of distinct color. Number 1, a white, resembling Mont Blanc only being larger in size, the seed at maturity being black.

Number 2, flesh-colored pink, resembling very closely Katherine Tracy in color; was lost Autumn of 1906.

Number 3, a scarlet identical with Mars in color.

Number 4, an early sport of Lady Grisel Hamilton, found growing in a bed planted to that variety Winter of 1905-06, being identical in color with the parent.

Number 5, a sport of Countess of Radnor, being noticed this present Winter and now growing and blooming in a bed of the regular late flowering strain. Seed was purchased of Henry A. Dreer, Inc.

I had the pleasure of visiting Mr. Zvolanek's place in December, 1905, and again in March, 1906, and was treated with much courtesy. I was impressed with the number of colors he has produced of the Winter-flowering strains of sweet peas. My motive is not to underrate what he has accomplished, but simply to establish beyond question the fact that sweet peas do sport, therefore, I make the foregoing comment.

While at his place I failed to notice either a lavender, pink, or scarlet that will compare in color with the sports herein mentioned. Another and indisputable fact is that no seed grown by Mr. Zvolanek was planted on this place prior to July 15, 1906, which, therefore, precludes the slightest possibility of the vines in question being produced from stray seed of his strain.

All of which summed up proves most conclusively that sweet peas do sport, from the fact that we have sports growing, and have made no effort to produce them.

Ronsk, Pa.

CHARLES M. WEAVER.

Bulbs.

Read by Paul Richter of Henry F. Michell Company before the Philadelphia Florists' Club at its April, 1907, meeting.

Several months ago one of your enthusiastic members asked me if I would not give a talk on something that would interest the florists at this meeting. I gave the matter some little thought, and decided that a talk pertaining to bulbs would be about the proper thing, especially at this season of the year, when all of you will remember the different successes and failures that you have had with your bulbous stock.

I am speaking now largely from the experience of the seedman, which, as you probably know, is more or less theory. However, we come in contact with so many different florists, who all grow different things and have different ideas, that by careful observation, correspondence and in other ways, we gradually learn the many different ways in which bulbs are handled so as to get the best results from them.

Lilies.

Probably the most important of our Easter flowering plants is the lily. Some florists force the old type *Harrisii*; again you will find some using the multiflorum, which is a Japanese product, as likewise is the giganteum. The two latter sorts have come into great prominence during the last few years because of the apparent few failures that have occurred with them. Many attribute this to the fact that the bulb of the Japanese lily is not diseased, while that of the *Harrisii* is more or less diseased.

I think you will all agree with me, that the most important thing for the florists to watch is not to buy small-size bulbs. It has been proven that wherever disease exists, it is in the smaller bulbs, as for some reason or other they gradually seem to outgrow any sickly conditions if the bulbs are more mature or aged. The most profitable sizes of the above mentioned lilies to force are the 7 to 9 size in *Harrisii* and the 9 to 10 size in multiflorum and giganteum.

You all know quite well the characteristics of the *Harrisii* lily, while you do not all, probably, know the characteristics of the multiflorum and the giganteum lilies. The former produces a greater abundance of bloom; in fact, is a very free forcer. It is a green-stemmed plant, while the *Lilium giganteum*, which does not force so readily, is a red-stemmed plant, and likewise produces fewer flowers, although these are of a gigantic size.

Many failures, particularly with lilies, have been traced to the fact that the bulbs have not been thoroughly rooted. Many of you probably try to get the very first shipments that arrive in the country, pot them up and get them in for Christmas. This is hardly necessary nowadays, as very good cold storage lilies may be had for this purpose, which I will remark on later.

Treatment of Lilies.

Lily bulbs are handled by almost every florist in a different manner, but we have had occasion to observe that those handled in the following manner have bloomed most successfully, and have shown the least tendency to loss through disease.

In potting the bulb you will find a small layer of good, well-rotted cow manure in the bottom of the pot very advantageous; the bulb may then be placed on this and the pot filled up with soil. After they have been watered thoroughly they should be placed outdoors, say until the first part of October, when the bulbs have been potted in August. A covering of sand, leaves, or some suitable litter on top of the pots, to protect them from the ravages of the sun will be found of great benefit. When they are brought in, say in October, they can be placed under the greenhouse bench in a temperature of about 60 degrees and left there until there is room in the top, or until they are to be brought into warmer houses to force. This method of treatment will invariably produce strong, thrifty plants, which will give you plenty of bloom.

Speaking of Japanese lilies again, I would like to call your attention to some remarks made by one of our florist customers in Akron, Ohio, who purchased from us, 4,000 *Lilium giganteum*, 9 to 11 size. His remarks are as follows:

"Upon arrival of bulbs we pot them at once in 4-inch pots, using coarse, soft-coal ashes for drainage in the bottom of the pots, and giving them a soil composed of sandy loam and well enriched with about one-third well-rotted horse or cow manure. The pots are placed under a dry bench in either a violet or carnation house, soaked down with water very heavily and after two or three days we cover the pots with two or three inches of ashes.

"When Easter is early, as it was this year, we place the lilies on a bench after January 1, giving them a temperature of 60 degrees at night and 70 degrees days for about ten days, then 70 degrees nights and 80 degrees days until buds can all be counted.

"During this period we manure-water them regularly once a week with the following liquid: One bushel of fresh cow manure and one 4-inch potful of nitrate of soda to each fifty gallons of water. Spray the foliage once a day or twice a day in clear weather. We try to keep the house moist, otherwise, by spraying the walls and walks. It is also important to never allow the soil to get very dry, and we never feed unless the soil is moist.

"When the buds can all be counted easily, we move them into houses where we can get the temperature down gradually, and finally mulch them with either a little sheep manure or bone flour, which will be sufficient food until they are ready for market.

"Our experience with lilies, especially Japan, has proven to us that the only way you can get them good is to force them quickly and not check them in growth while the temperature is kept high. As the root action becomes such that they can easily be knocked out of the pots without disturbing the ball of earth we shift them either into 5-inch or 6-inch pots, according to strength of the stock. Drainage in the pot is also of great importance when repotting is done.

"The 4,000 lilies obtained from you this season are a fine lot indeed. It may be well also to mention that we use Nicotifide for fumigating."

Benefits of Cold Storage.

The cold storage lilies, which are now coming into great favor, are confined principally to the varieties of



A Double Richardia

Originated with Chas. Stellmacher, Warren Point, N. J.

longiflorum, multiflorum, and giganteum. The latter variety, however, is much more desirable, as it seems to stand forcing better than the other two sorts. Longiflorum is the next best, while multiflorum is probably the poorest of the lot, as it is somewhat soft, probably due to the fact that in the green state it is the most free forcer of the Japan lilies.

To obtain the best results, cold storage bulbs should be potted immediately upon being received by the florist; and we would suggest very much the same method of potting as that applied to the bulbs as they were handled by our florist friend of Akron, Ohio, whom I mentioned before. They should be placed in a dark, cool place; probably under the bench of the potting house would be the best. They should then be left there in a cool temperature as long as possible, until the pots are well filled with root growth. This can be determined sooner or later by examining them.

They should then be removed to a greenhouse and started off at a temperature of about 50 degrees to 55 degrees and kept at this temperature until the bud parts, or flowers, set. Then the warmth may be increased to 60 degrees or 65 degrees to 70 degrees. This will draw the plant to its proper height and rapidly develop the buds and flowers at the same time.

Cold storage lilies should commend themselves to every florist who grows lilies, if it were only for the one reason that they can be brought into flower in twelve weeks from the time they are potted. As can readily be understood, it requires the space of the greenhouse but a very short time, compared with what is ordinarily required to bring the fresh or green stock of lilies into bloom. The saving is anywhere from two to three months. Then, at the same time, the amount of labor required is of much shorter duration, as is also heat, etc.

A large grower of lilies has said that he would not grow any more fresh stock, because he figured out that

unless every square foot of his greenhouse brought him in \$1 per year it ceased to be profitable, and he says he can make this very easily in lilies when growing cold storage stock.

Other Staple Bulbs.

I want now to take up your time just a few minutes further, by calling your attention to one or two other good bulbs which are very largely forced. Take, for instance, the *Narcissus Paper White* and the *Roman hyacinth*. There is not much comment necessary, because almost every florist seems to have reasonably good success and we have invariably traced failures in *Paper Whites* to be principally due to lack of root development.

Upon questioning some florists who have reported failures and upon referring to their orders, we find that they have not allowed sufficient time for the bulbs to really produce a bud; for the fact is that the strength which should have gone into the roots was divided and part went into the flower and part into the roots, and the result was that there was neither root nor flower. It is almost impossible to force these bulbs in six weeks, as some florists suppose.

This applies equally well to *Roman hyacinths*. And I can only repeat, with emphasis, that it is absolutely necessary to root all bulbous stock in a most thorough manner.

Cause of Failure.

I will now take up the items of tulips, hyacinths, and daffodils. Every little while one hears the report that such a variety of tulips, hyacinths, etc., did not do well. Frequently we find that the florist has not chosen his varieties well; probably has not selected the right ones. Take, for instance, the *Pottelbakker tulip*. While these may be forced successfully at times, still there are years when there will be no bloom at all when they are grown indoors. The *Hollanders* claim that this is not a forcing tulip, and therefore should not be used for that purpose.

There are a number of other sorts which can not be counted upon to bring the best success, such as *Chrysolora*, *Duchesse de Parma*, and similar varieties. In their catalogs most seedsmen have the forcing tulips marked with an asterisk, or by some other method, and as the seedsmen takes his experience largely from the *Hollander*, it is well sometimes, if not always, for the florist to be guided largely by this in using these sorts.

Now take the item of hyacinths. It seems that the florist will persist in buying *Baroness Von Thuyll*, which is a handsome white sort. This variety, however, is not at all adapted to forcing, unless in a very slow way, and it certainly should not be used to bring into flower for Easter. It has a tendency to "cut its throat," as the seedsmen claim. In other words, after the bud and stem have developed nicely, down below the foliage, it seems to come to a stand-still, while the stem a little further down simply rots off. The cause of this, I do not believe has ever been determined.

Now we will take the item of narcissi. Some florists plant *alba plena*, *odorata*, *poeticus*, and similar kinds, which are wholly undesirable for forcing. Therefore, you can always be assured when there are failures in bulbs, it is sometimes the fault of not choosing the right kinds, as well as for other reasons.

Other Sorts Worthy of Attention.

There are a few bulbs which I want to call attention to, which are not used as much as they should be used by the florists, that is, for forcing. Take for instance, the *delytra*, or *bleeding heart*. You have no idea what demand there would be for this by the *Roman churches* for Easter decorations. It costs very little, requires very little attention to get it into flower and pays as well as any Easter plant one could force.

Again, there is the *Spanish iris*. It reminds one very much of dainty little orchids. Irises may be planted among carnations and will do very well. They bring a handsome price when cut, while the cost of the bulbs is in the neighborhood of \$3 or \$4 per thousand, and they require no attention from the time they are planted until they are cut.

The hardy Japanese lilies, such as *auratum*, *album*, *rubrum*, etc., while they can not be brought in very well for Easter, make excellent lilies for selling in pots or for cut flower purposes during the Summer. They can be potted up when they arrive from Japan, say in October, and can be brought into flower without a bit of trouble by April or later, as required.

I do not know that these are extensively forced now by florist, but I think *Robert Craig*, of West Philadelphia, has had some little experience with them and I believe he still forces them with excellent results. They cost considerably less than *Harrisii* and other Easter lilies, while they probably bring greater results. Do not, however, confuse them with Easter lilies, as they must not be planted with the idea of supplying the demand for the latter.

In the short talk on the above I have endeavored to bring out the most important points on the subject, as I did not have much time, even to prepare the data, owing to the great rush which exists in the seedsmen's business at this time of the year.

A Double Richardia.

We have often seen double flowers of the calla, that is, blooms that have had two spathe, one surrounding the other, but we do not remember to have seen a calla with two spathe, carried after the manner of the one from which the illustration herewith shown was made.

We are indebted to Charles Stellmacher, Warren Point, N. J., for the flower which is here pictured, and that gentleman informs us that this is the first bloom that has been produced from a batch of plants which he raised from seed, seven years ago. He accounts for the plants not flowering earlier by the fact that he was laid up with a paralytic stroke for a year or two, and they received no attention except that which was only necessary to keep them alive during their growing season.

Mr. Stellmacher is waiting with much interest the coming of other flowers from the hatch of plants he is growing, and is half inclined to believe that they will all show the same characteristics as the one from which the photograph reproduced was taken.

Flower Show at Pasadena, Cal.

The second annual flower show of the Pasadena Gardeners' Association was held April 4, 5 and 6, in a mammoth tent, which afforded plenty of room for nice grouping of ornamental stock and the proper display of cut flowers. Edward H. Rust, proprietor of the Palm Nursery, South Pasadena, and The Park Nursery Company had fine exhibits of pines, palms, philodendrons, ferns, and other exotics so extensively used in landscape work on this coast. Among the plants in the Rust exhibit was a *Ficus pandurata* that attracted attention because of its large foliage which stands erect, the petiole being so short that the leaf grows close to the stem. In the collection of the Park Nursery Company were several new introductions from the Agricultural Department at Washington. The most attractive of these was an actinidia, as yet without a specific name. It has heart-shaped leaves of a peculiar shade of green; the petioles and stems are covered with short hairs of dark pink color. Evidently this plant is an evergreen; should it prove hardy in this climate it will be a valuable addition to our list of vines. Another plant shown for the first time here was *Vitis coignetiae*; its deeply lobed, downy dark green foliage is very pretty.

Howard & Smith had a fine display of cut roses, field grown, and of large flowering clematis which attracted a great deal of attention. The most prominent of these was Marcel Moser, a white variety with ruby colored stripes in the middle and lengthwise of the petals. This firm's amaryllis were very fine, of large size, eight inches across the flower, in color from almost white to very dark orange. These with some cut flower stems of *Sparaxis pulcherrima* are some of the new additions to plant life of Southern California as the result of Fred Howard's trip to Europe last season. One unique feature of this firm's exhibit was the bamboo vases in which they had their cut flowers. When the merits of this valuable plant become known in the United States it will be extensively planted for economic purposes, as well as for ornament.

A. K. Macomber, who bought the Dr. Schiffman collection of orchids last year, had it on exhibition to the delight of visitors. One of the most attractive of this collection was a hybrid of *Laelia cinnabarina* and *Cattleya Mossiae*. The petals were of a dark orange color, long and narrow, the labellum being also small with a royal purple throat.

The collection of wild flowers was very fine, but unfortunately was not named. Indeed, few of the exhibits were named. It is not only disappointing but positively exasperating to visit a flower show and become interested in the exhibits to find them without names and no one present who knows the appellations. At this show Edward H. Rust was the only exhibitor who had every specimen on exhibition labeled and that too in letters large enough that the names could be read without the use of a magnifying glass.

When nurserymen and florists on this coast become as wise as they should be, as well as amateur growers who care to advance the cause of horticulture, they will one and all bring with what they have to show cards with the names of the subjects nicely printed or written thereon, and visitors who pay their admission fee to see and learn will go away satisfied that the time and money were well spent. And if the committees who have the management of these shows will insist on exhibitors complying with such rules they will be public benefactors.

Gladiolus of large size and beautiful colors, sparaxis, narcissus of the trumpet varieties, ranunculus of great beauty in form and color, as also anemones, snapdragons with stems a yard long, were all shown in great profusion. Of flowering shrubs, branches—not the bushes—there was a fine exhibit—*genistas*, *weigelas*, *Cantua buxifolia*, *spiræas*, *Clianthus Dampieri*, *Diosma fragrans*, *Choisya ternata*, which is one of our most beautiful shrubs, abutilons in variety, *Habrothamnus elegans*, all from the gardens about town, and all without a name attached to them.

P. D. B.

Plant Bedding and Bedding Stock.

Read before the Detroit Florists' Club, April 3, 1907, by Robert E. Unger, Horticulturist, Belle Isle, Detroit, Mich.

Spring is here, with all its vexations and tribulations as well as plenty of hard work, success and failures for the florist and landscape gardener. The planting of beds and growing of stock have to be considered, plans have to be completed; and in this latter instance, it is advisable for the gardener to prepare his plans during the Winter months, in order to know beforehand what he wants and regulate his propagation of stock accordingly. By doing this it will facilitate his Spring work very materially. Of course, this pertains only to such planting as the gardener knows of beforehand. For the commercial gardener it is rather difficult, for he is seldom in a position to know exactly what and how much stock he will need. He has to use his own judgment.

Sometimes he has a customer who wants a certain bed for some successive years; the gardener prepares for the same work, and all at once when planting time comes the customer changes his mind; he either wants something entirely different or wishes to discontinue entirely. Or again, the gardener will prepare for his regular trade as usual, when suddenly orders come in

Use of Plants in the Various Plantings.

First take carpet bedding or mosaic work. Proper sketches, according to size of beds, should be made in advance, with the respective colors marked in the various fields so as to know exactly what is wanted. For such designs the following plants are most popular: principally the *Alteroantheras*, *amona* (red), *paronychioides* (brown), *aurea* (golden yellow), etc., are the best. Then most of the *echeverias*, large and small varieties, *kleinia*, *sempervivum*, *sedum*, in fact, almost all the different sorts of the *crassula* family are very useful. The various *oxalis*; among these the best is *O. trapaeoloides* on account of its beautiful dark red foliage and its creeping habit; *centaurea*, especially, *candidissima* with its fine silvery foliage; *Goaphalium lanatum*, also white, or rather gray foliage.

Then we have various dwarf growing geraniums, like *McMahan* (bronze foliage); *Mount of Snow* (white and green); *Happy Thought* (variegated), etc., which help greatly to add color to the bed. Also for larger beds the various sorts of *coleus* can be used freely. With such a variety of color, by placing the plants so as to obtain the desired contrast, one cannot fail to create a very striking effect.

In order to offset the more prominent points to better advantage, single plants should be used, such as palms, *dracenas*, *yuccas*, *agaves* of proper height for center of beds and *echeveria*, *crotons*, *aloes* for center of smaller panels.



New Greenhouse (King Construction) Rose Hill Greenhouses, Columbia, S. C.

of which he never dreamed. Of course, in this latter case he can buy stock sufficient to fill the order; but, as said, it is rather difficult to have a fixed plan as to planting and propagating.

Planting Beds.

There are various methods of bedding, and almost every gardener has his own taste. First, there are mass beds, that is, beds composed of various kinds of foliage and flowering plants of different sizes, or all of the same kind; tropical beds, that is, tropical plants or those that will produce a tropical effect; beds of all flowering plants, and also the so-called carpet, or mosaic beds. The latter are not so much in vogue at the present time; beds of a tropical and sub-tropical character are freely used.

Good judgment should be used in planting the different kinds of beds. For instance, it would be very improper to plant a bed of a floral design right out into the natural surroundings of a park or a private place; that is, from the standpoint of a landscape gardener. The landscape gardener has to adapt his planting to the surroundings in order to create the desired effect, on which depends a great deal the success of his bedding.

Carpet bedding, or all formal bedding, should be concentrated especially around conservatories, residences or other buildings, as the beds are more in harmony with architecture, or, in formal gardens, which are largely termed Italian, but are the old Rococco style, which are composed of mostly straight lines and formal trees and shrubs. This method of planting had its origin in Italy and France, and during the reign of Marie Antoinette, Queen of France, was in its prime. In those days some of the oddest designs were executed in flowers and foliage plants, and were considered a great art. Nearly all ornamental bedding can be adopted at almost any place, by selecting the proper varieties of plants.

If a tropical effect is required, especially in large beds, we have the different varieties of *solanum*, *ricinus*, *cannas*, *caladiums*, *stevia*, and other plants of tropical and sub-tropical appearance, many of which have been great favorites in European gardens for many years, but unfortunately are almost total strangers in this country. For instance, one of the finest sights that I can remember to have seen in some European gardens, were monster beds planted with *ricinus* of immense size, *Wigandia caracasana*, which, under proper care and in rich soil, will grow from 8 to 10 feet high in one season. This is a very imposing plant, with its light green leaves about three feet long and from eighteen inches to two feet wide; the variegated *Zea Mays* will grow up to 10 feet in one season. *Ferdinanda emimens*, now called *Podachonium paniculatum*, with immense dark green foliage, grows to about six feet high during Summer. *Solanum robustum* and *marginatum*, etc., which grow from three to six feet high, with large and handsome foliage; *S. marginatum* has beautiful silvery gray leaves and is much more of a bushy habit; *Cyperus papyrus*, about 5 to 6 feet; and *C. alternifolius*, 2 to 3 feet; *Caladium esculentum* bordered with *Centaurea gymnocarpa*. I can assure you that a group of such plants, properly treated, is very imposing, and once seen is not easily forgotten.

(To be continued.)

A South Carolina Plant.

Our illustration shows the interior of the new short span greenhouse, 65 x 100 feet, built by the King Construction Company, North Tonawanda, N. Y., for the Rose Hill Greenhouses, Columbia, S. C. The firm has 5,000 carnation plants in this house also a few sweet peas, both of which have done well. The photograph from which our engraving was reproduced was taken a few days before Christmas. The concern says it is more than pleased with the construction of this house.

FOR THE RETAILER

Seasonable Table Decorations.

As the season advances, Spring flowers become more plentiful and are offered in greater variety, opportunity being thus given the artist to display his taste in making pretty combinations for luncheon and dinner parties. The wideawake florist naturally takes advantage of any novelty that presents itself, and will give his customer the advantage of early arrivals. I once heard a prominent Boston florist remark, that he would give a great deal if he could get, once in a while, some of the choice tid-bits that appear regularly in the New York stores.

Moss roses are dearly beloved by most of our lady customers, and they will pay almost any price to get these flowers. They combine splendidly with many of the smaller blossoms and are especially pretty for luncheons for ladies. Moss roses made up into a centerpiece with white sweet peas form a most attractive arrangement. They may also be used with lily of the valley, white daisies and lilac. If some of the roses are partly open it will add greatly to the charm.

The Spanish iris, which has been in this market for the past two weeks, is a most welcome change from our every day flowers, and its small, orchid-like flowers are the object of much comment. They are, however, scarce as yet and considered quite choice. They are seen in shades of purple, lavender, yellow, and white. To be at their best they should be used for daylight functions, as they lose much of their brilliancy under artificial light.

And odd combination was used to decorate the table at a prominent club function. The flowers were Narcissus Golden Spur and violets, representing the club colors. The result was really better than would be expected. The narcissus and violets were arranged in irregular groups as a center-piece and filled in with Adiantum cuneatum. Violets were strewn promiscuously over the table, and the gentlemen wore button-holes of yellow daisies and violets.

At a large dinner for forty, genista and yellow snapdragon were employed with good effect. Silver pieces were used, varying from a cup thirty inches high down to low center-pieces. The genista, which was cut from loose, straggly plants, was particularly adapted for this purpose, some of the sprays being two feet in length, falling gracefully to the cloth. The yellow snapdragon was used in the lower pieces, which were edged with large fronds of Adiantum Farleyense. Each of the taller cups was surrounded by a low wreath composed of Adiantum Farleyense. A single flower of the Cattleya citrina floated in the finger bowls. Button-holes of Oncidium carodes completed the yellow effect.

At another function blue hydrangeas were used with a gold service; the result was strikingly rich. The arrangement was kept very low. Large bows of soft yellow ribbon filled in the vacant places on the table.

Flowering plants for decorations of this kind are often preferable to cut flowers, but are quite frequently overlooked because they are not cut and in the icebox. Azalea mollis and even the indica varieties are splendid for table effects and often prove a valuable asset when the customer insists on something different, and the florist often realizes more out of a plant by cutting it for this purpose than by selling it in pot form.

Acer Negundo Variegata, Variegated Maple.

A firm of growers who are of an experimental turn of mind are to be credited with forcing this extremely pretty shrub, which will surely prove a good novelty. The variegation comes expressly distinct through forcing, and the white and green effect is most attractive. I saw this subject used this week in combination with palms and ferns in a window decoration, the only other ornament being a vase of about fifty long stemmed Mme. Abel Chateney rose. D. RAYBUN.

CLUB AND SOCIETY DOINGS.

THE ST. LOUIS FLORISTS' CLUB held its regular monthly meeting and annual rose show last Thursday afternoon in the meeting rooms in the Burlington building. The meeting was largely attended, considering the fact that the greenhouse men are very busy at this time of the year. The exhibition was not as large as we have had, but the flowers exhibited were of extra fine quality and attracted a great deal of attention. J. F. Ammann, of Edwardsville, Ill., and Walter Weber, of H. G. Weber & Sons Nursery, were the main exhibitors for the prizes, and the Minneapolis Floral Company for exhibition only, the latter showing a fine vase of the new rose, Miss Kate Moulton. Mr. Ammann staged Richmond, Mme. Abel Chatenay, Ivory, Bride and Killarney. Mr. Weber showed Richmond, Mme. Abel Chatenay and a mixed vase. All these showed to good advantage.

President Irish had too much business to attend to at the Garden, so the duties of chairman fell upon the vice-president, John Cannon, who performed them in an able manner. The chair called upon the trustees for a report on the celebration of the club's twentieth anniversary; they reported that nothing had as yet been done, but that they would make a full report at the next meeting. They stated that the picnic and the celebration would not be held at the same time.

Theo. G. Brown made application for membership, to be acted upon at the May meeting.

The treasurer's report showed that the club's financial condition was healthy and growing with each meeting.

The judges of the exhibits appointed were F. J. Fillmore, Harry Young and George Augermuller, who reported as follows: Best fifteen Bride, J. F. Ammann, second. Fifteen Mme. Abel Chatenay, J. F. Ammann, first; Walter Weber, second. Fifteen Killarney, J. F. Ammann, first. Fifteen Richmond, J. F. Ammann, first; Walter Weber, second; Fifteen Golden Gate or its sports, J. F. Ammann, first with Ivory. Best vase of mixed roses, Walter Weber, second. The report on Miss Kate Moulton was that the variety had very luxuriant foliage, good flowers, stem slightly weak and deservingly honorable mention.

The question box brought out a very spirited discussion, in which every member took part. There was also a review of the Easter trade, in which retailers, growers and wholesalers took part. The growers considered this Easter a bad one, owing to the fact that the early warm days the first part of March brought out the blooming plants with a rush long before Easter, especially lilies, of which there was a decided scarcity and on which they claim a 75 per cent. loss and 90 per cent. on Dutch hyacinths. The retailers made a satisfactory report in all lines, business being ahead of last year's. The wholesalers did well on Saturday and Sunday, but before that a glut in almost everything in season, with heavy losses to the consigners.

The next meeting will take place Thursday afternoon, May 9.

ST. PATRICK.

NEWPORT (R. I.) HORTICULTURAL SOCIETY.—A regular meeting of this society was held in Mercury Hall, Tuesday evening, President Buttrick in the chair. The secretary had proofs of the schedule for the June rose show; the classes were considered very satisfactory and the lists were ordered distributed. The committee on the Adams memorial reported progress. The executive committee labored for two hours on the schedule for the Fall exhibition and were not finished with the work when they gave it up for the evening. There is a general inclination this year to give a greater number of premiums to plants that come to maturity in a shorter time than is the case with large specimen plants that can be kept from year to year, although admittedly these require skill and care in order to keep them in condition fit for exhibition. Dahlias will again this year be a prominent feature of the Fall exhibition, and the display of these now extremely popular flowers will be more elaborate than ever before. The state appropriation of \$1,000 to the society is assured; this amount will have to be given in premiums to citizens of the state. Prizes awarded to outside exhibitors will come from the funds of the society. D. M.

MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY.—We had a very interesting time at the April meeting; about 40 members and several visitors from New York and Newark were present. It was rose night. We had three vases of Queen Beatrix from F. H. Kramer, Washington, D. C.; they traveled well and received high encomiums from many close inspectors. This variety received a certificate of merit at a previous meeting. L. A. Noe had American Beauty, Bride, Bridesmaid and Richmond; J. R. Mitchell, Bride and Bridesmaid; Wm. G. Badgley, Bridesmaid; R. M. Schultz, Richmond; Alexander Brown, gardener to Mr. G. MacCulloch Miller, Killarney, and A. R. Kennedy, cinerarias. All the exhibits were of a very high order and nearly every one secured a cultural certificate.

The edifying part to a great many were the essays on the rose read by Messrs. Kennedy and Falconer. They

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 23rd St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYEE, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLOREAL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLOREALIST, the largest flower store in the South, floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

knew their subject, and an interesting time was spent asking questions and discussing details. The essayists were cross-examined well and they stood the test. "Lawns and Their Care and Management" will be on for next meeting; Arthur Herrington is to be the lecturer. The date is May 8. E. R.

MASSACHUSETTS HORTICULTURAL SOCIETY.—The trustees of the Massachusetts Horticultural Society have voted to open the library of the society to its members and others interested in horticultural matters on Sunday afternoons from 2 to 6 o'clock, beginning Sunday, April 21.

It is believed that there are a considerable number of persons, whose business will not permit them the privilege of using the library during the hours in which it is now open, who would welcome the opportunity to use it were it open during some portion of their leisure. This applies especially to garden employees, who have little time and are not overburdened with means; yet, it is largely upon such men that the present and future success of practical horticulture depends.

The Massachusetts Horticultural Society, by offering young gardeners the use of its library, will be fulfilling an important part of its mission—the advancement of horticulture.

While the free use of the whole library is offered, it is believed that the opportunity to consult the world's best horticultural periodicals will be greatly appreciated by many who could not under the former arrangements make use of them.

It is known as a fact that some men who make the most noise in certain localities, in an agitation to keep up the price of plants in the Spring, are the first to cut prices and try all possible means of getting rid of their stock in any old way. D. M.



Elias Fursman.

Elias Fursman, an old settler of Woodford County and an acknowledged authority on corn, died at his residence, 247 Hamlin avenue, Chicago, on Saturday last. He designed the big corn picture which formed a feature of the Illinois exhibit at the World's Fair, and at the time of his death was arranging a corn display in connection with the big corn convention to be held in Chicago next Fall.

Florists' Clubs, Their Value and Importance.

Read by J. F. Sullivan before the Detroit Florists' Club, April 3, 1907.

In view of all that has been said and written on the subject of florists' clubs, it would appear that the trade at this date would be familiar with the value of such organizations. However, we still find much indifference shown by some of the older florists, and a still greater number of the more recent accessions to our ranks, toward these societies, whose beneficial work is now quite universal and of a most substantial character. To all such in our profession I particularly address myself, and if my words and efforts in this direction will be even remotely the cause of new additions to club memberships in any part of the country, then I shall feel justified and well repaid for the preparation of this address.

In the pursuit of any vocation life is too short for mere superficial engagement in it, and in this as in other occupations all should strive to reach the summit of success, neglecting no stepping stone to attain it. Undeniably, to the florist membership in the florists' club is the most valuable as well as the most accessible means to this end. And all honor is due the chief factors of the clubs, namely, the broad-minded, progressive spirited growers or floral artists, who, excelling in their chosen line, come to our open meetings and, with their carefully and thoroughly prepared essays, divulge unstintingly to their interested hearers the cherished and highly valuable knowledge gained through years of experience, involving in some cases many sacrifices.

The Results of Organization.

Who shall question the value of florists' clubs when he remembers those illustrious examples of the persistent good work and zeal of these bodies that now, I am glad to note, adorn this country? Organization, then, is the watchword of the day. We see evidences of its operation on all sides, and florists everywhere, particularly the growers, are feeling the effects of the workings of organizations and combinations which materially advance the cost of all component parts, articles, and materials entering into the construction of greenhouses and the operation of them. Even labor organizations contribute largely though indirectly to the same result.

Florists' clubs are by their very nature the legitimate and properly designed combinations for accomplishing for their members that which if left to individual effort, would be unattainable. The club's value to its members lies in the facility it affords for bringing out the very best methods locally known for growing and marketing the crops of the members.

Purpose of Clubs.

The florists' club's purpose is primarily to develop and advance the floricultural industry as locally presented. This is accomplished by the extraordinary facility the club offers for the exchange of experiences of its members by the presentation of essays and informal chats that the club meetings invariably bring about between members, so that they individually, after a period of association with each other, are far better exponents of the vocation they represent. For it is a noteworthy fact that florists are in these times better informed, and generally more qualified in their profession, than they were prior to the organization and practical operation of florists' clubs throughout the country.

I will go still further, and assert with full confidence, that even the leaders of twenty years ago are to-day, in their respective lines, still better qualified and more successful and representative than they formerly were, because, as a rule, the class referred to are always found foremost in the ranks of trade organizations. Florists' clubs give a tone and dignity to the calling that truly belongs to it, adding to it prestige, without which progress and development are necessarily retarded, as witness the condition of the trade in all its branches prior to the inauguration of florists' clubs over twenty years ago.

The prominence given to the industry through the instrumentality of the great flower shows, the development of interest in our productions, and the elevating influence of these, are the direct results of florists' clubs' work, the value of which must be plain to the most casual observer of the progressive stages of the business during the period following the organization of such clubs.

It is a well established fact that only the producers of first-class flowers are to-day assured of a ready market and remunerative prices for their products, at all seasons of the year, and it is a self-evident fact that the wise grower cannot afford to ignore any contributing factor to the end that he may be able to invariably grow first-class stock, and enjoy a compensation commensurate with the skill and labor employed in its production.

Retailers Need Club Assistance.

Retailers, too, stand in much the same position as that of the growers as to the incumbency upon them to seek all the means within their reach to create a ready market for the final disposition of the stock after it leaves the grower's hands. Upon the retailers devolves the duty; yes, the necessity of developing in the future a still finer taste for flowers, and by suggestions and illustrative displays to create more occasions for the use of flowers and plants, and thereby increase the sale of them. All the representatives of this important branch of the business should highly prize club membership, because it offers them the same advantages that it presents to the growers; and the full extent of these benefits corresponds precisely with the amount of interest taken in the club proceedings, and the facilities afforded by the latter to inaugurate competitive floral displays to the certain interest of all concerned.

Florists' clubs, composed as they are of the most intelligent, enterprising and progressive men in the community where clubs exist, are the natural results of the highest conception of the broad liberal mindedness of their members who have been proven to be such by their attachment to these organizations, and it is an assured fact that every florist engaged in the industry, whether a member of a florist body or not, is sharing to-day, in a relative degree, the benefit of the great work of these societies. Every retail dealer in flowers and every employee should appreciate the great work these societies are doing; their value is progressive and cumulative as they increase in age, being ever watchful as they should be of their opportunities. Every one engaged in floriculture commercially should be a member of a florists' club, and the larger the membership the greater will be the value of the work accomplished by the organization. Every man possessing even a hotbed devoted to the production of flowers, owes it to himself and the noble calling he has adopted to equip himself properly with the great fund of valuable knowledge that only membership in a florists' club can impart to him.

The Need of Employees.

And while a reference to employees is not strictly a part of this subject, I cannot refrain from here saying that I have always thought, and strongly contended, that employees who are eligible to membership in florists' clubs should be admitted on the payment of dues much lower than those paid by dealers and employers; and the latter class should gladly welcome employees to their ranks so that the knowledge thus acquired by these employees may be used to the advantage of floriculture generally.

It is indeed deplorable to witness some florists' clerks attempting, without success, to give to the customers even the proper names of the plants they are selling, and most unfortunate are the results of their efforts to give the public the necessary mere rudimentary cultural instructions for growing the most ordinary house plants, or the more easily grown bedding varieties. And when their effusions are given to the press, as they too frequently are, every intelligent, well-informed florist is horrified and totally disgusted with the perusal of it. The true value of florists' clubs would be materially augmented by a recognition of this suggestion, and the practical operation of it.

Prior to the formation of these clubs it was no uncommon occurrence to find the door of many greenhouse establishments securely locked against visiting florists, the owner himself being secreted upon the premises and refusing to be seen. The spirit of jealousy, suspicion and deceit was not confined to any one locality either, and such examples of unfriendliness could be found in almost all of the large cities, where now are to be seen flourishing clubs, with many of their members trying to outdo the others in generous public-spirited acts. Even in our club we have some members, most enthusiastic and devoted to the promotion of good feeling, who prior to joining the club would have walked two or three blocks out of their way to avoid passing close to the stores of their competitors. At the same time it was easy for any of us to have a grievance against our neighbor florists; we would give a willing ear to any accusation made against them, and would greatly magnify their alleged faults, freely circulate rumors detrimental to them, and if an opportunity arose to quote competitive prices, one dealer would be sure to undercut the other.

Now, thanks to the happy results of our club meetings that bring us together twice a month, all inimical words and words are by-gones, buried deep, never to be resurrected. Then why should we not prize the florists' club?

The history of florists' clubs, is co-existent with that of the parent and greatest of all floricultural organizations, the Society of American Florists, and contributory support is given by the former to the latter bodies through its pursuing a similar line of work, thereby adding another element of value to the clubs, and increasing the sum total of their intrinsic worth.

Prospective Club Work.

A story giving a review of the value of the florists' clubs would not be even fairly complete did it not include a reference to some of their "prospective work," which is peculiarly their own, and in due time will, I hope, be added to their annual programs everywhere. Among these many phases of contemplated club work are: the dissemination of authentic or floricultural information to the public; an active participation in civic improvement work; substantial aid to school classes in botany and practical garden work. They will, too, always anticipate the demands and inclinations of the public, and never neglect an opportunity, when it arises, to promote among the people a still greater love for and admiration of our productions, and develop an increasing patronage for our members.

Bureau of Information Desirable.

Chief among these, I regard that of dissemination of floricultural knowledge among the public most important. Indeed, it is not unreasonable to hope that in the near future every florists' club in the land will increase its scope and usefulness by maintaining a bureau for the specific purpose of preparing seasonable articles giving plain, practical cultural instructions as to growing plants and flowers that will insure to those interested pleasurable and successful results; and securing the publication of these articles in the press of their respective localities. For if such articles are carefully prepared, devoid of the appearance of commercial interests, and of a truly altruistic nature, the press will cheerfully publish them, and the ultimate results will inure to the certain benefit of the florists.

Aiding Civic Improvement.

Another opportunity of vast importance now presenting itself to the florists' clubs is that of co-operation with the local civic improvement efforts. In such matters the present is a most opportune time for the clubs not only to identify themselves with such work, but actually to lead in it, and when it is considered that the florists alone are the direct pecuniary beneficiaries of this work so fast becoming popular, it is all the more surprising that their organizations have not as yet shown much aggressiveness in it. Our own club has already taken some initiatory action along these lines; but really effective work can only follow continuous and systematic effort. Our clubs need apologize to no one for their intervention in this good work, so productive of almost immediate results and constituting an element of rare value.

This work might with much propriety extend to efforts upon our part to secure horticulturists and practical plantmen for our parks and public gardens, and thus remove from such places the examples of so much abortive work placed there by politicians wrongly occupying these positions, caring little about the work beyond its remuneration, men too frequently devoid of the knowledge necessary to equip them for even the most rudimentary work of this nature.

It is true that the total eradication or even amelioration of all the ills that the pursuit of the florist business is subject to, is not contemplated by the most enthusiastic champions of florists' clubs, for if that were possible then uninterrupted success and perfect tranquillity in our chosen work might be purchasable by the mere payment of our annual dues in these societies.

An Example of Wholesome Fraternity.

If the power and influences of organizations were devoid of proof, or at all lacking confirmation, I might with perfect propriety point to even one of many examples of it that could be found in the history of our own club. On the occasion I refer to, it was not necessary to lose any time to work up sentiment to attain the end desired; we were already organized and the necessary spirit of kindness toward each other was there, on top of it, as it were, and the occasion only was needed to give a practical demonstration of it.

It was less than two years ago that one of our members was about to erect a fine store and office building. We considered that the accomplishment of that enterprising project would stand as a monument to the floral industry, that, locally, it would be an illustrative testimonial of the great possibilities open to others thus engaged, and that the dignity of the calling would be forcibly impressed upon the public by witnessing such an achievement.

The club accordingly took full charge of the ceremonies attending the laying of the corner-stone of that building on July 29, 1905. On that occasion, it affords me great pleasure to say, nearly every member of the club was present and shared with our fellow member the great enjoyment of the unusual but important event. This demonstration of unselfish community of interests, I should not hesitate to declare, never had a parallel in the history of trade organizations, and the emulation by other clubs of the same cordial spirit shown by the members on that occasion would add immensely to the value of the club fortunate to show it.

(To be Continued.)

Reading, Pa.

The firm of Hoskins & Giles was some time ago dissolved owing to the death of Mr. Hoskins. John H. Giles is now in business for himself with a very handsome store and greenhouse attached at 123 South Fifth street. Besides his greenhouse in connection with the city store he has a fine growing plant a short distance out on the Mineral Spring road. Mr. Giles says that Easter trade was very good.

The Hoskins boys have formed the G. H. Hoskins Company, and do business at 37 North Tenth street. They have also a greenhouse, in connection with their city store, but the principal part of the plant growing establishment is at Wyomissing. The Hoskins Company has received the contract to plant the grounds connected with the Water Department of the city and were busy getting their stock in shape. J. M.

Harrisburg, Pa.

The Capitol city of the Keystone state is considerably behind in matters of interest to the craft compared with many of the smaller places in this great commonwealth. J. D. Brenneman is probably the largest grower. He has about seventeen greenhouses well filled with stock, ready for immediate sale, consisting chiefly of geraniums, roses and heliotropes. In young chrysanthemum plants he has them by the hundreds of thousands and judging from the appearance of his houses of stock plants will be able to continue to produce them in large quantities until far into the Summer.

The Paxton Greenhouses, owned by M. G. Hanson and Louis Salingre, are on Cameron street where a general assortment of miscellaneous plants is grown for the local trade.

Chas. L. Schmidt, who recently got burned out on North Third street, has now another location on a popular thoroughfare close by. He has a small greenhouse in connection, where a limited number of desirable plants may at all times be found.

Samuel Parker of the Melrose Floral Company states that business was good in his line and that the Easter trade was all that could be desired. J. M.

Bloomsburg, Pa.

The greenhouses on the estate of the late J. L. Dillon are very extensive consisting as they do of about 200,000 square feet of glass. The business is carried on without interruption of any kind. Mrs. Dillon and Mrs. Furman are the managing as well as executive heads of the establishment ably assisted by W. E. Bryfogle as grower and superintendent. Roses, carnations, and verbenas are the specialties of this place, most of which, so far as cut flowers are concerned, find their way to the wholesale markets in the larger cities near by. Their plant trade, however, goes all over the entire country; shipments were being made to Canada as well as many remote points in the Northwest.

More verbenas are grown here than any other class of plants. The propagation of these begins usually in September of each season; when rooted they are potted up in 2-inch pots. These plants then act in the double capacity of making good stock plants for the season's supply of cuttings as well as making good strong plants for early delivery where such stock is desired. Mr. Bryfogle states that they usually pot up about 60,000 in this way annually. In addition to this there are nearly as many again planted around the edges of the benches in both rose and carnation houses. It takes usually about 500,000 plants or rooted cuttings each season to meet the demand. About 100 different varieties are grown.

Mr. Bryfogle is an enthusiast on the subject of grafted roses. These are all grown in solid beds and allowed to remain from two to three seasons. Much more vigorous growth, and consequently better stems are to be had from the grafted stock than from own root plants, is the opinion of the growers here. For raised benches, however, where the plants do not remain so long, it was stated that plants on their own roots were preferable. American Beauty and Perle des Jardins are always grown on their own roots. The grafted stock of these varieties, it is claimed, is not as good as when the plants are

propagated in the ordinary way on their own roots.

The Davis Brothers Company have recently added some new houses and grow carnations chiefly. They have a new white, Mary Albert, that will be shortly offered to the trade. It is a cross between Flora Hill and G. H. Crane. They have also a second seedling, a cross between Queen Louise and a seedling of Scott and Argyle. J. M.

West Chester, Pa.

Joseph Kift, the well known florist, has here a very thrifty looking establishment right in the central portion of the city. What stock is not consumed by the local trade is shipped to Philadelphia to his brother Robert, who has a store at 1725 Chestnut street. The Easter trade here was entirely satisfactory; all available stock was sold at remunerative prices.

A hurried trip through the nurseries and packing sheds of the Hoopes Brothers & Thomas Nurseries showed a large and varied assortment of nursery stock in the course of preparation for shipment. Fruit trees and deciduous ornamental stock could be seen in cold storage by the hundreds of thousands. These are placed in the Fall in long tiers the length of the large storage room. The trees are placed top to top, the root ends forming a wall on either side of the tier in some places twenty feet high. In this way the roots are in position to receive attention such as an occasional moistening or covering as the weather conditions may require. James Farley, the foreman in the rose growing department, is something of a hybridist and has a few houses filled with young stock of his own production. He has many crosses chiefly of the Wichuraiana and climbing varieties that will be heard from soon. In a considerable sized corner of the grounds he has a collection of well-established, large specimens of his own production that show in their dormant condition a wonderful diversity of style and growth formation. It is said by experts that there are many valuable varieties in this collection that would be acquisitions to many of the classes to which they belong. J. M.

West Grove, Pa.

West Grove is everywhere renowned for its roses. The Dingee & Conard Company has by long years of successful propagation brought about this enviable reputation. At the time of your correspondent's visit there were on hand fully 700,000 marketable rose plants consisting of some 1,400 different varieties, and filling 71 large greenhouses. This stock consisted chiefly of the ordinary mailing sizes as well as the larger two-year-old plants usually grown in 4-inch pots. This, too, at a season when a couple of months of the shipping season had passed. The purchasers at that time along the Gulf Coast had been supplied, and the buyers in the Middle and Eastern States were just beginning to claim attention.

The business of this company is now well presided over by the affable P. J. Lynch, who is its executive head and business manager. In these duties he is assisted by his brother Henry, who is well qualified for the onerous duties in the official department of this company. Edwin Parker is the grower-foreman, the high priest of the incubating department, where the young tenderlings are turned out by the hundreds of thousands and nurtured until of sufficient strength to stand either a Kansas drought or an Alaskan blizzard.

Not far removed from the Dingee & Conard place are the greenhouses and nursery grounds of the Conard & Jones Company. This is a newer establishment and one of the largest plant producing corporations in the country. As its name implies it is a vigorous shoot of the parent plant that has already taken a position of confidence among the plant purchasers of the whole country. The entire growing and propagation end of the business is in the hands of Antoine Wintzer. A better selection could not be made anywhere. As a hybridist he is a past master of the art, and as a disciplinarian, grower and propagator he is at the head of his profession. Mr. Wintzer takes pleasure in showing visitors the results of his work among the great many new things he has under way.

All the popular roses are grown, some

Cyclamen

Splendens Giganteum Hybrids

This strain has no equal or better, in five true colors, including fringed varieties, twice transplanted from flats \$3.00 per 100, \$25.00 per 1000, from 2 1/2 in. pots \$5.00 per 100 \$45.00 per 1000.

Asparagus Plumosus Nanus

From 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 3 1/2 in. pots \$8.00 per 100.

Cannas

Started from Sandhed in variety as McKinley, Queen Charlotte, Florence Vaughan, Chicago, Papa, Egandala, J. O. Cabos, Alphonse Bouvier good plants \$3.00 per 100 \$25.00 per 1000. Satisfaction Guaranteed.

PAUL MADER,
East Stroudsburg, Pa

100,000

GERANIUMS

Finest stock in the country; most in bud and bloom. Polifavina, Nutt, D. Grant, Buchner, Ricard, Castellana, etc., heavy, 3 in., \$4.00; 4 in., \$5.00; 4 in., extra large, \$6.00 per 100. D. Grant, strong, 2 in., \$2.00 per 100.

DREYER'S superb single fringed PETUNIAS, VERBENAS, AGERATUM, LOBELIAS, SALVIAS, COLEUS, yellow, red, fan y large, 2 in., \$1.75 per 100; \$16.00 per 1000; large 3 in., \$2.50 per 100. Heliotrope, strong, 2 in., \$2.00 per 100.

CANNAS, Black Prince, McKinley, Chas. Henderson, West Virginia, etc., large 3-4 in., \$5.00 per 100. Cash please. All stock guaranteed No. 1 or your money back. Extras added to help pay expressage.

Am. Arbor Vitae, 1 1/2 ft. 6c.; 2 1/2 ft. 8c.; 3 1/2 ft. 10c.

Balsam Fir, 12-18 inches, 6c.

Hemlock, 10-15 inches, 6c.; 1 1/2-2 ft. 15c.

White Pine, 1 1/2 ft. 10c.; 2 1/2 ft. 20c.

All first class, transplanted stock, also larger sizes.

WM. S. HERZOG, MORRIS PLAINS,
N. J.

PANSIES

THE JENNINGS STRAIN.

A few more left; strong plants at \$1 per 100, transplanted, ready to bloom. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn.

Grower of the Finest Pansies

varieties not to be had elsewhere. Killarney, Maman Cochet, and Crimson Rambler were said to be in most demand. Pink and white Cochet, are great sellers. The yellow Cochet is no companion for the other two, being a poor grower and should never have been classed with the Cochets, as it is always disappointing compared to the vigor of the others of this color.

Several houses are devoted to the newer crosses and seedlings of Mr. Wintzer's own raising. His work is not of the haphazard sort. Every new variety is well understood. A correct pedigree of the parentage on both sides is preserved for generations back. This not only applies to roses but to cannas as well. In cannas Mr. Wintzer has a good many fine things in store for the future. The production of the smaller hardy outdoor stock is carried on with apparent little trouble or mishap. Several houses are filled with the hard wood cuttings of viburnums, hydrangeas, berberis, weigelas, and, in fact, all through the entire list of stock of this description. These are put in by the hundreds of thousands and transplanted from the cutting beds in the greenhouses to the open fields where they are set in rows sufficiently far apart to allow the cultivation with a wheel hoe the first season. The second season every alternate row is removed and they are then ready for cultivator by horse power. Acres of such valuable stock as this, too numerous in variety to mention, can be found here.

Mr. Wintzer called the writer's attention to a large block of the much talked about Iceberg blackcherry killed almost to the ground by the Winter. It is little better than the old Crystal White of twenty-five years ago, and on account of liability to get killed by an ordinary Winter in this climate will not again be popular except in a warmer climate. J. M.

GERANIUMS—GERANIUMS

READY MAY 1.

In bud and bloom, S. A. Nutt, La Favorite, Beauty de Polifavina, Mary Hill, A. Ricard, John Doyle, Jean Vaud, Marquis de Castellana, and other good varieties, 3 1/2 in. pots, \$5.00 per 100.
CANNAS, Florence Vaughan, Charles Henderson, Queen Charlotte, Duke and Egandala, 4 in. pots, \$5.00 per 100.
HELIOTROPE, 2 varieties, 3 1/2 in. pots, \$5.00 per 100.
VINCA, variegated, 3 in. pots, \$3.00 per 100.
VERBENAS, 3 in. pots, \$2.50 per 100.
SINGLE PETUNIAS, large flowering, 3 in. pots, \$2.50 per 100.
PARLOR IVY, 2 1/2 in. pots, \$2.00 per 100.
AGERATUM, dwarf blue, 2 1/2 in. pots, \$2.00 per 100.
VINCA, variegated, 2 1/2 in. pots, \$2.00 per 100.
NASTURTIIUMS, in variety, 3 in. pots, \$2.50 per 100.

Cash with order.

WM. J. CHINNICK, TRENTON, N. J.

PETUNIA "THE QUEEN"

This is something new in the PETUNIA order, a new double, extra fine, that requires no staking, 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100.

COLEUS, Golden Bedder, and other varieties, rooted cuttings, 60c. per 100; \$5.00 per 1000.

FUCHSIAS, in variety, 2 1/2 in. pots, \$3.00 per 100; R. C., \$1.50 per 100.

HELIOTROPE, in variety, 2 1/2 in. pots, fine, \$2.50 per 100; R. C., \$1.00 per 100.

SWEET ALYSSUM, 2 1/2 in. pots, fine, \$2.00 per 100; Capt. of Snows, 2 1/2 in. pots, fine, \$2.00 per 100; Little Gem, \$2.00 per 100.

LOBELIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.00 per 100.

AGERATUM, in variety, \$1.50 per 100; R. C., 80c. per 100.

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

HAPPY THOUGHT GERANIUM, \$2.00 per 100.

GERMAN IVY, R. C., \$1.50 per 100.

ENGLISH IVY, R. C., \$1.50 per 100.

SALVIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.50 per 100.

ALTERANTHERAS, R. C., 80c. per 100.

Cash with order.

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MOON VINE

Ipomoea Multiflora, (A. W. Smith, originator), best pure white largest and most fragrant moon vine in the world. We have made a specialty of it for the past 15 years and are known as the moon vine growers of America. Grow 20,000 of them, 2 1-2 in. pots, \$5.00 per 100; now ready.

Cash with order, please. All goods must travel at purchaser's risk only.

GODFREY ASCHMANN,
Importer and Wholesale Grower of Pot Plants.

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FUCHSIA

Little Beauty, strong thrifty plants, 2 1/2 inch ready for 4 inch, \$4.00 per 100.

Ferns Boston and Piersoni, 5 inch, \$25.00; 4 inch \$12.00; 3 inch, \$8.00 per 100. Barrowell, 5 inch, \$30.00; 4 inch, \$15.00; 3 inch, \$10.00 per 100.

Adiantum Croweana, 6 inch, 50c. each.

Ficus Elastica, 6 inch, 50c; 7 inch, 75c. each.

Begonia Thurstonii, 3 inch, \$8.00 per 100.

English Ivy, 3 inch, \$4.00 per 100.

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Imperial and Pink Imperial Carnations

You Cannot Afford to be Without these Two Excellent Varieties—
Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order.

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Prices of Rooted Cuttings by Express, 60 cents per 100; \$5.00 per 1,000.
GOLDEN BEDDEE, Golden Yellow—the old original, true to name. Rooted cuttings, 75c. per 100; \$6 per 1,000.

FANCY VARIETIES. In addition to those named we offer a fine stock of twelve kinds. 75c. per 100; \$6 per 1,000. Strong cuttings. Free from Mealy bugs.

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STELLA GURNEY, Dwarf Blue, 75c. per 100; \$6 per 1,000.

PRINCESS PAULINE, a combine of blue and white in same flower, 75 cents per 100; \$6 per 1,000.

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SPLENDENS, tall standard, one of the best, rooted cuttings, 75c. per 100; \$6 per 1,000.

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ROOTED CUTTINGS, 75c. per 100; \$6 per 1,000.

The 1000 rate obtains only when 250 or more of a variety are ordered.

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MAMMOTH VERBENAS 20 varieties, healthy plants from soil, \$1.00 per 100; \$9.00 per 1000.

SALVIA SPLENDENS raised from seed, transplanted into flats, large, strong plants, \$1.00 per 100.
ASTERS, mixed, Dreer's, Vick's and Sample's branching, transplanted, all healthy stock, 4c. per 100 \$3.00 per 1000.

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Begonia Gloire De Lorraine

The finest leaf cuttings obtainable
For delivery from May 1st, 2 1/2 in. pots \$12.00 per 100, \$100.00 per 1000.
Order at once.

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ALTERNANTHERA

60,000 plants in 2 in. pots.
Paronychoides aurea, nana and versicolor at \$25.00 per 1000; 500 at 1000 rate. No order for less than 600.
Ready for delivery May 1.

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Rooted Cuttings
\$5.00 per 1000

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Imperial Violet Clumps

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No. 1 clumps, 5c. each; \$5.00 per 100
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GERANIUMS in bud and bloom, fine stocky 4 inch Nutt, Doyle, Poitevine, La Favorite, Jaulin, Perkins, \$6.00 per 100. Mammoth Verbenas, 2 1/2 in. bud or bloom \$12.00 per 1000.

Pansies, extra fine plants, Bagnot's, Odler and Cassiers in bud, \$1.00 per 100.

Roses, Clothilde, Souperin, in bud and bloom 4 inch, \$10.00 per 100.

Salvia Splendens, 3 inch, \$3.00 per 100.

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STRONG, READY FOR 3 IN. POTS

Golden Bedder and 15 Fancy Bedding varieties. R. C., 50c. per 100; \$5.00 per 1000. **Crimson Verschaffeltii,** 75c. per 100; \$6.00 per 1000. **Coleus,** Giant Fancy Leaves, \$1.00 per 100. **Lobelia Compacta,** blue, R. C., 60c. per 100; \$5.00 per 1000. 2 in. pots, \$1.50 per 100.

Fuchsias, Best Varieties.....	2.00	3.00
Heliotropes, Dark.....	2.00	3.00
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Pansy Plants, 50c. to \$1.00 per 100; \$5.00 to \$8.00 per 1000.		

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Heliotropes and Fuchsias, \$1.00 per 100.
Ageratum, 75 cents per 100.

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VERBENAS

Fine seedlings, 40c. per 100; \$3.00 per 1000; 2 1/2 in. pots, \$2.00 per 100; \$15.00 per 1000.
Stocks, Phlox Drummondii, Salvia, Alyssum, German Ivy, Ageratum, Cigar Plants, out of 2 1/2 in., \$2.00 per 100; \$15.00 per 1000.

Pansies and Daisies, in bloom, \$1.50 per 100; \$12.00 per 1000.

Pansies that will bloom soon, 50c. per 100; \$3.00 per 1000.

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GERANIUMS

ROOTED CUTTINGS

S. A. Nutt, Grant, Buchner, and Perkins, \$10.00 per 1000.

Ricard, Poltevine and Castellane, \$12.00 per 1000. 3 in. pot plants, fine stock. **S. A. Nutt, Buchner, Grant and Doyle,** \$4.00 per 100; \$40.00 per 1000.

Cash with order.

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GERANIUMS

Gen. Grant, single and double; Nutt, \$2.25 per 100, \$20.00 per 1000. **Hill and Poltevine,** \$2.75 per 100; \$26.00 per 1000. Fine plants from 2 1/2 in., ready to shift. **Coleus,** 60c. per 100; \$5.00 per 1000. 30 varieties of Phlox led-grown, \$5.00 per 100. Cash please.

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AGERATUM, "Gurney," best dwarf blue. \$2.00 per 100.

VERBENAS, California Giants, seedlings, finest grown, mixed, strong 2 in., \$2.00 per 100.

PHLOX, New dwarf, Grand for pots. A good seller. Mixed \$2.00 per 100.

HELIOTROPE, Light and Dark, strong 2 1/2 in., \$3.00 per 100.

PELARGONIUMS, Fancy mixed, 3 in., \$6.00 per 100.

SALVIA BONFIRE, Finest grown, strong two inch \$2.00 per 100.

CASH. Extras added liberally.
JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.

Hydrangea Otaksa,

Asparagus Sprengeri,

Vinca Variegata, Smilax

Strong, clean stock, out of 2 1/2 in.,

\$2.50 PER 100.

John C. Hatcher

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THE QUEEN

a wonderful bloomer: flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, in bud and bloom 2 1/2 in. pots \$10.00 per 100. Rooted cuttings will make fine plants for Decoration Day, \$5.00 per 100. **Vincas,** variegated, 4 inch pots, strong plants, \$4.00 per 100.

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Joseph Traudi, Prop. Canajoharie, N. Y.

Your Money is well spent when you

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DRACAENA INDIVISA

Fine plants in 5 in. pots.

Per 100	
2-3 ft. high	\$15.00 and \$25.00
SHASTA DAISY, 3 in.	3.00
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Trailing LANTANAS	3.00
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CENTAUREA GYMNOCARPA, (dusty miller) 2 in.....	2.00

Cash with order please

GEO. J. HUGHES, Berlin, N. J.

FEVERFEW

Dwarf double, 2 in., 2c.
COLEUS, 3 inch, 2 cts.

CUPHEA, 2 in., 2c.

ELEGANTISSIMA FERNS, 2 in., 3c.

ROOTED CUTTINGS, prepaid per 100.

FUCHSIA, 6 kinds, \$1.25. **AGERATUM,** white, GURNEY, PAULINE, 60c. **VINCA VARIEGATA,** 90c. **SALVIA BONFIRE,** SILVERSPOT, SPLENDENS, 90c. **ALTERNANTHERA,** 3 kinds, 60c. **HELIOTROPE,** 3 kinds, \$1.00. **FLOWERING BEGONIAS,** 8 kinds, \$1.25. **PARLOR IVY,** 75c.; **DOUBLE PETUNIAS,** 10 kinds, \$1.00. **MUMS:** TRANTOR, ALLIANCE, PACIFIC, CHELTON, GOLDEN AGE, WEEKS, ENGELHARD and EATON, \$1.25. **STEVIA SERRATA,** and **VARIEGATA,** 75c. **CULEUS,** 10 kinds 5 c. **CUPHEA,** 2 kinds 60c. **SWANSONIA ALBA,** \$1.00. **PARIS DAISY,** white and yellow \$1.00. **ALEXANDRIA,** \$1.25. Seedlings, Dwarf and Tall, double stock, Antirrhinum, Grand White, pluk and yellow, \$3.00 per 1000.

Cash or C. O. D.

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ENGLISH IVY

R. C., 75c.; 2 in., \$2.00.

BEK BEGONIA, 2 in., \$3.00; 4 in., \$8.00.

ASPARGUS SPRENGERI, 2 in., \$2.00 per 100. **ARAUCARIA,** 60c. and 75c. each. **CANNAS,** Austria, \$1.50; America, \$1.50; D. Harum, \$2.00; Pennsylvania, \$1.50; E. Gray, \$3.00. **Marborough,** \$2.00; **Italia,** \$1.50; **A. Bouvier,** \$2.00; **C. Handerson,** \$2.00; **Egandale,** \$3.00 per 100.

Will exchange for Enchantress, Boston Market or Guardian Angel Carnations.

J. H. DANN & SON,
WESTFIELD, N. Y.

200,000 PANSIES

SUPERB STRAIN. READY NOW.

Fine, large Fall Transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you have ever handled. \$1.25 per 100; \$10.00 per 1000.

Cash with order.
LEONARD COUSINS, Jr.
CONCORD JUNCTION, MASS.

PLANT CULTURE

PRICE, \$1.00.

The best book for the plant grower.

A. T. DE LA MARE PTG. & PUB CO. LTD.
2-8 Duane St. New York.

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER.

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants, also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line 7 words to the line, set solid, without display. No advt. accepted for less than thirty cents.

Display advertisements in these columns, 15 cents per line; count 12 lines to the inch.

[If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]

Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having their names directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—Florist, young man, 18, 3 years' experience, wishes position; New York City only. Address, Richter, 107 West 62d Street, New York City.

SITUATION WANTED—By gardener and florist on private or commercial place. 31 years of age, German, single, 12 years' experience. Address, Charles Reichert, New Hackensack, Dutchess County, N. Y., care R. G. Malony.

SITUATION WANTED—Working foreman, 20 years' experience in roses, carnations, chrysanthemums and general stock. Wholesale and retail. First-class references. Address, G. E., care The Florists' Exchange.

A ROSE SPECIALIST would like to hear from those in want of foreman or manager on place where first-class stock is wanted. Address, ROSE, care The Florists' Exchange.

SITUATION WANTED—By young man, Swede, as greenhouse assistant. Experienced in roses, carnations, ferns and general stock. Retail or commercial place. Address, C. B., care The Florists' Exchange.

SITUATION WANTED—Young man of 20, intelligent, quick and willing, 9 years in commercial place, best of references, wishes place in greenhouses of private estate. Address, G. A., care The Florists' Exchange.

SITUATION WANTED—By a young American, aged 22, single, experienced grower of roses, carnations, chrysanthemums and general bedding plants. Address, Clarence A. Mannon, 374 Clinton Avenue, Newark, N. J.

POSITION WANTED by competent grower of roses, carnations and general stock. 20 year's experience, age 37, married, 2 years in present place, Middle West. Free May list. References. Address, J. B. M., care Chicago office of Florists Exchange, 127 E. Berwyn Avenue, Chicago.

SITUATION WANTED—A seedsman who has had a long experience in all branches of the trade, including nursery stock and plants, wishes to secure a position with a firm needing an earnest and hard working man. Address, Seedsman, care The Florists' Exchange.

SITUATION WANTED—Long experienced German gardener, 28 years old, married, two children two years in this country, seeks position as private gardener, or as first assistant on a large private place. Address, J. M., 69 Halstead Street, Irvington, Newark, N. J.

SITUATION WANTED—Horticulturist with long experience in orchids, palms and exotic plants; has been 5 years in tropical country, understands gardening in general, now at one of the well-known nurseries of New York State. Will give best of references in every detail; private place preferred. Address, A. P., care The Florists' Exchange.

SITUATION WANTED—On first-class commercial place by a steady, industrious young Swede, single, 26, 10 years' experience in roses, carnations, chrysanthemums and general stock. Quick worker and references. New York or Massachusetts preferred. Address, D. D., care The Florists' Exchange.

SITUATION WANTED—As working foreman on wholesale or retail place, 16 years' experience in cut flowers, flowering plants and a general line of miscellaneous stock. Will take nothing but a first-class place. Houses must be in good condition, grower of prize winning stock at both Fall and Spring shows. Single, aged 22; good wages expected; references. Address, Grower No. 1, care The Florists' Exchange.

SITUATIONS WANTED

SITUATION WANTED—By traveling salesman, up-to-date hustler, thorough experience in nursery stock, bulbs, seeds, perennials, making plans and estimates for landscaping, interviewing customers, etc. Please state particulars and arrange interview. Address, G. F., care The Florists' Exchange.

SITUATION WANTED—As foreman or manager of place. Good grower of cut flowers and plants, also nursery stock. Landscape engineer; 20 years' experience; total abstrainer; good references. Place preferred with which can be bought later. Would take position as superintendent or manager of private estate. Good wages expected. Address, Horticulturist, care The Florists' Exchange.

HELP WANTED

WANTED—A young man in retail florist store. Apply, 182 East 116th Street, New York City.

WANTED—Five florists and five nurserymen. Elizabeth Nursery Company, Elizabeth, N. J.

WANTED—An experienced man for watering in greenhouses. Wages \$12 per week. Apply, Peter Henderson & Co., Jersey City, N. J.

WANTED—At once, rose grower to take care of section of Killarney roses. Apply with references to E. G. Asmus Son, Closter, N. J.

WANTED—At once, a competent man as second man on private place. Must be single and sober. Address, G. C., care The Florists' Exchange.

WANTED—Single man to take care of shrubs, perennials, etc. No greenhouses. State references and wages expected. Address, H. E. F. H., Burlington, Vt.

WANTED—A good all-around florist for a downtown retail flower store in Chicago. Must come well recommended. Address, E. F., care The Florists' Exchange.

WANTED—Single young man as assistant in rose houses, position permanent. State reference and wages desired. Thorn Hedge Greenhouses, New Town Square, Pa.

WANTED—Single man in greenhouses; asparagus, similar and chrysanthemums. Steady position. State wages. Address, M. T., care The Florists' Exchange.

WANTED—Gardener, single, assistant with experience under glass. Reply to Gardener, Care R. & J. Farquhar & Company, 6 South Market Street, Boston, Mass.

WANTED—At once, a good all-around gardener as first man on private place. Must be sober; married man preferred. Address, G. D., care The Florists' Exchange.

WANTED—A married man with knowledge of growing carnations. Must be sober and reliable. State age. \$60.00 per month. Frank Niquet, Patchogue, N. Y.

WANTED—Good man for greenhouse work where roses are grown. Must have good references. Wages \$35.00 month, room and board. Address, W. B., care The Florists' Exchange.

WANTED—Single man as assistant rose grower on commercial place; steady position to good man. Give references and wages expected with board. Dean & Company, Little Silver, N. J.

WANTED—A working foreman on a commercial place. Grower of roses, carnations and chrysanthemums. Must be sober, honest, industrious and capable. Address, W. E. Gravett, East Wheeling, Lancaster, O.

WANTED—Young man to work on pleasure grounds and kitchen garden, also around flower beds. Wages, \$25.00 per month, board and room. Apply, Thos. L. Talbot, Enerslie, Rhinecliff, N. Y.

WANTED—A good grower of roses, carnations, chrysanthemums and general stock. Wages, \$50.00 per month and board. Send references. Address, M. E., care The Florists' Exchange.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets, in the middle West. Married man preferred. State age, nationality, wages, etc. Address, G. H., care The Florists' Exchange.

WANTED—An assistant in rose houses where American beauty only are grown. A permanent position the right man. Single man preferred. Address, Frank Dolan, care John Young Company, Bedford Station, N. Y.

WANTED—For Western city, first-class experienced grower and forcer of blooming plants and bulbous stock for large retail trade. Must be good manager and show satisfactory record in same line. Address, M. C., care The Florists' Exchange.

WANTED—Working foreman for a commercial place who must be a first-class plantsman, capable of growing a general line of decorative plants of first quality also bedding plants. State age, qualifications and wages expected. Address, G. P., care of The Florists' Exchange.

HELP WANTED

WANTED—Expert help in our greenhouses where nothing but cut flowers are grown for a high-class trade. Also a good chrysanthemum grower and pot man. State salary and experience in first letter. Florist, 1035 Prospect Avenue, Cleveland, Ohio.

WANTED—A sober, competent man to grow carnations, violets, asters and bedding plants. One capable of taking charge, if necessary, of 30,000 feet of glass. Good wages to the right man, state experiences, wages, etc. Paul E. Richwagen, Needham, Mass.

WANTED—A foreman for an Eastern establishment; married man preferred, as good house is provided. Must be an all-around grower of roses, carnations and chrysanthemums, etc. and of strictly sober habits. No other need apply. State experience with references and full particulars. Address, G. M., care The Florists' Exchange.

MISCELLANEOUS WANTS

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WILL EXCHANGE OR SELL, R. C. mums, Princess violets, Beauty of Nice stock seed for geraniums and other bedding plants. Waverly Greenhouses, Tuckahoe, N. Y.

WANTED TO RENT—Two or three greenhouses, near New York, with few acres of land. State full particulars when writing. Address, Rudolph Seydenhelm, 1823 First Avenue, New York City.

WANTED TO LEASE—On or about 15th of June, with privilege to buy, a commercial place, about 8,000 to 15,000 sq. ft. of glass; must have some ground and dwelling within 10 miles of New York City. Address, G. B., care The Florists' Exchange.

WANTED—Cannas, Caladiums, named and choice mixtures of Gladioli, Geraniums, Ferns, Vinca's, Salvia's, Rooted Rose Cuttings, Hardy Perennials, in exchange for No. 1 whole field clumps A. D. Laveni Dahlia, beautiful sea shell pink. Postum Cereal Co., Ltd., Garden Department, Battle Creek, Mich.

FOR SALE OR RENT

FOR SALE—At a bargain, on easy terms, at Madison, N. J., range of greenhouses comprising 25,000 ft. of glass, 12,000 one year old plants in beds and 12,000 in 2 to 4 in. pots. Lot 150 x 300. Edward L. Cook, Madison, N. J.

FOR SALE—Six greenhouses, situated on corner Ferris street and Eastern Boulevard, Westchester, New York City. Go and see this property and mail your offers to V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE—Four greenhouses, dwelling house, barn, seven acres land, horse, wagons, etc. One mile from station; 30 miles from New York. Price reasonable. Address, M. O., care The Florists' Exchange.

FOR SALE—A great bargain, retail florist store at 232a Ralph Avenue, Brooklyn, with small greenhouses attached. Established 13 years. Must be sold on account of leaving city. Address, owner, J. M. Schwarz, 232a Ralph Avenue, Brooklyn, N. Y.

FOR SALE—Florist business, at a bargain; good-will and fittings, refrigerators, etc., of the only flower store in thriving town near N. Y. City. Coast summer resorts near by. Splendid opportunity for young man with little money. Nursery business reason for selling. Address, Flower Store, care The Florists' Exchange.

FOR SALE—Desirable greenhouse plant, directly opposite Spring Forest Cemetery, Binghamton, N. Y. Large and increasing demand for funeral designs and bedding stock. Care of cemetery plots big item in trade. A dwelling house, 10,000 feet of glass; land comprising 20 city lots. Paying business and open chance for increase. Sold on account of advance in years. Apply to J. E. Tuttle, 47 Spring Forest Avenue, Binghamton, N. Y.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousands of feet were erected, and at present a shipping of large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; one better; and is doing a large business all through the season. Address, E. Hippard, Youngstown, O.

A Golden Opportunity

FOR SALE—A fully equipped mushroom plant containing 50,000 sq. feet of beds, perfect heating system, everything in perfect running order, price \$16,000. Advertiser is going to devote himself exclusively to mushroom spawn business. Possession given at once. Convenient to best market. Products sold yearly on Longfellow, Toledo, Lincoln and Bryn Mawr Aves. Bowmanville, Chicago.

FOR SALE OR RENT

A greenhouse property of 20,000 square feet of glass; all in good order, heated by an excellent steam plant, and supplied with city water. Within twenty-five minutes of center of city. Not necessary to take any stock with the plant. **SAMUEL J. BUNTING**, Elmwood Av. & 58th St., Philadelphia, Pa.

STOCK FOR SALE

DAHLIAS, 250 varieties of strong, field-grown roots; 25 named varieties for \$1.00. Catalogue free. C. Peirce, Dighton, Mass.

GLADIOLI, Groff's Hybrids, May and others. Seed ad. of March 23. Send for list. John H. Umpleby, Lake View, N. Y.

FUNKIA VARIEGATA clumps, \$6.00 per 100. Chrysanthemum, Nonin, finest late white, R. C., \$2.00 per 100. H. Pladeck, Elmhurst, N. Y.

ROSES, Bride, Bridesmaid, Ivory, 2 in. pots, thrifty plants, \$2.00 per 100; \$25.00 per 1000. Wm. B. Sands, Lake Roland, Baltimore, Md.

JAPAN IRIS (Iris Kaempferi), white, \$5.00 per 100; mixed, \$4.00 per 100. Good roots, not seedlings. Wm. F. Halsey, Southampton, N. Y.

GROFF'S Hybrid Gladioli, genuine, all colors, No. 1 \$3.00 per 1000; \$1.00 per 100; No. 2 \$5.00 per 1000; 60c. per 100. A. B. Powell, Camden, N. Y.

FINE, stocky plants of Salvia Bonifera, 40c. per 100; \$3.00 per 1000. Ball of Fire and Scarlet Dragon, \$1.00 per 100. Cash, R. Powell, Florist, White Plains, N. Y.

BABY RAMBLER ROSES, fine dromost stock, one year, \$12.00 per 100; 2 1-4 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1000. Orders booked for delivery now or at any time up to late Spring. Samples free. Broke Brothers Company, Rochester, N. Y.

VIOLETS, strong, healthy rooted runners of California, Princess, and Campbell, at \$1.00 per 100. Carnations, strong, healthy cuttings from soil; they are fine. Crocker, \$2.00 per 100; Hill, Crane, Queen, \$3.00 per 100. W. C. Pray & Company, Klakora, N. J.

BARBERRY THUNBERGII, 18 to 24 in., 4c.; 2 to 2 1/2 ft., 6c. Forsythia viridissima, 2 to 3 ft., 4c.; 3 to 4 ft., 6c. Tamarix Africana, 3 to 4 ft., 4c.; 4 to 5 ft., 6c.; 5 to 6 ft., 7c. Virginia Creeper, 3 yr. strong, \$4.00 per 100. Yucca, strong clumps, \$5.00 per 100. This is all first-class stock and a bargain. The Red Bank Nursery Company, Red Bank, N. J.

GARDENIAS, in 2 1/2 in. pots, ready for 4 in., \$3.00 per 100. Boston ferns, 5-5 1/2 and 6 in. pots, 25c., 35c. and 40c.; large enough for 6 and 7 in. pots. Scott's ferns, 5 and 6 1/2 in. pots; large enough for 6 and 7 in. pots, 30c. Boston and Scott's, 8 in. \$1.00 each. Carnations, Queen Louise, from soil, \$1.50 per 100; \$10.00 per 1000. Dracena Indivisa, 4 in. pots, \$10.00 per 100. Cash with order. Brabander & Cornells, Somerville, N. J.

FOR SALE

From 30 to 50 second-hand hot-bed sash in good condition. Send lowest price to Jas. Martin, Fairport, N. Y.

FOR SALE—200 boiler tubes, each 17 ft. long by 3 1/2 in. in good condition for greenhouse piping. For further particulars apply to the Albany Felt Company, Albany, N. Y.

FOR SALE—Greenhouse material sod hot bed sash, milled from Golf Cypress to any detail furnished. Oxford putty, specially made for greenhouse and hotbed sash. V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

3,000 ft. of 4 in. cast iron pipe, with valves, 500 ft. of 3 and 10 in. cast iron pipe. 3 boilers of Lord & Eurnham make, No. 15. Can be seen at Parson's Nurseries, Flushing, L. I. Make your price on any part of this lot and mail to V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE QUICK

Nearly new, 6000 ft., 4 in. Cast Iron pipe. Make your bid and send 10 per cent. with your offer. Rights reserved.

D. S. Beach & Sons, Dridgeport, Conn.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. **KROESCHELL BROS. CO., 33 Erie St. Chicago**

Thirty cents is the minimum charge for advertisements on this page.

FOR SALE

BOILERS No. 8 Weathered, round, \$90.00. One 8 section Sturay hot water sectional boiler, grade 3 by 3. Price \$150.00. New Henderson boiler; send for price on also wanted. One No. 387 Lord & Burnham hot water boiler, 7 sections, 36 in. grate, heat 8,000 sq. ft. of glass, used one season, price \$150.00, guaranteed.

PIPE Good serviceable second hand. No Junk. New with new threads. 2 in. 7c.; 1 1/2 in. 5 1/2c.; 1 1/4 in. 4c.; 1 in. 3c.; 2 1/2 in. 10c.; 3 in. 14c.; 4 in. 18c.; 4 in. cast iron greenhouse 14c. ft. All kinds of fittings for tin, cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy working, No. 1 cuts 3/4 x 1 in. \$3.00; No. 2 cuts 1 1/4 x 2 in. \$4.00; Armatrough Adjustable No. 2 cuts 3/4 x 1 in. \$4.00; No. 3 cuts 1 1/4 x 2 in. \$6.50.

PIPE CUTTERS Sanders, No. 1 cuts to 1 in. \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed. 12 in., grips 1 1/2 in. \$1.10; 18 in., grips 2 in. \$1.50; 24 in., grips 2 1/2 in. \$2.25; 30 in., grips 3 1/2 in. \$4.50.

PIPE VISES Reed's Best Hinged Vise, No. 1 grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in., guaranteed; 3/4c.; for heavy work, guaranteed; 12 1/2c.

HOT-BED SASH New: Onlf Cypress, 3 ft. x 6 ft. 80c.; glazed completely \$1.00 up. Second hand each glazed \$1.25, good condition.

GLASS New American, 60 ft. to the box. 10x12 single at \$1.80. 10x12, 12x12 10x16 B double \$2.52. 12x14 to 12x 20 and 14x14 to 14x20 B double \$2.78. 16x18 and 16x18 B double \$3.00. 18x20 to 18 x 24 double \$3.25 per box. 6x8, 7x8, 8x10 old, single \$1.50. 8 x 10 old, single \$1.50.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

METROPOLITAN MATERIAL CO. Greenhouse Wreckers 1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

CALIFORNIA PRIVET. All sizes, \$10.00 to \$10.00 per 100; 7 to 8 ft., \$7.50 per 100. Cash with order. Packing free.

Atlantic Coast Nurseries, 605 4th Ave. Asbury Park, N. J.

TO EXCHANGE CARNATIONS From Soil, ready to plant out. 100 \$1.00 200 \$2.00 300 \$3.00 400 \$4.00 500 \$5.00 600 \$6.00 700 \$7.00 800 \$8.00 900 \$9.00 1000 \$10.00

FOR SALE Specimen LATANIA BORBONICA, in twenty-nine (29) inch cypress boxes, having from nine (9) to eleven (11) leaves and with about ten foot spread. Also smaller plants in seventeen (17) inch cypress boxes, having nine leaves and a spread of about six to seven feet.

JOHN RALPH, Florist, Saratoga Springs, N. Y.

ORCHIDS Largest Importers, Exporters, Growers and Hybridists in the world. Sander, St. Albans, England and 235 Broadway, Room 1, New York City

ORCHIDS Arrived in fine condition, Cattleya Harrisoniae, C. Intermedia, C. Gignea, C. Trianae, Spelaeosolma, C. Leopoldii, Laelia Purpurata, Oncidium Varticosum Rogersii, O. Marshallianum, Phalaenopsis Amabilis and P. Schilleriana. Write for prices.

LAGER & HURRELL, Summit, N. J. Growers and Importers

ASPARAGUS PLUMOSUS 2 1/2 in., \$3.00 per 100; 4 in. \$10.00 per 100. Write for list of Mums, Bridesmaids, Gates, Ivory, Kaiserin, Brides, 2 in., \$3.00 per 100

THE FLORISTS' EXCHANGE, Franklin & St. Paul Sts, BALTIMORE, Md.

PALMS AND FERNS Write for Price List. The Geo. Wittbold Co. 1657 BUCKINGHAM PLACE CHICAGO

Prices Advertised in these Columns are for

10,000 FERNS YOU MUST HAVE

Boston, 8 in. 25c.; 4 in. 15c.; 3 in. 8c.; 2 1/2 in. 3c. Piersoni, 8 in. 25c.; 4 in. 15c.; 3 in. 8c.; 2 1/2 in. 3c. Scottii, 6 in. 35c.; 4 in. 15c.; 3 in. 8c.; 2 1/2 in. 4c. Barrowsii, 4 in. 20c.; 2 1/2 in. 6c.

Also 10,000 potted Cossas, 4c. Per 100

- 2000 Ampelopsis Veitchii, pot grown and staked, long tops, \$4.00
2000 Clematis Paniculata, 1 year old, pot grown, 2 year 10c. 4.00
1000 English Ivy, 3 1/2 in. pot grown, heavy, long tops, 6.00
3000 Viola Major, variegated, 2 1/2 in. pot plants, 2.50
Tritoma Uvarin, strong roots, 4.00
600 Eriophyllum Radicans, variegated, 2 1/2 in. pots, 6.00
1000 Hydrangea Otakae, 2 1/2 in., 2.50
2000 Hydrangea Panonata Grandiflora, 3 year old, 8c.; 2 year, 6c.; 1 year, 4c.
2000 Spirea Anthony Waters, 3 year old, 8c.; 2 year, 4c.
500 Variegated Weigela and Rosen, 8.00
6000 Crifolia Privet, 2 1/2 to 3 ft., \$2.50 per 100
100 12 to 18 in., 1.00
1000 Hellebore Honeycuckie, 2 year old, 4.00
Baby Rambler, 2 year old, 6 in. pots, 15.00
3000 Madeira Vine roots, \$3.00 per 1000
1000 Stoeckia Cyanea, pot grown, dormant, 3c.
500 Caladium Esculentum, 7x9, 6c.; 6x7, 3c.
XX Japan Snowball, 3 ft 15c.
5000 Carnations from flats ready to plant, 2.00
6000 Best Commercial Chrysanthemum, 2 1/2 in., 2.50

BENJ. CONNELL, West Grove, Pa.

FERNS

Boston, Piersoni, Barrowsii, Elegantisima, 4 in. 15c.; 5 in., 25c.; 6 in., 50c.; 7 in., 75c.; 8 in., \$1.00; 9 in., \$1.25; 10 in., \$1.50. Whitmani, 4 in., 35c.; 5 in., 50c.; 6 in., 75c.; 8 in., \$1.00; 9 in., \$1.25; 10 in., \$1.50; 11 in., \$2.00; 12 in., \$2.50; 13 in., \$3.00. Kentia, 4 in., 25c.; 5 in., 30c.; 6 in., \$1.25; 8 in., \$1.50; large plants, \$2.00 to \$35.00 each. Lantana, 2 in., 3c.; 3 in., 6c.; 4 in., 15c.; 5 in., 25c.; 6 in., 50c.

All kinds of bedding plants at reasonable prices. Hardy Rhododendrons, Azaleas, Dutchman's Pipe Vines, Clematis, etc., Boxwood from 20c. each to \$5.00.

John Bader, MT. TROY, ALLEGHENY, PA.

WHITMANI FERN

2 1/2 in., \$10.00 per 100. Scottii Ferns, 2 1/2 in., \$5.00 per 100.

Ampelopsis Veitchii, pot grown and staked, 4 in. pots, \$10.00 per 100.

Hardy Ivy, 3 branches, 10 to 18 in. in length, 3 in. pots, \$5.00 per 100.

Kentia Forestiana, 4 in. pots made-up, strong and bushy, \$25.00 per 100. 5 in. pots, made-up strong and bushy, \$50.00 per 100. No order for less than 10 plants accepted.

CHAS. H. CAMPBELL, 3601 GERMANTOWN AVE., PHILA., Pa

FERNS MY SPECIALTY

Please notice the big reductions. Cthotium Schiedii, the king of Ferns, well-known for its unequalled beauty and great keeping qualities. Very easily grown: 4 in. pots \$40.00 per 100; 5 " " 60.00 " " 7 " " 1.70 each. 10 " " Large specimen, \$5.00 each.

Assorted ferns for Jardiniers, in all the leading varieties, \$3.00 per 100, \$25.00 per 1000; 500 at 1000 rate. Fresh Fern Spores, Choice collection in 55 varieties, true to name, including all the best market sorts. 30c. per trade package; \$3.00 per doz.; \$12.00 for the whole collection. Write for list of varieties.

J. F. ANDERSON, Successor to Anderson & Christensen, SHORT HILLS, N. J.

NEPHROLEPIS

Whitmani, 2 1/2 in., \$10.00 per 100. Boston, 2 1/2 in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass. Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round

JOHN SCOTT, Roland Road & E. 5th St., BROOKLYN, N. Y. Telephone 2890 Bedford.

Newport, R. I.

Messrs. Wadley & Smythe have purchased of Captain J. P. Cotton the Newport Nursery. This nursery was started about fifteen years ago by the late L. D. Davis and others. A few years after its incorporation trouble overtook the company, with the result that Captain J. P. Cotton, one of the largest stockholders, assumed responsibility and took over the nursery, operating it on his own account until the sale to Messrs. Wadley & Smythe. The Newport Nursery is fairly well stocked; there is an especially fine lot of large evergreens, all of which Mr. Smythe will utilize in the near future on places he is grading.

Gibson Brothers are doing a large business in their new store on Washington square. Their greenhouses on Malbone avenue are fuller than ever before with choice bedding stock.

There is a large demand for Red Erfordii begonias; ten thousand will be planted on one estate.

Andrew Christensen is now established on Russel avenue as a landscape gardener; he will erect greenhouses as soon as he gets straightened out a bit.

If there has been one department of the City of Newport that escaped public criticism as to the manner in which

ADIANTUM FARLEYENSE

Good, thrifty stock, 3-4 in.

ROSES Grafted and Own Roots, Killarney, Richmond and Beauties.

POINSETTIA STOCK Strong plants from bench.

THORN HEDGE GREENHOUSES, NEWTOWN SQUARE, PA.

BOXWOOD

For Window Boxes and Hotels!

Nice and bushy, from 8 in. to 1 1/2 feet high. \$25.00, \$30.00, \$35.00, \$40.00, \$45.00 and \$55.00 per 100. Well shaped PYRAMIDS in tubs, 3 1/2 feet high and upwards, \$3.00, \$4.00, \$5.00, \$6.00, \$7.00, \$8.00, \$9.00, \$10.00 per pair. No charges for packing. Cash with order.

ANTON SCHULTHEIS, P. O. Box 78, COLLEGE POINT, L. I., N. Y.

FERNS

Assorted, for Jardiniers, strong, healthy plants, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

Boston Ferns, from bench, ready for 5 in. pots, \$10.00 per 100.

FRANK N. ESKESEN, Main St., Madison, N. J.

FERNS

BOSTON FERNS 2 1/2 in. \$3.00 per 100. 4 in. \$10.00 per 100. COLEUS, Golden Bedder and Verschaffelti, 2 1/2 in., \$2.50 per 100.

LARCHMONT NURSERIES, Larchmont, N. Y.

ROBERT CRAIG & CO ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts. PHILADELPHIA, PA.

FERNS FERNS

We now have them in 6 in. shape suitable for Jardiniers, etc. \$3.00 per 100. Boston or Scottii Ferns, 2 1/2 in., \$3.00 per 100; 4 in., \$12.00 per 100; 6 in., 40c. each. Dracaena Indivisa, 6 in., 35c. and 60c. each. English Ivy, 4 in., \$10.00 per 100. Kentia Belmoreana, 6 in., 60c. and 75c. each; 2 1/2 in., 10c.

H. WESTON, Hempstead, N. Y.

it had been conducted, that was the department of public parks under the superintendence of Eugene Hughes, who recently severed his connection with that department. Last week bids were opened by the park commissioners for the care of these parks and in addition thereto the care of a new system for public comfort situated on Washington square. William H. Maher was the lowest bidder and secured the contract.

Good single men capable of greenhouse work are still in demand here, and indications point to the employment of every available man for outdoor work when planting gets fully under way. Donald Shepherd, who is superintending the improvements and alterations on the estate of W. R. Roelker at East Greenwich, is having a good deal of trouble in securing help in sufficiency to bring things to a satisfactory conclusion this Summer. Mr. Shepherd intends planting extensively in shrubs and hardy perennials and roses.

The qualified intimation in a recent issue of The Florists' Exchange of the withdrawal from business of the Faddons (Mrs. Hura) has been fully verified by recent happenings and finally by the closing of the store on Bellevue avenue. This retirement from business of one firm and the removal to another location of Gibson Brothers sweeps the avenue clean of strictly so-called local florists, leaving that fashionable thoroughfare also for more than seven months of the year without an open florists' store. The firms from New York coming here every Summer are Hodgson, Wadley & Smythe, Leikens and Siebrecht. There are vague rumors of the further invasion of Newport by a well-known florist now doing business in one of the large cities, the question of location being so far somewhat of an obstacle.

The troubles and perplexities of the members of the Florists' Club of Columbus, Ohio, as related from time to time in the columns of The Florists' Exchange and other horticultural journals, in connection with the attempt made by that body to receive permission from those in authority to deliver semi-grants or for a penny a-piece packages of seeds to school children, are interesting. We living in Newport try once in a while to do a little in the way of encouraging a fondness for plants and flowers on the part of school children whose home surroundings are usually bare of such adornment, and happily we receive from those in authority permission to do what has been proposed; but we also receive from them all the aid and encouragement possible. Here, however, the plan of supplying seeds at the rate of a penny a packet has not been adopted; instead of that a great number of substantial cash prizes are offered for exhibits of flowers and vegetables by children, leaving the matter of the purchase of seeds to the discretion of the children and their parents. In addition it is hoped to have at a number of schools gardens cultivated systematically by children, for which liberal premiums are offered by the society.

James Murray, for nearly twenty years gardener for Henry Clews, is very ill in the Newport Hospital. Mr. Murray during his long residence in Newport has endeared himself to all classes of the community and now that his condition has been announced critical much sympathy is expressed for him and his family. D. M.

A Few Good Things You Want

Cash with Order. Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100. Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100. Geraniums, S. A. Nutt. John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellanae, Poltevine and Viand, 2 in. pots, \$3.00 per 100. Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100 Boston Ferns, 5 in., 30c. each. Vinca Var., 2 in., \$2.00 per 100. Gladiolus, blooming bulbs, extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000. Primula Onchocia, 3 in. in bloom, \$5.00 per 100. Heliotropis; Coleus, red and yellow; Ogar Plants; Verbena; Scarlet Sage, 2 in., \$2.00 per 100.

Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s; properly packed in good order. GEO. M. EMMANS, Newton, N. J.

The Largest Growers of Chrysanthemums in America

Rooted Cuttings from sand Ready April 1

White		Per 100	Per 1000	
Estelle	.....	\$2.00	Yellow Jones	..... \$2.50
Geo. S. Kalb	.....	2.00	Yellow Eaton	..... 2.50
Mrs. Robinson	.....	2.00	Col. Appleton	..... 2.00
T. Eaton	.....	2.50	Mrs. Geo. Beech	..... 2.50
Mayflower	.....	2.00	Roi d'Italia	..... 2.00
Wanamaker	.....	2.00	Chas. Cronin	..... 2.50
Ivory	.....	2.50	Percy Plumridge	..... 2.00
Mrs. Swinburne	.....	2.50	Maj. Bonnaffon	..... 2.00
C. Touset	.....	2.00		
Mrs. Jerome Jones	.....	3.00		
W. H. Chadwick	.....	3.00		
			Pink	
			L. Filkins	..... 2.00
			Pink Ivory	..... 2.50
			Rosiere	..... 2.00
			Lady Harriet	..... 3.00
			Glory of Pacific	..... 2.00
			Wm. Duckham	..... 2.00
			Mrs. Perrin	..... 2.00
Yellow		Per 100	Per 1000	
Monrovia	.....	3.00		
Golden Chadwick	.....	3.00		
Yellow Mayflower	.....	2.00		

Roses from 2 1/2 inch pots

	Per 100	Per 1000		Per 100	Per 1000
Brides	\$3.00	Rosalind Orr English	.....	\$4.00
Bridesmaids	3.00	Chatenay	.....	3.00
Richmond	3.00	Uncle John	.....	3.00
Pink (cont'd)		Per 100	Red		Per 100
Mrs. Mary Mann	\$2.50	Intensity	.....	\$2.00
Marie Liger	2.00	Oakland	.....	2.00
Monogram	2.00	Black Hawk	.....	2.00
Cash	2.00			

WIETOR BROS., Wholesale Growers of Cut Flowers **51 Wabash Ave. CHICAGO**

WELL ROOTED HEALTHY STOCK

CARNATIONS

Well Rooted Cuttings

	Per 100	Per 1000
PINK		
Lawson	..... \$1.50	\$10.00
Nelson	..... 1.50	10.00
LIGHT PINK		
Enchantress	..... 2.50	22.50
VARIEGATED		
Mrs. Patten	..... 2.50	22.50
WHITE		
Boston Market	..... 1.25	10.00
White Lawson	..... 3.00	25.00
RED		
Robert Craig	..... 6.00	50.00
Cardinal	..... 2.50	20.00

ROSES

Strong and Well Rooted Cuttings

	Per 100	Per 1000
Richmond	..... \$1.50	\$12.50
Bridesmaid	..... 1.50	12.50
Bride	..... 1.50	12.50
Sunrise	..... 3.00	25.00
Uncle John	..... 1.50	12.50
Chatenay	..... 1.50	12.50
Ivory	..... 1.50	12.50

ROSE PLANTS

From 2 1/2 inch Pots. Ready for Shipment.

Richmond	.....	\$2.50 per hundred
Bridesmaid	.....
Uncle John	.....
Chatenay	.....	\$22.50 per thousand
Brides	.....
Ivory	.....
Liberty	.....	\$4.00 per hundred
Perle	.....	\$35.00 per thousand
Sunrise	.....	\$5.00 per hundred
	.....	\$40.00 per thousand

Killarney 2 1/2 inch pots Crafted Stock. \$12.50 per Hundred

BENCH PLANTS, American Beauty, \$10.00 per 100; \$75.00 per 1000
Liberty and Pearl, \$5.00 per 100; \$40.00 per 1000

PETER REINBERG, NO. 51 WABASH AVENUE, CHICAGO

Washington, D. C.

It is probable that the flower beds in the yards surrounding the Treasury Building will occupy their customary places this Summer, but on a more extensive scale. A short while before Secretary Shaw retired he gave orders that the flower beds be abandoned. Since Mr. Cortelyou has assumed the secretaryship, however, it is understood that preparations are being made to enlarge the beds, plant more flowers, and make the display more elaborate than ever before. The proposition to do away with the beds is said to have been due to the belief that they were not in keeping with the immense building of the United States Treasury. The beds were not unusually large nor particularly beautiful, and Mr. Shaw decided that the lawns would look better without them. According to the present plans the beds are to be much larger than of old and greater preparation will be made in arranging the display.

Notwithstanding the very unseasonable weather the past week, during which time growers have again had to resort to their fires, trade has been good and prices equally so. The sudden drop in temperature from the nineties to below freezing seemed, in a general way, to reduce the supply, especially of carnations.

The plants of many of the local growers are between crops, and the cut is correspondingly small. Stock, however, is banded to better advantage by reason of the cold wave. There has been quite an amount of funeral work owing to the deaths of several prominent persons; a good many society dinners have also claimed the attention of the decorative artists. There have been a few marriages also.

Plums, pears, and some varieties of cherries are in most profuse blossom, and baffling with the cold. Grave apprehensions are felt relative to loss of the fruit by frost, but with the exception of a few instances, the constant wind, though cold, has kept the blossoms dry, and to this time the loss has been small. The early gardens are being greatly retarded; many persons during the torrid wave in March planted all kinds of seed. Peas are up, but at a standstill; and the other seeds either lie dormant or have decayed in the earth.

JAS. L. CARRERY.

TERRYVILLE, CONN. — Edward Fenn, florist, remains in a critical condition at his home on High street. He has been ill all Winter, but was worse than usual last week.

FOR A SHORT TIME ONLY. Chrysanthemums, strong, rooted cuttings, per 100 \$1.00; per 1000, \$10.00; 2 1/2 in. pots, per 100, \$1.50. These are *Glory of the Pacific* and *Polly Rose* in mixture. *Holletrope*, R. O., per 100, 75c.; 2 1/2 in. pots, per 100, \$1.75; unrooted cuttings, per 100, 35c. Cash with order please.

PATERSON ROSE CO., Paterson, N. J.

Chrysanthemums

WHITE.

Early—Willowbrook.
Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka.
Late—Mrs. McArthur.

PINK.

Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, Ethelyn, A. J. Balfour, William H. Duckham, Dr. Enguehard.
Late—Maud Dean, The Harriott.

YELLOW.

Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham.
Late—Major Bonnaffon, H. W. Reiman.
Root Cuttings, \$2.00 per 100; \$15.00 per 1,000.

The 1000 rate obtains only when 250 or more of a variety are ordered.

A. N. Pierson, Cromwell, Conn.

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Novelties and all the standard varieties. *MOSCHOSMA RIPARIUM*, a valuable new Christmas flowering plant. Write for descriptive circular and price list.

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Chrysanthemums

OUR SPECIALTY

Nathan Smith & Son Adrian, Mich.

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ROOTED CUTTINGS

Sonnaffon, Dr. Enguehard, Halliday and others, \$10.00 per 1000. Unrooted Cuttings, \$5.00 per 1000. Cash with order.

JACOB KOL, Walnut Street and Avondale Road, EAST NUTLEY, N. J.

CHRYSANTHEMUMS

Bonnaffon, Ivory, Appleton, Enguehard, Robinson, 2 1/2 in., \$2.00 per 100; \$17.50 per 1000. *SALVIA* and *HELIO-TROPE*, 2 1/2 in., \$2.00 per 100. *DOE-BEANT CANNAS*, named varieties, \$2.50 per 100; assorted, \$1.50 per 100. Cash with order please.

W. H. PARSIL, R. F. D. Chatham, N. J. No. 8.

Chrysanthemums

Major Bonnaffon, white and pink; Ivory, Halliday, Yellow Jones, Enguehard, McArthur, Collingford, Estelle and Brutus rooted cuttings and a few in 2 1/2 in. pots, \$1.25 per 100; \$10.00 per 1000; 500 at 1000 rate. Cash.

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Looking for a good, late, Yellow MUM?

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GOLDEN DOME

There is nothing to equal it. Stock ready now. \$35.00 per 100; \$5.00 per dozen.

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Place your orders early for rooted cuttings. Price \$6.00 per 100. \$50.00 per 1000. 43 W. 28th St. NEW YORK. Grower, LYNNBROOK, L. I.

Aristocrat Beautiful cerise, ready for immediate delivery. \$12.00 per 100. \$100.00 per 1000. The variety nearly every florist will grow. Get your order in now and be in line.

White Perfection The best pure white carnation on the market. First class cuttings for immediate delivery. \$6.00 per 100. \$50.00 per 1000.

SEND FOR OUR LIST OF OTHER VARIETIES.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr. **JOLIET, ILL.**

Plant Notes.

ORCHIDS.—There is no apparent reason why orchids should not be found profitable to grow by florists who own their greenhouses. A good plan for beginners in the cultivation of orchids would be to purchase at first a reasonable number of established plants and along with these get a case or more of imported stock. The latter under ordinary conditions, and with a fair share of attention, would in a few years give a good account of themselves. There is a tendency on the part of a certain class of flower buyers as well as of buyers of plants to look for something more out of the common than usually satisfied them. It is often the case that many houses are found empty in Summer when the space within them could be made profitable if the owners could hit upon something or another that would give quick results and in that way be no hindrance to the success of what was eventually intended to occupy the same space. A greenhouse in that respect is in much the same condition as a piece of ground, only there is more at stake with a greenhouse. In both, however, more money can be got out of them when continuously occupied. D. M.

LOOK HERE

ROOTED CARNATION CUTTINGS
250 at 1000 rate

WHITE LAWSON, VARIEGATED LAWSON, \$3.00 per 100; \$25.00 per 1000.
MRS. PATTEN, ENCHANTRESS, \$2.50 per 100; \$20.00 per 1000.
BOSTON MARKET, FAIR MAID, QUEEN LOUISE, HARLOWARDEN, MRS. LAWSON, \$2.00 per 100; \$15.00 per 1000.
BRIDES, BRIDESMAIDS, KILLARNEY, RICHMOND, own roots. 3 in., about last of April, \$5.00 per 100.
GRAFTED ROSES, \$12.00 per 100.
HELEN GODDARD, \$5.00 per 100.
WILSON MARSHALL, Red Seeding, \$5.00 per 100; \$45.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE, BRIDGEPORT, CONN.

ROOTED CARNATION CUTTINGS

White Perfection	100	1000
Glendale	\$8.00	\$50.00
Victory	5.00	40.00
Robert Craig	5.00	40.00
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250 at 1000 rate.

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Ready Now—Prompt Delivery.

Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000.

F. DORNER & SONS CO., La Fayette, Ind.

CARNATIONS

Rooted cuttings **Victory,** \$6.00 per 100; \$50.00 per 1000; **Enchantress, Bountiful, White Lawson, Var. Lawson, Patten,** \$2.50 per 100; \$20.00 per 1000; **Mrs. Lawson, Boston Market, Queen, H. Fern, and Fair Maid,** \$2.00 per 100; \$15.00 per 1000. 5 per cent. discount for cash with order.

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Robert Craig Cuttings FOR SALE

From soil or 2 in. pots, just ready for a shift into larger pots. They are in first-class health and condition. Price, \$6.00 per 100; \$50.00 per 1000.

VALLEY VIEW GREENHOUSES
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Splendid Stock from soil, \$5.00 per 100; \$50.00 per 1000.

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White: **EATON, ESTELLE, BONNAFFON, ALICE BYRON, IVORY.**
Pink: **GLORY OF THE PACIFIC, ENGUEHARD.**
Yellow: **BONNAFFON, APPLETON, CREMO, HALLIDAY, WHILLDIN, ROI-D'ITALIE.**
Rooted cuttings, \$2.00 per 100; \$15.00 per 1000. Cash with order.

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CARNATIONS

Rooted Cuttings; Fine Healthy Stock
WINSOR and HELEN M. GOULD, \$12.00 per 100 \$100.00 per 1000.
ROBERT CRAIG, VICTORY, HELEN GODDARD, \$6.00 per 100, \$50.00 per 1000.
RED LAWSON and VARIEGATED LAWSON, \$4.00 per 100 \$30.00 per 1000.
LADY BOUNTIFUL, NELSON FISHER, and ENCHANTRESS, \$3.00 per 100, \$25.00 per 1000.
BOSTON MARKET, GENERAL MAGEO, MRS. T. W. LAWSON, PINK ARMAZINDY, MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

VERENAS—Best Mammoth, rooted cuttings	Per 100	Per 1000
Agrotium, Cop's Pet, White Cap, P. Pauline and Stella Garney	1.00	8.00
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Coleus, best bedding and fancy sorts	1.00	8.00
Ivy German	1.25	10.00
Eucha, double and single varieties	2.00	15.00
Everfew, The Gem	1.50	12.00
Geranium, double and single	2.00	15.00
Heliotrope, light and dark	1.25	10.00
Ivy German	1.25	10.00
Moon Vine, true white	2.00	15.00
Salvia, splendens, Bedman, etc.	1.25	10.00
Salvia, new early flowering sorts	1.50	12.00
Viola, variegated and Elegans, 2 1/2 in. pots	3.00	

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Strong dormant Roots in 30 fine varieties \$2.00 and \$3.00 per 100; \$18.00 and \$25.00 per 1000.

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MABELLE--New Pink Carnation for 1907

Color.—A peculiar shade of lovely pink, with a faint yellow cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. Size.—Three to four inches in diameter when established. Order.—Pleasing, but not strong. Stems.—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.—A very quick active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness.—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. No discounts. First class certificates Madison and Indianapolis. Delivery Jan. 6th to 10th and later. Price, \$12.00 per 100, \$100.00 per 1000.

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White Enchantress

white sport of Enchantress, rooted cuttings \$12 per 100; \$100 per 1000.

E. SCHRADER
NEW SPRINGVILLE, Richmond Borough, N. Y.

ROOTED CUTTINGS

WHITE—Queen	Per 100	Per 1000
PINK—Pin Patten	\$1.50	\$12.50
Helen Goddard	1.00	
Ethel Ward ready about Mar 25	\$1.50	\$12.50
Harry Fern ready about Apr 11	\$1.50	\$12.50

All orders sold out for the season. I thank the Florists for their generous patronage.

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ASPARAGUS

PLUMOSUS NANUS, 2 1/2 in. pots	Per 100	4.00
" " 3 in. pots		5.00
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Orders booked for early delivery. **KILLARNEY, RICHMOND, JOE HILL, KAIBERIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, PERLE, SUNRISE, SUNSET, etc.**

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\$1.25 per 100; \$10.00 per 1000.

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AUTUMN GLORY, ADA SPALDING, CREMO, COLLINGFORD, DOROTHY DEVENS, GLORY PACIFIC, HARRY MAY, H. W. REIMAN, IVORY, J. E. LAGER, J. H. TROY, MRS. JEROME JONES, MINNIE WAN AMAKER, MRS. BAER, MAJOR BONNAFFON, MAD. FRED. BERGMAN, NIVEUS, PINK IVORY, TIMOTHY EATON, W. H. LINCOLN, XENO. Price, Rooted cuttings, \$1.50 per 100, \$23.00 per 1000.

JEANNIE NONIN, \$1.50 per 100, \$23.00 per 1000.

CARNATIONS

Strong, healthy, well rooted stock

	Per 100	Per 1000	From pots
Bountiful	\$3.00	\$25.00	\$3.50
Cardinal	2.50	22.50	3.00
Enchantress	2.50	22.50	3.00
Lawson	2.00	15.00	2.50
Harlowarden	2.00	15.00	2.50
Boston Market	1.50	12.50	2.00

Cash with Order. Satisfaction guaranteed.

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The leading scarlet, Lilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place.

ROOTED CUTTINGS, \$6.00 per 100; \$50.00 per 1000.

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Rooted Carnation Cuttings a Specialty.

Correspondence Solicited.

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FINE, STRONG PLANTS

Robert Craig, 1 1/4 in. pots	100	1000
Variogated Lawson, 1 1/4 in. pots	\$8.00	\$50.00
Victory, 1 1/4 in. pots	3.00	25.00
	6.00	50.00

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From 2 1/2 in. pots, \$20.00 per 1000; rooted cuttings, \$15.00 per 1000. **Tesout, Ivory, White and Yellow Bonnaffon, White Star and Helen Frick,** \$30.00 per 1000. **White Duckham (Miss Clay Frick),** \$2.50 per dozen. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

REVIEW OF THE MARKET

NEW YORK.—There has been very little change in the market value of cut flowers this week, but it is the general opinion of dealers that stock is clearing out a little better, due principally to the moderating of certain kinds of flowers, and to a little spurt that came along on Saturday last. Violets are nearing the end of their season, and compared with but a few days ago the number of boxes received daily is very insignificant.

Bulbous stock from the South continues to arrive, but the home grown product is shortening up rapidly. Freesias and sweet peas are fairly plentiful, and as prices are not held too stiff, clearances are the rule. Snapdragon continues a regular factor in the daily supply, and while values vary a great deal at times, the general average is fairly satisfactory.

For American Beauty roses there is an occasional sale of special grade blooms at 25c. each; these are of a quality somewhat better than the average, however, as there is at all times a generous supply of blooms that can be purchased in quantity at a figure much below that named.

The supply of tea roses is not quite as heavy as has been the rule for a few weeks, and fairly good clearances are being made. Carnations, too, are clearing out fairly well, and there has been no material change in values.

CHICAGO.—A decided curtailing of the supply last week, owing to the relatively wintry weather, with a good, firm shipping and city demand, brought about a most unexpected turn in the market conditions, and added one more to the surprises which the sudden and unlooked for tangents of the weather have given this market within the recent past. With more than an abundance of stock on hand in all lines, a week before last, and no immediate prospect of any cessation of the incoming surplus, last week opened dreary and stayed so, growing colder and ending with a snowstorm and blizzard. Out of door supplies which were coming in in large quantities from the southern sections were entirely cut off or came only in greatly reduced areas, while the greenhouse products were immediately reduced greatly in amount.

This week opened with a strong demand and an inclination toward higher prices, and yet it is a question. After recent experiences it is well to say as Josh Billings directed, "Never prophesy unless you know."

BOSTON.—The past week has seen little change. Prices have been somewhat firmer, and there has been a good supply of all kinds of flowers. Violets continue to come in, although at present there are more doubles than singles, and double violets are never popular in this market. Roses are plentiful enough; there are now some good American Beauty and Richmond, and Killarney, Wellesley and Mme. Abel Chatenay are all in good shape. Bride and Bridesmaid are very plentiful. Carnations keep up well in price; some excellent blooms are seen. Sweet peas are good. Bulbous stock continues plentiful, and there are more lilies than last week. Other stock remains about the same. Hardy cut ferns are of poor quality; in fact, good grades can scarcely be got this season.

PHILADELPHIA.—The supply of flowers has fallen off the past week, but as there is not any large amount of business doing there is sufficient stock for all demands. American Beauty are here at \$2 per dozen for the very best, but if a customer wants one hundred he can drive a good bargain at lower rates. In tea roses, there are a few choice Richmond and Liberty coming in which sell at \$2 to \$2.50 per dozen. Some good flowers of Killarney are selling at \$8 per 100. The general stock of teas ranges from \$2 to \$6 per 100. Carnations are falling off in supply; a few fancy Enchantress have sold at \$4 per 100; general stock is going at \$2 to \$3 per 100. Gardenias are selling this week at from \$1 to \$2 per dozen. Cattleyas are very scarce this week; they are sold readily at 75c. per flower. The supply of violets is gradually diminishing; most of the growers are sending in only twice a week. Prices range from 50c. to \$1 per 100 for the best doubles. Lilies, both Harrisii and longiflorum, are very plentiful, the supply being far in excess of demands. No reasonable offer

is refused. A few stalks of Liliun candidum were seen on Monday, bearing five to eight flowers per stalk; they sold at \$1 per dozen stalks.

Asparagus is much too plentiful; 50c. per bunch is the top price. Smilax is in fair supply; the best is bringing \$25 per 100 strings.

Sweet peas are in large supply; prices range from 75c. to \$1.50 per 100; such fancy flowers of scarce colors, some as light lavender, fetch \$2.50 per 100. Anthrinum majus is selling very well at from \$1.50 to \$2 per dozen stalks.

DAVID RUST.

ST. LOUIS.—There was quite a lot of business going on among the florists the past week, but not enough to keep us what we term busy. There were weddings, parties, dinner receptions and plant decorations, also quite some funeral work. The sale of blooming plants keeps up, and quite a good demand is reported for fancy stock of these. The wholesale market was not so overcrowded the past week; still, a great deal of stock came in, especially Harrisii lilies and callas. These sold very cheap; as low as \$5 per 100 in large lots; other bulbous stock is becoming scarce. Lily of the valley is fine at \$2 to \$4 per 100. Tulips bring \$2 to \$4 per 100; these are not any too plentiful in the market for the demand.

In roses, the market is well supplied with all varieties. American Beauty, long, fancy, the very best, bring only \$3 per dozen; from this down to shorts at \$4 to \$5 per 100. Other roses, such as Bride, Bridesmaid, Kaiserin Augusta Victoria, Mme. Abel Chatenay, Killarney, Richmond, Perle des Jardins, Golden Gate and Ivory realize \$5 to \$6 per 100 for the extra choice. Other grades in these run from \$1 to \$3 per 100, and cheaper in 1,000 lots.

Carnations are up a cent or two, and not nearly so many are coming in; the wholesalers are cleaning up daily at prices running from \$2 to \$4 per 100; some extra fancy bring \$5. Quality of stock is very good in all varieties, especially Lady Bountiful, Enchantress, Mrs. Thos. W. Lawson, Prosperity and Cardinal. These, with a few odds and ends, make up the daily market supply in St. Louis.

ST. PATRICK.

CINCINNATI, O.—We are passing through a spell of dark, cold and gloomy weather—rain, snow and sleet. Business is still quiet, but all choice stock of carnations and sweet peas sells readily, and as this weather is liable to continue a few days, it will have a tendency to shorten supplies and advance prices. Wholesale florists are now in our stock; this is about the only flower that is dragging. Sweet peas are now more in demand than any other flower, and sell at 50c. to 75c. per 100. Bride and Bridesmaid roses bring 2c. to 6c.; carnations, 1.50, \$2 and \$3; stocks, 3c.; lily of the valley, 4c.; tulips, 2c. and 3c.; Baby primrose, 25c. to 50c. per 100; snapdragon, 4c.; callas, 8c. to 10c.; longiflorum and multiflorum lilies, \$1 per dozen. Fancy ferns still hold at \$2.50 per 1,000 for good stock. Smilax is very scarce. Asparagus plumosus sells at 25c. to 50c.

Our visitors this week were Henry and William Lodder, Hamilton, O., and Mr. and Mrs. C. H. Maynard, Detroit, Mich. Mrs. Maynard is busy working for the Ladies' Auxiliary of the S. A. F. O. H.; they now have over fifty members and are still hustling.

Quite a number of our florists are sadly in need of men; plenty of hobs are around, but they won't work.

It looks as though peonies were well destroyed in this section, as on Sunday night we had ice one-half inch thick.

E. G. G.

INDIANAPOLIS.—The weather still plays the leading role in the flower trade. It snows almost daily, and bleak winds keep the public from buying unless pressed to do so. Naturally, counter trade has fallen to a low level, and it devolves on funeral work to keep matters moving. A noticeable fact all Winter and Spring has been that flowers are more generally used for social functions, but never in such profuse quantities as heretofore. Really high-grade stock is difficult to obtain and prices for the same have advanced. Batches of the late bulbous stock sell readily at \$3.50 to \$4 per 100. The carnation cut, as anticipated, is very light; white ones are often unobtainable. Prices are in-

variably firmer—\$2.50 to \$4 per 100; \$1 per dozen is the usual retail figure. Many callas and Harrisii lilies are used daily at \$8 to \$12 a hundred.

Cooler weather has thrown many roses off crop, and few are shipped away. Bride and Bridesmaid are the mainstays at \$6 to \$8 per 100. Fine Madame Abel Chatenay are in demand at \$8 to \$10 per 100. Swainsona, pansies, Ten-week stocks, candytuft, mignonette and forget-me-not lend variety to the market.

Plant trade has fallen off perceptibly, but it is well as there are no choice plants to offer except a few rhododendrons and hydrangas.

Tomlinson Hall Market displays quantities of summer stock, but there is little inclination on the customers' part to even think of the bedding season, so business there is not as brisk as it might be.

I. B.

ST. PAUL.—Business the past week has been remarkably good. While the weather has opened up fine, stock is plentiful; at times, during the middle of the week, wholesalers were offering roses at a small figure, the market appearing to be pretty well glutted. But this condition lasted only for a day or so, and prices afterward advanced to the normal point.

Carnations are in great abundance, and are being offered at prices ranging from 25c. to 75c. a dozen, retail. The confectioneries and the department stores have handled a great many carnations, but the inclement weather has kept the street men from doing but very little business.

Spring plants appear to be the next on the calendar. Already a number of wholesale lists have been sent out to the country trade, and from reports, some very nice orders have already been booked. But very few shipments have been forwarded, and it will be a matter of a few weeks before this can be done safely by freight. A glance at the different greenhouses finds an enormous supply of bedding stock for the market. Geraniums, of course, lead in number, but it is notable that more stock for bedding purposes has been grown than heretofore.

PAUL.

NEW BEDFORD, MASS.—There is no let up as yet to the demand for cut flowers, and the supply is none too plentiful. There have been so many cloudy days of late, that blooms are very slow in opening. Prices remain about the same. Roses sell at from \$1.50 to \$2 per dozen, retail; carnations, 50c. to 60c. per dozen, although one grower is retailing them at 25c. per dozen, and a few others at 40c. There are quite a lot of daffodils yet, but tulips are quite scarce. Sweet peas bring \$1 per 100. Violets are about a thing of the past; a few are to be seen once in a while from cold frames; the stems are short and the flowers small. Garden work is in full swing; the hardest part of this branch just now is to get good men to stay with the job. Funeral work is quite plentiful; this uses up lots of stock. Roses are almost as cheap as carnations at wholesale. There is a good, steady demand for white carnations. Geraniums are coming along in good shape, as are other bedding plants.

HORTICO.

CHANGES IN BUSINESS.

GLENVILLE, O.—J. W. Wilson has purchased 15 lots near the Eddy road. He will move his greenhouse now located on the Clark property, to these lots.

NEWBURYPORT, MASS.—J. J. Conley, the Buck street florist, is to open a flower stand at the hallway on State street recently vacated by E. W. Pearson.

CRIPPLE CREEK, COL.—The Kennedy Floral Company has moved across the street from its old location. A new front will be put in and other improvements made.

ABILENE, TEX.—A charter has been filed by the Abilene Nursery Company, capital stock \$10,000; W. F. D. Batzjar, W. A. Minter, Jr., and J. V. Cockrell, all of Abilene, incorporators.

NEW BEDFORD, MASS.—James Cleary, who is manager of Wm. P. Peirce's Union street store, will, it is said, open a flower store some time in September in combination with the undertaking business.

FRANKFORT, KY.—The Morgan Floral Company of Henderson county has been incorporated with \$3,500 capital stock. The incorporators are C. A. Morgan, E. A. Eckert and W. D. Lambert, of Henderson.

CUT FLOWER BOXES

Waterproof corner lock style. The best and neatest cut flower box on the market to-day.

No.	Per 100	1000	No.	Per 100	1000
0 3x4x20	\$2.00	\$18.00	6 4x8x25	3.75	36.00
2 3x6x18	2.20	20.00	9 5x10x35	6.50	64.00
4 3x5x24	2.75	26.00	11 8x5x30	3.50	32.50

The above boxes are a few of our leading sizes. A complete list of all the sizes we manufacture mailed free on application. Add 50c. for printing on an order for 100 boxes, and 75c. for 200 boxes. No charge for printing on an order of 500 boxes, or over. Sample card board free on application.

Terms cash with order.

The LIVINGSTON SEED CO., Columbus, Ohio.

New York.

News of the Week.

The experiment of transplanting a tree between seventy-five and eighty years old and sixty-four feet high was made recently at Port Chester. It was a fine specimen of the Japanese ginko, having a spread of about sixty-four feet and a trunk nine feet in diameter. It weighed thirty-five tons, and a twelve-ton steam road roller was required for its transfer. This is said to be the largest tree ever transplanted.

Sentiment was the motive for moving it. It was planted by Mr. and the late Mrs. George W. Quintard more than fifty years ago, when they were a young couple and had just settled in their new home in Port Chester. This house is now known as the Quintard homestead. The tree then was about twenty-five years old. It flourished and became one of the landmarks of the neighborhood. Mr. Quintard, who is now in his eighty-fifth year, lives with his daughter, Mrs. Nicholas F. Palmer, in King street. Mrs. Palmer wished to have the tree where her father could look out upon this companion of a lifetime from his window, and therefore made arrangements to have it moved to her place.

The tree was moved by Siebrecht & Son, florists and nurserymen, with a machine which has been devised for moving large trees, and which was used to transplant many hundreds of smaller trees on the estate of John D. Rockefeller, at Pocantico Hills, near Tarrytown.

Gunther Brothers, wholesale florists, will remove about May 1 from their present location, 30 West Twenty-ninth street, to 114 West Twenty-eighth street. Wm. H. Gunther has occupied the store to be vacated for the past fifteen years. The property is to be improved and office buildings erected; a lease on it has been secured for 84 years.

One of A. T. Boddington's traveling men, August Noeber, is ill with rheumatic fever in the Emergency Hospital, Boston, Mass.

The Rhinebeck Gazette estimates that the shipments of violets from that district during Easter week brought to the growers \$12,500.

Gustav Pullman, residing at 918 Ninth avenue, has filed a petition in bankruptcy, with liabilities of \$8,706, of which \$6,900 is on an unexpired lease, and assets of nominal value. He was formerly in the restaurant business and a florist. The New York Cut Flower Company is a creditor for \$1,404.

On Tuesday, April 16, A. Weisenberger, head gardener at Gedney Farms, White Plains, N. Y., was married to Miss Elsie Widener of Naples, N. Y. The newly married pair will reside at Gedney Farm.

F. L. Ziegler and Wm. Hastings, both of Newport, R. I., were in town this week.

FIRMS WHO ARE BUILDING.

WATERBURY, CONN.—Work will soon be started on a large greenhouse on Dublin street for Frank Floto of the firm of Saxe & Floto. It will be 50x200 feet, of iron, cement and glass, and will cost about \$10,000.

J. K. ALLEN

Wholesale Commission Dealer in **Cut Flowers**
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Wholesale Prices of Cut Flowers, New York, April 17, 1907
 Prices quoted are by the hundred unless otherwise noted

Roses	A. BRADY fancy—special.....	10.00 to 20.00	Carnations	Inf'r grades, all colors.....	1.00 to 1.50
	extra.....	8.00 to 10.00		White.....	1.50 to 2.00
	No. 1.....	6.00 to 8.00		Pink.....	1.50 to 2.00
	No 2.....	4.00 to 6.00		Red.....	1.50 to 2.00
	No 3.....	1.00 to 3.00		Yel. & Var.....	1.50 to 2.00
	Bride, Maid fancy—special.....	4.00 to 6.00		White.....	2.00 to 3.00
	extra.....	3.00 to 4.00		*FANCY—	2.00 to 4.00
	No. 1.....	2.00 to 3.00		(The highest grades of	2.00 to 3.00
	No. 2.....	1.00 to 2.00		standard var)	2.00 to 3.00
	Golden Gate.....	2.00 to 3.00		(NOVELTIES	4.00 to 5.00
	RICHMOND.....	2.00 to 10.00		FREESIAs, per doz. bunches.....	.75 to 1.00
	(M me. Abel Chatenay.....	2.00 to 8.00		GARDENIAS, per doz.....	1.00 to 3.00
	ADIANTUM.....	.50 to 1.00		LILIAc, per bunch.....	.50 to .60
	CROWNANUM.....	1.00 to 1.50		LILIES.....	5.00 to 6.00
	ASPARAGUS.....	25.00 to 50.00		LILY OF THE VALLEY.....	1.00 to 3.00
	Plumosus, bunches.....	15.00 to 20.00		MIGNONETTE.....	1.00 to 4.00
	Sprenger, bunches.....	15.00 to 20.00		NARCISSUS, White.....	.25 to .50
				Yellow.....	.25 to 1.00
	CALLA.....	8.00 to 10.00		ROMAN HYACINTHS.....	..... to
	CATTLEYS.....	40.00 to 60.00		SMILAX.....	12.00 to 15.00
	CYPERIDIUM.....	12.00 to 15.00		SWEET PEAS, per doz. bunches.....	.50 to 1.00
	DAISIES.....	1.00 to 3.00		TULIPS.....	.50 to 2.00
				VIOLETS.....	.30 to .50

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Los Angeles, Cal.

Trade Notes.
 S. Groot of the firm of Sluis & Groot, wholesale seed growers, Enkhui-
 zen, Holland, is on this coast on busi-
 ness, and was a visitor to the Pasadena
 flower show. He, as are all visitors to
 this country, was surprised at the great
 diversity of plant life in cultivation.
 Poinsettias were a total failure here
 this season. There is no attempt made
 at growing them under cover, and the
 cold wet Winter was more than they
 could endure and develop their beautiful
 bracts.

A violent storm tore the muslin cover
 from part of the Whitesey carnation
 houses, but did no damage to the stock.
 The cut from this establishment was
 11,000 blooms for the week ending March
 30, and the price obtained in our local
 market was from \$1.50 to \$4 per 100.
 Sunny weather, which now prevails,
 will bring on outdoor stock to perfection
 and in great quantities, for the acreage
 is large, therefore lower prices will pre-
 vail.
 P. D. B.

Dallas, Tex.

The ladies of Dallas are arranging
 to hold a chrysanthemum show this Fall.
 They want to make a grand success of
 it, and are to give first-class prizes that
 will induce the best growers to exhibit
 here. This is the first year they have
 ever tried to hold a show in this city.
 Is there anyone that you could sug-
 gest that might be a good man to come
 here and work up interest in this line of
 work?
 TEXAS SEED & FLORAL COMPANY.

NEW ORLEANS.—Frank Reith has
 the contract for supplying the plants to
 the new hotel, "The New Denechand."
 This is quite a job and requires num-
 bers of plants. He is thinking of im-
 porting his bay trees, etc., direct from
 Belgium.
 C. C.

S. S. PENNOCK-MEEHAN Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA,

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EASTER PLANTS, RIBBONS AND SUPPLIES

Boxwood per 50 lb. case, \$7.00.
 American Beauties \$4.00 per doz.; \$25.00 to \$30.00 per 100.
 Valley \$3.00 to \$4.00 per 100.

A COMPLETE LINE OF CUT FLOWERS

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Wholesale Prices of Cut Flowers—Per 100

Boston Apr. 15, 1907	Buffalo Apr. 15, 1907	Detroit Mar. 18, 1907	Cincinnati April 15, 1907	Baltimore Mar. 25, 1907	NAMES AND VARIETIES	Milwaukee Mar. 7, 1907	Philadelphia Apr. 16, 1907	Pittsburg Apr. 17, 1907	St. Louis Apr. 15, 1907
20.00 to 40.00	25.00 to 30.00	.....to 100.00	.....to .....	.....to	A. BEAUTY, fancy-special	.....to .....	.....to 25.00	20.00 to 25.00	20.00 to 25.00
10.00 to 20.00	20.00 to 25.00	.....to 80.00	.....to .....	.....to 25.00	" extra	.....to 25.00	.....to 12.50	15.00 to 20.00	15.00 to 20.00
4.00 to 10.00	15.00 to 20.00	.....to 70.00	.....to .....	.....to 15.00	" No. 1	15.00 to 18.00	.....to	6.00 to 8.00	8.00 to 10.00
1.00 to 4.00	3.00 to 15.00	20.00 to 30.00	.....to	4.00 to 8.00	" Ouls and ordinary	4.00 to 8.00	.....to	3.00 to 4.00	4.00 to 6.00
6.00 to 8.00	8.00 to 10.00	6.00 to 15.00	.....to 6.00	.....to 10.00	BRIDE, 'MAID, fancy-special	.....to .....	.....to 5.00	8.00 to 10.00	8.00 to 10.00
4.00 to 6.00	6.00 to 8.00	.....to 3.00	.....to 5.00	.....to 8.00	" extra	.....to 8.00	.....to 4.00	.....to 6.00	6.00 to 8.00
2.00 to 4.00	4.00 to 6.00	.....to 2.00	.....to 4.00	.....to 6.00	" No. 1	.....to 5.00	.....to 3.00	.....to 4.00	4.00 to 6.00
1.00 to 2.00	3.00 to 4.00	.....to 1.00	.....to 3.00	.....to 4.00	" No. 2	.....to 4.00	.....to 2.00	.....to 3.00	2.00 to 3.00
.....to 3.00	6.00 to 6.00	.....to .....	.....to .....	.....to 2.00	GOLDEN GATE	4.00 to 8.00	.....to 6.00	.....to 15.00	.....to
.....to 4.00	8.00 to 8.00	.....to .....	.....to .....	.....to 3.00	K. A. VICTORIA	4.00 to 8.00	.....to 4.00	.....to 8.00	.....to
.....to 5.00	2.00 to 6.00	.....to 2.00	.....to 6.00	.....to 5.00	LIBERTY	4.00 to 12.00	5.00 to 25.00	4.00 to 12.00	.....to
.....to 2.00	3.00 to 10.00	.....to .....	.....to .....	.....to 3.00	METEOR	.....to .....	.....to .....	.....to .....	.....to
.....to 3.00	6.00 to 6.00	.....to .....	.....to .....	.....to 2.00	PERLE	4.00 to 6.00	.....to 4.00	.....to 6.00	2.00 to 5.00
.....to .....	.....to .....	.....to 60.00	.....to .....	.....to 3.00	ORCHIDS—Cattleyas	.....to .....	.....to 75.00	.....to .....	.....to
.....to 1.50	2.00 to 2.00	.....to .....	.....to .....	.....to 4.00	" inferior grades, all colors.	.....to .....	.....to 3.00	.....to 4.00	.....to 1.50
1.00 to 2.00	1.50 to 2.00	3.00 to 8.00	.....to 2.00	.....to 4.00	Standard	.....to 1.50	.....to 2.00	.....to 4.00	.....to 2.00
1.00 to 2.00	1.50 to 2.00	.....to .....	.....to 2.00	.....to 4.00	Varieties	.....to 3.00	.....to 3.00	.....to 4.00	.....to 2.00
1.00 to 2.00	.....to .....	.....to .....	.....to 2.00	.....to 4.00	White	.....to 3.00	.....to 3.00	.....to 4.00	.....to 2.00
2.00 to 3.00	2.00 to 3.00	.....to .....	.....to 3.00	.....to 6.00	Yellow and var.	.....to 3.00	.....to 4.00	.....to 4.00	.....to 2.50
3.00 to 4.00	2.00 to 3.00	.....to .....	.....to 3.00	.....to 6.00	Fancy	.....to 3.00	.....to 4.00	.....to 4.00	.....to 3.00
3.00 to 4.00	2.00 to 3.00	.....to .....	.....to 3.00	.....to 6.00	Varieties	.....to 3.00	.....to 4.00	.....to 4.00	.....to 2.50
3.00 to 4.00	.....to .....	.....to .....	.....to 3.00	.....to 6.00	Novelties	.....to 3.00	.....to 4.00	.....to 6.00	.....to 3.00
.....to 5.00	.....to .....	.....to .....	.....to 1.00	.....to 1.00	ADIANTUM	.....to 1.00	.....to 1.00	.....to 1.50	.....to 1.00
.....to 75 to 1.00	.....to .....	.....to .....	.....to 30.00	.....to 30.00	ASPARAGUS, Plum. and Ten	20.00 to 30.00	50.00 to 75.00	25.00 to 50.00	25.00 to 40.00
.....to 50.00	.....to	25.00 to 60.00	35.00 to 60.00	.....to 30.00	" Sprengerl, bunches.	20.00 to 30.00	50.00 to 75.00	20.00 to 30.00	25.00 to 40.00
.....to 8.00	8.00 to 12.00	.....to 15.00	.....to 10.00	.....to 15.00	CALLAS	10.00 to 12.50	12.50 to 15.00	8.00 to 10.00	10.00 to 12.50
.....to 8.00	8.00 to 12.00	.....to .....	.....to 10.00	.....to 15.00	DAISIES	.....to 75	.....to 15.00	.....to 18.00	.....to
.....to 2.00	4.00 to 8.00	.....to 3.00	.....to 4.00	.....to 4.00	LILIES	.....to 2.00	.....to 3.00	.....to 5.00	.....to 4.00
1.00 to 4.00	2.00 to 3.00	.....to 15.00	.....to .....	.....to 3.00	LILY OF THE VALLEY	.....to 2.00	.....to 3.00	.....to 6.00	.....to 3.00
.....to 3.00	4.00 to 4.00	.....to .....	.....to .....	.....to	MIGNONETTE, ordinary	.....to 4.00	.....to 8.00	.....to 4.00	.....to 6.00
.....to 12.50	.....to 20.00	12.50 to 15.00	.....to 15.00	.....to 25.00	" fancy	.....to 20.00	15.00 to 20.00	20.00 to 25.00	12.50 to 15.00
.....to .30	.....to .50	.....to 2.50	.....to .....	.....to .50	SMILAX	.....to .50	.....to 1.00	.....to .25	.....to .50
.....to .....	.....to .75	.....to .....	.....to .....	.....to 1.00	VIOLETS, ordinary	.....to .75	.....to .75	.....to 1.25	.....to
.....to .....	.....to .....	.....to .....	.....to .....	.....to	" fancy	.....to .....	.....to .....	.....to .....	.....to

Philadelphia.

News Items.

While there has not been any great activity this week, several of the retail stores have been doing a nice business with wedding orders; shower bouquets and baskets of flowers have been in good demand.

S. S. Skidelsky has returned from a three months' trip, which, he says, was very successful. He has done very well with the new Rose-pink Enchantress carnation, and has received orders for this variety from Europe and also from British Columbia.

James Walsh, decorator for the Wm. Graham Company, fell from a ladder on Saturday and sustained a very bad fracture of the hip; this will keep him in the hospital for at least six weeks.

Among the Rose Growers.

It is rather difficult to write much about a rose growing place at this time of year, hence concerning our trip to Wyndmoor last week we can only be brief. At George Burton's place all the houses but one are devoted to American Beauty, all the plants appearing to have yielded heavily. One house of Golden Gate was very prolific both in wood and flower and will be carried on through the Summer. Three new houses are in course of erection.

At Myers & Samtman's establishment all the American Beauty houses looked well with lots of flowers in sight. They have a new rose, American Beauty X Safrano, which they will grow largely for cut blooms next season. In the growth it looks more like Beauty, with bud shape of Safrano, color bright pink. The firm has begun to build one large new house.

John Burton's American Beauty have done well; Liberty is also showing very good. Bride and Bridesmaid in solid beds have done very well. Mme. Abel Chatenay does very satisfactorily on this place.

At Alfred Burton's everything was looking like a new pin; even at this season all the American Beauty plants are tied up neatly, and producing well. Liberty looked very prosperous. Kate Moulton has been tried this year and more of it will be grown next season.

DAVID RUST.

BOSTON, MASS.

Asparagus Plumosus
 Mignonette
 Lil. Harrisil
 Brides, 'Maids
 American Beauties
 Can furnish at short notice, Price according to quality of goods. Long Distance Telephone 6267 and 6268

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 PROPRIETORS
 CITY HALL CUT FLOWER MARKET
 226 Devonshire Street.

Kaiserin
 Carrots
 Orchids
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 Carnations
 Violets

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 1526 RANSEAD STREET, PHILADELPHIA
 Bet. Market and Chestnut Streets
 Choiceat Stock Always on Hand
 Telephone: 142-26-A.

PHILADELPHIA CUT FLOWER CO.

Wholesale Florists
 1516-18 SANSON STREET
 High Grade Cut Flowers
 Open Evenings until 8.

Headquarters in
 WESTERN NEW YORK
**For Roses,
 Carnations**



And all kinds of Seasonable Flowers.

WM. F. KASTING
 Wholesale Commission Florist
 Also dealer in Florists' Supplies and Wire Designs
 383-87 ELLICOTT ST. BUFFALO, N. Y.
 Give us a trial. We can please you.

CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
White Perfection (The grandest White of them all) Per 100 \$5.50, per 1000 \$50.00
Bountiful Per 100 \$2.75, per 1000 \$25.00
Echentrass Per 100 \$2.00, per 1000 \$18.00
Book orders now. Quality guaranteed. If you don't like them we pay express both ways. Catalogue Free.
E. F. WINTERSON & CO. Wholesale Cut-flowers and Florists' Supplies
45-47-49 Wabash Ave., Chicago, Ill.

CHAS. W. MCKELLAR
Orchids
FANCY VALLEY, ROSES, CARNATIONS, and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago

accompanied by his son, has left for a trip to New Mexico in hopes of benefiting the latter's health.
Last Tuesday evening, at Mussey's, Dearborn and Madison streets, marked the beginning of the howling tournament to select the team to represent the Chicago Florists' Club at Philadelphia next Summer.

A. Malchow, at his North Clark street store, reports a constantly increasing business and expresses satisfaction with his recent Easter trade, the first in his present location.

B. Amerpohl, of Janesville, Wis., was in the city last week.

The Chicago Florist Company, Nic. Korsun, proprietor, has opened a new store at 112 East Monroe street.

The E. F. Winterston Company has completed the removal of its stock of supplies to the quarters of the Winterston Seed Store on the floor above, where, on a newly erected balcony, are installed the desks of Messrs. J. P. Deegan and L. H. Winterston.

On May 1 Frank Williams will be out of his Masonic Temple store, which it is reported will be occupied as a shoe shop. There are, however, still openings in which the management of the block would like to interest a florist.

Although arrangements have not been fully settled in the Kennicott Brothers Company's new quarters, they have progressed far enough to demonstrate that when completed they will be not only commodious but convenient.

The monthly meeting of the Florists' Club was held at Handel Hall on Thursday evening of last week with about the usual attendance, and, like all the recent meetings, proved an interesting and instructive evening to the participants. The gathering had been designated as a retailers' night and a general informal talk was indulged in concerning the results of the recent Easter business, the consensus of opinion of those present being that notwithstanding the unusually low price of cut flowers there was still a strong tendency among purchasers toward plants. General reports were very favorable as to the volume of trade. P. J. Hauswirth gave a very entertaining talk on what he saw at the Washington Rose Society convention, calling especial attention to the new rose Rhea Reid exhibited by the E. G. Hill Company and to the Rambler roses originated and exhibited by M. H. Walsh which he thought, if properly done here, would find a substantial support in the retail trade.

J. C. Vaughan, P. J. Hauswirth and George Asmus were appointed a committee to consult with Mayor Busse regarding the possibilities of doing something more than heretofore for horticultural interests in the public parks, the Mayor in his ante-election speeches having expressed sentiments tending in this direction.

Vaughan's Seed Store showed a handsome specimen of the new pink spirea, Peach Blossom, and well grown plants of Azalea mollis and A. Yodogawa.

J. Elder of the Iowa Seed Company was a recent visitor.

Louis Wittbold, whose inventive genius is always on the alert in the direction of improving present methods, is at work developing a form or mold for a cement bench which will soon be ready for the market. With this form of construction the whole bench will be molded at one time and with a durability that will last a life time.

W. N. Rudd's carefully cherished crimson carnation chosen by critics as the superior of all his productions, will be put on the market next year. It is as yet without a name. The stock will be disseminated by the originator and Jensen & Dekema of Chicago.

Sinner Brothers, who were among the majority of growers who suffered from the drought of last Summer and the sunless Midwinter have brought their stock through in good health and for the past few months their cut has not only been among the largest proportionately but of excellent quality, both in roses and carnations.

The Chicago Rose Company had an exhibition for several days a fine display of Queen Beatrice roses forwarded from Washington by F. H. Kramer. They arrived in good condition and attracted the attention of all the local growers.

Highland Park was aroused early on Monday morning by the arrival of a fifteen pound young lady in Fritz Bahr's family. WILLIAM K. WOOD.

Be your own Commission Man
THE FLOWER GROWERS' MARKET
furnishes the facilities
See PERCY JONES, Mgr.
60 Wabash Ave., CHICAGO.

GEO. REINBERG
Wholesale Grower of Cut Flowers
CHOICE AMERICAN BEAUTY ROSES
We will take care of your orders at reasonable prices. Prompt attention.
35 Randolph Street, CHICAGO, ILL.

VAUGHAN & SPERRY
Wholesale Florists
Valley, Carnations and Roses
58-60 WABASH AVE., CHICAGO.

J.A. BUDLONG
37-39 Randolph Street, CHICAGO.
Wholesale Prices of Cut Flowers, Chicago, April 16th, 1907
Prices quoted are by the hundred unless otherwise noted

Table with columns for ROSES American Beauty and CARNATIONS. Lists various flower types and prices per dozen.

THE BUSIEST HOUSE IN CHICAGO
J. B. DEAMUD CO.
Wholesale Cut Flowers
51 Wabash Av., CHICAGO
Consignments Solicited

WIETOR BROS.
WHOLESALE GROWERS OF CUT FLOWERS
All telegraph and telephone orders given prompt attention.
51 Wabash Ave., CHICAGO

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

Chicago Rose Co.
Rose Growers and Commission Handlers of Cut Flowers
FLORISTS' SUPPLIES
Wire Work our Specialty.
56-58 Wabash Avenue, CHICAGO.

Zech & Mann
Wholesale Growers and Shippers of CUT FLOWERS
51 Wabash Ave., CHICAGO.
Room 218. L D Phone 3284 Central.

PETER REINBERG
Wholesale Cut Flowers
51 Wabash Ave., CHICAGO, ILL.
Headquarters for American Beauty Rose

SINNER BROS.
WHOLESALE CUT FLOWERS
60 Wabash Ave., Chicago.
Careful attention to all SHIPPING ORDERS.

A. L. RANDALL CO.
Western Headquarters for Up-to-Date Florists' Supplies
Write for Catalogue
No. 19 RANDOLPH ST., - CHICAGO.

Poehlmann Bros. Co.
Wholesale Growers of Dealers in Cut Flowers.
All telegraph and telephone orders given prompt attention.
Greenhouses: 35-37 Randolph St., MORTON GROVE, ILL. CHICAGO.

ST. PAUL, MINN.
Send us your Orders for delivery to the Northwest, which will have our best attention.
L. L. MAY & CO., Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.
WHOLESALE FLORISTS and FLORISTS' SUPPLIES
Manufacturers of WIRE DESIGNS
457 Milwaukee St., MILWAUKEE, WIS.
Phone, Main 874. P. O. Box 108

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES
C. C. Pollworth Co.
MILWAUKEE, WIS.

Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

E. H. HUNT
The Old Reliable FOR CUT FLOWERS AND SUPPLIES
76-78 Wabash Avenue, CHICAGO.

Chicago.
News of the Week.
It is generally admitted among the numerous wire-workers that business has been remarkably brisk and constantly on the increase for some time; however, owing to the recent advance in the price of stock and the unionization of the workers an advance in the cost of finished goods is probable at any early date.
The eccentricities of the weather vie with the memory of the oldest inhabitant in producing meteorological wonders, and the week of cold freezing weather after Easter preceded by a week of Summer weather and succeeded by a week of drizzle and snow, have already shown effects on vegetation further South. But how serious they will be here remains to be seen. Much damage to fruit crops is reported from many sections.
The florists here think it an unjust discrimination against trade that their produce is barred from admission to the Council Chambers on inauguration night. The arrangements for the inauguration are entirely in the hands of the present Mayor and the city clerk who might be induced to change this rule.
Among the growers of bedding plants through this section reports of a general shortage of geraniums still continue to come in.
Grand opera last week, as usual, added its perceptible quota to the demand for the choice tid-bits.
'Billy' Kidwell, of Kidwell Brothers,

SOUTHERN WILD SMILAX

{ Now ready
in any
quantity }

Book orders now for future delivery. **Beaven's Fadeless Sheet Moss**, \$3.50 per bag, delivered. Seed for samples. Also **Fancy Holly** for Xmas trade. Satisfaction guaranteed. Write for prices.

E. A. BEAVEN
EVERGREEN, ALA.

Fancy or Dagger Ferns



Dagger Ferns, \$1.50 per 1000
Fancy Ferns, \$1.75 per 1000
Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
Boxwood, No. 1 Stock, 50 lb. cases, \$8.50
Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
Southern Smilax, fancy stock, 50 lb. cases \$5.50
Laurel Branches, 35c. per bundle

Telegraph Office: New Salem, Mass.

Long distance telephone connections

CROWL FERN CO., MILLINGTON, MASS.

HEADQUARTERS FOR HARDY CUT GREENS AND FLORIST'S SUPPLIES



Fancy & Dagger Ferns. Fine Quality \$2.00 per 1000.
New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.
Southern Wild Smilax \$3.50 and \$7.00 per case.
Laurel Festooning, Good

and full, 5c. and 6c. per yard.
Branch Laurel, 50c. per bundle.
Leucothoe Sprays, \$1.00 per 100.
Sphagnum Moss, 50c. per bag; five bags \$2.00.
Green Moss, \$1.00 per bbl



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes cut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.

15 Province St.—9 Chapman Pl.
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TEL. MAIN 2617-2618

The Headquarters for All Florists' Supplies IS IN BROOKLYN at 76 COURT ST.

We have developed our supply business to such an extent that it became absolutely necessary that we devote our whole time and space to this important branch of the florist industry.

We have upwards of 6,000 square feet of floor space in our show rooms, and carry a full line of all supplies; in fact, we have every requisite that is required by the retail florist.

Whatever Your Needs Are in this Line We Have It.
WRITE FOR PRICES.

HICKS & CRAWBUCK, Inc., 76 Court St., Brooklyn, N. Y.
Tel. 3660 Main.

EXTRA FINE FANCY AND DAGGER FERNS

\$2.00 per 1000. Discount on large orders. Leucothoe Sprays, \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season.
38 & 40 Broadway. Formerly DETROIT, MICH.
Miami Ave. Send for our weekly price list on Cut Flowers.

REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's. Monroe, Ala., Parlor Brand Smilax

THE BEST WAY

to collect an account is to place it with the
National Florists' Board of Trade
56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

Prices Advertised in these Columns are for



WITTBOLD'S Combination Vase and Plant Stand

Has been used for the past 15 years and has proved itself an invaluable asset to the decorator.

Price \$15.00 per dozen

The Geo. Wittbold Co.
1657 Buckingham Place
CHICAGO



Hanging Baskets

State quality wanted and I will be pleased to quote prices.

WM. E. HIELSCHER
WIRE WORKS

38 MIAMI AVE. DETROIT, MICH.

N. LECAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214 Madison Square



Stands at Out Flower Exchange Ooogan Bldg., W. 28th Street & 34th Street Out Flower Market.



SPECIALTIES: Galax Leaves, Ferns and Lencothoe Sprays, Holly, Pines and all kinds of Evergreens.

Green and Bronze Galax Leaves

THE AMERICAN CARNATION
Price, \$3.50

A. T. DE LA MARE PTB. & PUB. CO. LTD
2-8 Duane Street, New York

St. Louis, Mo.

News Notes.

W. T. Dwyer of Connersville, Ind., was a visitor the past week, demonstrating the value of the Heim carnation support to our local growers. Mr. Dwyer reports quite a batch of orders. He also attended the Florists' Club meeting on Thursday afternoon of last week.

Professor H. C. Irish, superintendent of the Missouri Botanical Garden, gave a very interesting lecture last Friday night before the Ladies' Club at Cabanee and King's Highway on Art and Home Grounds. These lectures will be repeated from time to time at different places. The professor is president of the St. Louis Florists' Club, and as the preparation of these lectures takes up a great deal of his time he had to miss the club's last meeting.

The jewelry store of Grim & Gorley, florists, at 1510 Cass avenue, was robbed of nearly \$1,000 worth of stock.

Julius Koenig has left the employ of Henry Berning. He had contemplated a trip to the Jamestown exposition, but gave that up and will now find something about town. He is a first-class man in the florist business.

Secretary Walter B. Stevens, of the Louisiana Purchase Exposition, is making preparations to turn over the grounds to the park department by August 1. They are now at work restoring the grounds by planting trees and shrubs. In his report he says that eight thousand trees and thirty thousand shrubs have been planted, and that before the time expires an additional six thousand trees and twenty thousand shrubs will be set out. A large force of men is now at work finishing up the undertaking.

The St. Louis Horticultural Society's executive committee has changed its day meeting to night meeting, owing to the busy season. They are making preparations for their Fall flower show, and are hard at work on the preliminary list, which they expect to have out by the end of the month.

ST. PATRICK.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY
W. J. COWEE, BERLIN, N. Y.
Samples free. For sale by dealers.

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

April 20, 1907

St. Paul.

Trade Notes.

Hoba & Olson have installed a very fine fountain, which adds greatly to the attractiveness of their store.

It is understood that the property belonging to Robert C. Seegar has been sold; all that remain are the ice-box and some florists' supplies, which will be disposed of by the receiver the coming week.

L. L. May & Company are now busy with their Spring delivery of nursery stock. Their packing has been unusually heavy and has been done in their new warehouse to good advantage. Mr. May has just purchased a Packard automobile, which takes him to his country home (Mayfield), a distance of 14 miles, in 45 minutes. PAUL.

Indianapolis, Ind.

Spring Show.

The exhibit of flowers at the Spring show of the State Florists' Association was not as heavy as in former years, but the quality was uniformly good. The growers from the surrounding cities contributed liberally. The evening session in the horticultural rooms of the State House was devoted to the routine business and discussions relative to the trade. The auction at the close netted a neat sum for the association. Following is the list of premiums awarded: Two pans tulips, M. Nelson, second; no first. Two spiraeas, M. Nelson first. Display 24 square feet, J. Grande, first. Twelve white roses, The E. G. Hill Company, first, with Frau Karl Druschki; Smith & Young Company, second. Twelve pink roses, Smith & Young Company, first; P. O. Tauer, Lebanon, Ind., second. Twelve red roses, B. K. & B. Floral Company, Richmond, first; Smith & Young Company, second. Twenty-five white carnations, B. K. & B. Floral Company, first; Baur & Smith, second. Twenty-five



The Whilldin Pottery Co.
STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

GEORGE RIPPERGER,
LONG ISLAND CITY N. Y.

pink carnations, Chicago Carnation Company, first with Aristocrat; Bertermanns, second with Mrs. Lawson Twenty-five light pink carnations, Stuart & Haugh, Anderson, first, with Enchantress. Twenty-five red carnations, J. D. Thompson Carnation Company, first, with Robert Craig. Twenty-five carnations any other color, Bertermann, first with Harlowarden; B. K. & B. Floral Company, second with Ruby.

Certificate of merit, Afterglow, Witterstaetter, 91 points; Purity, B. K. & B. Floral Company, 86 points; seedling 240, Bertermanns, 75 points.

One hundred double violets, J. Grande, first. Six plants lilies, M. Nelson, second; no first. Twenty-five daffodils, J. Grande, first; M. Nelson, second. One hundred sweet peas, Baur & Smith, first. Visitors E. G. Hill and Charles Knopf, Richmond, Ind.; Paul Tauer, Lebanon, Ind.; J. A. E. Haugh, Anderson, Ind. I. B.



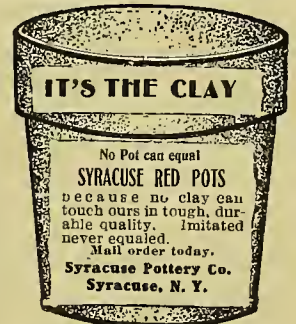
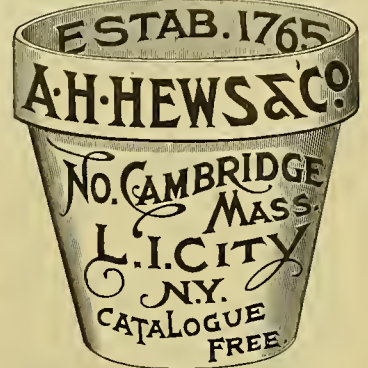
THE BEST
Bug Killer and
Bloom Saver

For PROOF
Write to
P. R. PALETHORPE CO.
LOUISVILLE, KY.

Sheep Manure

Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.



A COMPARISON OF COSTS

\$46⁸⁰

Is the cost of a one inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$140⁴⁰

Is the cost of a three inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$280⁸⁰

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\$369²⁰⁰

Is the cost of the *one cent stamp* required to mail 369,200 circulars, exclusive of the great additional cost of paper, printing, addressing, etc.

The advertisements in The Florists' Exchange are ALWAYS read. The circular generally goes into the waste basket, without being read.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20	80 8	5.00
1200 2 1/4 " " " 5.25	HAND MADE		
1500 2 1/8 " " " 6.00	48 9 in. pots in crate, \$5.60	48 10 " " " 4.80	
1000 8 " " " 5.80	24 11 " " " 8.60	24 12 " " " 4.80	
800 8 1/4 " " " 4.50	12 14 " " " 4.80	8 15 " " " 4.50	
820 5 " " " 8.16			

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts., 81 Barclay St., N. Y. City

NIKOTEEN APHISPUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES

NIKOTEEN LIQUID

FOR SPRAYING OR VAPORIZING

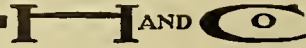
PRICE \$1.50 PER PINT \$13.00 PER CASE OF 10 PINT BOTTLES.

NICOTINE MFG. CO. ST. LOUIS MO.

IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.



PROBABLY ALL GREENHOUSES ARE SOME GOOD

but is "some good" good enough for you, that's the point? If you are an experimentalist, a man who tries this thing today, and another thing tomorrow, then any old construction will do, but if you are in earnest, and have your eyes open for the thing that saves you time, money and no end of annoyance—then you will be satisfied with nothing but one of our Iron Frame Houses. You'll have a house that's as good as a fifty years' insurance against repairs, and that will grow more plants and better quality. That's why we say write—and write today.

HITCHINGS and COMPANY

GREENHOUSE DESIGNERS AND BUILDERS. Manufacturers of Heating and Ventilating Apparatus
1170 Broadway, New York



Kalamazoo, Mich.

Trade Notes.

The first half of April marks a new record here for cold and cloudy weather, only two days of clear sunshine being recorded to date, and at present there seems no prospect of any immediate change. On April 14 the thermometer went down to 18 degrees accompanied with a brisk north wind which for the middle of April is considered pretty chilly. Of course, this sort of weather is not bringing out the buds very fast, so although there is no rush of business little if any stock goes to waste. A tie up of the street car service for a week or so also damaged the local trade somewhat since Easter, but things are now adjusting themselves to the usual conditions. Shipping trade continues good, and the bedding plant business begins to assume importance and promises to be good again this season. Notwithstanding the increased cost of production the same prices of ten years ago will prevail; while in cut flowers 25c. per dozen for carnations and 50c. for roses have got to be about the standard prices. Design work is cut in the same proportion, so where the profits come in seems a mystery.

This state of affairs seem to be rather prevalent if one may judge by the wages offered in the columns of the trade press by those seeking help, a florist of several years' experience seemingly being worth rather less than a common laborer. According to my personal observation and judgment the florist trade offers less inducement to bright young men now than it did twenty years ago, and explains the scarcity of good help that your Philadelphia correspondent speaks of. This recalls a remark of the late President McKinley on the labor question: "Cheap prices make cheap men, and you all know what cheap men are." If the florists have not already arrived at that stage they are perilously near it.

L. B. Bragg, a well known nurseryman of this city where he conducted one of the largest as well as oldest established places, died last week at an advanced age. The remains were taken to a crematory and incinerated in accordance with his last wishes.

I am sorry to report the death of Mrs. R. Wells, wife of the greenhouse foreman at the Central Nursery Company establishment. She died somewhat suddenly at the hospital on the 13th, where an operation on her had been performed. Mr. Wells told me on the previous day she was progressing favorably and hoped to see her out before long, but a turn for the worse developed and she died next morning about 10 a.m. The deceased lady who was only 23 years of age, leaves besides a husband, two small children aged 5 and 3 years. The remains were taken to Dawagiac for burial. Mr. Wells has the sympathy of the trade in his sad bereavement.
S. B.

FAIRHAVEN, MASS.—Peter Murray, the originator of carnation Winsor, recently underwent a serious operation for an abscess in his head. The operation was successful, and Mr. Murray is getting along as well as can be expected.

GREENHOUSE GLASS ALL SIZES

16x24 A. & B. Double a Specialty
C. S. WEBER & Co.
10 Desbrosses St., New York

DANIEL ILIFFE

Greenhouse Construction—Supplies
HEATING and VENTILATING
On hand, a quantity of second-hand valves from 2 to 6 in. Send for Catalogue.
49 Washington Street, North, BOSTON, MASS



Evans Improved Challenge

Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
RICHMOND, IND.



STANDARD Pumping Engines

Our Double Acting Deep Well Pumping Engine pumps from a well of any depth, and delivers water in a steady stream.

The Standard Pump & Engine Co
CLEVELAND, O.

ONE YEAR AFTER

using, Boulton & Son write: "Your hose is without doubt the best we have ever had on our place. It is just as good as when it first came on the place."

Wrought iron pipe lasts longer than steel. Get our prices on guaranteed wrought iron pipe. Send for FREE catalogue. "Kay" Boiler's Ventilating Apparatus, Tools, Valves and Fittings.
WILLIAM H. KAY Co., 244 Fulton St., New York City.

Omaha, Neb.

News Notes.

Trade has been very good in all lines. Carnations still remain scarce, but the rose supply is about equal to the demand. Violets are over; and bulbous stock on its last legs, cutting variety down considerably.

Zimmer Brothers have discontinued their store at Nineteenth and Farnam. Lew has gone to Wyoming.

Charles H. Green of Fremont called on the fraternity recently.

Mrs. Evans of McNamara & Evans is seriously ill with ptomaine poisoning.

Several of Lewis Henderson's corps are suffering with thorn poisoning; Mrs. Henderson narrowly escaped losing a finger. This curse appears every two or three years, and never strikes the same place twice.

Petersen Brothers' store was damaged last week, caused by a fire on the floor above.

Greenhouse Material Hot Bed Sash

of Louisiana Cypress and Washington Red Cedar



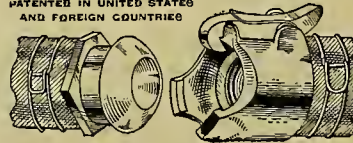
Greenhouse Hardware and Post Patent V and U Gutters.

OUR GRADE INVARIABLY THE BEST, OUR PRICES RIGHT.

Write for Catalogue and Estimate when figuring on your new houses.

A. DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL.

PATENTED IN UNITED STATES AND FOREIGN COUNTRIES



A solid brass casting, made as shown or threaded to fit ordinary hose couplers and faucets. Hose can be coupled and uncoupled in any position with one hand. The washers are stationary and will last years. A half minute saved every time you change hose.

\$3.00 per doz. sets, two pieces.

\$2.25 per dozen females for faucets.

Discount on gross lots.

EMIL GLAUBER,
MONTCLAIR, COLO.



The STANDARD VENTILATING MACHINERY

The original machine with self oiling cups; the most powerful, least complicated very compact, with ease of operation.

The New Duplex Gutter over six miles in use and highly recommended: the only drip proof gutter in the market.

The standard Return Steam Trap has no equal for simplicity or its work inge. Catalogue free.

E. HIPPARD, Vauxesstown O

Holds Glass FULL SIZE N.P.E.
Firmly
See the Point of
PEERLESS
Glassing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
114 Chestnut St., Phila., Pa.

WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses
Greenhouse Heating and Ventilating Apparatus.
P. O. Address, Box 789,
New York City.

ALL HEART

**SUN-DRIED
CYPRESS**

**GREENHOUSE
MATERIAL**
IS THE BEST
WE HAVE LOTS OF IT
SEND FOR SKETCHES
ESTIMATES AND FREE
CATALOGUE
VENTILATING APPARATUS
HOT-BED SASH
FITTINGS ETC.
FOLEY MFG. CO.
471 W 22ND ST.
CHICAGO

For Greenhouses, Graperies, Hot beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given

GLASS
N. COWEN'S SON,
14 & 16 Weoster Street, NEW YORK



U-BAR GREENHOUSES

FOR FLORISTS' SHOW ROOMS, PARKS AND PRIVATE ESTATES.

PIERSON U-BAR CO.

Send for Catalog

Designers and Builders U-Bar Greenhouses

Metropolitan Building, 4th Ave. and 23d St., New York

FRANK VAN ASSCHE
GREENHOUSE BUILDER.

Private or Commercial. Iron or Wood.

Factory and Yards: Fulton and Rose Ave.
and Dwight St., Jersey City, N. J.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.

SAVE TIME AND MONEY

OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING,
VENTILATING APPARATUS, HOT-BED SASH

Putty--**GREENHOUSE GLASS**--Points

AT WHOLESALE

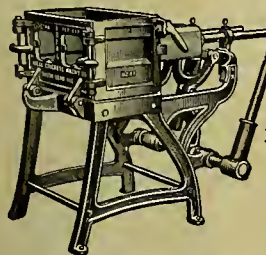
S. JACOBS & SONS,

GREENHOUSE CONSTRUCTION MATERIAL

1365-79 Flushing Ave.,

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FROST-PROOF
ECONOMY



Ideal Hollow Concrete Block construction will protect your greenhouse from frost and secure greatest economy in fuel.



The illustration of hollow block explains its resistance to frost. With the Ideal Concrete Machine you can yourself make these blocks from sand, gravel and cement at little cost—far below the cost of brick, stone or lumber. Ideal Blocks not only give frost protection, but are absolutely fire-proof, and effect a perpetual saving in insurance.

IDEAL Concrete Machines

May be operated by any man without previous experience. The process of making blocks is simple as making mortar. Blocks for every building purpose, with plain, tumbled, ornamental face or natural stone effect made with the same machine. Simple, durable and adaptable to any size block within capacity.

Our catalogue will show you how to secure frost protection and fuel economy, as well as initial saving over cost of other materials. Write for it and it is freely yours.

IDEAL CONCRETE MACHINERY CO., Dept. Z, South Bend, Ind.

MUSSENS, Limited, Montreal, Canada, Sole Agents for Canada.

THAT BOOKLET OF OURS

is worth every cent of what we ask for it and you should have one of them handy if you ever intend to put up a greenhouse. This book tells just how every piece of material is put together, gives valuable information about painting, glazing, and bench construction. Send to-day, enclosing ten cents in stamps to cover cost of mailing, postage, printing, etc. This book only repeats our statement that we handle everything in a common-sense way—get one now, as there are only a few left.

We'll also put your name down for a new catalogue if you want us to.

JOHN C. MONINGER CO.

CHICAGO

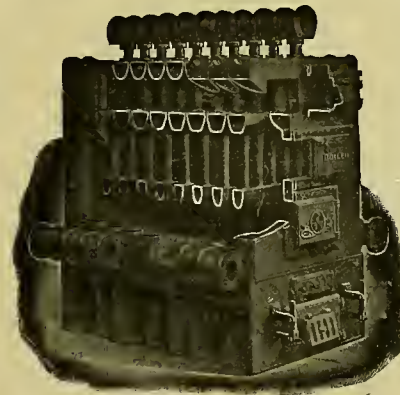
115 E. Blackhawk Street.

"The test of years is the real test."

Scollay Boilers

ARE BEST

See our advertisement in next issue. Catalogues sent on application.



JOHN A. SCOLLAY,
74-76 MYRTLE AVE.,
BOROUGH OF BROOKLYN,
NEW YORK CITY.
Telephones 1492-1483 Main.
U. G. SCOLLAY, Manager.

GEO. M. GARLAND

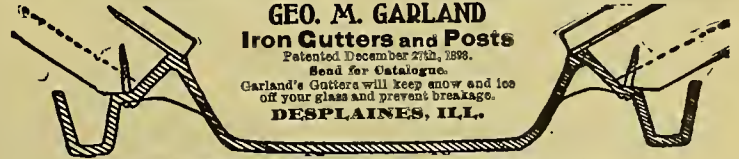
Iron Gutters and Posts

Patented December 27th, 1898.

Send for Catalogue.

Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DEPLAINES, ILL.



A sample of this gutter is on exhibition at Chicago Flower Growers' Market.

The Greenhouse Structural Co.

840 West 4th Street, CINCINNATI, OHIO

Manufacturers of

IRON FRAME GREENHOUSES

Re-enforcing for Concrete "Post and Board" Walls, Ventilating Machinery, Iron Fittings, Iron Purlins and Gutters for wood houses, etc., etc.

Send for catalogue and designs.



GOING TO Build a Greenhouse?

Get Prices from a manufacturer that handles the material from the tree to the finished stock and knows from experience just what is needed. We do this. No middle man's profit. Sash Bars any length up to 32 feet. Delivered prices to any point in Eastern States. Write for Circulars.

The A. T. STEARNS LUMBER CO.
Boston, Mass.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.



WHOLESALE TRADE LIST

Asparagus Plumosus, Ageratum Princess Pauline, Iomitable, Blue Perfection; Salvia, Ball of Fire; Heliotrope, Fuchsias, in variety, Moon-wine, the true white variety; Cupheas, Ipomoea, heavenly blue; Impatiens Sultan, variegated Periwinkle, Lantanas, dwarf; Cobaea Scandens, Parlor Ivy, Lobelias, dwarf; Snapdragon, giant white; Nasturtiums, Saxifraga Sarmentosa. The above nice plants from 2 1/2 in. pots, 50c. per doz., \$3.00 per 100.

I Manufacture and Erect

Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your requirements.

JOHN A. PAYNE

Horticultural Architect and Builder 33 Clendenny Ave., Jersey City, N. J.

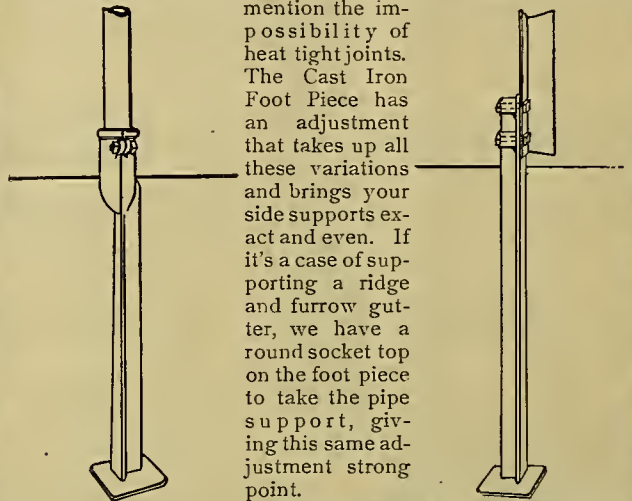
Sash opening apparatus and all kinds of greenhouse structural material.

Advertise in The Florists' Exchange and be sure of results



OUR GREENHOUSES--and MORE FOOT PIECE TALK

After you have set the wooden posts for your greenhouse, and lined them up carefully, some are bound to be a bit higher or lower than the others. That's a bad proposition to overcome, and if you don't overcome it, there's a wind—where there's a wind there's bound to be an uneven pressure and a continual breaking of the glass, not to



mention the impossibility of heat tight joints. The Cast Iron Foot Piece has an adjustment that takes up all these variations and brings your side supports exact and even. If it's a case of supporting a ridge and furrow gutter, we have a round socket top on the foot piece to take the pipe support, giving this same adjustment strong point.

You see our greenhouses are really nicely adjusted, balanced propositions, with ultimate economy always assured. For Sale: Every part or any part for good greenhouses.

Lord & Burnham Co.

Greenhouse Designers and Manufacturers.

NEW YORK OFFICES

1133 Broadway, Corner 26th Street.

BOSTON BRANCH: 819 Tremont Building. PHILADELPHIA BRANCH: 1235 Filbert Street



Look Here Mr. Florist and Gardener

WE have just passed through an unusually severe winter and you are apt to forget the many sleepless nights you spent worrying about the temperature of that No. so and so house.

Or the many zero nights that you spent in the boiler pit; maybe you did not have to do the stoking and firing, but you certainly had to do the worrying and pay the coal bills.

Now keep the vows you made on those trying occasions, And send for me. I have solved the problem for others, I can do it for you; and remember, I will come recommended by some of the most prominent commercial florists and gardeners in the East, "Personal friends of yours."

Wm. H. Lutton, Heating Engineer, WEST SIDE AVE. STATION, JERSEY CITY, N. J.

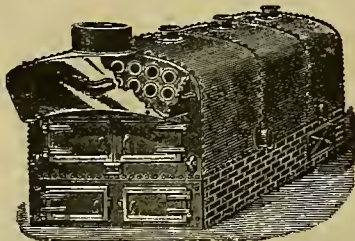
THE KROESCHELL BOILER

IS THE ONLY PERFECT HOT WATER BOILER

Made in 15 sizes heating 6 000 to 50,000 square feet glass to 60° at 15 below zero.

Prices and Catalogues on application.

KROESCHELL BROS. CO. 33 ERIE STREET, CHICAGO.



THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc. DILLER, CASKEY & KEEN. Successors to JENNINGS BROS.

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

TILE DRAINED LAND IS MORE PRODUCTIVE

Earliest and easiest worked. Carries off surplus water; admits air to the soil. Increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Encaustic Side Walk Tile, etc. Write for what you want and prices. J. H. JACKSON, 50 Third Ave., Albany, N. Y.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

A full line of mid-season supplies. Bridal Bouquet Holders, real lace, colors white, delicate pink, Alice blue, light cream.

Tone Ware Vases, very desirable. Cycas Leaves, Wheat Sheaves, Crepe Paper, Adjustable Pot Covers, Fern Baskets, zinc lined.

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A. HERRMANN Manufacturer of Floral Metal Designs

IMPORTER AND DEALER IN FLORISTS' SUPPLIES

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OFFICE AND WAREROOMS: 404, 406, 408, 410, 412 East 34th St.

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Prices Advertised in these Columns are for

FLORISTS' EXCHANGE

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

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

Vol. XXIII. No. 17

NEW YORK AND CHICAGO, APRIL 27, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duller winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR
Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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



Grafted Stock

Richmond, Wellesley, Liberty, Bride, Bridesmaid, Bon Silene, Safrano and Mrs. Oliver Ames.

Splendid stock of ASPARAGUS PLUMOSUS NANUS SEEDLINGS, Seeds saved from my own plants.

W. H. ELLIOTT, Brighton, Mass.



CALADIUMS

(Elephant's Ears)

SOUND BULBS, LIVE CENTER SHOOTS

Special Surplus Offer F. O. B. New York

9 to 12 inches in circumference \$4.00
12 inches and up..... 7.50

GLADIOLUS

	Per 100	1000		Per 100	1000
MRS. FRANCIS KING.....	\$1.50	\$40.00	Vaughan's XXX Florists' Mixture, made from named light and white kinds.....	\$1.75	\$15.00
Augusta, finest light color..	2.50	20.00	Good Mixed.....	.85	7.00
Brenchleyensis.....	1.35	11.50	Fine Mixed, all colors.....	1.25	10.00
Ceres, fine pink.....	1.40	12.00	Childsii, fine mixed.....	2.00	18.00
Isaac Buchanan.....	4.00	35.00			
May, white, pink flaked.....	1.75	14.00			

TUBEROSES

1st SIZE 4 TO 6 INCH; MEDIUM SIZE 3 TO 4 INCH
Write for prices

DAHLIA. Field Grown Clumps
Pink, White, Yellow, Red, \$1.25 per doz.
\$10.00 per 100
MADEIRA VINES, \$1.00 per 100; \$8.50 per 1000
LILIUM AURATUM, RUBRUM, ALBUM. Write for prices.

LAWN SEED. Vaughan's Central Park
Clean, heavy seed, sure to grow.
Half-Pound Lithographed Pkgs., per doz. \$1.20; per 100 \$8.50. Pound Lith. Pkgs. doz. \$2.20; 100 \$16.50; Bu (15 lbs) \$2.50; 100 lbs. \$14.00.
BONE MEAL, SHEEP MANURE
Write for prices

VAUGHAN'S SEED STORE

14 Barclay St., New York Tel. 1076 Cortlandt
CHICAGO, 34 Randolph St. Greenhouses, Western Springs

Seasonable Stock

GERANIUMS. Standard varieties and Novelties, from \$2.00 per 100 up to 75 cts. each. We will send 1000 in 20 varieties our selection, single and double for \$18.00.					
Caesar Franck. Beautiful soft crimson, double Ivy Geranium, 1905 Novelty, 25 cts. each, \$2.50 per doz., \$20.00 per 100.					
Alliance. The handsome semi-double hybrid between an Ivy and a Zonale, color of the Col. Baden-Powell, strong robust grower, 25 cts. each, \$2.50 per doz., \$20.00 per 100.					
DAHLIA PLANTS. We offer a collection of ardar sorts that is second to none in the country, as far as covering the field of distinct useful varieties and Novelties, running in price from \$2.00 per 100 to 50 cts. each. Send for list.					
FUCHSIAS. Extra strong stock, from 2 inch pots, in the following varieties: Black Prince, Elm City, Lieut. Mauritz, Marinka, Minister Boucher, Minnesota, Mrs. Gladstone, Phenomenal, Rose Phenomenal, White Phenomenal and Speciosa \$2.50 per 100, \$20.00 per 1000. (Special price.)					
CALADIUM BULBS. 9 to 11 ins., \$2.00 per 100.					
MADEIRA VINE. \$1.00 per pk., \$3.50 per bu.					
DAHLIA ROOTS. Good assortment, \$6.00 per 100.					
HARDY CHRYSANTHEMUMS. Large flowering or Aster varieties, \$3.00 per 100, \$25.00 per 1000.					
HARDY CHRYSANTHEMUMS. Small flowered or Button varieties, \$2.00 per 100, \$18.00 per 1000.					
AGERATUM, Stella Gurney... \$2.00 \$18.00					
Inimitable, Giant Blue..... 3.00 25.00					
Dwarf White..... 2.00 18.00					
ALTERNANTHERA, six varieties, extra strong..... 2.00 18.00					
CANNAS, 3 in. pots, 12 varieties..... 4.00 35.00					
HOLLYHOCKS, double Mixed and White, 3 in. pots..... 3.00 25.00					
LEMON VERBENA, Aloysia Citriodora..... 2.00 18.00					
Extra strong, 3 in. pots..... 4.00					
HARDY ENGLISH IVY, extra strong..... 2.00 18.00					
MOON VINES. Blue and White 3.00					
HARDY PHLOX. 10 varieties.. 3.00 25.00					
SALVIA, Bonfire and Splendens 2.00 18.00					
PARLOR IVY, Seneclo Scandens..... 2.00					
SMILAX. Good stock..... 2.00 18.00					
VERBENAS. White, purple, striped and scarlet..... 2.00 18.00					
Mixed all colors..... 1.50 15.00					
DUSTY MILLER, Centaurea gymnocarpa..... 1.50 15.00					

All stock in A No. 1 condition, and from 2 inch pots, unless otherwise stated.

Our Wholesale Catalogue to the trade only.

Visitors always welcome.

CASH WITH ORDER.

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



BAMBOO CANES

Fresh from Cane Brakes \$6.00 1000

Hanging Baskets Rustic

10 in Bowl	\$1.10	Doz.	\$11.00
12 " "	1.25	"	13.00
14 " "	1.50	"	16.00

Raffia for tying purposes 14c. lb., 100 lbs. \$12.00.

Verbena Baskets, No. 2, 4 x 10 x 3 in. 100, \$2.00
No. 3, 6 x 11 x 3 in. 100, \$2.25

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

GET READY FOR DECORATION DAY

Lily of the Valley

FROM COLD STORAGE

Hamburg Pips Re-Selected	100	1000	Cases of 2,500
Berlin Pips AI Quality	\$1.75	\$13.00	\$28.00
Dresden Pips (The acme of perfection)	2.00	16.00	34.00
	2.50	18.00	40.00

ORDER AT ONCE AND LET US BOOK FOR FUTURE DELIVERY

Rawson's Bulbs are Quality Bulbs

W. W. RAWSON & CO.

5 UNION STREET, BOSTON, MASS.

P. S. We are now Sole Distributors for Boston for Curman's Antipest, if you wish to know what it is, send for a circular.



Thorburn's Seeds

Our Wholesale CATALOGUE for florists and market-gardeners is now ready and will be sent free to all who ask for it.

COLD STORAGE

Lily of the Valley Pips

BEST POSSIBLE GRADE

In cases of 1000 and 3000 pips each a \$12.00 per 1000.

Advance orders now being booked for Bermuda Easter Lilies. Send for prices.

1000 in case, @ \$12.00 per 1000.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place, New York.

FISKE'S SEEDS

For Immediate sowing

—ALSO—

GLADIOLUS BULBS

IN VARIETY AND MIXTURE

Our trade list mailed on application.

H. E. FISKE SEED CO.

12 & 13 Faneuil Hall Sq., BOSTON, Mass

BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

W. & D.'s Specialties for Forcing

Mignonette "New York Market"
Sweet Peas "True" Christmas Flowering (Pink and White)
Tomato "The Do" Tomato "Sizzling Castle"
Mushroom Spew "Eglist" and "Pure Culture"
Send for 1907 Catalogue.

WEBBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK

New Crop Seed

ASPARAGUS PLUMOSUS NANUS (Greenhouse Grown), 1000 seeds, \$4.00.

ASPARAGUS SPRENGERI, 100 seeds, 15c., 1000 seeds, 75c.

Choice Canna Tubers

25 Varieties, \$17.00, \$19.00, \$22.00 and \$24.00 per 1000.

W. C. BECKERT, Allegheny, Pa.

S. M. ISBELL & CO.

JACKSON, MICH.

Seed Growers for the Trade

BEANS, CUCUMBER, TOMATO,

Radish, Peas, Muskmelon,

Squash, Watermelon, Sweet Corn.

We are now hooking orders for 1907, Fall delivery. Send for Contract Prices also surplus List.

C. C. Morse & Co.

SEED GROWERS

171-173 Clay St., San Francisco, Cal.

ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES

Warehouses, Santa Clara. Farms and Farm Hqs. rters, Carnadero, near Gilroy ad

ASPARAGUS PLUMOSUS NANUS

(Greenhouse Grown)

FINE PLUMP SEED

\$5.00 per 1000

ESTABLISHED 1824

Bridgeman's Seed Warehouse

Rickards Bros., Props.

37 EAST 19TH ST. Near Broadway

NEW YORK CITY

Telephone: 4225 Gramercy

Giant Cinerarias

Mixture of perfect Colors

Dwarf Hybrids } Each separate
Semi-Dwarf Hybrids } Tr. Pkt. \$0.50
5 Tr. Pkts. \$2.50

O. V. ZANGEN, Seedsman, HOBOKEN N. J.

Gladiolus Bulbs

Of the following varieties we have exceptionally large and choice stock

Augusta.....	100	1000	5000	White and Light	100	1000	5000
Brenchleyensis,	\$2 50	\$20 00	\$95 00	Special Mixed,	\$1 50	\$12 00	\$57 50
selected 1st size	1 50	10 00	47 50	extra large se-			
lected bulbs	2 00	15 00	60 00	lected bulbs	1 00	8 00	37 50

Gold Medal Strain

Single White.....	Doz.	100
" Yellow.....	\$0 40	\$2 50
" Nankeen.....	40	2 50
" Pink.....	40	2 50
" Rose.....	40	2 50
" Red.....	40	2 50
" Dark Red.....	40	2 50
" Salmon.....	40	2 50
" Orange.....	40	2 50

Begonias

Tuberous Rooted

Single Mixed.....	Doz.	100
" Double White.....	\$0 35	\$2 25
" Yellow.....	65	5 00
" Orange.....	65	5 00
" Rose.....	65	5 00
" Dark Rose.....	65	5 00
" Dark Red.....	65	5 00
" Red.....	65	5 00
" Salmon.....	65	5 00
" Mixed.....	50	4 00

Stumpp & Walter Co

50 BARCLAY STREET,

NEW YORK

FLOWER SEEDS and BULBS

ASTER SEED. We are the leading specialists and largest growers of high grade Asters in the world, and have originated more of the standard varieties than all other American seedsmen combined. Five new varieties this past season. **One Packet of Each for \$1.00.**

Daybreak and Purity. 1/8 oz. 35c., 1/4 oz. 50c., 1/2 oz. 80c., 1 oz. \$1.50.

Vick's Branching. The original strain from which have come all others of any worth. White, Pink, Lavender, Rose, Crimson, Purple and Dark Violet, 1/8 oz. 20c., 1/4 oz. 35c., 1/2 oz. 65c., 1 oz. \$1.25.

Sweet Peas and Nasturtiums. A large supply of the newest and best varieties.

Flower Seeds for Greenhouse and Outdoor Planting. All the kinds which florists grow.

Dahlias, Gladioli, Cannas, Caladiums, Tuberoses, Tuberous Rooted Begonias, Geraniums, and all other tender and hardy plants in season.

The Spring trade has opened very briskly, pointing to another record breaking season. We are prepared to execute all orders the day they arrive. We should like to be favored with an order from you to-day. Address "Wholesale Department" and state whether you are a florist or dealer.

JAMES VICK'S SONS, Rochester, N.Y.

BARGAINS—NEED ROOM

CALADIUM ESCULENTUM, 5-7 per 100, \$1.00.

CALADIUM ESCULENTUM, 7-9 per 100, \$2.50.

CALADIUM ESCULENTUM, 9-11 per 100, \$4.50.

TUBEROUS ROOTED BEGONIAS, single, in 7 separate colors, extra fine, \$2.00 per 100.

CANNAS, extra selected stock, 2 to 4 eyes:

Allemania, Austria, Burbank, Robusta, per 100, \$1.00.

Martha Washington, Florence Vaughan, C. Henderson, Sec. Charbanne, Mile, Berat, Paul Marquant, Explorateur Crampel, per 100, \$1.50.

Coronet, America, Queen Charlotte, Egandale, President Carnot, per 100, \$2.00.

Extra fine dormant ROSES in the leading varieties on hand.

F. W. O. SCHMITZ, PRINCE BAY, N. Y.

LAWN GRASS SEED

in Bulk and Packages

Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

THE ALBERT DICKINSON CO.

MINNEAPOLIS

CHICAGO

Double Sweet Scented CHINESE PEONIES
EXCEPTIONALLY FINE ROOTS WITH 7 TO 7 BYES

Double White \$1.50 per doz.; \$8.00 per 100
Double Pick 1.25 per doz.; 7.00 per 100
Double Red 1.25 per doz.; 7.00 per 100
Double Mixed 1.00 per doz.; 6.00 per 100

Write for Peony List.

JOHNSON SEED CO. 217 Market St. PHILADELPHIA, PA.

ESTABLISHED 1900

POAT BROS. BULB GROWERS
ETTRICKS, VA.

NARCISSI TULIPS DAFFODILS IRIS, ETC.

Send For Catalogue.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; O. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

LARGE PRIVET

3 to 4 feet 1000 \$30.00
4 to 5 feet, X 500 30.00
5 to 6 feet 500 30.00
6 to 7 feet, XX 500 30.00
Wichuriana Hybrida, 2 year 40.00
Plenty of shrubs at low prices.

CANNAS, 4 inch pots, \$6.00 per 100.

ELIZABETH NURSERY CO., Elizabeth, N. J.

建 CLEARANCE BEFORE MOVING TO 70 WARREN STREET, MAY 1ST

Each 12 100

Japan Maples, 2 1/2-3 1/4 ft., in choicest varieties \$0.60 \$6.00 \$45.00
Japan Magnolias, in sorts 40 4.00
Japan rose Shrubs 40 4.00

Iris Kämpferi
Every florist should have some of these fashionable flowers. 12 100

Extra Strong Clumps, flower first season, all colors, 50, \$5.00 \$1.50 \$8.00

Gloxinias
MUST GO. 1 1/2 in. bulbs, in separate colors or named 40 2.50
All colors mixed 30 2.00

Address: **H. H. BERGER & CO., 47 Barclay St., New York**

Caladium Esculentum (Elephant's Ear) 12 100
6 x 8 \$0.20 \$1.50
7 x 1035 2.50

Fancy Leaved Caladium
Named 1.50 10.00
Mixed 1.00 8.00

Asparagus Plumosus Nanus Seed 100 1000
Greenhouse crop (limited stock) \$0.50 \$3.00
Open Air (Lath-house grow) 25 1.75
Fresh **Asparagus Sprengeri** 15 1.75

For larger lots apply for prices, After May 1st address us at **70 Warren St.**

TACOMA, WASH.—Fawcett Brothers, seeds and machinery, have been incorporated; capital, \$10,000; incorporators, H. I. Fawcett and V. A. Wilson of Tacoma.

NEW YORK.—Henry Nungesser of H. Nungesser & Company and Robert Pommer of D. J. Bushnell & Company, St. Louis, Mo., sailed for Europe this week on the Kronprinz Wilhelm.

COLUMBUS, O.—Johnson & Pyle have handled a very large quantity of onion sets this season and with most satisfactory returns, as from the very start we have had a continually advancing market with a gain of some \$1.50 per bushel over initial transactions. F. G. Johnson of this firm was, until very recently the treasurer of the Livingston Seed Company. F. W.

CHICAGO.—The recent cold weather called a sudden halt to the seed trade which had developed such a precocious opening. It is probable however, much damage was suffered by the market gardeners as a result of which considerable replanting will be necessary.

Knud Gundestrup reports a very active Spring business at his Milwaukee avenue seed store. About the first of June he has planned to start on a two or three month's tour through Europe, including a visit to the principal seed centers.

IMPORTS OF SEEDS.—April 13 and 14.—Andreas Olsen, 200 bags clover seed; C. C. Abel & Company, 10 plants; H. Frank Darrow 25 boxes seed; C. A. Haynes & Company, 16 boxes plants; F. B. Vandegriff & Company, 39 packages plants; Rooney & Spence, two cases plants; four cases trees, nine cases nursery stock; Hensel, Bruckmann & Lorbacher, one package seeds; Maltus & Ware, one case live plants. April 15.—Bronx Park Botanical Gardens, three packages plants; April 16.—Lager & Hurrell, two cases plants; C. G. Richard & Company, 27 packages plants; August Rökler & Sons, 25 cases plants; Jan Ter Kuile, two cases plants; 12 tubs laurel trees; F. B. Vandegriff & Company, 100 tubs laurel trees; E. R. Durkee & Company, 250 sacks seed; Ammerman & Patterson, 14 packages trees; C. A. Haynes & Company, one package trees; McHutchison & Company, 12 packages plants; Rooney & Spence, one package plants; Brown Brothers & Company, 150 bags caraway seed; H. Frank Darrow, four cases plants; Edge & Company, two packages trees; Maltus & Ware, 18 boxes plants, five cases trees; McHutchison & Company, 61 cases plants; P. Onwerkerk, 36 cases trees; C. B. Richards & Company, 129 cases plants; Rooney & Spence, 30 packages plants, 14 cases trees; S. Stern, 15 cases plants; W. H. Smallwood & Company, nine cases plants, 32 cases trees; C. V. Ward, 35 cases plants; O. G. Hempstead & Son, 34 cases plants; P. H. Petry & Company, one case plants, 16 tubs laurel trees; T. C. Pollock, 42 packages plants, etc.; Siebrecht Sons, one package plants.

April 17.—R. F. Lang, one sack seeds, one case live plants; F. B. Vandegriff & Company, one case plants; C. Villegas, 20 cases live plants; Maltus & Ware, 20 cases plants; A. S. Lascelles & Company, one case seeds; C. de P. Dellegas, two cases live plants. April 18.—Maltus & Ware, one case plants; F. Hoenicke, 50 bags seed.

April 19.—Maltus & Ware, 20 cases plants; Wells, Fargo & Company, seven boxes bulbs, one box lily buds. April 20 and 21.—Hensel, Bruckman & Lorbacher, one case plants; F. W. Hampton, Jr. & Company, 11 cases plants, seeds, etc.; O. G. Hempstead Son, 25 cases plants; Hussa & Company, eight cases plants; Chas. F. Meyer, four cases live plants; E. L. Boas, three cases plants; F. Hollender & Company, four packages plants, etc.; Rooney & Spence, three cases plants. April 22.—C. A. Haynes & Company, 10 cases live plants.

EXPORTS OF SEED, ETC.—April 19.—Shipped from New York to London, 250 packages seed, valued at \$1,675.

PHILOSOPHY OF THE CATALOGUE.—Your catalogue is the lever which you employ to overcome the inertia of your prospective customers. It is your brains spread out thinly on paper. Its reason for existence is that you cannot be in more than one place at a time, and because it costs less to mail than your car fare would cost you in making a call. Nevertheless, it always represents you and your business, and your trade will estimate your personality and the quality of your product largely by the appearance and convenience of your catalogue. It should not be either too expensive or elaborate for the grade of goods you have to offer, any more than you should put on a white vest and a high silk hat when you intend to call on a customer. It's then the "right clothes in the wrong place," and your customer might be afraid to handle it much for fear of spoiling it.

On the other hand, if a catalogue looks as though the man who sent it was suffering from chronic constriction of the purse-strings, the recipient is likely to fear that the quality of the goods is likely to be equally skimpy. Do not let your catalogue be freakish, either in design, composition or material. It will make the same impression on the man who requested it that you would if you called upon him clad in a swallow-tailed coat and a suit of pajamas.

Don't imagine with our friend Elbert Hubbard, that merely because you use "butcher manila" for a cover, people will think there is real "meat" inside of it. Appearance will not make or unmake a man or a catalogue; but it does create first impressions, which, if favorable, will make a handicap which even low prices and quick deliveries will not readily overcome.

From the above remarks, it would seem that a catalogue has many of the characteristics of a human being—a specialized business man, minus only the desire to eat and get drunk, and capable of producing great results in a business way, either for good or for harm. This last is exactly the case. Your catalogue (or other advertising) can just as easily be a source of direct loss as of profit, just as any business can easily be destroyed by lack of knowledge regarding its essential features.—PURE WHITE.

European Notes.

Before last week's mail had finally left the Irish shore we were all fairly buried in one of the heaviest snowfalls of the Winter; the weather of the present week has been dull, wet and cheerless. While this has made an invalid of every third man one meets, it has helped vegetation forward at a surprising pace. Peas and other seeds that have lain almost dormant for a month past are pushing through very nicely, and if we can coax Old Sol into renewed activity all may yet be well, and the season not quite so late as we expected. In the meantime the demand for peas, especially those of the tall wrinkled type, is very moderate. Such sterling varieties as Ne Plus Ultra can be bought at less than their cost to grow. On the other hand, the demand for Gradus is so good that holders of worthless lots that should have been sown for pig food are publicly advertising them to be used for seed purposes. Some of your readers know full well what that means at podding time.

One pleasant surprise, which may affect the American market next year, is the greatly increased demand for onion seed. The market price of the bulbs is nearly double what it was in January and growers are planting heavily in the hope that similar conditions will prevail next year. The German Giant Zittauer is an exception to the foregoing, for a large quantity of seed of poor germination is waiting for a purchaser. As already reported in this column the supply of bulbs in France and England is totally inadequate, and as stocks of seed that were intended for carrying over have now been sold, the American growers need not fear any competition from this side.

As regards turnips, the phenomenally high prices now obtained for the yellow

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing GROFF'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and line Mixtures of all colors. Write for it.

ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM BERLIN, N. Y.

DAHLIAS AND THE DAHLIA MANUAL

An illustrated up-to-date work covering the whole field of Dahlia Culture. Price \$5c.

Send for catalogue of Dahlias, Hollyhocks and Hardy Plants. I handle only the cream of varieties. M r a. Winters, Mrs. Daal, Na- vaajo, Dainty, Kriemhilde, etc. My Dahlias have long been celebrated as prize winners.

W. W. WILMORE
Dahlia Specialist. Box 382, DENVER, COLO.

Gladioli—NOTHING BETTER ANYWHERE.
Cannas—VERY BEST SORTS.
Carnations—THE MONEY MAKERS.
Paeonias—1200 sorts, finest sorts in liberal supply.
Send for a list of our offers.

C. BETSCHER, Canal Dover, Ohio

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. PEACOCK, inc.
ATCO N. J.

VEGETABLE PLANTS

LETTUCE, Grand Rapids, Big Boston, 100 1000
Boston Market and Tennis Ball
Ready May 1st \$0.20 \$1.00

PARSLEY, Moss curled 25 1.25
BEETS, Eclipse 25 1.25
CELERY, White Plume, White Solid, and Celeric, Giant Prague, .20 1.25

EGG PLANTS, N. Y. Improved, small for transplanting 25 2.00
EGG PLANTS, from 2 in. pots 2.00
PEPPER, Bull Nose and Sweet Mountain 25 2.00

TOMATO, Earliana, Early Jewel, Lorrillard and Mayflower 30 2.00
Stone, Perfection and other late kinds .20 1.00

CABBAGE, Ready May 10th. Standard sort in any variety 1.00

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

DAHLIAS. Field grown leading kind named for end flowers, whole roots, \$3.50 per 10.
Mixed \$3.00 per 100.

40 leading kinds, n. e. m. d. \$1.60, \$2.00 and \$3.00 per 100.

CANNAS. Giant, single and double fringed, Salviae, phlox.

PETUNIAS. Geranium, Pinks, etc. 2 1/2 in. \$2.00 per 100. Cash please.

SHELLROAD GREENHOUSES, Grange, BALTIMORE, MD.

OLD FASHIONED Sweet Lavender

five plants, 2 in. pots, 1 year old, 6c.
ASPARAGUS all sold.
R. C. HANFORD. Norwalk, Conn.

Cold Storage Valley
For Decoration Day

Our "Excellent" Valley is the finest and best for quick forcing. Order today.

Cases of 500 pips \$7.50; cases of 2000 pips \$28.00; cases of 2500 pips \$31.00.

JOHN SCHEEPERS & CO.
2-6 Old Slip New York City

East Bridgewater Dahlia Gardens

Not only has the largest, but the finest collection of up-to-date DAHLIAS, of any firm in America. Send for free catalog, to the

J. K. Alexander, E. Bridgewater, Mass

IF YOU NEED

Summer-Flowering Bulbs

German or Japan Iris,
write us for prices. We have the stock and can give you satisfaction.

JOHN LEWIS CHILDS, Floral Pa N. Y.

Lambert's Pure Culture Mushroom Spawn.
Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized.

Has never failed to run. Sold by Leading Seedmen. Practical instructions on "Mushroom Culture" mailed free on application. American Spawna Co. St. Paul, Minn.

Aberdeen section, purple top especially, is the most noteworthy feature. In another ten days we shall be able to prepare some forecast of the probable crops of this article in 1907.

The following report from the South of France very fairly describes the situation of cultures in that district.

"The situation of the growing crops in France can be stated as follows: After a very long, cold and for our quasi-subtropical climate, unaccustomed Winter, our sky has at last cleared up in the sense that the Spring has made its entrance, sending us good warm sunrises, exercising its beneficial influence over the earth and vegetation. People are beginning to transplant their roots and yearly seedlings.

"A good many plants have suffered terribly from either want of water or Winter cold. You may have an idea of the harm done to the seedlings and plants when it is said that at Priory, the drought and the total absence of water in the irrigation canal (the riverbed of the Durance River was quite dry) have prevented the seeds from growing, bringing about a pronounced shortage of roots for transplanting purposes. Further, the very long, dry and cold Winter has rotted and lost a great deal of kohlrabi, carrots, radishes, cabbages, mangels, double wallflower, Winter stock, and pansies."

EUROPEAN SEEDS.

Coatesville, Pa.

This city can at least boast of one good carnation grower in the person of James Brown, Jr. He has five large greenhouses, 40x165 feet. Each house has four benches running the entire length of the house where all the best commercial varieties are grown. One noticeable feature here is an element of usefulness that Mr. Brown has added to the other desirable points of his plant. He has now three rows of tomatoes on each bench, one in the middle and one on either side. They are set about four feet apart and at the time of writing were about eighteen to twenty-four inches high.

After Decoration Day, when the carnations are thrown out, the entire houses are then turned over to the tomatoes. Each bench also is edged with a well established border of parsley. These little adjuncts add considerably to the productive qualities of the greenhouses without the least apparent injury to the carnations or principal crop.

J. M.

CATALOGUES RECEIVED.

FREDERIC J. REA, Norwood, Mass.—Catalogue of Hardy Herbaceous Perennials, Roses, Shrubs, Vines, etc. Gives Height, Season of Flowering, etc., and botanical and common names. An interesting and valuable catalogue.

CYCAS STEMS

A shipment of fine stems or trunks just received. Pot them up now and have salable plants early.

\$2.25 for 25 lbs.; \$5.50 for 100 lbs.; 300 lb. case \$24.00.

Chinese Primula Seeds

Our strains are produced by a primula specialist and are noted for size of bloom and brilliancy of color.

Mitchell's Choicest Mixture 1/2 trade pkt. 60c.; \$1.00 per trade pkt.; \$2.00 per 1-16 oz.

	Trade	Trade
	pkt.	pkt.
Alba Magnifica, white.....	60c.	\$1.00
Chiswick Red.....	60c.	1.00
Holborn Blue.....	60c.	1.00
Kermesina splendens, red.....	60c.	1.00
Rosy Morn, pink.....	60c.	1.00

A full line of PRIMULA OBCONICA

Send for our Florists' Wholesale Catalogue

Henry F. Mitchell Co.

1018 Market St., Philadelphia

Dorranceton, Pa.

To all florists the name of Dorranceton is inevitably associated with roses, and rose growing. It is here that Benjamin Dorrance has erected a princely home as well as one of the finest ranges of greenhouses in the State for commercial rose culture.

The Dorrance family has from earliest times been connected intimately with all the progress and development of the township that bears their name. The property upon which the residence and greenhouses are built has been in the possession of the Dorrances for many generations back.

The rose growing plant here consists in all of nearly 40 greenhouses, 150x30 feet. Both raised benches and solid beds are used. No grafted rose of any description is ever planted.

Mr. Dorrance was, at the time of our visit, in Florida where he had spent the greater part of the Winter. Miss Dorrance and Miss Frances Marcum are the managers in chief, and ladies in waiting on over 60,000 blooming roses. More roses bloom under the direction of these two ladies than probably any other two in the entire country.

It was to Miss Marcum your correspondent was indebted for the pleasant tour through the many greenhouses at Dorranceton. There is no detail of rose growing, practical or technical, from soil preparation to the gathering of the crop that Miss Marcum cannot talk intelligently and entertainingly about.

Fourteen large houses are devoted to Killarney; eight to Liberty and Richmond; four to Mme. Caroline Testout and one each to the following varieties: Mme. Cusin, Franz Deegen, Mrs. Pierpont Morgan, Golden Gate, Sunrise, and Sarah Nesbit. The latter is a home production, a sport from Mme. Cusin of similar habit and of equal productiveness as its progenitor. It is a beautiful shell pink shading to white at center. A house of this variety in full bloom was a pretty sight and it was no debut party either, for Sarah Nesbit had presented the same appearance the whole Winter through. The entire stock of this rose is in the hands of the Dorrance family and has never been offered to the trade.

Besides roses two large houses are devoted to gardenias—three benches in each house and in all about 3,000 plants. These were looking just as good as you find them along the Mississippi bayous or the deltas and everglades of the Gulf Coast.

Shipments of cut roses are made each day, Saturdays excepted, the entire year round to the New York market. Material for boxes for shipping is received in carload lots, and a carpenter is one of the daily requisites on the payroll of the firm.

J. M.

Forty Fort, Pa.

About twenty minutes' ride from Wilkesbarre brings one to this historic little borough. Here are two new florist establishments—Wm. J. Stroh and Ed. T. Moyer. Mr. Stroh is superintendent of the old Forty Fort cemetery, clerk of the Borough of Luzerne, and has a nice cut flower store and greenhouse establishment just across from the cemetery.

Ed T. Moyer has an entirely new place a little farther out. He has 20,000 feet of glass and grows roses and carnations for the Wilkesbarre and Scranton trade. Mr. Moyer has found business good during his first season, so much so that he is to increase his glass area the coming Summer by a large house for Lawson carnations. He will grow both the pink and the white sorts.

J. M.

PORTLAND, ORE.—To hold a rose show in the city in June is a proposal taken by the Chamber of Commerce. The city authorities have consented to permit the use of the Forestry building for the purpose, and several local organizations will probably be asked to participate in the event. The Portland Railway, Light & Power Company will furnish free lights in the building and probably about the grounds.

MEADVILLE, PA.—George W. Haas & Son report sales this year far ahead of those of last season. Their March business was 50 per cent. ahead of former years at the same time. Easter trade was very good.



TUBEROUS ROOTED BEGONIAS

Fine Bulbs. Cut price to close out.	doz.	100	1000
Single, Yellow, Red, Rose, Lemon, Orange and White.....		\$3.35	\$2.00
Single Mixed.....		.30	1.90 18.00
Double Yellow, Rose, Orange.....		.45	3.50

GLOXINIAS, Fine Bulbs

Red, Spotted, Scarlet and mixed.....	.45	3.00
--------------------------------------	-----	------

Asparagus Plumosus Nanus

Best Greenhouse grown.....	50	3.00
----------------------------	----	------

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

JAPANESE IRIS

Every florist should have a bed of this beautiful class of Iris. They are perfectly hardy and need little care. The large and magnificent flowers are very useful for cutting. Our collection consists of 25 of the best varieties. Strong clumps: 15c. each, \$1.50 per doz.; \$3.00 for the set of 25 varieties.

PANSIES

Strong bushy plants raised from our "Gold Medal Strain" sown in July. \$3.00 per 100; \$27.50 per 1000.

PERENNIAL GARDENS CO.

TOLEDO, O.

During 1906 we furnished to the trade over One Hundred Thousand of the below described leaflets.

CULTURAL DIRECTIONS

Specially written for the use of your amateur customers. Send Twenty-five cents for complete sample set, which amount will be deducted from order for first thousand.

The universal favor in which these Directions are held, as shown by the many orders received therefor, encourages us in the belief that these Leaflets are just the neat little factor to help promote business and establish better relations between the dealer and his customer.

TRY SOME!

BIG BUSINESS ASSISTANT

TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE YOUR CUSTOMER, WE HAVE PREPARED

Cultural Directions

COVERING A NUMBER OF THOSE PLANTS AND BULBS MOST LARGELY IN DEMAND

THE "CULTURALS" have been written by experts; they are fuller, and contain more detailed directions than it is possible to embrace in a catalogue. Equipped with these, just hand one out with each sale, and save yourself considerable present and future trouble, as the customer will then be able to consult the directions, grow his plants, seeds or bulbs intelligently, and so receive satisfactory results, without having to continually resort to you for advice.

The following "Culturals" are now ready:

AMARYLLIS (Hippeastrum)	CROCUS, Snowdrop and Scilla Sibirica	MUSHROOM CULTURE ONIONS
ANNUALS FROM SEED	DAHLIA	PALMS, House Culture of
ASPARAGUS	FERNS	PANSY
ASTERS	FREESIA	PEONIES
BEGONIA, TUBEROUS	GERANIUM	PERENNIALS, Hardy
BULBS	GLADIOLUS	PRIMULA
CABBAGE and CAULIFLOWER	GLOXINIA	ROSE CULTURE
CANNA	HOT BEDS and FRAMES	SWEET PEA, The
CARNATIONS, MONTHLY	HOUSE PLANTS. Care of	TOMATOES
CELERY	HYACINTHS, Dutch and Roman	TUBEROSE
CHINESE SACRED LILY	IRIS and TRITOMA	TULIP
CHRYSANTHEMUM	LAWNS	VEGETABLES
CLIMBING PLANTS Hardy	LILY CULTURE for House and Garden	VIOLETS
COLEUS, and other bedders		WATER GARDEN, How to make and Manage a

PRICE LIST

500 Cultural Directions for \$1.50 | Printed on white paper, clear type, size 6 x 9 1/4 inches, in an assortment, your selection of not less than 100 of each, delivered carriage paid.

1,000 - - - - - 2.50

Sufficient space will be left at the bottom of each leaflet for your name, address, etc. If you desire this imprint (3 lines) we will put same on for you at 50 cents for 500, 75 cents for 1,000. Special quotations will be made on quantities of 2500 "CULTURALS" or over.

A. T. De La Mare Ptg. and Pub. Co. Ltd.

Pubs. The Florists' Exchange. P. O. Box, 1697, NEW YORK

Dreer's Hardy Perennial Phlox

We are the largest growers of Perennial Phlox in the world. Our collection is unequalled, and we are prepared to furnish the new and rare kinds as well as all the popular and standard varieties in large quantities.

The plants we offer are nearly all strong one-year-old field-grown plants or equally strong divisions, and will make a fine display of flowers this season. This stock is much superior to and must not be confounded with young Winter propagated stock such as is generally sent out in the Spring of the year.

New and Rare Hardy Phlox and Varieties of Special Merit

	Per doz.	100	1000
Albion (Tall). A variety which originated with us several years since and which is now offered for the first time. Strong grower, pure white with faint aniline red eye.....	\$1.50	\$10.00	\$90.00
Chateaubriand (Medium). Pure white, with crimson carmine eye	1.25	3.00	70.00
Coquelicot (Dwarf). A fine pure scarlet.....	85	6.00	50.00
Etna (Medium). Crimson red, suffused with fiery red.....	1.25	3.00	70.00
Edmond Bostand (Medium). Reddish violet with large white star-shaped center.....	1.50	10.00	90.00
F. O. von Lassburg (Tall). The finest white in cultivation, pure in color, a strong, vigorous grower.....	2.00	15.00	125.00
H. O. Wijers (Tall). A fine large pure white, with crimson carmine eye.....	1.25	3.00	70.00
Independence (Tall). An excellent large flowering early white....	.35	6.00	50.00
Lamartine (Tall). Very bright magenta, with large white centre	1.25	3.00	70.00
Lord Balsigh (Dwarf). Deep reddish violet, distinct.....	.35	6.00	50.00
Le Mahdi (Tall). Deep reddish violet, darker eye.....	1.25	3.00	70.00
Mrs. Jenkins (Tall). An early flowering, pure white, forming an immense panicle, one of the best.....	1.50	10.00	90.00
Stella's Choice (Tall). A mauve branching late white variety....	.35	6.00	50.00
Selma (Tall). Pale rose mauve with distinct claret red eye....	1.50	10.00	90.00

Choice Standard Phloxes

- Aquillon** (Tall). Bright Tyrian rose.
- Andreas Hoffer** (Medium). An early and continuous flowering pure white.
- Bouquet Fleuri** (Dwarf). Pure white, with crimson-carmine eye.
- Bridesmaid** (Tall). White, with large crimson carmine centre.
- Beranger** (Dwarf). White, suffused with rosy pink.
- Bacchante** (Tall). Tyrian rose.
- Colibri** (Tall). White, with crimson-carmine centre, late.
- Champs Elysee** (Medium). Bright rosy magenta, an effective shade.
- Crystal Palace** (Tall). Lilac with white markings.
- Cross of Honor** (Medium). White, with a band of reddish violet through the centre of each petal.
- Cyclon** (Dwarf). White, suffused with lilac.
- Eclairseur** (Tall). Brilliant rosy magenta, with light halo.
- Eugene Danzenviller** (Tall). Lilac, shading white toward the edges.
- Esclarmonde** (Tall). Lilac, washed with white.
- Edmond Andrand** (Medium). Deep mauve.
- Fantome** (Tall). Bluish lilac, washed with white.
- Graf von Ungerer** (Tall). White, suffused with rosy-lilac.
- Inspector Peiker** (Tall). Purplish mauve, washed with white.
- Jeanne d'Arc** (Tall). A late flowering pure white.
- La Vague** (Medium). Pure mauve, with aniline red eye.
- La Soliel** (Medium). Rosy magenta, with light halo.
- Mollier** (Tall). Bright rosy magenta with lighter halo.
- Mozart** (Tall). White, suffused with salmon.
- Miramar** (Dwarf). Reddish violet with white markings.
- Mme. Marie Kuppenheim** (Dwarf). A fine late pure white.
- Ofenbach** (Dwarf). Lilac purple, lighter shadings.
- Obergartner Wittig** (Medium). Bright magenta, the best of its color.
- Pantheon** (Tall). Bright carmine-rose.
- Pecheur d'Islande** (Tall). Crimson-red, suffused with cochineal red.
- P. Bonnetains** (Medium). Deep rosy magenta.
- Professor Schlieman** (Tall). Pure mauve with crimson-carmine eye.
- Roxelane** (Tall). Reddish violet with aniline red eye.
- Sunshine** (Dwarf). Aniline red with lighter halo.
- Simplex** (Tall). White, with aniline red eye.
- Semiramis** (Tall). Rosy magenta with lighter centre.
- Schlossgartner Reichenau** (Dwarf). Solférino, red.
- Thebaide** (Dwarf). Carmine lake with higher shadings.
- Tahiti** (Dwarf). Rosy magenta, small white eye.
- Wm. Muhle** (Tall). Carmine-purple, with crimson eye.



Phlox Subulata

Moss Pinks or Mountain Pinks.

- Alba**. White.
- Atropurpurea**. Purplish rose.
- Lilacina**. Light lilac.
- Nelsoni**. Pure white.
- Rosea**. Bright rose.
- The Bridesmaid**. Purplish tinted white with deeper eye.

All the above in strong clumps, 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

Phlox—Various Types

	Per doz.	Per 100
Amoena . Clumps.....	\$0.75	\$6.00
Divaricata Canadensis . 3-in. pots.....	.75	6.00

For complete list of hardy Perennial Plants, see our current Quarterly Wholesale List just issued.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA

The above prices are only for Florists, or those engaged in the trade.



Shrubs for Name.—I send you a twig from a bush that I am unable to name. It grows about five feet high and has yellow flowers all Summer. The flowers come first, then the leaves. It is perfectly hardy and makes a bush like a rose; a large clump in time. Kindly give me name of same.

A. K. K.

Mo.

—Kerria japonica.

Kindly name the enclosed specimen of jasmine.

A. J. B.

Fla.

—Jasminum floridum.

(S3) **Violets.**—Please inform me which of the double violets are the best to raise for commercial purposes; also the best time to set them out. Would the latter part of this month be too early?

F. N. C.

New Jersey.

—The best double violet for commercial purposes is Marie Louise, and it may be planted any time before the first of June.

(S4) **The Rider-Eriesson Engine.**—I should very much like to have the experience of florists using the Rider-Eriesson hot-air engine for pumping water.

A. J. B.

Fla.

Now nearing completion and to be issued by May 15

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Water Gardening

Giving in full detail all the practical information necessary to the selection, grouping and successful cultivation of aquatic and other plants required in the making of a Water Garden and its surroundings, and covering all conditions from that of the Amateur with a single plant to the large estate or park

Price, Postpaid, \$2.50

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Profusely illustrated with over one hundred photographs from life, diagrams and plans

The author is PETER BISSET, of Washington, D. C., a well-known expert in this art

A. T. De La Mare Ptg. & Pub. Co. Ltd.

2 DUANE STREET, NEW YORK

—Will some reader who has had experience with this pumping engine tell us something about its usefulness to florists.

Advertise in The Florists' Exchange and be sure of results

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

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Strong, Dormant Tubers

Mixed varieties, \$2.00 per 100; \$15.00 per 1000. ALEMANIA, CHAS. HENDERSON, MLL. BERAT, PRES. FAIVRE, ROBUSTA, \$3.00 per 100; \$25.00 per 1000.

ALPHONSE BOUVIER, BEAUTE POITEVINE, BRANDYWINE, BURBANK, DAVID HARUM, FLORENCE VAUGHAN, J. D. CABOS, MME. CROZY, QUEEN CHARLOTTE, SEMAPHORE, \$4.00 per 100; \$35.00 per 1000.

We also have many other named varieties.

VICK & HILL CO.

P. O. Box 613 ROCHESTER, N. Y.

HARDY PHLOX

MISS LINGARD, best white summer cut flower, R. C., \$30.00 per 1000. GARNATION ABUNDANCE, R. C., \$40.00 per 1000; from 2 in. pots, \$60.00 per 1000. HYDRANGEA HORTENSIS GRANDIFLORA, R. C., \$50.00 per 1000. Cash with order.

L. I. NEFF, PITTSBURG, PA.

Beautiful New Pink Rose

"Aurora"

PAUL NIEHOFF, Leighton, Pa.

Sphagnum Moss and Cedar Poles

Moss, 5 barrel bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Poles, 2 in. butt, 8 ft. long, \$15.00 per 1000; 2½ in. butt, 10 to 12 feet long, \$22.50 per 1000; 1½ in. butt, 5 to 7 ft. long, \$10.00.

H. R. AKERS, Chatsworth, N. J.

Nursery Stock for Florists' Trade

General List

Fruit Trees, Ornamentals, Roses, Hedge Plants, Clematis, Evergreens

Write for our Wholesale Trade List

W. & T. Smith Co. 61 Years' Experience Geneva, N. Y. 600 Acres

Crimson Rambler, White Rambler, Pink Rambler, Dorothy Perkins, Philadelphia Rambler, Dawson, Baltimore Belle, Gardenia, Hybrid Perpetuale in good variety, Lilac, Common Purple, Lilac, Common White, Fringe Purple, Crandall's Yellow Fig. Currant, Golden Spirea, Lilac Rubra de Marley, Pyramidal Arbor Vitae, Concolor Fir, Irish Juniper, Colorado Blue Spruce, balled, American Arbor Vitae

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10,000 American Arbor vitae

(THUYA OCCIDENTALIS.)

Each tree grown wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arbor vitae will. They have been frequently transplanted and are supplied with an abundance of fine fibrous roots. Can be dug and shipped with ball if desired.

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The WM. H. MOON CO., Morrisville, Pa.

ARISTOLOCHIA SIPHO

Strong, \$25.00 per 100.

Double Flowering ALMOND, 3 to 4 ft., \$15.00 per 100. Oriental PLANE, 2 to 2 1/2 in., \$125.00 per 100. Send list of wants for prices. Ask for catalogue.

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10,000 SPECIMEN EVERGREENS

PRICES RIGHT ALL TRANSPLANTED

- List of evergreen species and prices: Abies Balsamea, Abies concolor, Abies Douglasii, Buxus sempervirens natural, Buxus pyramidalis, Buxus Standards, Juniperus virginica, Picea alba, Picea excelsa, Picea pungens green, Picea pungens blue, Pinus mugho, Pinus strobus, Pinus sylvestris, Retinispora plumosa, Retinispora filifera, Thuja Hoveyii, Thuja lutea, Thuja occidentalis, Thuja pyramidalis, Thuja Riversii, Thuja Sibirica, Thuja Warreana.

TREES, SHRUBS AND ROSES IN GREAT VARIETY

1000 VARIETIES OF

FIELD GROWN PERENNIALS

Estimates cheerfully given. Catalogues free.

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PLANT CONIFERS NOW!

These are shapely, well-furnished, fibrous-rooted and several times transplanted.

Table listing conifer prices: AMERICAN ARBOR VITAE, IRISH JUNIPER, NORWAY SPRUCE, JAPAN LARCH, BEECH, COMMON, PURPLE-LEAVED, BIRCH, CUT-LEAVED WEEPING, THORN, PAUL'S NEW SCARLET, CORNUS ELEGANTISSIMA VARIEGATA.

This is a sample lot of bargains; others are offered in our Bulletin No. 4 just issued; send for copy; use printed stationery—it's for the Trade only.

JACKSON & PERKINS CO., Newark, New York

Choice California Privet

Table with 2 columns: Size (1 to 2 ft., 2 to 2 1/2 ft., 2 1/2 to 3 ft.), Price (\$10.00, 20.00, 26.00)

Cash with order; packing free. Atlantic Coast Nurseries, Office, 606 4th Ave. Asbury Park, N. J.

10,000 Berberis Thunbergii, 18 to 24 in., \$50.00 per 1000. 15,000 Berberis Thunbergii, 15 to 18 in., \$40.00 per 1000.

All are 2 year old transplanted, fine, bushy stock. 2,000 Myrtle, nice plants, \$45.00 per 1000., 8,000 choice Dahlia roots for sale, cheap.

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The F. E. Conine Nursery Co. Established 12 Years, Straiford, Ct.

Send your orders to us when you do not know just where to get your NURSERY STOCK. We can fill most any variety or size. Retail only. PLANT CULTURE Price, - - - \$1.00. A. T. De La Mare Ptg. & Pub. Co.

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American Beauty, Clothilde Soupert, Gloire de Dijon, Kaiserin Auguste Victoria, La France, Mac. Caroline Testout, Fran Karl Droschki, Crimeon Rambler, Baby Rambler, Dorothy Perkins, etc., etc., Suitable for Forcing Immediate Delivery. Prices Right General Catalog and Price List ready

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Wholesale Growers TREES AND PLANTS in full assortment.

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WILL HOLD 10 TO 15,000 CALIFORNIA PRIVET

I will peck them in car at reduced prices. California Privet, 3 to 4 ft., \$4.00 per 100; \$20.00 per 1000; 4 to 5 ft., \$5.00 per 100; \$25.00 per 1000; 6 to 8 ft., \$8.00 per 100; \$38.00 per 1000; Standard Privet, 5 ft. high, fine sheared heads, \$7.00 per 10; \$50.00 per 100; Bush Privet, sheared round, 4 to 5 ft. high; 3 to 4 ft. in diameter, \$7.00 per 10; \$50.00 per 100. American Elms, fine trees, 12 ft., \$30.00 per 100; \$250.00 per 1000. Horse Chestnut, 2 to 2 1/2 caliper, 10 ft. high \$10.00 per 10; \$75.00 per 100. Horse Chestnut, specimen trees, 3 to 4 Caliper, 12 ft. high, \$20.00 per 10; \$125.00 per 100. European Linden, 2 to 2 1/2 caliper, 12 to 14 ft. high, \$10.00 per 10; \$80.00 per 100. Spirea Billardii, 3 1/2 to 4 ft., \$1.00 per 10; \$8.00 per 100. Althea, in variety, 4 to 6 ft., \$1.00 per 10; \$8.00 per 100. Yucca Filamentosa, large, blooming plants, \$5.00 per 10; \$30.00 per 100. Dahlia, large clumps, fine assortment, \$5.00 per 100; \$40.00 per 1000.

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BEECHES

American, European, Copper, Rivers purple, Weeping and Fern leaved, large and small.

SHRUBS

Viburnums, Cornuses, Deutzias, Forsythias, Berberis and other shrubs 3 to 8 feet.

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Picea pungens and orientalis 3 to 6 feet. Abies Nordmanniana and Hemlocks 3 to 6 feet. Retinisporas and Junipers in variety. See trade list of MORRISVILLE NURSERY.

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JUST RECEIVED FROM OUR HOLLAND NURSERIES

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

PRICES MODERATE

50,000 Sugar Maple Seedlings

6-12 in., \$6.00 per 1000.

20,000 Sugar Maple Seedlings, 2-3 ft., \$25.00 per 1000.

5,000 Tulip Trees, 4-6 ft., \$6.00 per 100; \$50.00 per 1000.

5,000 Catalpa Speciosa, 4-5 ft., \$3.00 per 100 \$25.00 per 1000.

2,000 Sweet Gum, 6-8 ft., \$10.00 per 100; \$90.00 per 1000.

5,000 Ilex Opaca (American Holly), \$4.00 per 100; \$25.00 per 1000.

10,000 Novae Angliae Ailer, strong, \$3.00 per 100; \$25.00 per 1000.

5,000 Berberis Thunbergii, 12-18 in., bushy, 3c.

2,000 Spirea Van Houttei, 2-3 ft., 5c.

2,000 Hydrangea P. G., 2-3 ft., 7c.

Send for our special surplus list of bargains.

ELLSWORTH BROWN & CO. SEABROOK, N. H.

Specimen Nursery Stock

DECIDUOUS TREES and SHRUBS, EVERGREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties.

Send for price list.

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QUEENS LONG ISLAND, N. Y.

Trees and Shrubs

Immense quantities, low prices. Prices list on application. Peonies a specialty.

PETERSON NURSERY

108 LA SALLE ST. CHICAGO, ILL.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
 Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

ASSOCIATION OF AMERICAN CEMETERY SUPERINTENDENTS.—The twenty-first annual convention of this organization will be held at Providence, R. I., August 20, 21 and 22, with headquarters at the Hotel Narragansett. A carefully prepared program has been arranged of absorbing interest to all engaged in cemetery work.

THE AMERICAN ASSOCIATION OF NURSERYMEN holds its thirty-second annual convention and exhibition at Detroit, Mich., June 12, 13 and 14, 1907. The Hotel Cadillac will be headquarters. So far as at present arranged the program will include the following subjects, all of which will be handled by competent men: "Preparing Nursery Land," "Cultivating Nursery Stock," "Growing and Grading Apple Seedlings and Apple Trees," "Growing Ornamentals," "Growing Cherry," "Growing Small Fruits," "Spraying," "Storage," "Marketing Nursery Stock." Other pertinent and interesting topics to be discussed are: "Shall We Change Date of Annual Meeting?" "Shall Our Association Attempt to Establish Standard Sizes and Grades for Fruit Trees?" etc. Professor Hedcock of the United States Department of Agriculture has consented to tell how nurserymen can prevent Apple Crowngall and Hairy-root. Professor Craig of Cornell University will deliver an illustrated lecture on "Nurseries of the United States" the first evening of the meeting. A list of questions is also being prepared, which should form a strong feature.

In compliance with President Harrison's request the committee in charge is trying to make this a strictly business meeting; no flights of oratory, but rather an experience meeting which none can afford to miss.

It might be added that many nurserymen are inquiring if the time has not arrived to make a general advance in prices. It looks now as if the increased cost of labor, higher prices for all kinds of nurserymen's supplies, make such a step necessary if nurserymen are to show a balance on the right side of the ledger. This will be one of the questions to come out of the box, and every one will be given a chance to have his say on the subject.

An endeavor is making to secure a large and representative exhibition and everything points to the successful accomplishment of this. The annual fee of the association is now \$5. The increase was made because the treasury needed the money, and because the Dallas convention last year relied upon the loyalty of nurserymen. The usual reduced railroad rates will be granted.

President Harrison has issued a circular letter, setting forth the scope and usefulness of the organization and calling for a record-breaking convention. The address of the secretary is George C. Seager, Rochester, N. Y.

Seasonable Notes.

The common cypress spurge, *Euphorbia Cyprissias*, is often called wart plant, because its milky juice will destroy warts. A drop of the juice from a broken leaf applied to the top of the wart three or four times a day is sufficient. It commences to destroy the excrescence at once. Probably the juice of other euphorbias would act in a similar way.

A writer in a European journal states that old seeds or dried out cuttings may be made "good as new" by soaking them in camphor water for a short time before planting them. This could be tested by dividing a parcel, and soaking one-half of it.

Pinus insignis, the pine that has the beautiful green foliage and that grows so rapidly, is greatly valued abroad. In its native place, California, it is thought to be the least valuable of pines for timber purposes. It is not hardy in our Northern States. Anstraliens think a good deal of it as suited to their climate; so do the English.

Melia azederach, the tree known as Pride of China, is called white cedar in Australia. What a number of trees go under this name. This tree will stand moderate Winters in Eastern Pennsylvania, losing but the tops of its young shoots.

The original Seckel pear tree grows on property belonging to the Stephen Girard estate, Hope Ferry road near the neck of land dividing the Delaware and the Schuylkill rivers. A family named Seckel lived on the farm when the pear came into notice. When last the tree was seen, a few years ago, a family named Bastian lived there.

As showing how the character of fruits changes according to where growing, the Susquehanna peach is a September one in Pennsylvania and a July one in Georgia; and Silway and a few others of the late ones in Pennsylvania are too late to ripen a little farther North.

Lonicera periclymenum is justly esteemed as the most fragrant of all the species. It does not thrive well with us; neither does the belgian, a good variety of it. But as pot plants to give pleasure to those who know them of old, they are in demand.

It is the custom of some propagators when layering to make the slit in the shoot in the under side. This increases the risk of the shoot snapping when bent into the ground. It is far better to make the cut on the upper side, as nearly all propagators do.

Kerria (*Corchorus Japonica*) in its double form is one of the oldest inhabitants of our shrub borders, and well it deserves a place in all collections. But its single-flowered form the one with variegated foliage, is really better. The contrast afforded by the green and white leaves and the yellow flowers is pleasing; and the flowering is far more profuse than in the old sort.

Sugar has been made from the sap of the butter-nut, *Juglans cinera*, but it is so purging that it is of no commercial value except in a medicinal way.

found in gardens. There are some in the vicinity of Philadelphia easily 100 years old, and still in fair condition of growth.

On some pleasure grounds laid out where this variety of cherries is found, the landscape gardener finds it agrees with his plans to let live one of them, and there are examples here of some on lawns, and most interesting trees they are. Let us hope that the one pictured will be allowed to grow on when the ground it stands on will be required for residential purposes, which from appearances will not be very long.

The seeds from the Mazzard cherry are in great demand by nurserymen for the raising of stocks. Excepting the Mahaleb, an entirely different species, it is the only stock our nurserymen use. Hundreds of bushels of pits are called for for sowing throughout the country, and besides the stocks these stones produce, hundreds of thousands of the stock are imported from Europe.

June-Budded Peach Trees.

A customer of a nurseryman inquires of him wherein the advantage lies in the June-budded peach trees over those of the ordinary kind he has been accustomed to buy. So far as the purchaser goes, there is no advantage; it is altogether on the side of him who propagates them. The nurseryman has in a June-budded tree one



Cerasus Avium, Mazzard Cherry

Cerasus Avium.

Under the name of Mazzard cherry are known the wild sweet cherries that spring up along fence rows near all large cities and towns and near where any sweet cherries are growing in gardens. They are the product of cherries stolen by birds from cultivated sweet cherries in the first place, and afterward seedlings come from stones from these wild fruits, which are spread still more by birds. The fruit of these wild trees is rarely as good in flavor and size as is that of the cultivated trees from which they sprang. It is more in size than flavor that the deficiency is noticed. Occasionally one is found of excellent character. The writer knew of such a tree; it was such a superior fruit that he grafted it on a named kind in his garden, deeming it superior to the one on which he grafted it.

What fine subjects these adventitious trees make is shown by the illustration of one growing along what was a fence row, in a field, in Germantown, Pa. It is, really, a noble tree. The photograph was taken just as the tree was in its height of flowering, in May, at which time it was a sight worth going miles to see, on account of its perfect shape and its profusion of flowers.

Because, no doubt, of the freedom of growth the fence rows give, these Mazzard cherries are often found of great size. The caliber of the one illustrated is two feet, and those of four feet are not uncommon.

These cherries live to an age that far exceeds those

that is ready to sell in six months from the date of the sprouting of the seed, while the ordinary tree sold has required eighteen months. June-budded trees are budded as soon as the stocks are large enough. June is the month, so-called, but the budding is sometimes done later. But the earlier the better, as it affords more time for the bud to grow. Now that large trees are not looked for as they once were, because of the knowledge that small trees well pruned in are better, the June-budded ones are preferred by those who understand the value of small trees.

It requires care to get a June bud to start off right. It does not do to cut off the top of the tree directly above the bud at once, unless there is a good growth of foliage below it, for such robbing of the tree of its foliage would kill it. The best way is to let the seedling have a good growth of leaves below the bud, then the cutting away of the top when the buds take may be done. There is sure to be some weakening of the trees in the end by the loss of the top which is cut away. This cannot be avoided, and where there is a good showing of foliage below the bud the checking of growth will not be great. As the bud makes a good growth the shoots below it may be checked, that the strength may go to the growing bud.

JOSEPH MEEHAN.

Hardy Roses for Decoration Day

HARDY H. P. ROSES

We offer exceptionally strong two-year-old dormant, low-headed stock (on Mazzetti), in the following varieties:

Alfred Colomb, carmine.
 Anna de Diesbach, bright carmine.
 Ball of Snow, pure white.
 Baron de Rothschild, dark crimson shaded.
 Baroness Rothschild, satiny pink; extra.
 Duke of Edinburgh, bright vermillion; very fine.
 Fisher Holmes, dark rich scarlet.
 Frau Karl Druschki, the finest white in existence, \$12.00 per 100.
 General Jacqueminot, rich velvety crimson.
 General Washington, beautiful red, shaded carmine.
 John Kopper, beautiful rose pink.
 Margaret Dickson, white, pale flesh center.
 Magna Charta, clear rosy pink.
 Mme. Gabrielle, light, satiny pink.
 Mme. Plantier, white.
 Mrs. John Laing, soft pink; most desirable variety.
 Paul Neyron, beautiful dark pink.
 Prince Camille de Rohan, velvety crimson.
 Ulrich Brunner, cherry red, three-year-old.
 Prices on H. P. Roses \$1.25 per 10; \$11.00 per 100; \$100.00 per 1000.

HYBRID TEA ROSES

Maman Cochet, pink. Strong 2-year-old plants, 10 for \$1.50; \$12.00 per 100.
 American Beauty, Kaiserin Augusta Victoria. Horn-osa. Strong, 2-year-old, \$1.50 per 10; \$12.00 per 100.

THE KILLARNEY ROSE

Irish Crown From the Kaiser.
 Good strong two-year-old plants, \$3.00 per 10; \$27.50 per 100.

DOROTHY PERKINS

Resembles the Crimson Rambler, except in color, which is a lovely shell-pink, holding a long time without fading. \$1.75 per 10; \$15.00 per 100.

AMPELOPSIS and other Climbers

AMPELOPSIS

Ampelopsis Veltchii (Boston Ivy), extra strong limbed, three-year-old, \$2.00 per doz.; \$15.00 per 100.
 Ampelopsis muralis, more rapid grower than the foregoing, larger foliage, \$3.00 per doz.; \$20.00 per 100.
 Quinquifolia (American Ivy or Virginia Creeper). Good for covering walls, verandas, or trunks of trees; affords shade quickly, 26c. each; \$2.50 per doz.; \$18.00 per 100.

CLEMATIS

Henry, pure white; extra large.
 Jackman, purple.
 Alba, white.
 Sieboldii, lavender.
 Ville de Lyon. The finest of all reds; flowers brilliant carmine red. It is equally as good as Mrs. Edouard Andre, but contrary to this one, is a very free-growing variety.
 All the above Clematis in extra strong plants. \$2.00 per doz.; \$20.00 per 100.
 Clematis paniculata, strong 2-year-old plants, \$1.25 per doz.; \$12.00 per 100.

ARTHUR T. BODDINGTON, 342 WEST 14th ST. NEW YORK CITY

HYBRID TEA AND OTHER ROSES OF RECENT INTRODUCTION

(Strong 2-Year-Old Plants.)
 Beaulieu Brown. Creamy white, \$1.50 per 10; \$12.00 per 100.
 Grusa an Teplitz. The great new red Rose, closely resembling Liberty in color. No Rose in commerce can compare with Grusa an Teplitz as a bedder, \$1.50 per 10; \$12.00 per 100.

THE TREE BABY RAMBLER (Mad. Norbert Levavasseur) GROWN AS A STANDARD

The popularity of the Baby Rambler has suggested the growing of it as a tree or standard. The variety is too well known for description; enough to say it retains all its characteristics of free-blooming qualities, etc., 60c. each; \$5.00 per doz.

THE BABY RAMBLER

Mme. Norbert Levavasseur. Strong field-grown plants, \$1.75 per 10; \$15.00 per 100.

CRIMSON RAMBLER

Large heavy plants, two years old, 3 to 5 feet, \$1.75 per 10; \$15.00 per 100. 4 to 6 ft. \$2.00 per 10; \$18.00 per 100.

OTHER CLIMBING ROSES OF MERIT

Paul's Carmine Pillar. One of the most attractive Climbing Roses. Two-year-old, field-grown, \$1.75 per 10; \$15.00 per 100.
 Marechal Niel. Color bright rich golden yellow, field-grown, \$1.75 per 10; \$15.00 per 100.
 Gloire de Dijon. Color buff, orange center, very sweet-scented, field-grown, \$1.75 per 10; \$15.00 per 100.

ENGLISH MOSS ROSES

Assorted White, Pink, Red, large dormant plants, from open ground, \$1.50 per 10; \$12.00 per 100.

ARISTOLOCHIA SIPHO

Dutchman's Pipe, strong field-grown, \$3.50 per doz.

WISTERIA SINENSIS

Extra strong field-grown plants. Blue, \$3.50 per doz.; \$26.00 per 100. White, \$5.00 per doz.; \$40.00 per 100.

HONEYSUCKLE

Extra strong field-grown plants, finest long, many branches.
 Coelebsium. Scarlet.
 Halliana Yellow.
 Periclymeum. White.
 Serotinum Belgica (Monthly Dutch). Red.
 \$3.00 per doz.; \$22.50 per 100.

HYDRANGEA PANICULATA GRANDIFLORA

Two-year-old, 3 to 4 branches, bushy, \$1.50 per doz.; \$10.00 per 100.

ROSES : CANNAS

The season for planting **Roses** and **Cannas** is at hand. Be sure and send for our catalogue to-day. Fine assortment.

THE CONARD & JONES COMPANY, WEST GROVE, PA.

The Latest Novelty

NEW rose "**ANNY MULLER**" cross between **Crimson Rambler** and **N X George Pernet** (Baby Rambler growth), of a delicate bright pink color. Order early; a few thousand unsold yet; delivery, Fall 1907. Our Mr. Wiegand Bruss will visit you some time in April or May. All kinds of nursery stock, such as hardy **RHODODENDRONS**, **BOXWOOD**, **Blue Spruce Koster's**, all sizes up to 6 feet, etc., etc. Offered by

VAN DER WEIJDEN & CO.,

The Nurseries, Boskoop, Holland.

No agents. Catalogue 1907-1908 now ready. For the trade only.

Address all correspondence care of Maltus & Ware, 14 Stone St., N. Y.

JAPANESE LILIES, IRIS, PAEONIES

IRIS KAEMPFERi, cases of 50 strong clumps of 50 best varieties, \$6 a case.
 HERBACEOUS PAEONIES, cases of 84 strong clumps of the 12 best Japanese varieties, 7 clumps each variety, \$15.00 a case.

The YOKOHAMA NURSERY COMPANY, Ltd., 31 Barclay Street, NEW YORK

AMERICAN BEAUTY ROSES

Strong plants from 2 1/4 x 3 in. pots. Ready for a shift. \$7.00 per 100; \$65.00 per 1000.

JOSEPH HEACOCK COMPANY, WYNCOTE, PA.

SPORT OF CHATENAY

As free as CHATENAY, color of BON SILENE; 2 1/2 in. pots, \$25.00 per 100; \$150.00 per 1000.

EMIL GLAUBER, - - Montclair, Colo.

ROSES

Mme. Mason, Magna Charta, Vick's Oeprice, Otto, Planter, P. Neyron, Blancas, Kaiserin Augusta, Victoria, Climbing Malmaison, James Sprunt, Climbing General Jack, 7c.
 Mopselline, James Veltch, Glory of Mossea, Princess M. Adelaide, Belle's O' Paradise, Prosperite, Geo. Pernet, Petite Leonie, Empress of China, Jane Belle, Manda's Triumph, Universal Favorite, white, Pink, Yellow and Golden Rambler, Seven Sisters, 8c.

CARNATIONS

2 1/2 in. pots. Eucharis trees, White Lawson, Candace, at \$3.60 per 100
 Fair Maid, Queen Louise, Gay, Welcome Prosperity, Richmond Gem, Crane, Moonlight Mrs. Patton, Harlowarden, at \$3.00 per 100; \$26.00 per 1000.
 3 in., \$4.00 4 in., at \$6.00.

CANNAS

Alyce, 2 1/2 in. pots, \$2.00 per 100. P. Begonia, Agratum.
 Dusty Miller, single Petalonia, English and German Ivy, Geraniums, at \$2.50 per 100; 3 in. Vinca, variegated, 4c. to 5c.; 3 in. Asparagus Sprengerii at 4c. 4 in. at 8c.

NATIONAL PLANT CO. Dayton, O.

ROSES ON OWN ROOTS 2 YEARS.

Crimson Ramblers, extra strong, at \$7.00 per 100.
 Dorothy Perkins, Pink, White and Yellow Ramblers, etc., at \$5.00 per 100.
 H. P. Roses and Baby Ramblers, at \$8.00 per 100.

GILBERT COSTICH, ROCHESTER, N. Y.

ROSES 2 year 2 1/2 in.

VINCAS, COLEUS and SALVIAS.
 See our adv. April 13

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO

ROSES

STRONG, 2 1/2 INCH STOCK.

Helen Oould	.....	\$3.00
Mrs. Peary	.....	3.00
Gen. McArthur	.....	3.00
Marquise De Quebrant	.....	3.00
Pink Cochet	.....	3.00
White Cochet	.....	3.00
Sauv De Pierre Notting	.....	3.00
Hermosa	.....	3.00
Duchesse De Brabant	.....	3.40
Burbank	.....	3.00
Bon Silene	.....	3.00
Papa Quentier	.....	3.10
Climbing Paul Neyron	.....	3.00
Les Eriances Vera	.....	2.90
Safrano	.....	2.60
Mrs. Gant	.....	2.50
Marie Van Houtte	.....	2.50
James Spruce	.....	2.50
White Bougere	.....	2.50
Countess E. Stabemburg	.....	2.60

DAHLIAS, Strong 2 1/2 in. plants.

Countess Louise, \$2.00 per 100. Matchless, \$2.00 per 100. C. W. Brufou, \$2.00 per 100. Allie Moore, \$2.00 per 100. Zoar, \$2.00 per 100. Snow-Glad, \$3.00 per 100. Mrs. E. J. Jones, \$4.00 per 100. Keynote White, \$2.00 per 100. Cash with order.

W. R. GRAY, Oakton, Fairfax Co., Va.

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Fine stock plants that will bloom in May, 50c. per 100, \$3.00 per 1000.
 Forget-me-nots in bud and bloom, large plants \$2.00 per 100, \$15.00 per 1000.
 Wall Flowers in bud and bloom, \$3.00 per 100.
 Verbenas, Stocks, Ageratum, Salvia, Gloriosa Plants out of 2 1/2 inch, \$2.00 per 100, \$15.00 per 1000.

Cabbage Plants E. J. Wakefield, \$1.25 per 1000. J. C. Schmidt, Bristol, Pa.

Grafted Roses

We offer this year the following assortment: **Bride**, **Bridemaid**, **Bon Silens**, **Etoile de France**, **Franz Desgen**, **Golden Gats**, **Ivory**, **Gen. McArthur**, **Kate Moulton**, **Kaiserin Augusta**, **Victoria**, **Killarney**, **La Detroit**, **Mme. Abel Chatsenay**, **Mme. Caroline Testout**, **Mme. Hoste**, **Mrs. Pierpont Morgan**, **Maman Cochet**, **Marechal Niel**, **Paris Des Jardins**, **Papa Gauthier**, **Richmond**, **Rosalind Orr**, **English**, **Sauv. Du President**, **Carnot**, **Souvenir De Wootton**, **Tom Field**, **Uncle John**, **Wellisley**.

The above grafted from 2 1/2 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.

AMERICAN BEAUTY

On own roots, from 2 1/2 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.
 The 1000 rate obtains only when 250 or more of a variety are ordered.

OUR GUARANTEE GOES WITH EVERY PLANT. A. N. PIERSON, Cromwell, Conn.

Commercial Violet Culture

Price, \$1.50
 he Florists' Exchange, 2-8 Duane St. New, York

2,000

KAISERIN

2 Inch Pots
THE J. M. GASSER CO.,
 1035 Prospect Avenue,
 CLEVELAND, OHIO.

KAISERIN ROSES

2 1/2 in. pots \$3.50 per 100; \$30.00 per 1000.
 3 in \$6.00 per 100.
 Carnations all sold.
E. H. PYE, Upper Nyack, N. Y.

ROSES

READY FOR SHIPMENT
 strong, well rooted stock—Cash with order

American Beauty	.....	\$7.00	65.00
Richmond	.....	\$25.00	4.00 85.00
Bride	.....	.....	3.00 25.00
Bridemaid	3.00 25.00
ALFRED P. SMITH	8.00 25.00

Madison, N. J.

THE FLORISTS' EXCHANGE

ROSES

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ROSES

Rose Growing.

Read by David Falconer before the Morris County Gardeners and Florists' Society, April 19, 1907.

The Propagating House.

We will assume we have a rose house, January 15, in nice healthy order and have the propagating bench all prepared for the cuttings. I think a propagating house is a decided advantage over a part of a bench in the rose house; that is, of course, if one has it so fixed as to have control of the heat, top and bottom. We keep the top heat as near to 54 degrees as we can; bottom heat at 60 degrees.

Cuttings are generally fit to pot in four weeks. In the selection of wood we always take blind wood of a uniform hardness and do not put in wood that has the eyes started. The cuttings are from two to three inches in length, with two or three eyes according to the length between the joints. I do not believe flowering wood has any advantage over blind wood as regards producing more flowers to a plant, etc.

Treatment of Cuttings.

When our cuttings are rooted we pot them into 2-inch pots, then shift into 3-inch and finally into 4-inch pots, using exactly the same compost as we put into the benches. Young plants in pots cannot be watched too closely, and must not have any pests, such as red spider, green fly, etc.; nor should they be allowed to get pot-bound. A plant once checked in its growth will always show the drawback when we get a dark spell of weather.

Soil.

In regard to soil for potting, screen it through a 3/4-inch mesh and rub all the finer you can through the screen. Better have it on the rough side than too fine. We dig up the sods in the Spring; it seems to be sweeter and have more vitality to it than when composted in the Fall. Most soils that will grow good hay will grow good roses. Add about one-fifth good cow manure, some bone meal and sheep manure. After planting young plants in the beds in June the sooner they are staked and tied up the better; all they want until about the end of September is plenty of air and cultivation and great care in watering. Syringing every bright day is very beneficial.

Old Plants Preferred.

Our experience is decidedly in favor of old plants; that is, running them over a second or third year. About the middle of July is a good time to begin drying off to ripen the wood to make it in condition for pruning. We give very little water for a few weeks until the plants nearly stop growing, then we trim out all blind wood, and cut back flowering wood to two or three eyes, then take off about one-third of the soil and fill up the beds with the same compost as we use for the young plants. We then tie down the plants flat, about a foot or so above the bed. For a few weeks they have to be syringed frequently to help them break.

Care has to be taken not to get the soil too wet. We have tried the plan of not drying off the plants, just pruning out a little blind wood and mulching them. By this method one gets a few more flowers during the Summer, but at the end of the year the other way is much ahead.

Temperature and Ventilation.

I think it a hard problem to give definite figures to go by, so much depends on the kind of weather, the condition of the plants, whether they are wet or dry; but the general Winter temperature is 58 degrees nights, 74 in sun heat. When there is no driving wind begin to ventilate about 66 degrees; in Summer keep the ventilators up all the time while the temperature is at 60 degrees. In the Spring months, when the sun is hot early, the ventilators have to be opened a little just as soon as the thermometer registers above 60 degrees. Do not allow the houses to get hot with the ventilators nearly closed. I believe a close, stuffy atmosphere in a rose house, especially in the morning, will create mildew more than any other cause.

Watering and Syringing.
This work needs a good deal of practice before a man can do it intelligently. When watering do it thoroughly so that the soil is wet right through to the bottom. Syringe every bright day and just imagine there is a red spider on every leaf when you are doing it. During the Winter we use tempered water at about 58 degrees, both for watering and syringing. I think it must be more beneficial to the plants than using water at 35 or 40 degrees.

As to Benches.

A great deal can be said about benches—raised wooden benches, also cement benches and solid benches. I think there is nothing to equal the raised bench. With them you have got the roots under control, as well as the tops, and can produce more flowers in the Winter season. Besides with raised beds you can get the heating pipes under them which help to dry them out when we have the short days.

Houses.

In regard to structures the tendency of the present day is to build big, wide houses. I believe there is a happy medium in both the width and length of a house. A house from 20 to 28 feet wide and about 200 feet long is the most practical. When a house is so wide that it requires ventilation on both sides of the ridge it is not so easy to judge when to open both sides. Particularly at the change of seasons have they to be watched much closer than a house with ventilation on one side.

Heating.

A good deal depends on the location. For example, with a house that has a rise of say 6 feet in 150 feet it would be difficult to install a nice working steam system. Possibly an ideal heating for a rose house would be two-thirds hot water and one-third steam; it would also be a safe combination in case of a breakdown in either of the systems.

Successful and profitable rose growing is a problem of eternal vigilance, and the person who can pay the coal bill, the many other bills, and get a good living out of the business is pretty much like the farmer who, when asked how it was that everything was so prosperous on his farm replied, "Sir, I understand my business and attend to it."

Wilkesbarre, Pa.

Ira G. Marvin has now over 200,000 feet of glass divided into three sections in different portions of the city. This is not enough, as Mr. Marvin is to build more this Summer. He has now in the course of construction a handsome show room on another street with a good sized greenhouse for display purposes attached; this he intends to run in connection with his present store. The new store promises to be very attractive.

Mooney & Weir is the style of one of the late additions to the Wilkesbarre florist aggregation. Miss Mooney is the moving spirit of the enterprise for which many years of experience in the Marvin establishment have eminently qualified her. They have just fitted up on North Franklin street a handsome store, complete in every detail for a first class business. Miss Mooney is popular with the flower buyers of her city. Your correspondent bespeaks for this new firm a splendid success.

Gottlieb Bauman is also another addition to the florists of this city. Mr. Bauman was for many years in the employment of A. W. Moore & Company. During the last couple of years he has erected some greenhouses and now does business for himself. He has several houses well filled with bedding plants ready for immediate sales, and evidently has abundance of room to still further extend his business.

Eldridge & Company have a cut flower store on South Franklin street with greenhouses attached. A. W. Moore & Company are on Park avenue where several greenhouses filled with carnations and bedding stock are in readiness for the market as soon as the season opens up. J. M.

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WELL ROOTED HEALTHY STOCK

CARNATIONS

Well Rooted Cuttings

PINK	Per 100	Per 1000
Lawson.....	\$1.50	\$14.00
Nelson.....	1.50	10.00
LIGHT PINK		
Enchantress.....	2.50	22.50
VARIEGATED		
Mrs. Patten.....	2.50	22.50
WHITE		
Boston Market.....	1.25	10.00
White Lawson.....	3.00	25.00
RED		
Cardinal.....	2.50	20.00

ROSES

Strong and Well Rooted Cuttings

	Per 100	Per 1000
Richmond.....	\$1.50	\$12.50
Bridesmaid.....	1.50	12.50
Bride.....	1.50	12.50
Chatenay.....	1.50	12.50
Ivory.....	1.50	12.50

ROSE PLANTS

From 2 1/2 inch Pots.
Ready for Shipment.

Richmond.....	\$2.50	per hundred
Bridesmaid.....		
Uncle John.....		
Chatenay.....	\$22.50	per thousand
Bride.....		
Ivory.....		
Liberty.....	\$4.00	per hundred
Perle.....	\$35.00	per thousand
Sunrise.....	\$5.00	per hundred
	\$40.00	per thousand

Killarney 2 1/2 inch pots Grafted Stock. \$12.50 per Hundred

BENCH PLANTS, American Beauty, \$10.00 per 100; \$75.00 per 1000
Liberty and Pearl, \$5.00 per 100; \$40.00 per 1000

PETER REINBERG, NO. 51 WABASH AVENUE, CHICAGO

ASPARAGUS

Robustus, similar to Plumosus but better for pots, pans, and vases; extra fine stock ready for 4-inch pots at \$6.00 per 100. Sample for ten cents.

CARNATIONS

Ready April 29th. Queen at \$10.00 per 1000. Nelson Fisher at \$12.50 per 1000. Cuttings from sand.

GERANIUMS

Rooted cuttings only. ready May 15th, at the uniform price of \$10.00 per 1000. Nutt, Parkins, Buchner, Castellana, Francis, Viaud, Poltavine, Jaullin, and Ricard.

ALBERT M. HERR, Lancaster, Pa.

GRAFTED ROSES

On Best English Manetti Stock
2 1/2 inch pots; A No. 1 Plants

KAISERIN	}	\$10.00 per 100
RICHMOND		
WELLESLEY		
CHATENAY		
MAIDS		
Own roots, from grafted stock, 2 1/2 inch pots		
RICHMOND	}	\$3.00 per 100
WELLESLEY		
KAISERIN		
CHATENAY		
BRIDES		
MAIDS	}	\$25.00 per 1000
KAISERIN		
CHATENAY		
BRIDES		
MAIDS		

S. J. REUTER WESTERLY, R. I.

FEVERFEW

Dwarf double, 2 in., 2c.
COLEUS, 2 inch, 2 cts.
CUPHEA, 2 in., 2c.
ELEGANTISSIMA FERNS, 2 in., 3c.
ROOTED CUTTINGS, prepaid per 100.
FUCHSIA, 5 kinds, \$1.25. AGERATUM, white, GURNEY, PAULINE, 60c. VINCA VARIEGATA, 90c. SALVIA BONIFRE, SILVERSPOT, SPLENDENS, 90c. ALTERNANTHERA, 3 kinds, 60c. HELIOTROPE, 3 kinds, \$1.00. FLOWERING BEGONIAS, 8 kinds, \$1.25. PARLOR IVY, 75c.; DOUBLE PETUNIAS, 10 kinds, \$1.00. FUMES: TRANTOR, ALLIANCE, PACIFIC, CHELTONI, GOLDEN AGE WEEKS, ENGUEHARD and EATON, \$1.25. STEVIA SERRATA, and VARIEGATA, 75c. COLEUS, 10 kinds 50c. CUPHEA, 2 kinds 60c. SWANSONIA ALBA \$1.00. PARIS DAISY, white and yellow \$1.00. ALEXANDRIA, \$1.25. Seedlings, Dwarf and Tall, double stock, Antirrhinum, Grand White, pink and yellow, \$3.00 per 1000.
Cash or C. O. D.

BYER BROS. Chambersburg, Pa.

ENGLISH IVY

R. C., 75c.; 2 in., \$2.00.
REX BEGONIA, 2 in., \$3.00; 4 in., \$8.00.
ASPARAGUS SPRINGERI, 2 and 75c. each. CANNAS, Austria, \$1.50; America, \$1.50; D. HARM, \$2.00; Pennsylvania, \$1.50; K. Gray, \$3.00. Warborough, \$2.00; Italia, \$1.50; A. Bouvier, \$2.00; C. Henderson, \$2.00; Eganale, \$3.00 per 100.
Will exchange for Enchantress, Boston Market or Guardian Angel Carnations.

J. H. DANN & SON, WESTFIELD, N. Y.

ALTERNANTHERA

50,000 plants in 2 in. pots. Paronychoidea aurea, nana and versicolor at \$2.00 per 1000; 500 at 1000 rate. No order for less than 500. Ready for delivery May 1.
J. CONDON, Florist, 734 5th AVENUE. BROOKLYN, N. Y.

Look at These Prices!

This Advertisement will not Appear Again

1000 Althea Double White, 8 feet.....	8c
700 " " Purple, 7 feet.....	7c
400 " Totus Albus, 3 1/2 feet.....	5c
400 " Blanche, 5 feet.....	6c
1500 Honeysuckle, Chinese, 3 year.....	6c
1500 " Halleana, 3 year.....	6c
1000 " Golden, 3 year.....	6c
800 " Champani, 3 year.....	6c
1000 Each, Honeysuckle Red, White and Pink Tartarian, 4 feet.....	5c
1000 Forsythia Golden Bell, 5 to 7 feet.....	6c
500 " Suspensa, 5 to 7 feet.....	6c
3000 Deutzia Fortunei, 6 to 10 feet.....	8c
2500 " Crenata, 8 to 12 feet.....	10c
2000 " Bride of Rochester, 7 to 9 feet.....	9c
500 Weigela Candida, 5 to 10 feet.....	8c
500 " Variegata, 5 to 7 feet.....	8c
500 " Lavelle, 6 to 8 feet.....	8c
300 " Eva Rathke, 5 to 7 feet.....	12c
1000 American Ivy, strong field plants.....	6c
1000 Persian Lilac, 1 1/2 to 3 feet.....	5c
2000 Deutzia Gracilis, 1 1/2 feet.....	6c
200 " Lemoinei, 2 to 3 feet.....	6c
2000 Spiraea Van Houttei, 4 to 5 feet.....	6c
800 " Callosa Rubra, 4 to 5 feet.....	6c
1500 " Reeveii, 5 to 7 feet.....	6c
300 " Bumbalda, 2 to 3 feet.....	5c
300 " Superba, 2 to 3 feet.....	5c
500 " Billardi, 5 to 6 feet.....	5c
200 " Aurea, 5 to 7 feet.....	6c
400 Silk Vine, strong field plants.....	6c
500 Clematis Stana, 3 to 4 feet.....	6c
1000 Mock Orange, 4 to 6 feet.....	7c
300 Jasminum Nudiflorum, 3 feet.....	6c
1000 Persian Lilac, 4 to 6 feet.....	8c
500 Tamarix Africana, 4 to 6 feet.....	8c
600 Snow Ball (Viburnum Opulus), 5 to 7 feet.....	8c
300 Eleagnus Edulis Longipes, 5 feet.....	10c
4000 Clematis Paniculata, 2 year.....	6c
500 Rose Pride of Washington, field grown, 5 year.....	10c

ROSES. We have in stock upward of 1000 different varieties, consisting of the very latest European varieties, as well as the leading varieties of American origin. Forcing varieties, including Killarney, a specialty. Stock from 2 1/2, 3, and 4 and 5 in. pots, all on own roots. Ask for catalogue.

CANNAS. 40 leading varieties. Write for list and prices. Louisiana Cannas, 8c. Mont Blanc, 8c.

MISCELLANEOUS PLANTS of all kinds, including Violets, Ferns, Geraniums, Asparagus Sprengeri and Plumosus, Dahlias, Cissus Discolor, Pot Hydrangeas, etc., in large supply. Send us your list for prices. Ask for catalogue. It's free.

THE DINGEE AND CONARD CO., WEST GROVE, PA.

THE WEEK'S WORK.

Timme's Timely Teachings.

Pompon Chrysanthemums.

Few varieties of large flowering chrysanthemums, and these by no means the best, are desirable subjects for outdoor culture or garden display, a fact greatly deplored by many of our customers every Spring. There would, however, be less cause for regret on this score were growers to direct their attention and that of their patrons more ardently and with a warmer interest to a class of chrysanthemums that furnishes varieties eminently suitable for open air culture and in many respects superior to any of the large flowering indoor sorts. In truth, the pompon section of chrysanthemum, as now represented by a large number of highly improved varieties, is among flowering plants one of the most beautiful as well as most useful classes, worthy of being grown extensively by every florist.

The varieties of pompon chrysanthemums are usually considered hardy, but in our Northern States a covering of dry, loosely spread leaves during Winter is a no needless precaution and assures a trifler start in the Spring. While any of the many varieties may thus be used with surprising effect and entire success in permanent outdoor plantings, there are many, especially those of the taller and larger flowering sorts, that will do better if grown or at least flowered under a glass-covered roof. Wherever they are grown in quantity for their cut sprays this mode of culture should be adopted, either lifting and housing the plants early in September or growing them in a cool and amply ventilated house from start to finish. When so treated their culture does not involve that amount of care required in the raising of large flowered indoor kinds, since pompons need neither feeding, staking nor disbudding.

Unsurpassed by anything grown for the Autumn pot plant trade are pompon chrysanthemums of the more dwarf growing sorts. To have these in best, most attractive form, it is of value to raise the plants out in the field in well prepared, pretty rich soil, to impart business and compact shape by frequent shortening in of the shoots and, when this is accomplished and buds are setting freely, to pot them up and remove them to a cool greenhouse.

Hardy Ferns.

In the planning for effective beds and borders about private grounds or as an attractive feature in connection with greenhouse establishments, the value of hardy ferns for such purposes should not be lost sight of. To the florist with a good home trade these ferns prove good and profitable stock, costing little in the first start and requiring less care and attention than almost anything else grown for pleasure or profit. While most varieties are shade-loving plants, and while all will show up to better advantage in positions somewhat shady and sheltered, there are quite a number of excellent kinds that will thrive, increase in size and beauty and furnish an abundant supply of long-lasting, spotless fronds in less favorable situations and in a kind of soil usually considered unfit for ferns. Though this is true, it is well worth while bearing in mind that hardy ferns, as well as all other things easily grown and modest in their cultural requirements, readily respond to some measure of extra care in their treatment. In making plantations of hardy ferns, therefore, a favorable spot should be selected, if possible to be found, and the soil should be worked into a condition congenial to this culture if not naturally so. Small plants rather than large old clumps are the right kind of stock to start with.

Roses.

Well-grown potted roses of the hybrid perpetual and hybrid tea classes, showing plump buds and a few open blooms, sold remarkably well at Easter, were also much called for before that holiday and will no doubt continue to be good property throughout Spring as long as stock holds out. These, as also those of the Rambler group, if given the proper attention and care that all roses

Cyclamen and Asparagus

all sold out
G. A. THIELE, Frankford, Philadelphia, Pa.

under pot culture require, are not likely ever to become a drug on the plant market. Neither lilies nor azaleas and least of all the common bulbous stock will ever materially hurt the sales of finely finished potted roses in early Spring.

It is time to begin another season's rose growing, to lay in stock and to prepare for a good stroke of business in a line by no means overdone as yet. The fact that a great lot of poorly done roses in pots is offered and refused every year should furnish no cause for worry or doubt in the minds of good growers. The rose as such enjoys little advantage over other plants not bearing that name, unless it gives evidence of good culture. To avoid anything in the selection of stock for the purpose or in the preparations to be made now that might result in the production of poor or mediocre plants by next Fall must necessarily be the principal aim when starting afresh.

I still believe that the ideal rose for the better class of plant trade is obtained by an all season's pot culture previous to its being forced, though I had fair success with those grown all Summer in the open field and only potted up last Fall; and though I saw some superb specimens grown by others in like manner these appeared to be exceptions rather, while good results with pot raised stock may safely be regarded as a rule.

Outdoor Culture of Roses.

The planting of dormant roses in garden or field for whatever purposes intended should be well under way by this time. But while much of the ultimate success depends on early planting it is not advisable to undertake the work as long as the soil remains in a soggy condition and actually unfit for any sort of thorough cultivation. Stock as yet, dormant, showing no signs of breaking into growth, can easily be held in that condition until a spell of fine weather has dried off the land sufficiently for planting to be done in a manner insuring the future well-doing of the roses. This period of the season affords many such opportunities and these must be taken advantage of in operations of this kind.

There is little use in planting roses of any kind in poor, wornout ground. For permanent plantations of hardy roses to form a part of well-kept, attractive home grounds, or to yield a good grade of marketable flowers during Summer seasons, the very best portion of the available ground should be chosen. If the soil is not naturally good it must be made so if possible. It should be well drained, deeply worked up with spade or plow before being planted, with a liberal dressing of barnyard manure added during the operation. The heaviness of loamy soils, when not caused by an intermixture with dead clay, forms no objection to rose culture, and when highly enriched and properly cultivated, such soil can be made to be most productive, and the roses grown on such ground thereby gain in hardiness and vigor and usually bring the finest of blooms for cutting. But at no time should ground of that description be worked until reasonably dry and in a mellow condition.

All dormant, nursery grown roses need pruning before being planted. In the pruning of such as are to be potted up in the Fall a trifle more care should be exercised than with stock for permanent borders. It should be done in a way to ensure as far as possible shapely form and well-balanced growth in future development, which very seldom can be brought about alone by the last pruning just before forcing. Hardy roses destined to stay outdoors for years should be quite heavily cut down this first time before being planted, but subjected to ordinary pruning in the following seasons, which means a shortening in of the well-ripened strong wood to within eight or ten eyes on most varieties, some requiring a less severe pruning while a few can only be made to throw fine blooms by using the knife less sparingly, all of which is learned by experience, much depending not only on variety but also on location and condition of stock, which is not the same season after season. As a rule, strong shoots and strong growing varieties are not as sharply cut down as the weaker growth and the less vigorous varieties, and all strag-

gling, thin or dead wood is cut away clean and is about the only pruning necessary on pillar, climbing or Rambler roses, when established out of doors. Rambler roses to be potted up in the Fall, unless of unusual size, will make finer specimens with two or three very strong, well-ripened canes, properly tied into pleasing form before being subjected to forcing, than when allowed to make a great number of weak canes during the Summer.

Roses in the field require the best of cultivation, which includes frequent hoeing and loosening of the top soil, staking and tying up in some cases, the removal of dying leaves and fading blossoms, watering and sprinkling in dry seasons and protection against Winter-killing.

Epacris.

Nearly all the varieties of epacris suitable for general greenhouse culture and the better class of plant trade are now past their prime, some having been at the end of their flowering season for weeks. Left over plants, now in that condition, should not be looked upon as anything needing no attention at present and satisfied with any out-of-the-way place. They are valuable stock, and now is the time to take the first steps toward working them into fine specimens for another season's trade, if they failed to be that this year. To this end it is of immediate importance to subject the plants to a severe pruning. Most of the varieties with a uniformly even growth can safely be cut back to within four or five inches from the pot. The side shoots of plants that show one or more very strong, upright canes are trimmed in to mere stumps of one or two inches in length, leaving about a foot of the stronger center. If there are too many of these upright shoots, forming too dense a center, some of the weakest must be cut away entirely and those remaining be kept apart by wiring or tying. It is only by carefully attending to this sort of pruning now that plants of faultless form, rare beauty and exceptional value can be obtained from material ready at hand and very often deemed scarcely worth while seeing to.

Epacris, after being pruned, are started into new growth in any one of the coolest houses, affording them the fullest light. During this period they need water but sparingly, will fare better by being a little too dry rather than copiously watered. After the young growth is well out and before it gains too great a length, the plants are repotted, should they need it, which is not always the case with specimens of fairly good size. In transplanting or renewal of soil a sandy, turfy or peat-like mixture, quite coarse, should be used, with plenty of clean drainage material at the bottom of the pot; and new pots are to be preferred to any already used. A slight shading on clear, sunny days, frequent sprinkling and moderation in watering and ventilating are necessary for a week or two after the transplanting. During the hot Summer months heaths and epacris are plunged in outdoor frames that can easily be covered with some light shading material during the hottest hours of bright days, or with sashes as a protection against long-lasting heavy rains. Plants of this kind, however, should not be removed to outdoor quarters too soon in the Spring—a mistake often made and one resulting in damage done to the stock that defies all attempts at redemption. Sudden changes from congenial quarters and good growing conditions to less favorable places, exposure to cold or drafts of raw air, anything causing a check in growth turns their color from a healthy green to a sickly yellow and with the best of care ever afterward it is often impossible to overcome the lasting setback.

Tuberous.

As a crop for Summer cutting tuberous are still one of those minor items that may be grown with comparatively little care and considerable profit. Outdoor patches, however, give scant assurance of good results and if first-class spikes are considered only worth while shipping to market, then indoor culture from start to finish will prove the most reliable course to follow. Select sound and solid bulbs, pot up now in rich soil, start them in a warm place and

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The Aster Field

Fall plowing, good for any kind of land and nearly all sorts of crops, is especially good for any piece of ground on which asters are to be grown for an abundant yield of fine flowers. This hint, although of value for another season, will be of little help to those who, with thousands of nice plants yet in pots or flats, are behind in the preparation of the land for them. In such cases too great a hurry is of no avail. Land, especially heavy soils, should not be touched with spade, plow or rake until in fit condition, brought about by a day or two of bright sunshine and drying breezes. The ground when ready for planting asters should have lost the last remnant of the Winter's cold and clamminess, and the plants should be of good size, several inches high, robust and thrifty, before being planted. On Spring-plowed land it is of benefit to either roll the ground, when sufficiently dry, before planting, or if this cannot be done, to use the feet in firming the asters after planting, care being taken to avoid too deep a stand of the plants. To counteract stem rot to some extent it is well to rake in a dressing of lime or land plaster, thinly spread over the entire surface. This should be repeated when the plants are showing their center buds, which, by the way, should be pinched out to increase the number of high grade flowers on a given number of plants. Asters do not send their roots deep down, but like good, moderately enriched and frequently stirred top soil. Deep plowing is not essential to success with asters, especially if done in the Spring. There is no cause for undue haste in the planting of asters; they will yield good crops even if planted as late as the end of May or the beginning of June.

FRED W. TIMME.

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

Secret Commissions.

At the Greenwich County Court on March 28, the plaintiff sued a firm of horticultural builders to recover £5 10s., said to be the amount of secret commission paid by them to his gardener in connection with the building, by defendants, of a greenhouse for the plaintiff, for which he paid them £67. A letter was produced in which the gardener wrote to the firm to the effect that his master was very well pleased with the plans and the price. The letter went on to say that his master would try to get a little discount, but he (the gardener) advised them to stick to their estimate, and to tell his employer that it was the lowest possible. Judgment was given for plaintiffs.—Gardeners' Chronicle.

The Horticultural Trades Association of Great Britain and Ireland has considered it desirable to warn gardeners against having anything to do with a number of foreign firms who are now flooding that country with advertisements of seeds, bulbs, plants, etc., accompanied with offers to gardeners of commission varying from five to twenty per cent. upon the amount of their employers' orders. The offer of commission of this kind, if secret, is a direct incitement to a criminal offence, and anyone accepting or making such an offer or even soliciting same, would immediately become liable to very heavy penalties involving both fines and imprisonment. It is clear, therefore, that those accepting such commission would at once find themselves at the mercy of their tempters, who, being foreigners beyond the reach of British law, might on their part run very little risk.

The members of the Horticultural Trades Association, comprising all the leading Nursery and Seed firms in Great Britain and Ireland, do not pay secret commissions of any kind, and therefore feel justified, in the interests of both employers and employed, in taking steps to expose this new and subtle form of foreign competition.

"Should the popular enthusiasm ever be awakened on behalf of a national rose organization it will undoubtedly be by the employment of very different methods from those that have proved effectual in the upbuilding of our professional bodies.—Horticulture.

—There is a wealth of wisdom in these remarks. Strange, though, there are many who believe that the past methods employed in the "upbuilding" of some of our professional bodies have been anything but "effectual." Nothing attempted, nothing done. That tired feeling and pessimism are poor promoters of progress. The Rose Society will doubtless pursue the proper course, despite the wail of the weary ones, who halt at all imaginary obstacles. There is no cause for discouragement. Optimism and energy accomplish much. But get to work.

By Way of Reply.

In last week's issue of our Boston contemporary a correspondent makes the following comments regarding the remarks appearing in these columns relative to our endeavor to maintain the position of The Florists' Exchange as being "Exclusively a Trade Paper": "That paper has always classed itself as a purely trade paper, but in a certain catalogue of books, I find it listed to any one who has the money to buy it, and at a cut price. Probably the editor is ignorant of this fact."

He certainly is, and the correspondent in question would confer on the publishers of this journal a great favor, if he will be good enough to mention "the catalogue of books" to which he refers. A bald statement, unsupported by proof, like that of our contemporary's contributor, is not worth the paper it is printed upon.

The fact is that The Florists' Exchange is listed in no "catalogue of books" or other subscription agency list, with our consent or concurrence; on the other hand, we refuse entirely subscriptions from any such source, unless those given by parties in the trade, and have so advised every subscription agency known to us. The following is the form of a letter sent for years back to agencies that have requested authority to list The Florists' Exchange, and to club it with other periodicals:

"Will you kindly make a note of the fact that owing to The Florists' Exchange being published exclusively for the trade, we do not solicit subscriptions through agencies; therefore it is useless for you to insert the name of our paper in your list, which we sincerely trust you will not do, as we shall refuse all subscriptions for The Florists' Exchange from your agency, or from any other subscription agency."

This Escaped the Press Censor.

An excellent example of how the daily newspaper correspondent runs riot in a desire to promulgate horticultural information and instruction to the public is provided by a contribution on "What Becomes of the Flowers" in the columns of The Evening Post, New York, of Saturday, April 20, 1907. The author is Cora A. Moore, and among other wonderful things she has to say about the flower business of the Metropolis is that one large concern can "hoast of an orchid house of 155 acres." She also informs her readers that "three times a week the market and the largest florist establishments receive palms, ferns, and various other tropical plants from Trinidad. Then there are the experimental nurseries at Hoboken and Madison where grafting and all sorts of interesting experiments are made."

Entering the realm of fashions in flowers, it is stated that "just now there is a wild clamor for La Belle carnation, which is new and very beautiful, a cross between a snowdrop and an old-fashioned garden pink."

With regard to left over stock, the "stem and foliage of which are no longer pulsing with fresh life," we are told that nimble, clever hands "skilfully prop them up, wiring their stems and spraying their fading faces with ammonia water and perfume to bring back a semblance of youth." All this happens after the flowers have had a journey to a downtown shop. Thus cheered, "Miss Rose finds herself on the street again with her charms being shouted loudly and earnestly to the big, surging crowd; she is content with her lot and revels in the dancing lights and the gayety and noise of the great white way.

"But next morning, in spite of wiring, she droops once more, and then she is unbound and there is another journey still farther downtown. Here she is again revived, but differently, so that into her dying face may come one last look of hope. The thread-like wires are reinforced by slender toothpicks." Now the flowers, with their wooden supports, have reached the City Hall Park, and provided they succeed in attracting a purchaser, "the very sister, perhaps, to the flower that blushed on the corsage of Melba or Calve, or some other queen of song, amid the applause and lights, may take its last glimpse of life from the hollow chest of a Bowersy girl, with a squeaking of cracked fiddles, and the shatter of coarse voices sounding a requiem." Poor thing!

All these things and more happen to the flowers—in Cora's lively imagination. John F. Sullivan's censor bureau should get after the Evening Post with a club. What the New York Sun calls "the scrap book" evidently needs "posting."

National Council of Horticulture.

The ninth installment of the press service of the National Council of Horticulture has just been distributed by Mr. Burdett. The subjects treated upon include Campanulas, Rhubarb, Deutzias, Deutzia Lemoinei, Cosmos, and Blackberries.

OUR READERS' VIEWS

A Warning.

Editor Florists' Exchange:

Some party (as yet unknown to me) is moving about several counties adjoining Blair County, representing himself as "John H. Myers, the florist of Altoona, Pa." He has visited several florists and borrowed money, promising to forward same upon his arrival at home. I first learned of his doings in Lewiston, Pa., and lately in Johnstown, Pa. As he is likely to make things unpleasant for others as well as myself, I concluded, in this manner to warn those who may be on his list of intended calls.

Altoona, Pa.

J. H. MYERS.

Some Facts in Breeding.

Editor Florists' Exchange:

If your correspondent, John G. Esler, would like to try an experiment, let him buy a thoroughbred female dog of any breed that would suit his fancy. First allow her to run; then next breed her to the finest thoroughbred dog of her kind that he can find and he may learn something. The progeny of the second union will still be hybrids (mongrels), and they will be mongrels up to the seventh breeding point, and sometimes beyond that. In other words, one contamination of mongrel blood will make the female useless to breed thoroughbreds from, as the elimination of blood would take too long.

Another instance: In this town a white woman had one issue of negro parentage; she then married a white man. From that union three children sprang of undoubted white parentage, but still hybrids, as the contamination of the negro blood was evident in all three. [A similar case is mentioned by Professor Austin Flint, Ed.]

Now, if the law quoted by Mr. Esler should hold good, then the mixed pollen used in fertilizing carnation Winsor should modify the blood of the female, and the effect should be shown in the progeny, perhaps more so by inbreeding carnation Winsor, provided, and a big if, the mongrel blood inherited by all carnations and produced by continuous crossing is not dominant.

Also, if that law should be correct, the art of hybridism as applied to carnations is, from the viewpoint of an animal breeder, nothing else than a continuous breeding of mongrels, which, as far as my limited experience goes, may be correct, as the seed from an inbred carnation will not produce offspring like the parents without wide variations.

Long Island.

C. B. D.

Mixing Pollen.

Editor Florists' Exchange:

I have been considerably amused over the discussion in your columns respecting the mixing of pollen. As far as I can see, the whole gamut of plant or animal life indicates that mixing fails to bring about any new departure. A stock-breeder may turn several rams among his ewes, but where is the proof that the offspring resulting are influenced by more than one ram?

I observe John Charlton invites E. G. Hill to produce a rose bearing multi-colored blooms by pollen mixing. Is he not a bit off the line in doing so? For even were E. G. Hill, or anyone else, to produce such a rose, could it be proved that it resulted through mixing the pollen? I have seen mention of a variety named Jewell, which produces multi-colored roses; in fact, I saw last year a small plant which bore a copper-colored and a pink flower at one time. How was Jewell produced? Personally, I look upon it as an unfixed sport.

There are also nasturtiums which bear differently colored flowers at one time.

It is safe to say that in making crosses, one cannot be certain what will result. Sweet pea raisers on this side have long proved that real good things come as much by chance and careful selection as by making special crosses. Who would expect to see a pure lavender result from a white×pink? Yet the most promising lavender up to date came from such a cross.

Kent, Eng.

T. A. WESTON.

Editor Florists' Exchange:

Enclosed herewith I hand you letter received from Professor W. J. Spillman, Agriculturist, of the Bureau of Plant Industry at Washington, D. C. It may be interesting to your readers to publish that part of Professor Spillman's letter which refers to the "mixed pollen" question. I have written Professor Spillman stating that I have forwarded the letter to you, as I believe his views ought to be set before your readers, and especially that part of them which combats the views set forth in my former communication upon that subject.

C. W. WARD.

Extract from Professor Spillman's Letter.

My Dear Mr. Ward:

Yours of April 18 just at hand. I have read with interest the clippings you enclosed, especially the one written by yourself.

Concerning the possibility of influence of the character you suggest, I will say that while there is a very general belief among stockmen that a previous impregnation may influence subsequent progeny, there is absolutely no reliable evidence of the truth of this theory. The old English case of the quagga influencing subsequent colts has been fully disproved, and there is no modern evidence on the subject. It is generally considered by the best students of the subject that there is no influence of this kind.

I think that there is no question that in all ordinary cases a single pollen grain would fertilize a single ovule so that the seed would be a cross between two varieties only. It is possible, however, by growing a plant from this seed which combines two varieties and fertilizing it with a third variety to get some of the characteristics of the three varieties into a single plant.

It is barely possible that an ovule might be fertilized by two grains of pollen and that plants might be raised from such fertilization. This is highly improbable, however. When such double fertilization occurs, ordinarily part of the chromosomes of the ovule join with one pollen grain and the remainder with the other pollen grain, thus producing two imperfect individuals which seldom, or almost never, develop to maturity.

Very sincerely yours,
W. J. SPILLMAN, Agriculturist.

Assisting Exhibitions.

Editor Florists' Exchange:

Now that the time is again near when those entrusted with the carrying out of arrangements for horticultural exhibitions in many parts of the country are eagerly looking in all directions for rays of hope in their endeavors to bring their labors to a satisfactory conclusion, a word to those who are perhaps not directly but are assuredly indirectly concerned, may be in season. In many sections of the country, where exhibitions are held once or oftener every year, there are doubtless materials in plenty to make the shows attractive without contributions from outside sources; but it usually happens that in these sections thus favored, outsiders are most eager to patronize and assist. There are, however, many other places where exhibits and other means of assistance would accomplish what is most desired, and that is the stimulating of an interest in everything horticultural. If large firms doing a business national in its scope would exhibit at local shows where local growers are for various reasons unable to bring the character of these exhibitions up to a high standard, their doing so would not only result in a stimulus being given to horticulture in that locality, but it would also ultimately be of material advantage to the firms so doing. And what would amount to a great deal more than either, it would help to advance horticultural knowledge; and who can say but that would be of incalculable aid to horticulture universally?

D. B.

"New Creations."

Editor Florists' Exchange:

Mr. Allen speaks truly when he says, "much more can be written without solving the problem, What is a New Creation?" Presumably he is in full accord with him who wrote; "His ways are past finding out;" and unless the science of evolution becomes absolute and our logic perfect, we will remain as ignorant of the moving forces in nature as we have been heretofore.

Mr. Allen's letter seems to be intended as an apology for Burbank and a condemnation of Burbankism, although how the two can be separated is more than I can see. If Burbankism is wrong, Burbank can't be altogether right. "That he has assumed the powers of a creator" is beyond dispute, as the following quotation from that strictly private letter on page 4 of The Florists' Exchange proves: "Nature cares no more for a man than she does for a hen or a plant, so she never creates them for his special use. She leaves that for man to do for himself. I am doing that." Another quotation from the same letter: "I can readily prove that my experiments in new creations are fully as successful as those of nature herself." Is it possible for any one to advance an apology ample enough to cover the egotism and conceit displayed in the foregoing quotation?

Burbank does not seem to be trying to "guide" nature; he is evidently in competition with nature, and according to his own idea he has beaten nature to a standstill.

Regarding the "great credit" Mr. Burbank is said to be "entitled" to, so much has been said about what he can do, also about what he is going to do, but so little seen of what he actually has done, that even those who don't come from Missouri "want to be shown."

There is no comparison between Mr. Livingston and Mr. Burbank. The former modestly claimed to be a selector and introducer of "valuable types;" the latter claims to be a creator of hens and plants.

Mr. Allen's assertion that, "The active principle of creation is reproduction," cannot be disputed. The first command that God gave was: "Multiply and replenish the earth;" and ever since the command was given, the dogs and the cats, the mice and the rats, and even the mosquitoes and greenfly, as well as the plants, have been doing their very best to comply. It seems to be the only commandment that is universally complied with.

Heckel's theory may be all right and answer the purpose, for the time being, or until it is superseded by another more plausible, just as Darwin's theory is being superseded at the present time by Mendel's theory. This is likely to go on for all time; and when all is said, done and written, the truth of the quotation used at the beginning of this letter will be acknowledged: "His ways are past finding out."

JOHN BIRNIE.

Winter-Flowering Sweet Peas.

The following communication appeared in a recent issue of the Horticultural Advertiser, England:

"In the issue of March 20, Mr. Zvolanek makes some erroneous statements in saying that he knows positively that I obtained the blue Winter-flowering sweet pea from some stray seeds I got among his Christmas Pink. I must repeat that this blue variety is a sport of Captain of the Blues, and sported with me before I ever had or saw one of Mr. Zvolanek's kinds. Further, I maintain that I also obtained sports of Dorothy Eckford, Lady Grisel Hamilton and Miss Willmott, which in my previous letter I termed 'habit' sports, as their habit is identical with Mr. Zvolanek's Winter-flowering sweet peas, while the flowers are identical with those of the parents. Several of the largest sweet pea growers in this country happened to see the original plants in my nurseries, among the rows of the ordinary kinds, and would, no doubt, verify my statement if its truth were doubted.

"As regards Mr. Zvolanek's 'vetch theory,' I think this is altogether ridiculous, and I fail to understand how any intelligent hybridizer can as much as give it a serious thought. This vetch business appears to be new even with Mr. Zvolanek, for on page 205, year 1902, of Moller's Deutsche Gärtner-Zeitung, he says that he first discovered the Florence Denzer among a large batch of Emily Henderson, with which it is identical in all but habit. He further writes in a small booklet (which I enclose) that the seeds of the Winter-flowering sweet pea want to be continually re-selected, as otherwise they will go back to the ordinary habit; none, evidently, go back to the vetch habit. Again, if these sweet peas are not sports, where does Mont Blanc come from? It takes a good eye to detect a difference between this and Florence Denzer; or where does Early Blanche Ferry originate, which is uncommonly like Christmas Pink; or what are the Algerian sweet peas, if not sports of the original type? In short, it is my firm conviction that the first Winter-flowering sweet pea was a sport of the ordinary type, caused through the altered conditions of climate or culture; in Mr. Zvolanek's and my cases the latter was the cause, as they were grown under glass; with the Algerian sweet peas it was the former. Once the beginning was there, it was comparatively easy to obtain new colors by crossing. As regards the habit, Mr. Zvolanek's, the Algerian, and my own are all the same, as regards the quality of flowers. Well, there the winner will be found eventually. Mr. Zvolanek sent me, as well as other firms, some of his sweet peas for trial last Summer, about which I find I reported in due course. In conclusion, I may mention that I should not have sold any of the seed of my strain until I had been able to separate and select the best forms and colors, had not another firm, which also received Mr. Zvolanek's varieties for trial, offered the strain in mixed packets, and, of course, one does not like to be behind nowadays.

C. ENGELMANN."



Edward W. Fenn.

Edward W. Fenn, aged 62 years, died Sunday morning, April 14, 1907, of a disease of the liver, at his home on High street, Terryville, Conn. Mr. Fenn had been ill all Winter. About 30 years ago he built a greenhouse upon the farm where he had always lived and devoted all his time to the cultivation of flowers, in which he was successful. Mr. Fenn was twice married. His second wife survives him, also his son, Clarence, and his father, Stephen Fenn, who is 84 years of age.

American Rose Society.

Some Notes by the Secretary.

The exhibition of the American Rose Society held in Washington, D. C., last month, and the publicity given to the same by the press, has made it apparent that a widely extended interest in the affair by both rose growers and local societies in various places exists, also by people of cultivated taste, who address the secretary for information, showing an enthusiasm that is widespread, which leads me to give some facts pertaining to the working of the society and the preparation for its shows.

Looking over the florists' trade papers, there are dozens of advertisers offering roses for sale, each one of whom could assist the society as a working popular force by joining as a member.

The American Rose Society is gaining in a life membership fund, but the sustaining membership is absolutely required, and this may be secured through the assistance of every rose grower in America without being a burdensome expense to themselves.

A photograph of the exhibition, made by Harris & Ewing of Washington, D. C., now before me, gives a fine reproduction of the beautiful effect as one entered the hall at evening, with the electric lights pouring down over the great square hall with its wealth of color and form that at once took the eye. This photograph provides a permanent retention of the show. But 48 hours before, the secretary as he faced the same space, all-ready to fill up, which the Florists' Club of Washington had worked so hard to make ready, was puzzled when at 5 o'clock the night before the show was to open, a gentleman from New York City said "This looks well, but what have you got to fill it up with?" At that instant the entries of all degrees counted thirty-seven vases—a drop in the bucket only.

A few Washington men gathered and the word was passed, "We will have a show if we have to empty our own houses." Here was a perplexity to those on whose shoulders rested the responsibility of getting up an exhibition; at the last minute they were in ignorance of what was coming, and the work of preparation was done on faith. It was ten o'clock Tuesday night when a despatch came from M. H. Walsh, Woods Hole, Mass., saying "I am leaving Boston with a carload of Rambblers." This despatch was like General Sherman's signal "Hold the Fort, for I am coming." Then came a message from Pierson saying "We have missed a train, but will be there with some fine blooms."

Wednesday morning (the show was to open at noon), came load after load from one and another who had started the afternoon or night before, but had sent no word; hence we were in the dark. Three or four who had entered were disappointed at last, but by noon time there had vanished all doubt of not having a rose show. The roses were on hand.

The judges, Messrs. Craig, Kasting and Hauswirth, could not begin work until late; and this point I wish to give out to all exhibitors: Try and let whoever is in charge know ahead that you will come. There is a whole lot of detail work in arranging these shows, and such exhibitions as the American Rose Society puts up are worthy of visitation by thousands of people; the sight is one of beauty.

The prizes taken numbered 55. The Dorrance trophy was carried off by Robert Simpson of Clifton, N. J. This is the first time anyone has captured that prize. Lord & Burnham's prize has been won twice by George Burton of Wyndmoor, Pa., and according to the terms of presentation he now owns it. Wm. H. Elliott of Brighton, Mass., carried off the first prize, which was given by Messrs. Moore, Hentz & Nash, New York, of \$15, to go to the man who did the real growing; this was John Pritchard, Madbury, Mass.; the second prize, \$10, went to Wm. Ahlers of Clifton, N. J., grower for President Robert Simpson. The number of special prizes offered in divisions F and G was 32, and of these eight were not won. The W. A. Manda prize of \$25 in gold is to be won next year. John Breitmeyer's Sons, Detroit, Mich., place their \$25 in the treasury for next year. Alexander Montgomery's cup remains for next year also. The Hammond prize of \$10 for best foliage rose for dooryards, likewise remains. This is as far as heard of from the layovers.

The Rose Society, by invitation of the Chicago Florists' Club, goes to that city in March, 1908. We want 1,000 rose growers in the big centers and in the villages from the East and the West, from the Northland and the Southland, to join us as associate members; and we want to send to each some frequent reminder so as to keep in touch one with the other; and when we hold shows hereafter we want the people to come to see them. The best card we had in Washington was to invite the school children with their teachers; the little folk came in flocks. Two of President Roosevelt's boys were there, well behaved and good mannered lads, too.

BENJAMIN HAMMOND, Secretary.
Fishkill-on-Hudson, N. Y.

Plant Bedding and Bedding Stock.

(Concluded from Page 551.)

Then we have tropical beds of smaller kinds of plants with which to create a most beautiful effect. Take a small or medium size bed; plant, we will say, a medium-sized *Phoenix rupicola* or *P. canariensis* for the center, surround it with the various sorts of crotons, intermixed with *Pandanus Veitchii*, *Acalypha mosaica*, and border it with *centaurea*; this bed in a sunny place, and you will have a most exquisite combination.

We have also a great many flowering and foliage plants which can be used very effectively. There are the various kinds of cannas, which are most effective in large masses bordered with some other plants, like *coleus*, *Stevia serrata* var., etc.; groups of *salvia*, *lantana*, not to forget our very popular geraniums. A group of *heliotrope* in a sheltered place in sandy soil is very attractive. *Begonia Vernon* is also to be recommended on account of its free blooming habit, it requiring little care after planting.

As to the annuals, we have a great variety: I will just mention a few which are to be recommended. They are cheap, easy to grow, and with proper care afford no end of pleasure during the entire season. By selecting the proper place for the various kinds, one cannot help but admire their never-ending shades of color. Plant a bed of the old *Phlox Drummondii* in a bright sunny place, afford the necessary watering, and you will have a splendid show. By picking off the seed pods frequently during the season the plants will be one continuous mass of flower until quite late in the Fall. It is the same with *verbena* in its various colors. *Zinnias*, with their many colored large flowers, borne on long stiff stems, make a very pretty bed.

Then we have the *antirrhinum* (snapdragon), *aster*, *delphinium* (larkspur), the various *dianthus* (pinks), *pentstemon*, *nicotiana*, etc., all of which will thrive most beautifully under the same conditions as *phlox* and can be used in groups or for bordering shrubs or ribbon beds along walks or fences.

Now in all this planting, follow the general rule of Mother Nature and the greater our success will be. Arrange your beds and plantings as much as possible according to the surroundings; the shape and size of a bed depends largely upon the shape and size of the place. Care should be taken in selecting the proper plant for the contemplated bed. It is rather discouraging for a customer to have a bed of plants which will not do well on account of wrong conditions. Therefore, the study of the grounds before planting becomes a necessity, for it would be a mistake to plant a bed of great moisture-loving plants in a high and dry place, and the same reversed. This is one main point where so many failures come in and great harm is done. I therefore repeat: study of the conditions of the soil, surroundings, shape, size of bed and place, proper selection of plants, are the most essential factors for successful bedding, and if such general rules are observed success cannot fail to crown our efforts.

This much about plant bedding. I will now give a few points on propagating and culture of some of the most popular stock.

Seeding.

Phlox, *verbena*, *zinnia*, *antirrhinum*, *delphinium*, *pentstemon*, *nicotiana*, etc., should be sown about the last week in March, in a cold frame, with just enough manure to keep frost out. Sow in a good rich soil, with a top mixture of sand, as this will keep the soil sweet and prevent the seedlings from damping off during moist and cloudy weather. In this way, the seedlings, with a cool bottom, sown rather thinly, can stay until time for planting arrives without extra transplanting; that is, if the seed is sown too thick, it is well, or rather necessary, to transplant the seedlings into another bed in order to keep them dwarf and healthy.

Ricinus can be sown singly in small pots and transplanted as desired. *Oxalis* should be sown in flats, about the end of March or beginning of April, and transplanted as needed. *Centaurea gymnocarpa*, *candidissima*, *Cineraria maritima* should be sown as early as December, on account of their slow growth. As soon as they are up, transplant and keep in a cool house if possible, on a shelf near the glass. About February plant into small pots, and as soon as possible transfer to the hotbed.

Begonia Vernon is also best grown from seed. Sow in flats about February, transplant as soon as possible and keep in a warm house. It is rather tedious to first transplant *begonias* on account of their smallness, but the sooner this is done the better it is for the seedlings. When large enough, plant into small pots.

Cuttings.

With *alternanthera* it is best to overwinter old plants; about March pull them apart and plant on a

warm bottom in a hotbed, and as soon as the young growth starts cuttings can be had in abundance. These can be stuck in a sandy hotbed where they will grow freely and also can be easily used for bedding right out of the frame.

Geraniums are best propagated in Fall or during Winter, so as to get plants of proper size. *Coleus* should be kept in a rather warm house during Winter. About the beginning of April cuttings can be made; with a little bottom heat they will root freely and will make about the right sized plants for bedding.

Cuttings of *sedum* and *mesembryanthemum* can be made at any time during Winter. *Echeveria* should be taken up in Fall and whatever young plants there are should be taken off and planted in flats. Keep them in dry, cool place during Winter and increase watering as the season advances. *Stevia*, *lantana*, *gnaphalium*, *cuphea*, *ageratum*, *salvia*, *heliotrope*, etc., can be propagated at any time after February. *Canna* bulbs should be kept in a dry, cool place. About March the bulbs can be divided and laid in sand; when rooted plant in pots ready for planting. *Dahlias* are treated about like cannas, only need not be started as early. *Caladium esculentum* bulbs are kept best in sand in a warm house and started about April.

There are certainly many more plants to be mentioned, but this much for the present.



Petrea Volubilis
Flowering in Missouri Botanical Garden

Florists' Clubs, Their Value and Importance.

(Concluded from Page 553.)

Obstacles Overcome.

About two years ago a florists' club was organized in a nearby city. At that time there was jealousy, distrust and much vindictiveness among the florists there, and at first it was thought useless to attempt organization, so deep seated and openly pronounced was the general discord. However, a few of the more progressive and broad-minded undertook the formidable and apparently hopeless task, and were much encouraged by a timely visit of the Detroit club in a body to the scene of their efforts. Soon thereafter an organization was effected which has already accomplished much good work. One of their meetings and exhibitions, held a month ago, was so successful that it required two columns of the trade papers to describe the many valuable and entertaining features of it, and it is needless to say that none of the members any longer questions the value of florists' clubs.

Club Members Always Progressive.

A National Flower Show was recently projected by the S. A. F. and a guarantee fund was required. Immediately upon the announcement of the enterprise guarantors came forward with subscriptions amounting to over \$8,000; the total amount required, \$10,000, is almost in sight, and the names of almost all the guarantors can be found in the florists' clubs' membership lists throughout the country. Again, the result of organiza-

In the State of Illinois at the present time the florists' organizations are endeavoring to secure an appropriation of \$15,000 for experimental purposes in their direct interests, while individual efforts could not secure one dollar for the same purpose. Many similar cases might be related covering examples of the clubs' successful work throughout the whole country, all confirmatory of their great value.

Importance of Attending Meetings.

Good attendance at the meetings is not only necessary to bring out a club's greatest usefulness, but is really vital to its very existence. The frequency of attendance at the meetings will serve each time to extend further the acquaintance and cement the mutual friendship, inspiring an interchange of almost implicit confidence in the total membership, and when a time arises calling for the prompt action of a united body of men, no time need be lost by a campaign of education along the lines of duty.

True, it may sometimes call for some individual sacrifice to maintain this high code of worthy practice in our club, as on occasions when the evening program does not appear attractive. The essay to be read treats, perhaps, of a subject in which the florist is not vitally interested, and he is accordingly prompted to remain away. *Don't do it.* Come to the meeting, and by your presence, if not by your participation or even passing interest in the discussion, give encouragement to the essayist who has himself given hours to the preparation of his article for the benefit of all who may hear it read.

I contend that it is really impossible for the florists to meet continuously as they do in their club rooms without acquiring a far better understanding of each other, which often ripens into deepest friendship. It is a great mistake to think that your monetary support of the club will secure for either yourself or the society the full measure of benefit that it is possible to receive by your prompt and regular attendance at the meetings. I would rather witness the presence of a full membership at the meetings than the payment by each absent member of a fee equal to the total amount of his yearly dues. For of what benefit would the money thus secured be, if we did not have interested members to appropriate properly the club funds for the most advantageous furtherance of its purposes? The power and influence of a united and enthusiastic membership is lost when a weakness is unwittingly constituted by the apathy of members who fail to attend the meetings regularly or even frequently.

It is always noticeable that those who are prone to stay away from the meetings are usually the ones who stand most in need of the benefits that the club can impart to them. The full measure of a club's value cannot be brought about without a complete representation of the membership at the meetings. I care not how unattractive the program of the evening is, if the members present are fully representative of the club's strength, the mere assembling of them for participation in the proceedings cannot fail to strengthen further the existing good fellowship.

I hope the time is not far distant when the real significance of our florists' organizations will be so universally recognized that any one engaged in the business, even as an employee, will be very reluctant to acknowledge that he is not a member of both the local club and the Society of American Florists. All florists truly devoted to the advancement of the business should hope and work for a greater number of florists' clubs in this country, and materially aid them to increase their value to the trade; as unquestionably all work of this character contributes essentially to the dignity of our profession and the commercial importance of it.

In conclusion, I wish to congratulate the Detroit Florists' Club upon its many achievements during its brief history of nine years. Chief of these I consider the engendering of the feeling of extraordinary good fellowship that exists always among us, and permits us always to carry to a successful issue anything we undertake.

Petrea Volubilis.

This genus, which is dedicated to Lord Petre, comprises about a dozen species of beautiful twining or arborescent stove shrubs, which are all natives of tropical America. *P. volubilis* is undoubtedly the finest. In its native habitat it is found growing up trees, ascending to a height of twenty to thirty feet. The flowers are disposed in a single pendulous elongated raceme, about ten to twelve inches long; the calyx is of a light blue color, and the corolla a beautiful purple, giving a splendid contrast. The leaves are ovate or oblong acuminate, about six inches long.

A stove temperature suits the plant admirably. Our warm Summers here in St. Louis enable us to put it outside, where it grows profusely; then, it is taken inside about the end of September, where it receives more or less of a resting period. It generally flowers March to April.

Missouri Botanical Garden.

G. H. P.

A Few Notes on Jamaica, W. I.

BY WILLIAM FALCONER.

(Continued from Page 457).

Some of the Trees and Plants.

When I was in Jamaica—about this time of year—among the big trees in good bloom were flamboyant, mahoes, sesbania, bombax, lonchocarpus and spathodia. Principal among the shrubs in flower in gardens were poinsettias red and white, plumbago, red, blue and white; the fragrant murraya, yellow tecoma, orange and buff ixoras, variegated bauhinias, purple tinnea, purple and white meyenias, red achania, peach, pink and scarlet hibiscus, red and white oleanders, fragrant white jasmines, white, pink-tinged and yellowish frangipani, the Cape snowball (*Dombeya natalensis*), day and night blooming cestrum, also the reddish ones, the delicious white tabernamontana, flesh-colored justicias and a good many others. At the same time the paucity of variety of tropical flowering shrubs in gardens in general surprised me.

A good deal is made of variegated plants, notably crotons; they are permanent garden shrubbery, but often their disposition and condition were painful. Many kinds of the fern and lacy-leaved aralias are used and the bronze and dark red leaved dracaenas occasionally appear. *Execaria*, a pretty plant whose leaves are green above and red beneath, is not uncommon and its foliage glistens in the sun. The rosy-leaved *phyllanthus* finds a place with crotons, but I have seen it far finer in Florida than anywhere here. And hedges are made of the caricature plant. The people call it "no-two-alike," referring to its leaves. The variegated *sanchezia* was not infrequent. Among other hedge plants I might mention crotons, aralias, hibiscus, *phyllanthus*, cactus and pinguin. The cactus used is Swartz's *cereus*, an "organ" cactus not unlike the *C. emarginatus*, so much used for fencing in Mexico. Tops are topped off and stuck into the ground straight up and close together, and there they root, making an impenetrable barrier. But the ugliest of all hedge plants is the pinguin, or as the natives call it "plungwing." It is a big long-leaved, hook-spined bromeliad—a waste of ground and a nest for weeds.

Speaking of cactus reminds me that the Turk's Cap cactus is found in Jamaica, but it is rare. A slender *riphsalis* grows on the trees. Another succulent common there but not common in cultivation is *Agave Morrisii*, which is quite like our ordinary century plant. Oh what magnificent cactus gardens could be made on the south sides of this island!

Some Orchids Seen.

Epiphytal air plants abound on some of the trees, but these are mostly *tillandsias* and other bromeliads. No showy orchids are wild on the island. *Epidendrum fragrans* is very plentiful on calabash trees, and other vigorous showy whitish flowered sorts make large clumps in the woods. *Oncidium luridum* on trees, on rocky ground and on stone walls along the roadsides in some places were very abundant, especially at 1,000 to 2,000 feet elevation. On a comparatively level stretch of open land on the Blue Mountains, say about 3,000 or 4,000 feet elevation, *Phajus grandifolius* had become naturalized, no doubt escaped from cultivation and increased from seed. At the Hope gardens there is a collection of exotic orchids.

A Paradise for Ferns.

Jamaica is a paradise for ferns, and there they occur in hundreds of species from forests of tall tree ferns to the tiniest pellucid jewels of filmy ferns. Maidenhair ferns—*Adiantum tenerum* prevailing—are very plentiful, so too are the powdery *gymnogrammas*; *gleichenias* from dense viney thickets and even the common bracken, *Pteris aquilina*, here becomes a running vine 10 to 12 feet long. Associated with the vine ferns I noticed a slender-stemmed, spiny, running vine bamboo, but I was informed that it has almost defied artificial cultivation.

Vines are Jamaica's Floral Glory.

The vines are the floral glory of Jamaica, always in bloom—showy, gorgeous. Among wildlings, big flowered lilac and purple perennial morning glories predominated. In thickets along the Rio Cobre I found the pelican flower (*aristolochia*) with blooms as big as a drab sombrero and tails a yard long. Big, bright yellow morning glories covered many a porch. *Petræa velubilis*, with its racemes of blue, formed woody thickets of vine. *Bougainvilleas* were a sea of magenta and the Mexican mountain rose (*antigonon*) an airy shower of rose pink. The *stephanotis* on high trellises grew bloomed and fruited with a freedom unknown in greenhouses.

But the most extravagantly profuse of all airy-bloomed vines was *Porana paniculata*, an East Indian plant of vigorous growth and a snow bank of small white flowers. Balfour's *clerodendron* had a profusion of red and white blossoms. The bluish potato vine, *Seaforth's solanum*, wild and cultivated, was much in evidence and looked well in bloom and scarlet fruit. On trellises and fences I noted the vivid yellow and orange *Bignonia venusta* in floral extravagance, and occasionally the magnificent bluish *B. magnifica* and its white form *alba* were

strikingly lovely in gardens. *Thunbergias* of several kinds were often met with, especially the showy *Harrisii*. In one garden I came upon a great mass of *Baumonia grandiflora* with its fleshy stems and leaves and big white trumpet fragrant flowers. But there were many other vines in tropical luxuriance, notably passion flowers in flower and fruit, and at one place a red *tacsonia* from New Granada.

A sunflower cheated me. Riding along the road in the dusk of the evening one day, I observed a great mass of big yellow flowers against the piazza of a residence, 40 or 50 yards back from the street. I was much puzzled, got off my horse, opened the gate and walked up to the house. No, it was no vine, nor tree nor shrub unknown to me, but the sunflower, *tithonia*, a vigorous, exceedingly floriferous and showy tender composite 5 to 8 or 9 feet high, fine for a background, but too rough for the front in planting.

Wild Flowers.

Among wild flowers *Begonia nitida* was quite common in the woods; some of the foot hills seemed to be carpeted with *Achimenes coccinea* in bloom, and my heart jumped for joy when I came upon patches of *Coccydium repens*, a creeping blue-flowered, blue-berried gem that I hadn't seen before for 25 years.

Roses.

Noisette, tea and other tender roses are cultivated all over the island, sometimes with difficulty in the low-level lands, but they behave splendidly in the mountains, and I saw the Cherokee rose run wild, escaped from cultivation in the high hills. But nowhere in Jamaica could rose growth compare with that in California.

tain homes to the coast town markets. Pepper and seasoning herbs are also plentiful.

Pittsburg, Pa. WILLIAM FALCONER.

other fruits and runs regular fruit carrying steamers between Jamaica and Baltimore, Philadelphia and Boston. But it is not dependent on its own plantations, it invites fruit from every grower in every section. Great quantities of coconuts are grown near the sea coast; the finest orange trees I ever saw were at Mandeville in the interior; pine-apples are now an important crop, and there is any number of miscellaneous fruits, as limes, avacado pear, star apple, tamarinds, mangoes, mamme apple, pawpaw, cherimoya, sour sap, etc. Hundreds of acres of cacao or chocolate tree are now being planted; it is a profitable crop.

Vegetables.

In the line of vegetables Jamaica is backward. There is any amount of yams and tania. Plantains (cooking bananas) are common. The big bread fruit is cooked as a vegetable. A patch of cassava is in almost every country garden. Many kinds of beans are grown, but there is room for improvement in selection and manner of cultivation. Pigeon peas, too, are grown; these are shrubby and bear all the year round. Tomatoes are had at all times, but there is something lacking. A little corn is grown but ours is better. Choco is a cucumber-like fruit which when nicely cooked is quite good. Cucumbers, squashes and a few other things are not infrequent. And from the mountain country turnips, onions, leaf cabbage, lettuce and some other of our familiar vegetables are brought into the town markets. Women carry them in baskets fruit raising for outside markets, and the Boston



Easter Display of Fifth Avenue Floral Company, Columbus, O.

Aquatics.

The *Victoria* and other tropical aquatics are grown there in one or two places, but from evidence seen and what I heard, when viewing and commenting on photographs of these as grown with us, these plants are far better grown in the United States than in the West Indies. They had nothing to compare with the *Victoria* as grown in the Phipps conservatories; nor with this class of plants as may be seen every Summer in the out door ponds of Dreer at Riverton, Twin Oaks, Washington, or Tower Grove Park, St. Louis. My dear old friend, James Gurney, superintendent of Tower Grove Park, writing to me last week incidentally mentions: "I would have been proud to have had you walk through my water garden last (1906) Summer. I tell you it was a complete surprise to myself, hundreds of people standing on the leaves of the *Victorias*, it did not matter how heavy or how light the folks were. The leaves were from 20 to 22 feet in circumference."

Economic Plants.

Sugar, at one time the main crop and wealth of the island, is now at an exceedingly low ebb; no money in it, and many, many once famous plantations are running to waste, the fields abandoned to guava, logwood, pimento and scrubbery and the buildings crumbling in ruins. But near Montego Bay I saw some very fine plantations.

Coffee is largely grown, particularly between 1,000 feet and 4,500 feet elevation. At the lower levels the plants grow thriftier and bear heavier than at the higher altitudes, but the finest coffee is from the higher lands. In private families one will get a good cup of coffee, but in the road houses we have better at home.

The agricultural depression owing to profitless sugar has turned the attention of the people to on their heads 20 or more miles from their moun-

tain homes to the coast town markets. Pepper and seasoning herbs are also plentiful.

Hardy Chrysanthemums.

Chrysanthemums of the "pompon" type, of which each plant produces from forty to one hundred blooms, an inch or two across, are many of them sufficiently hardy to be left out all Winter in central and southern latitudes. The blooms often remain in good condition until long after Thanksgiving, says the National Council of Horticulture.

These plants are the most capable of resisting frost of any garden herbs. Their peculiar merit is in blooming long after successive frosts have deeded the landscape. Their vivid colors are so unlike anything else at that season that they are indispensable in the carefully made garden.

The flowers are not ruined until their petals have been wet and frozen stiff. The plants are necessarily used for mass effects as great size is not to be expected. Masses of red and masses of brown side by side make a striking combination. Crimson and pink varieties should be kept by themselves because their colors are variable and they make a violent contrast with the yellow.

The culture of hardy chrysanthemums is simple. They need little care and can be planted in any situation, so that the soil is rich. They are best propagated from cuttings which should be made at any time from October to May. The cuttings may be obtained from any florist. They should be inserted singly in pots or sandy soil and as soon as they are rooted they should be put in separate pots or set outdoors in their permanent location.

FOR THE RETAILER

New York Wedding Decorations.

Many weddings are still taking place in this Metropolis, the decorations at some of which have been particularly elaborate. A very costly decoration by a leading Fifth avenue florist was most worthy, and more than ordinary taste was displayed in its execution. The keen competition in New York calls for something more than the usual, "thrown together" affair, and a decoration must be a creation, something different to what has been formerly accomplished, and every effort of hand and mind must be put forward to its successful bringing about. It must be a winner, and something to be remembered, or one's orders for high-class decorations will "grow beautifully less."

The decoration referred to was done entirely with lily of the valley, which naturally spells high price. The side aisles of the church were closed off from the main body by long avenues of palms extending the whole length of the church from front to rear, enclosing the two middle aisles. At every pew was hung a handle basket filled with lily of the valley, tied with white satin ribbon, and showered with narrow ribbon and lily of the valley on one side. The chancel, which was banked on either side with palms and Cibotium Schiedei, was finished off with a complete cascade of lily of the valley and Adiantum Farleyense extending from the altar rails right around on either side to the front of the chancel. The pillars on either side of the chancel were encircled with a broad sash garland of lily of the valley and Asparagus plumosus. Two swinging gates, made of the same flower, were placed about midway up the middle aisle; these were attended by pages, who opened them for the invited guests.

The house decorations were also of a high order, four large rooms and the hall being beautifully done. The canopy, or bower, under which the bridal party received, was perhaps the main feature. One side of the reception room was covered entirely with Southern smilax; this was relieved with branches of variegated maple. In the center a "shell canopy" was erected and covered with smilax. This was relieved with large clusters and sprays of Alma Ward carnations, interspersed with bows of white satin ribbon. The under side of the canopy was entirely covered with white sweet peas. Four marble columns in this room were entwined with garlands of Golden Gate roses, the mirrors being done with Asparagus plumosus, and cherry blossoms forced for the occasion. Palms and blue hydrangeas were used in the next room, two mantels being banked with them.

A wall fountain at one end of the room was filled with Spanish iris lavender and purple in color. In the third room, occupied at one end by the musicians, who were screened by a tall hedge of Dorothy Perkins rose, were placed in appropriate situations, tall vases filled with American Beauty roses. The mirror, which extended from the ceiling to the floor, was completely arched with Dorothy Perkins roses and asparagus. The last room, in which the buffet lunch was served, was done with forsythia, the center-piece for the table being made of Franz Deegen roses and maidenhair fern.

Several large palms formed the decoration for the hall. The winding stairway was covered with white lilac and Southern smilax.

A Sheaf of American Beauty Roses.

A very good arrangement for a funeral design was seen in course of construction at a prominent store this week. A frame about three feet high had been provided; this was made in the form of a sheaf and painted foliage green. Long stemmed American Beauty were wired to this and allowed to cross about the middle of the stem, individual wires extending upward from this center almost to the top of each rose, where they were again attached. The effect when finished was that of a beautiful sheaf of roses. This can be greatly improved upon by tying a large cluster of lily of the valley or white orchids where the stems meet at the center. American Beauty, green or white ribbon, to suit the taste, should be tied at the center and allowed to hang down over the stems.

A large standing cross of white pansies was also very good. This piece was made round and filled all over. A wreath of purple pansies, made separately, was passed over the top and allowed to fall naturally over the front of the cross. The base, which was square, was filled with ivy leaves; one long spray of ivy was allowed to climb naturally up to the arms of the cross, relieving the solid white of the pansies.

D. RAYBUN.

W. G. Salford's New Conservatory.

Editor Florists' Exchange:

We send you a photograph (herewith reproduced) of a new conservatory and show room we have just added to our flower shop. This conservatory is on the second floor of our building, with a four-foot stairway leading out of the store proper. It is forty feet long and twenty feet wide, with concrete floor, end walls, and sides up as far as the glass. The benches are also of concrete; frame of iron, with bent glass construction. Double thick ground glass is used. For lighting we use five fifty candle-power high efficiency lamps. The conservatory was constructed just in time for the past Easter display and proved a great help to us, being also the best advertisement we have ever had. It was erected by Charles Mitchell, of Poughkeepsie, N. Y.

W. G. SALTFOED.

PAMPHLETS RECEIVED.

"MESSENGERS OF SENTIMENT."—This is the title of an interesting brochure distributed by Fiedler's, florists, 902 South Charles street, Baltimore, Md. The language of flowers is given, with suggestions for combinations; also quotations from the poets, and a list of plant puzzles, reproduced from the New York Tribune, which includes such conundrums as the following:

"Plant the days of the year, and what will come up? Dates."

"The unmarried man's bane? Bachelor's buttons."

"An Israelite with the habit of traveling? Wandering Jew."

The booklet, which is neatly printed, and bears no advertising other than the firm's imprint, will be welcomed by the sentimentally inclined who desire to "tell the wish of thy heart in flowers."

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & EUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Dwarf Juneberry for Fruit.

An Iowa writer in a Western farm paper mentions the value of the dwarf Juneberry as a fruiting bush, classing it as of more value than the huckleberry. This, the dwarf Juneberry, exists in several varieties. The common Juneberry of our Pennsylvania woods is the Amelanchier botryapium. There are dwarf forms in the West; one is A. nana; and then in New Jersey there is one, A. rotundifolia, which is but a small bush.

The fruit of these is very good and to our Western friend may be better than the huckleberry, but it is not so to the taste of the writer. However, it is a very good berry and in every way worthy of garden room. Being an early ripening fruit it is a great treat to birds, and the risk that they may gather it has to be run.

It is not alone the fruit that gives the dwarf Juneberry value. In the earliest days of Spring it bears abundant white flowers, in small clusters, appearing before the leaves or with them as they push. It is certainly a bush to be recommended both for its flowers and its fruit.

In our woods one of the delights of early Spring is the display made by the Juneberries as they flower, usually on the edges of woods. J. M.

HARDLY A WEEK passes that The Florists' Exchange has not an inquiry from the addresses of some out-of-town florists to whom the New York retailers desire to send telegraph orders. Every progressive provincial florist should be represented in this column in order to secure his share of the business a-going.



New Conservatory and Showroom of W. G. Salford, Poughkeepsie, N. Y.

CLUB AND SOCIETY DOINGS.

THE COLUMBUS FLORISTS' CLUB Tuesday evening last, held its first meeting for April. President Stephens was in the chair, and there was a large gathering of members. The attractive display of plants and flowers, taken as a whole, was the best, perhaps, our members have made since we started the point system of awards last September. The award committee consisted of Messrs. M. B. Faxon, William F. Metzmaier, A. Wedemeyer, Jacob Reichert and Albert Hills; and their report was as follows:

For a very fine specimen of *Araucaria excelsa*, to John Williams 20 points. R. A. Currie received 15 points for a perfectly bloomed pan of Tournesol red double tulips. Hyacinths were well shown by Sherman F. Stephens, who for a vase of splendid spikes of King of the Blues was awarded 13 points; everyone present admired the superb color of this fine single hyacinth which still holds its place as the best of its class. Some especially good callas won for I. D. Siebert, 13 points; and the committee highly commended John Williams for geraniums.

The important matter before the club at this meeting was the arrangements for the distribution of the penny packets of flower and vegetable seeds that have been prepared for the school children. Since our last meeting the seed committee of the club requested the permission of the Board of Education to distribute the seeds to the children and collect for the same a penny a packet as in past seasons. The request was flatly refused. But the Board of Education instructed their clerk to communicate with the congressman of this district as to procuring free seeds for the children from the congressional distribution. One of your contemporaries stated last week that the same request was made by the Columbus Florists' Club last year and refused at that time by the Board of Education—such a statement is not the fact. In both 1905 and 1906, flower and vegetable seeds in packets were distributed through the teachers of the public schools here to the children and a penny each collected for the packets. For three years our club has worked hard and most enthusiastically to put on a firm basis this children's garden plan, believing it to be one of the best ideas for civic improvement ever invented. From the very start opposers sprang up, but public sentiment in Columbus is in favor of it, and the children themselves have become much interested, so the seeds will be distributed again this year. The sale of these penny packets should not antagonize any seedsman, because it does not compete with his five-and-ten cent packets. On the contrary, many seeds-men agree that this plan makes business for them. The writer can truly say for the Columbus Florists' Club, that the organization has been and is trying to do a good work, and has never, as individuals, in any way looked for or thought of any increased business from these school and home gardening plans. I neglected to mention that the reason our club is so prominent in this seed distribution affair this year, is because as in the past, there have been four or five different organizations doing the same work in as many ways, but this season the entire matter was placed in the hands of our club, and we having accepted the charge could not do otherwise than continue the work to the best of our ability. The end is not yet.

At this meeting the matter of our annual field day and picnic was brought up. A committee consisting of Messrs. James McKellar, R. A. Currie, Jacob Reichert, George Bauman, and W. F. Metzmaier was chosen to conduct the affair; the place and date will shortly be announced.

The delinquent member question was again discussed, but no one seems able to propose a plan that will bring them to the meeting. The hard part of it is, that the large proportion of these stay-aways pay all their dues very promptly, but seem entirely to lose sight of the fact that for the good of the club they should attend the meetings. This is very unfair to those who religiously are present at every session, and are working so hard for the organization.

It was arranged to have a rose and strawberry show in June, with proper prizes for each; and the members voted to make the occasion a Ladies' Night. We have many women members in our club and we hope to make this exhibition particularly interesting to them.

The committee having in charge the arrangements for the chrysanthemum show reported that matters were shaping themselves favorably for a fine display this Fall; and especially pleased were the members to learn that several special prizes would be offered by interested friends.

M. B. Faxon called the club's attention to the proposed plan of the American Rose Society in allowing

florists' clubs to become associate members of that organization. Our members were much interested in the idea. If it could be so arranged, and the American Rose Society award a yearly medal through the local club, it was the unanimous opinion that great good would result, especially in the culture of outdoor hardy roses.

The howling enthusiasts are in favor of having contests from now on, the same as we had last Summer with so much pleasure and success. This matter will be decided at the next meeting. At an unusually late hour the meeting adjourned till Tuesday evening, April 23. E. W.

LENOX, MASS. HORTICULTURAL SOCIETY.—The regular meeting of this society was held Saturday, April 20, President Herremans in the chair. A. Luche was unanimously elected a member. The assistant secretary's resignation was accepted with regret, and E. Pawcett was elected to fill the vacancy. After adjournment refreshments were served, and several of the members entertained by speech-making and singing. Eustace Jaques presented the society with a magnificent silver cup for competition at the Fall exhibition, and was heartily thanked by President Herremans. The following exhibitions will be held by the society in the Lenox Town Hall: Rose and strawberry, June 26; annuals and perennials, August 15; and the Fall exhibition, October 23 and 24. The schedules for these are out and copies can be had upon application to the secretary. G. H. I.



Staphylea Colchica as a Pot Plant
Grower, Mrs. A. Woltemate, Germantown, Pa.

Staphylea Colchica as a Forcing Plant.

In Europe the *Staphylea colchica* has been used for forcing for many years, but it has not been as common here as it will be when its merits are better appreciated than they are now. It is a good thing and has been long valued as a hardy shrub, many collections having it, but only of late years has it been seen in collections of forced shrubs in the United States. Its beauty speaks for itself, as the photograph represents it. The flowers are white, somewhat sweet scented, and last two weeks from the time of opening.

When grown in pots the flowering is more profuse, than when in the open ground, the growth being less rank. There must be a supply of young shoots from which growth may push to give the flowers; the blooms do not appear as soon as growth starts but later, after a little growth has been made. This is why it is not among the earliest of outside shrubs to flower.

Some other shrubs are out of flower before the *staphylea*, opens, the lilac for example. Mentioning the lilac reminds me to say that when in flower the *staphylea* is not unlike it at first glance. There is a native *staphylea*, the trifolia, growing wild in the woods near us; and there are European and Japanese species as well, while the one of our notes, *S. colchica*, comes from the Caucasus. This insures its hardiness over a large extent of our country.

The illustration is of a plant in the greenhouses of Mrs. Albert Woltemate, Germantown, Pa.

JOSEPH MEEHAN.

Stray Notes from Across the Atlantic.

PRICES OF STOCK.—The prices that stock realizes in the United States make our mouth water. I note the Pittsburgers cannot realize more than a dollar apiece for spiraeas; we think ourselves lucky to get a third of that. Grand stock near Easter only fetched twelve shillings a dozen wholesale. The best roses average about twenty-four shillings a hundred. Somewhat different to the New York dollars this! Good Enchantress carnations were bringing more than New York prices.

Easter trade was pretty brisk at holiday resorts, for the fine weather scattered people everywhere.

As for the boy who gets twenty-five cents for carrying a genista in a nine-inch pot, assuredly he is a lucky laddie. The average shop boy here thinks he is doing fairly well to earn that sum in a whole day. I myself would not object to carrying a nine-inch pot plant at a shilling a time, plus the car fare.

I am thinking the prices of things here would break some of the United States growers' hearts. Princess of Wales violets were only fetching two shillings a dozen bunches. America is fortunate in not having neighbors who flood the markets with cheap blooms.

SOCIABILITY IN FLORISTS' CLUBS.—The remarks of Wm. Falconer, regarding a social gathering gives me a sort of happy feeling. Down here (Folkestone) the Gardeners' Society has an annual smoking concert, which always goes with a bang. No bagpipes, though; we fellows, together with the piano, can make enough noise.

THE ROSE SOCIETY AND ITS WORK.—I certainly think the American Rose Society ought to take outdoor roses under its wing, and also embrace amateur growers as members. It is generally admitted that the July show of the National Rose Society in London is the finest of its kind; where we have one rose forcer there are a hundred outdoor growers. Why does it appear so difficult to get outdoor roses right through the season? We are cutting blooms from mid June until November. All or nearly all the teas and hybrid teas are constantly in flower, while such hybrid perpetuals as Fran Karl Druschki send up flowers with every growth. Is it that American growers are afraid to prune? Personally, I slay all varieties very hard, and thin growths as fast as they appear. Maybe there are conditions to prevent similar culture in the U. S. A., but I, at present, fail to see them.

I was interested in Mr. Hill's reference to a disease which causes roses to drop their foliage. Is this disease the same as we term black spot? I find clear Bordeaux mixture the best check for this fungous pest.

SWEET PEAS.—I am interested to note that sweet peas are being marketed in quantity. Up to time of writing, these flowers are not in any great supply here, Englemann being one of the few growers who handle the early sorts. The pink Earliest of All, presumably the same as Christmas Pink, is not a very popular color here. There will be considerable stir this season with these popular flowers, and American raisers will indeed have to work if they hope to catch up with our growers. I am testing forty novelties this season besides numerous seedlings.

United States growers will understand how things are moving when I say there are nearly three dozen varieties of the giant orchid-flowered type in being. Tuttle's Coral Gem will indeed have to be good if it is to hold a place against the giant Spencer seedlings that will be set up against it this year. Perhaps the most interesting fight will be between the new whites. Nora Unwin is praised highly by some, but it will go down before the varieties coming up against it; for purity and substance it has a match in Dorothy Eckford.

However, I am pleased to note that America is not to be right out of the running. I see by Burpee's list that they have some Spencer seedlings. Maybe W. A. B. will have them in London in July. T. A. WESTON.

Kent, Eng.

CUT FLOWERS FROM THE SCILLY ISLES.

During March, 1907, 100,000 boxes of cut flowers, weighing 522 tons, were sent from the Scilly Isles to England. The growth of this industry has been very considerable; although, 30 years ago, it commenced in a small way, in 1887 the total export was only 100 tons, whereas last year it exceeded 800 tons. It is not improbable that this year it will amount to a total of 1,000 tons, representing about 100,000,000 blooms.

10,000 FERNS YOU MUST HAVE

Boston, 8 in. 25c.; 4 in. 15c.; 3 in. 8c.; 2 1/2 in. 3c.
Pierstoni, 6 in. 25c.; 4 in. 15c.; 3 in. 8c.; 2 1/2 in. 3c.
Scottii, 8 in. 25c.; 4 in. 15c.; 3 in. 8c.; 2 1/2 in. 4c.
Barrowsii, 4 in. 20c.; 2 1/2 in. 6c.
Also 10,000 potted Cannas, 4c. Per 100
3000 Ampelopsis Veitchii, pot grown, dormant, long tops. \$4.00
2000 Clematis Paniculata, 1 year old, pot grown, 2 year 10c. 4.00
1000 English Ivy, 2 1/2 in. pot grown, heavy, long tops. 8.00
3000 Vinca Major, variegated, 2 1/2 in. pot plants. 2.60
Tritoma Uvaria, strong roots. 4.00
500 Eucalyptus Radicans, variegated, 3 1/2 in. pots. 8.00
1000 Hydrangea Otakae, 2 1/2 in. 2.60
2000 Hydrangea Paniculata Grandiflora, 2 year old, 8c.; 1 year 4c.
2000 Spirea Anthony Waterer, 2 year old, 8c.; 2 year, 4c.
600 Variegated Weigela and Rosea. 8.00
5000 California Privet, 2 1/2 to 3 ft., \$2.50 per 100. 12 to 18 in. 1.00
1000 Halleans Honeyaukela, 2 year old 4.00
Baby Rambler, 2 year old, 6 in. pots. 15.00
8000 Madeira Vine roots, \$3.00 per 1000. 1.00
1000 Stokesia Cyanea, pot grown, dormant, 3c.
500 Galadim Esculentum, 7x9, 5c.; 6x7, 3c.
XX Japan Snowball, 3 ft. 15c.
5000 Carnationa from flats ready to plant. 2.10
5000 East Commercial Chrysanthemum, 2 1/2 in. 2.60
BENJ. CONNELL, West Grove, Pa.

FERNS MY SPECIALTY

CIBOTIUM SCHIEDEI, King of Ferns; looks, grows, keeps and sells good. 4 in. 35c. each; \$4.00 per doz.; \$30.00 per 100. 7 in. \$1.60 each; \$19.00 per doz.; \$150.00 per 100. For larger sizes, prices on application.

BOSTON FERNS
7 in., worth each \$2.00; now \$12.00 per doz.
ADIANTUM FARLEYENSE
2 in., \$1.20 per doz.; \$9.00 per 100; \$85.00 per 1000.

ASSORTED FERNS for Jardinieres
2 1/2 in., \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.
Fresh, home-grown fern spores always on hand. Write for list.
Orders booked now for Fern Seedlings for June, July and August delivery. Over one million in stock, \$1.00 per 100; \$8.50 per 1000. Shipped in or out of flats.
J. F. ANDERSON, Short Hills, N. J.

ADIANTUM FARLEYENSE

Good, thrifty stock, 3-4-5 in.
ROSES
Grafted and Own Roots, Killarney, Richmond and Beauties.
POINSETTIA STOCK
Strong plants from bench.
THORN HEDGE GREENHOUSES, NEWTOWN SQUARE, PA.

FERNS

BOSTON FERNS
2 1/2 in. \$3.00 per 100. 4 in. \$10.00 per 100.
COLEUS, Golden Bedder and Verschaffeld, 2 1/2 in., \$2.50 per 100.
LARCHMONT NURSERIES, Larchmont, N.Y.

PALMS AND FERNS

Write for Price List.
The Geo. Wittbold Co.
1657 BUCKINGHAM PLACE CHICAGO

VIOLETS

LADY CAMPBELL, 3000 cold frame violet, clumps from 10 to 20 runners on each plant at \$3.00 per 100; clean and healthy.
H. H. STULTS, Kingston, N. J.

FERNS

Boston, Pierstoni, Barrowsii, Elegantissima, 4 in. 51c.; 5 in. 25c.; 6 in. 50c.; 7 in. 75c.; 8 in. \$1.00, \$1.25; 9 in. \$1.25, \$1.50.
Whitmani, 4 in. 85c.; 5 in. 50c.; 6 in. 75c., \$1.00; 7 in. \$1.50, \$2.00; 8 in. \$2.50, \$3.00, \$3.50.
Kenilae, 4 in. 25c.; 5 in. 50c.; 6 in. \$1.25, \$1.50; large plants, \$2.00 to \$3.00 each.
Latanas, 2 in. 8c.; 3 in. 6c.; 4 in. 15c.; 5 in. 25c.; 6 in., 50c.
All kinds of bedding plants at reasonable prices.

Hardy Rhododendrons, Azaleas, Dutchman's Pipe Vines, Clematis, etc., Boxwood from 20c. each to \$5.00.
John Bader, MT. TROY, ALLEGHENY, PA.

WHITMANI FERN

2 1/2 in., \$10.00 per 100. Scottii Ferns, 2 1/2 in., \$5.00 per 100.
Ampelopsis Veitchii, pot grown and staked, 4 in. pots, \$10.00 per 100.
Hardy Ivy, 3 branches, 10 to 18 in. in length, 3 in. pots, \$6.00 per 100.
Kenila Forsteriana, 4 in. pots made-up, strong and bushy, \$25.00 per 100. 5 in. pots, made-up strong and bushy, \$50.00 per 100. No order for less than 10 plants accepted.

CHAS. H. CAMPBELL, 3601 GERMANTOWN AVE., PHILA., Pa.

FERNS

Assorted, for jardinieres, strong, healthy plants, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.
Boston Ferns, 8 in. pots \$1.25 each; 9 in. pans \$1.50 each.
FRANK N. ESKESEN, Main St., Madison, N. J.

NEPHROLEPIS

Whitmani, 2 1/2 in., \$10.00 per 100.
Boston, 2 1/2 in., \$3.00 per 100.
Henry H. Barrows & Son, Whitman, Mass.

Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round
JOHN SCOTT
Rutland Road & E. 45th St., BROOKLYN, N. Y.
Telephone 2890 Bedford.

FOR SALE

Specimen LATANIA BORBONICA, in twenty-nine (29) inch cypress boxes, having from nine (9) to eleven (11) leaves and with about ten foot spread. Also smaller plants in seventeen (17) inch cypress boxes, having nine leaves and a spread of about six to seven feet.

JOHN RALPH, Florist, Saratoga Springs, N. Y.

BOSTON FERNS

From bench and 2 in pots \$3.00 per 100; \$25.00 per 1000.
QUIDNICK GREENHOUSES
J. H. CUSHING, Prop., QUIDNICK, ANTHONY, P. O. R. I.

BAY TREE STANDARDS

4 ft. 8 in. stem \$12.00 per pair; 4 ft. 8 in. stem \$15.00 per pair; 4 ft. 8 in. stem \$18.00 per pair.
PHOENIX CANARIENSIS
2 ft. 6 in. 10 leaves \$3.00 per pair; 2 ft. 10 in. 10 leaves \$4.00 per pair; 3 ft. 10 leaves \$5.00 per pair; 3 ft. 4 in. 10 leaves \$6.00 per pair.

ANTON SCHULTHEIS, P. O. Box 78, COLLEGE POINT, L. I., N. Y.

ROBERT CRAIG & CO ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS
Market and 49th Sts. PHILADELPHIA, PA.

WITTBOLD FLORIST

Wholesale Price List

Palms and Ferns

Table with columns: Variety, Size, Each, Dozen, 100. Lists various plants like Areca Lutescens, Asparagus Plumosus, etc.

The Geo. Wittbold Co.

1657 Buckingham Place, CHICAGO, - - ILL.

A Few Good Things You Want

Cash with Order.
Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in. \$5.00 per 100.
Asparagus Sprengerii, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.
Goraleum, S. A. Nutt, John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellane, Poltevine and Viand. 2 in. pots, \$3.00 per 100.
Rex Bagonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100 Boston Ferns, 5 in., 80c. each.
Vinca Var., 2 in., \$2.00 per 100.
Gladolus, blooming bulbs, extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.
Primula Obconica, 3 in. in bloom, \$5.00 per 100.
Hollitrops; Coleus, red and yellow; Cigar Plants; Verbena; Scarlet Sage, 2 in. \$2.00 per 100.

Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s; properly packed in good order,
GEO. M. EMMANS, Newton, N. J.

Dracaena Indivisa

Large plants in perfect condition; our 6 in. pots, \$3.00 per doz.; \$20.00 per 100; 8 in., \$4.00 per doz. Cash with order
GEO. H. BENEDICT, YORKVILLE, N. Y.

ASPARAGUS PLUMOSUS

2 1/2 in., \$3.00 per 100; 4 in. \$10.00 per 100.
Write for list of Mums, Bridesmaids, Gates, Ivory, Kaiserin, Brides, 2 in., \$3.00 per 100
THE FLORISTS' EXCHANGE, Franklin & St. Paul Sts., BALTIMORE, Md.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.
Sander, St. Albans, England and
235 Broadway, Room 1, New York City

PLANT CULTURE

PRICE \$1.00
A. T. DE LA MARE RTG. & PUB. CO., 2 Duane Street, New York

St. Louis, Mo. News Notes.

Charles Ford of Philadelphia, traveler for A. Hermann, New York, is calling on the trade this week, selling almost everything in the florist line.
A. S. Halsted, Henry Edmunds and E. W. Guy of Belleville, Ill., were in town last week calling on the trade; all report good cut flower business.

Henry Brown, who has been foreman for A. Brix for the past season, has left the place. Mr. Brown reports that he will take a much needed rest and will, if the opportunity presents itself, engage in business for himself.

Philip C. Scanlan, a young society man of great ability, was appointed Park Commissioner by Mayor Wells the past week to serve four years. Mr. Scanlan will succeed Robert Aul, who has held the position for the past four years and made a splendid record. George Oster-tag, who is superintendent under him, gave great help, and it remains to be seen if the new commissioner will re-appoint the latter.

Edwin Denker, whose father is Mayor of St. Charles, Mo., is buying quite heavily in this market of late. He reports business good in his town.

Mrs. M. Oster-tag is making a fine show of blooming plants at her new store at Olive street and Vandeventer avenue. Business in cut stock is good, and she claims her new place is a paying one.

Carl Beyer comes down to bowl every Monday night in order to get in the light weight class for the busy planting season.

Foster Floral Company, John Burke, Alex. Siegel and Riessen Floral Company, who have the extreme downtown district to themselves, report a good business with over the counter trade; funeral work, too, was quite heavy the past week.

Charles Juengel on South Fourteenth street reports a heavy plant trade. He says he has very little time now to visit friends or attend club meetings.

The rose houses of H. J. Weber & Sons at Nursery, Mo., are in fine shape. Walter Weber, who has charge of them, has had great success this year with Mme. Abel Chatenay, Richmond and Perle des Jardins. They will build a new rose house this Summer and extend several of the old ones. The firm's nursery business has been the largest in years this season; of this branch Frank A. is at the head.

The St. Louis Horticultural Society's aim is to open the new Coliseum, which will be built this Summer at Jefferson and Washington avenues, with their Fall flower show which would give them a great drawing card. The executive committee is now at work on the preliminary list which will be out by the first of the month.
St. PATRICK.

Orchids -- Orchids

Just arrived in a very fine condition, a large importation of

CATLEYA PERCIVALIANA

Write for Prices at Once.
ORDONEZ DE NAVE CO., Orchid Growers and Importers 8 Sampson Ave., P. O. Box 105, MADISON, N. J.

ORCHIDS

Arrived in fine condition, Cattleya Harrisoniae, C. intermedia, C. Gigas, C. Trianae, Speciosissima, C. Leopoldi, Laelia Purpurata, Oncidium Varicosum Rogersii, O. Marshallianum, Phalaenopsis Amabilis and P. Schilleriana. Write for prices.

LAGER & HURRELL, Summit, N. J. Growers and Importers

ORCHIDS ORCHIDS

To arrive shortly, CATLEYA, MOSSIE, SPECIOSISSIMA, GIGAS, SANDER, TRIANE, MENDELII, ODONTOGLOSSUM, CASCIPUM and others. Prices as low as possible. Write for them.
ORDONEZ DE NAVE CO., MADISON, N. J. 8 SAMPSON AV., P. O. BOX 105

Cyclamen

Splendens Giganteum Hybrids
This strain has no equal or better, in five true colors, including fringed varieties, twice transplanted from flats \$3.00 per 100, \$25.00 per 1000, from 2 1/2 in. pots \$5.00 per 100 \$45.00 per 1000.

Asparagus Plumosus Nanus

From 2 1/2 in. pots \$2.50, from 3 in. pots \$4.00, from 3 1/2 in. pots \$8.00 per 100.

Cannas

Started from Sandbed in variety as McKinley, Queen Charlotte, Florence Vaughan, Chicago, Papa, Egandato, J. D. Cabos, Alphonse Bouvier good plants \$3.00 per 100 \$25.00 per 1000. Satisfaction Guaranteed.

PAUL MADER,
East Stroudsburg, Pa.

COLEUS

Golden Bedder, Crimson Verschaffeltii and 15 others, R. C., 60c. per 100; \$5.00 per 1000. **Coleus**, Giant Fancy Leaves, \$1.00 per 100.

Geraniums, Nutt, Buchner, Poltevine and Doyle, 3 in. pots, \$4.00 per 100.

R. C. 2 in.	3 in.
100	100
100	100
Fuchsias	\$1.00 \$2.00 \$3.00
Heliotropes , Dark.....	.75 2.00 3.00
Salvia Bonifra	1.00 2.00 3.00
Vinca , Variegated.....	2.00 4.00
Ageratum , Gurney.....	.60 1.50
" Pauline.....	.60 1.50
Asters , Red, White and Blue.....	1.00
Verbenas , Purple, Scarlet and White.....	1.50
Marguerite Carnations	2.00
Lobelia Compacta.....	.60 1.50
Cannas	4.00

Cash with order.

ERNEST HARRIS, DELANSON, N. Y.

MAMMOTH VERBENAS, 20 varieties healthy plants from soil, \$1.00 per 100; \$3.00 per 1000. I have raised these Verbenas from seed, and twice transplanted them making fine stock plants. None but good stock sent out.

ASTERS, Queen of the Market, white and yellow, mixed, Droer's, Vick's and Semple's branching, transplanted, all healthy stock, 40c. per 100; \$3.00 per 1000.

S. A. PINKSTONE, 20-22 Philip St., UTICA, N. Y.

XXX STOCK

STRONG, READY FOR 3 IN. POTS
VERBENAS, California Giants, seedlings, finest grown, mixed, strong 2 in., \$2.00 per 100.

PHLOX, New dwarf, Grand for pots. A good seller. Mixed \$2.00 per 100.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.

PLANT CULTURE

PRICE, \$1.00.

The best book for the plant grower.

A. T. DE LA MARE PTG. & PUB CO. LTD
2-8 Duane St. New York.

SURPLUS STOCK

Ageratum , 4 best dwarf kinds.....	\$2.00	1000 \$20.00
Begonias , flowering kinds assorted.....	2.50	20.00
Colpus , assorted 2 inch.....	1.75	15.00
" rooted cuttings assorted.....	.60	5.00
Fuchsias , assorted kinds.....	2.00	20.00
Jasmine , assorted kinds.....	2.50	20.00
" Maid of Orleans dbl. white.....	3.00	30.00
Lantanas , best dwarf bedding kinds.....	3.00	25.00
Hibiscus , assorted kinds.....	3.00	25.00
Moonvines , white 2 inch.....	4.00	35.00
Lemon Ponderosa	3.00	30.00
Orange Otahello	3.00	30.00
Salvia Splendens , 2 1/2 inch.....	2.00	17.50
Vinca Variegata , 1 inch.....	6.00	60.00
" 2 inch.....	2.00	20.00
Palm , <i>Letania Borbonica</i> , 4 inch.....	\$1.50	8.00
" <i>Washingtonia Filifera</i> , 2 in.....	3.00	25.00

Rubber Plants , 4 in., \$2.50, \$3.00 doz.....	1000
Ferns , Boston, large sizes.....	\$8.00
" " 2 1/2 inch.....	\$10.00, 12 00
" Pierston , large sizes, \$8.00.....	3 50 30 00
" " 2 1/2 inch.....	\$10.00, 12 00
" Elegantisima , large sizes.....	3 50 30 00
" " 2 1/2 inch.....	\$10.00, 15 00
" Scottii , large sizes, \$10.00.....	4 00 10 00
" " 2 1/2 inch.....	\$15.00, 20 00
Hardy Pinks , assorted 2 inch.....	4 00 35 00
" Phlox , assorted field plants, best.....	2 50 20 00
Honeysuckles , <i>Halleas</i> , Golden Leaf and Scarlet Trumpet, pot plants.....	3 50 30 00

ROSES Everblooming Teas, Climbing Teas, Hybrid Teas, Hardy Climbing, etc., Lady Gay and Baby Rambler

Send in your list of wants for best prices. Terms Cash with order. Liberal treatment.

THE REESER FLORAL CO., Urbana, Ohio

REMOVAL SALE

Here is a chance for cheap Spring Stock.

Geraniums , 4 in.....	\$7.00
Heliotropes , 4 in.....	6.50
Ageratum , 4 in.....	8.50
Salvia Splendens , 3 in. \$3.00; 4 in.....	8.00
Petunias , large, double white, 4 in.....	8.00
Periwinkle , nice and long, 3 in \$4.00; 4 in.....	10.00
Hardy Ivy , long, 3 in. \$3.00; 4 in.....	8.00
Assorted Begonias , 3 in.....	3.00
Dracaena Indivisa , 6 in., very cheap, \$2.60 per dozen	
Martha Washington Geraniums , 4 in.....	10.00
Cannas , all varieties, 4 1/2 in.....	7.00
Daisies , white and yellow, 4 in.....	7.00
Mignonette , 4 in.....	7.00
Asparagus , 3 in.....	6.00
Honeysuckle Vine , 8 in., large plants.....	30.00
Verbenas , Alyson, Phlox, Cigar Plants, Ice Plants, Lobellias, Ground Ivy, Heliotropes, <i>Dracaena</i> , <i>Coleus</i> , in ten fancy colors, also Golden Bedder, Daisies, Bachelor Buttons, Forget-me-nots; all of the above are in 3 in. pots and sell at \$2.50 per 100.	
Achyranthes , Artillery, Plants, Ice Plants, Black-Eyed-Susan, Nasturtiums, 3 in pots, \$2.60 per 100.	

Please state if with or without pots.

MRS. JOHN H. CLAUS, 1119 Roy St., Philadelphia, Pa

COLEUS

VERSCHAFFELTII, GOLDEN QUEEN, FIRE BRAND, LORD PALMERSTON, QUEEN VICTORIA, BECKWITH'S GEM.

Prices of Rooted Cuttings by Express, 60 cents per 100; \$5.00 per 1,000. **GOLDEN BEDDER**, Golden Yellow—the old original, true to name. Rooted cuttings, 75c. per 100; \$6 per 1,000.

FANCY VARIETIES. In addition to those named we offer a fine stock of twelve kinds. 75c. per 100; \$6 per 1,000. Strong cuttings. Free from Mealy bugs.

AGERATUM

STELLA GURNEY, Dwarf Blue, 75c. per 100; \$6 per 1,000.

PRINCESS PAULINE, a combine of blue and white in same flower, 75 cents per 100; \$6 per 1,000.

SALVIA

SPLENDENS, tall standard, one of the best, rooted cuttings, 75c. per 100; \$6 per 1,000.

BONIBEE, medium dwarf, very good, rooted cuttings, 75c. per 100; \$6 per 1,000.

HELIOTROPE

ROOTED CUTTINGS, 75c. per 100; \$6 per 1,000.

The 1000 rate obtains only when 250 or more of a variety are ordered.

A. N. Pierson, Cromwell, Conn.

DRACAENA INDIVISA

18 to 30 in. high.....	\$10.00, \$15.00 and \$20.00
SHASTA DAISY , 3 in.....	3.00
MOON VINE , 2 in.....	2.50
COBAEA SCANDENS , 2 in.....	2.50
PHLOX , dwarf cor. pacta, 2 in.....	2.00
Trailing LANTANAS	3.00
Double PETUNIAS , 4 inches, in bud.....	4.00
VERBENAS , Mammoth, 4 colors, 2 in.....	2.00
CENTAUREA GYMNOCARPA , (dusty miller) 2 in.....	2.00

Cash with order please

GEO. J. HUGHES, Berlin, N. J.

Hydrangea Otaksa,

Asparagus Sprengeri,
Vinca Variegata, Smilax

Strong, clean stock, out of 2 1/2 in.,
\$2.50 PER 100.

John C. Hatcher

AMSTERDAM, N. Y.

PANSIES

THE JENNINGS STRAIN.
A few more left; strong plants at \$1 per 100, transplanted, ready to bloom. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn.
Grower of the Finest Pansies

FUCHSIA

Little Beauty, strong thrifty plants, 2 1/2 inch, ready for 4 inch, \$4.00 per 100.

Ferna Beaton and Pierston, 5 inch, \$25.00; 4 inch \$12.00; 3 inch, \$8.00 per 100. **Barrowsii**, 5 inch, \$30.00; 4 inch, \$15.00; 3 inch, \$10.00 per 100.

Adiantum Croweanum, 6 inch, 50c. each.

Ficus Elastica, 6 inch, 50c; 7 inch, 75c. each.

English Ivy, 3 inch, \$4.00 per 100.

BAUR FLORAL CO., Erie, Pa.

POINSETTIAS

2 1/2 in. pots \$5.00 per 100; \$40.00 per 1000. 5 per cent. discount on all orders received before July 1st accompanied by cash. July and August delivery.

S. N. PENTECOST,
1790-1810 EAST 101st ST., CLEVELAND, OHIO

A COMPARISON OF COSTS

Is the cost of a one inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

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Is the cost of the **one cent stamp** required to mail 369,200 circulars, exclusive of the great additional cost of paper, printing, addressing, etc.

The advertisements in *The Florists' Exchange* are ALWAYS read. The circular generally goes into the waste basket, without being read.

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER.

The columns under this heading are reserved for advertisements for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line 7 words to the line, set solid, without display. No advt. accepted for less than thirty cents.

Display advertisements in these columns, 15 cents per line; count 12 lines agate to the inch.

[If replies to Help Wanted, Situation Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]

Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—Young man would like a position as gardener's assistant. Experienced. Address, F. J. T., 132 Guernsey Street, Brooklyn, N. Y.

SITUATION WANTED—Rose grower, English, married, wants charge of section of rose houses on up-to-date place. References. Address, N. X., care The Florists' Exchange.

SITUATION WANTED—By working foreman on medium sized place. First-class grower of cut flowers and general stock. References. Address, N. W., care The Florists' Exchange.

SITUATION WANTED—By American, 37 years old, married man, good all around grower of roses, carnations, etc. Sober, capable and trustworthy. 18 years' experience and well recommended. Address, G. S., care The Florists' Exchange.

SITUATION WANTED—On private place by young, married man; well up in all greenhouse stock, especially orchids. Good vegetable grower. Highest references. Apply, R. C., 222 St. Mark's Square, West Philadelphia, Pa.

SITUATION WANTED—Young man of 20, intelligent, quick and witty, 2 years in commercial place, best of references, wishes place in greenhouses of private estate. Address, G. A., care The Florists' Exchange.

SITUATION WANTED—By gardener and florist on private or commercial place. 31 years of age, German, single, 12 years' experience. Address, Charles Reichert, New Hackensack, Dutchess County, N. Y., care R. G. Malony.

SITUATION WANTED—As assistant gardener who has had experience with flowers, vegetables and fruits under glass and pruning trees, edging drives, etc., on a first-class private place near New York. Address, A. M., care of Flamik, 530 East 12th Street, New York City.

SITUATION WANTED—A seedsman who has had a long experience in all branches of the trade including nursery stock and plants, wishes to secure a position with a firm needing an earnest and hard working man. Address, Seedsman, care The Florists' Exchange.

SITUATION WANTED—Horticulturist with long experience in orchids, palms and exotic plants; has been 5 years in tropical country, understands gardening in general; now at one of the well-known nurseries of New York State. Will give best of references in every detail; private place preferred. Address, A. P., care The Florists' Exchange.

SITUATION WANTED—As foreman or manager of good all around place. Twenty years' experience. Good grower of cut flowers, general greenhouse and nursery stock. Good landscape engineer and capable of designing and developing either large or small estates. Total abstainer. A No. 1 references. Have had both private and commercial experience. Address, Eastern, care The Florists' Exchange.

HELP WANTED

WANTED—Single, German florist and gardener, honest, industrious and strictly temperate. Full charge of about 6000 ft. glass. Dysinger, Albion, Mich.

WANTED—A foreman for an Eastern establishment; married man preferred, as good house is provided. Must be an all-around grower of roses, carnations and chrysanthemums, etc. and of strictly sober habits. No other need apply. State experience with references and full particulars. Address, G. M., care The Florists' Exchange.

HELP WANTED

WANTED—Seedsman for retail store. State age and experience. Address, Seeds, care The Florists' Exchange.

WANTED—An able-bodied young man; must have some experience in greenhouse work. Address, P. M. Olm, Bath, Me.

WANTED—Single man to take care of shrubs, perennials, etc. No greenhouses. State references and wages expected. Address, H. H. F. H., Burlington, Vt.

WANTED—Single man in greenhouses; asparagus, smilax and chrysanthemums. Steady position. State wages. Address, M. T., care The Florists' Exchange.

WANTED—At once, rose grower to take care of section of Killarney roses. Apply with references to E. G. Asmus Son, Closter, N. J.

WANTED—A good all-around florist for a downtown retail flower store in Chicago. Must come well recommended. Address, E. F., care The Florists' Exchange.

WANTED—At once, a general greenhouse man, experienced in bedding stock. H. B. Thompson, 421 Greendale Ave., Canonsburg, Pa.

WANTED—A good man for general greenhouse work. Steady position. Address, D. Y. Mellis, Holy Cross Cemetery, Flatbush, Brooklyn, N. Y.

WANTED—Experienced rose and carnation growers to take charge of sections. Give references and wages expected in first letter. Lake View Rose Gardens, Jamestown, N. Y.

WANTED—Three good seed salesmen; state salary wanted, also territory covered. Must be sober and capable. Address, L. L. May & Company, St. Paul, Minn.

WANTED—A man to work on commercial place as gardener and florist. Wages \$25.00 per month and board. Call at greenhouses, 81 East 2d Street, Windsor Terrace, Brooklyn, N. Y.

WANTED—An assistant in rose houses where American Beauty only are grown. A permanent position to the right man. Single man preferred. Address Frank Dolan, care John Young Company, Bedford Station, N. Y.

WANTED—Two good rose growers at once. Some knowledge of American Beauties preferred. Must have good references. Wages, \$12.00 per week to start. Address, N. S., care The Florists' Exchange.

WANTED—At once, florist for carnations, chrysanthemums and bedding plants. \$30.00 or \$40.00 per month to man who can fill the bill, including board and room. Paul Liebsch, Batavia, N. Y.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets, in the middle West. Married man preferred. State age, nationality, wages. Address, G. H., care The Florists' Exchange.

WANTED—Foreman who understands growing of carnations, chrysanthemums and bedding plants and able to make up funeral work. Good wages to right man. Address, N. Y., care The Florists' Exchange.

WANTED—A working foreman on a commercial place. Grower of carnations and chrysanthemums. Must be sober and capable. Good wages and steady work to the right man. Address, James D. Cockcroft, Northport, L. I., N. Y.

WANTED—A sober, competent man to grow carnations, violets, asters and bedding plants. One capable of taking charge, if necessary, of 20,000 feet of glass. Good wages to the right man, state experiences, wages, etc. Paul E. Richwagen, Needham, Mass.

WANTED—At once, a good grower of roses and carnations, also general stock. Must be sober, industrious, and willing to work. Wages, \$60 per month. German preferred. Must furnish good references. Apply, R. E. Leoben, Gloversville, N. Y.

WANTED—Rose grower; to competent man will give \$50.00 per month with house, more when ability to produce the best quality stuff is shown. Give references as to ability and character. Address, N. B., care The Florists' Exchange.

WANTED—Working foreman for a commercial place who must be a first-class plantsman, capable of growing a general line of decorative plants of first quality also bedding plants. State age, qualifications and wages expected. Address G. P., care of The Florists' Exchange.

WANTED—Working foreman, married man, not over 40, for moderate sized place where roses and some Easter stock is grown. Must have testimonials as to habits and ability. Good opening for ambitious, young man with some "go" in him. Permanent position, pleasant location and fair treatment. Wages, including house, \$75.00 per month. Address, G. W., care The Florists' Exchange.

Thirty cents is the minimum charge for advertisements on this page.

MISCELLANEOUS WANTS

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WANTED TO RENT—With privilege of buying, a plant of five or six thousand feet with land for outside work. State full particulars. A. H. Darling, Middletown, Conn.

Gardener with experience but no capital would like to correspond with party having the latter but minus the former. Address, G. Y., care The Florists' Exchange.

WILL EXCHANGE OR SELL, R. C. mums, Princess violets, Beauty of Nice stock seed for geraniums and other bedding plants. Waverly Greenhouses, Tuckahoe, N. Y.

WANTED TO LEASE—On or about 15th of June, with privilege to buy, a commercial place, about 8,000 to 15,000 sq. ft. of glass; must have some ground and dwelling within 10 miles of New York City. Address, G. B., care The Florists' Exchange.

FOR SALE OR RENT

FOR SALE—Four greenhouses, dwelling house, barn, seven acres land, horse, wagons, etc. One mile from station; 30 miles from New York. Price reasonable. Address, M. O., care The Florists' Exchange.

FOR SALE—Modern greenhouses in town of 13,000, one hour from Philadelphia. Retail trade earning 25 per cent.; takes all can grow. For details and reason for selling, address, G. Z., care The Florists' Exchange.

FOR SALE—Seed and floral business in large city within 25 miles of New York. New store on main business street. Seed and floral fixtures complete. Well established trade. Address, N. Z., care The Florists' Exchange.

FOR SALE—At a bargain, on easy terms, at Madison, N. J., range of greenhouses comprising 25,000 ft. of glass, 12,000 one year old plants in beds and 12,000 in 2 to 4 in. pots. Lot 150 x 300. Edward L. Cook, Madison, N. J.

FOR SALE—At Tarrytown-on-Hudson, five greenhouses, established 16 years, well stocked; dwelling house, eight rooms; land 200 x 100 fronting on street, with sewer and water. Easy terms. Address, J. E., P. O. Box 77, North Tarrytown, N. Y.

FOR SALE—Well established greenhouse plant, nicely stocked, for retail trade and doing good business. 10,000 feet glass in good condition; horse, wagons, tools, etc., all complete. City water. Lot 185 x 290, in growing city where real estate will advance. Sold on account of advancing years. Price and terms reasonable. George S. Belding, Middletown, N. Y.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousand feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing large business all through the season. Address, E. Hippard, Youngstown, O.

FOR SALE—Desirable greenhouse plant, directly opposite Spring Forest Cemetery, Binghamton, N. Y. Large and increasing demand for funeral designs and bedding stock. Care of cemetery plots big item in receipts. A dwelling house, 10,000 feet of glass, land comprising 20 city lots. Paying business and open chance for increase. Sold on account of advance in years. Apply to J. B. Tully, 47 Spring Forest Avenue, Binghamton, N. Y.

FOR SALE—Opportunity in Baltimore; five greenhouses, about 3,000 square feet of glass; room for more. Lot 200 x 160; two Hitchings No. 17 hot-water boilers, together with well stocked houses of palms, ferns, roses, plants, flowers, bulbs, etc.; all connected with a nice eight-room dwelling, heated by a Hitchings up-right hot-water boiler bath and toilet room, porches, etc.; cold frames, stable, wagon house, chicken houses, etc.; two spring wagons, one cart and one horse; also stall in the Lexington market; large suburban custom adjoining neighborhood; well established, profitable business; price \$7,000; cost \$12,000. Address J. W. Linton, 348 Equitable Building, Baltimore, Md.

GRW MUSHROOMS

If you do not know how, procure that simple but complete and practical book called "How to Grow Mushrooms." The price is ten cents and it can be secured from this office. Special rates will be made to the trade who wish to supply their customers.

THE FLORISTS' EXCHANGE 2 Duane St., New York Scranton Florists Supply Co., Scranton, Pa.

STOCK FOR SALE

Gladioli Hybrid Seedlings, offer half of planting stock; all sizes. S. Huth, Route 9, Cuyahoga Falls, O.

SANTOLINAS, fine, 2 in., \$2.00 per 100. Rooted cuttings from flats, \$1.00 per 100. Cash with order. Dysinger Greenhouses, Albion, Mich.

DABLIAS, 250 varieties of strong, field-grown roots; 25 named varieties for \$1.00. Catalogue free. C. Peirce, Dighton, Mass.

GLADIOLI, Groff's Hybrids, May and others. Seed ad. of March 23. Send for list. John H. Umpleby, Lake View, N. Y.

FUNKIA VARIEGATA clumps, \$6.00 per 100. Chrysanthemum, finest first white, R. C., \$2.00 per 100. H. Pladeck, Elmhurst, N. Y.

ROSES, Bride, Bridesmaid, Ivory, 2 in. pots, thrifty plants, \$3.00 per 100; \$25.00 per 1000. Wm. B. Sands, Lake Roland, Baltimore, Md.

JAPAN IRIS (Iris Kaempferi), white, \$6.00 per 100; mixed, \$4.00 per 100. Good roots, not seedlings. Wm. F. Halsey, Southampton, N. Y.

GROFF'S Hybrid Gladioli, genuine, all colors, No. 1, \$3.00 per 1000; \$1.00 per 100; No. 2, \$5.00 per 1000; 60c. per 100. A. B. Powell, Camden, N. Y.

FINE, stocky plants of Salvia Bonfire, 40c. per 100; \$3.00 per 1000. Ball of Fire and Scarlet Dragon, \$1.00 per 100. Cash. R. Powell, Florist, White Plains, N. Y.

Dwarf trees, bearing size, apple, pear, plum, peach, 25c.; shade trees, pine trees, 25c.; everblooming roses, etc. Address, 2136 Dean Street, near Saratoga Avenue, Brooklyn, N. Y.

BARY RAMBLER ROSES, fine dormant stock, one year, \$2.00 per 100; 2-4 in. pots, extra well rooted, \$4.00 per 100; \$30.00 per 1000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

VIOLETS, strong, healthy rooted runners of California, Princess, and Campbell, at \$1.00 per 100. Carnations, strong, healthy cuttings from soil; they are fine. Crocker, \$2.00 per 100; Hill, Crane, Queen, \$3.00 per 100. W. C. Pray & Company, Kirkora, N. J.

CHRYSANTHEMUMS, rooted cuttings, \$10.00 per 1000. Polly Rose, Pacific, Halliday, Perrin, Eaguehard, Major Bonnation, Jerome Jones, Cobbold, Yellow Jones, Timothy Eaton, Cullingford, White Bonnation, Dwarf Stevia, Cash with order. Newtonville Avenue Greenhouses, Newtonville, Mass.

FOR SALE

FOR SALE—200 boiler tubes, each 17 ft. long by 3 1/2 in., in good condition for greenhouse piping. For further particulars apply to the Albany Felt Company, Albany, N. Y.

FOR SALE—Greenhouse material and hot bed sash, milled from Galf Cypress to any detail furnished. Oxford putty, specially made for greenhouse and hotbed sash. Y. E. Reich, 1423 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE

RETURN TUBULAR BOILERS 1-40 H. P. price, \$225.00; 1-100 H. P. price, \$350.00. Above boilers have New York City police permit and guaranteed and insured for 90 lbs. by Maryland Casualty Co.

PIPE Good serviceable second hand. No Junk. Pipe with new threads. 2 in. 70; 1 1/2 in. 540; 1 1/4 in. 40; 1 in. 30; 3/4 in. 100; 1/2 in. 140; 1/4 in. 100. In cast iron greenhouse 1 1/2 ft. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy working. No. 1 cuts 3/4 x 1 in. \$3.00; No. 2 cuts 1 1/4 x 1 1/2 in. \$4.00; Armstrong Adjustable No. 2 cuts 3/4 x 1 in. \$4.00; No. 3 cuts 1 1/4 x 1 1/2 in. \$5.50.

PIPE CUTTERS Saunders, No. 1 cuts to 1 in. \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.60.

STILLSON WRENCHES Guaranteed. 12 in. 10; 14 in. 15; 16 in. 20; 18 in. 25; 20 in. 30; 22 in. 35; 24 in. 40; 26 in. 45; 28 in. 50; 30 in. 55.

PIPE VISES Reed's Best Hinged Vice, No. 1 grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in., guaranteed; 12 1/2 ft. 1 1/2 in., guaranteed; 12 1/2 ft. 2 in., guaranteed.

HOT-BED SASH New; Galf Cypress, 3 ft. x 6 ft. 800; glazed complete \$1.60 up. Second hand sash glazed \$1.25, good condition.

GLASS New American, 60 ft. to the box. 10x12 single at \$1.50, 12x12 12x12 double \$2.50, 12x14 12x20 and 14x14 to 14x20 double \$2.75, 18x18 and 18x18 B double \$3.00, 18x20 to 18 x 24 double \$3.25 per box. 2x3, 2x3, 3x10, single \$1.50, 3 x 10, single \$1.50.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

METROPOLITAN MATERIAL CO. Greenhouse Wreckers 1388-1408 Metropolitan Avenue, BROOKLYN, N. Y.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application.
KROESCHELL BROS. CO., 33 Erie St. Chicago

BEDDING PLANTS

	Per 100	Per 1000
Salvia, 3 in. pots.....	\$3.00	\$25.00
Verbena, 2 in. pots.....	3.00	25.00
Cenosa, Charlotte, Henderson,		
Austria, 8 in.....	3.00	
Cenosa, 4 in.....	5.00	
Double Petunias, 4 in.....	6.00	
Salvia Alysium, double: Phlox		
Drummond, Verbena, 2 1/2 in. pots.....	2.00	10.00
Alternanthera, R. & Y., 2 1/2 in.....	2.00	15.00
Ptergonium, 5 in.....	15.00	
Pansies, strong, 10 in bloom.....	1.50	10.00

J. S. BLOOM, Riegelsville, Pa.

MASTICA
 FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
 170 Fulton St.,
 NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

FERNS

For jardiniere, etc. Fine bushy stock in good assortment. \$3.00 per 100.
SCOTTI FERNs, 4 in. \$15.00 per 100.
DACRAENA INDIVISA, 6 in., fine stock, 35c. and 50c. each.
ENGLISH IVY, 4 in., \$10.00 per 100.
H. WESTON, Hempstead, N. Y.

Kaiserin Roses

1000 two-year-old dormant Kaiserin, grafted, out of 6 in. pots, strong, healthy plants in fine condition for flowering this Summer, \$15.00 per 100.

A. N. PIERSON, Cromwell, Conn.

CUT FLOWER BOXES

Waterproof corner lock style. The best and neatest cut flower box on the market to-day.

No.	Per 100	1000	No.	Per 100	1000
0	8x4x20	\$2.00 \$19.00	6	4x8x28	3.75 36.00
2	8x6x18	2.20 20.00	9	5x10x35	6.50 64.00
4	8x5x24	2.75 25.00	11	8x5x30	3.50 32.50

The above boxes are a few of our leading sizes. A complete list of all the sizes we manufacture mailed free on application. Add 50c. for printing on an order for 100 boxes, and 75c. for 200 boxes. No charge for printing on an order of 300 boxes, or over. Sample card board free on application.

Terms cash with order.

The LIVINGSTON SEED CO., Columbus, Ohio.

FIRMS WHO ARE BUILDING.

YOUNGSTOWN, O.—T. E. Milliken intends to build a greenhouse here.
CUMBERLAND CENTER, ME.—Frank H. Chase is making preparations to add a large carnation house to his plant.

BREWSTER, ME.—The Mt. Hope Floral Company has been organized here to conduct a florist's business. The capital stock is \$10,000, of which \$550 is paid in. The incorporators are Alfred C. Blake of Brewer and Clarence M. Tolman and Helen M. Tolman of Bangor. Helen M. Tolman is president and Alfred C. Blake treasurer.

HERBACEOUS PERENNIALS

We offer a fine stock of perennials as follows

	Per doz.	Per 100
Achilles, the Pearl.....	\$0.75	\$6.00
Agrostemma, Coronaria.....	.75	6.00
Aquilegia, Corvula.....	.75	6.00
Artemisia, Abrotanum.....		
Purshiana, Stelleriana.....	.75	6.00
Arabis, Alpina.....	.75	5.00
Boltonia, Asteroides.....	.75	6.00
Campanula, Grossecki, Punctata		
Baobinculus.....	.75	6.00
Caryopteris, Mastacanthus.....	.75	6.00
Coreopsis, Rosea.....	.75	6.00
Digitalis, Gloxiniflora		
White, Purple Rose.....	.75	6.00
Eupatorium, Ageratoides, Cuiest-		
num.....	.75	6.00

	Per doz.	Per 100
Heliathus, Multiflorus Maximus.....	\$0.75	\$6.00
Helleborus, Scaber Major.....	1.00	8.00
Hibiscus, Moschutos, Crimson Eye.....	.75	6.00
Papaver Orientale, 4 inch pots.....		
Lanthe, Pycnostachya.....	.90	7.00
Mentha, Piperita.....	.60	4.00
Myosotis, Palmstris Scemperlorens.....	.60	4.00
Hypocitrum Measrlanum, 2 1/2 in. pots		
Rhynostegia, Virginia.....	.75	6.00
Rudbeckia, Golden Claw Newmanii.....	.75	6.00
Salvia, Azurea Grandiflora.....	.90	7.00
Sedum, Acre.....	.75	6.00
Tritoma, Pfitzeri.....	1.00	8.00

Chrysanthemum Stock, 2 1/4 in Pots

	Per 100
PINK	
A. J. Ballour.....	\$2.50
Dr. Enguehard.....	2.50
Glory of the Pacific.....	2.25
Maad Dean.....	2.50
Mrs. Coombs.....	2.50
Pink Ivory.....	2.25
YELLOW	
Col. D. Appleton.....	2.50
Oct. Sunshine.....	2.50
Monrovia.....	3.00
Gold Mine.....	3.00
Yel. Eaton.....	3.50
Major Bonnaifon.....	2.25

	Per 100
WHITE	
Ivory.....	\$2.25
Mad. Bergman.....	2.25
Alice Byron.....	2.50
Mrs. H. Robiuson.....	2.50
Polly Rose.....	2.25
Timothy Eaton.....	2.50
White Dean.....	3.50
CRIMSON	
Black Hawk.....	2.25
John Shrimpton.....	2.25

STEVIA Rotted Cuttings \$5.00 per 1000 EDW. J. TAYLOR, SOUTHPORT, CONN.

New York.

The Week's News.

An exhibition illustrating the beauty of trees, their growth, their cultivation and preservation, their usefulness to man, their part in literature and art, is holding in the Free Public Library of Newark, N. J., April 12 to May 5, 1907, and is being largely attended. Among those in the trade who have contributed to the exhibition are Andorra Nurseries, Chestnut Hill, Pa., descriptive pamphlets; The Florists' Exchange, series of Gallery of Pine Specimens; Samuel C. Moon, Morrisville, Pa., exhibit of fifty mounted specimens of foliage of evergreen conifers; Olmsted Brothers, Brookline, Mass., photographs of trees in city streets and of famous trees; also the Department of Agriculture and officials of several experiment stations.

Experts from the State Agricultural Experiment Station, together with Congressman Cocks and President Peters of the Long Island Railroad, held a conference with some of the leading farmers of Long Island at Riverhead, L. I., on Wednesday, April 17. The object of the conference was to talk over and suggest remedies for the various vegetable pests that farmers are troubled with; Mr. Parrot in speaking of the San Jose scale, stated that the sulphur wash was absolutely the best combatant, and advised using it in the early Spring before the buds began to burst.

Mrs. Forbes, the mother of Alex. Forbes of Peter Henderson & Company, died at her home at 385 Arlington avenue, Jersey City, on Sunday night, the 21st inst., at the age of 82 years. Funeral services were held at her late residence Tuesday evening, the interment taking place on the day following.

A. Dacre, who for some time has been conducting a retail florist store on West Thirtieth street, has closed up his business and is at present visiting in Montreal, Canada.

Rudolph Fischer, Great Neck, L. I., will sell by auction at his place there, on April 25, his farm implements, florists' requisites, Abundance carnations and other stock.

B. S. Slinn, wholesale florist of 55 West Twenty-sixth street, will, on or about May 15, leave for a vacation to be spent in Arizona, hoping that the dry climate there will afford him some relief from the severe attacks of rheumatism from which he suffers occasionally.

Pesenecker & Son, the florists of Bergen and Bidwell avenues, Jersey City, have sold their greenhouses to Halliday & Smith, possession to be taken July 1.

The greenhouses at 687 Bergen avenue, Jersey City, which have been leased for a number of years by Thomas Young, Jr., will be dismantled shortly

and the property cut up into building lots.

The large tent which is used by the plant growers who attend the market at Canal and Washington streets was damaged quite severely by the high winds which prevailed last Saturday.

A. J. Guttman, wholesale florist at 43 West Twenty-eight street, left on Saturday last for a trip to Cuba.

The cold weather that has been experienced lately has served to check to a considerable extent the counter trade in the retail seed stores.

W. H. Lutton of Jersey City has secured the contract for the erection of a range of greenhouses for E. W. Pengar, Newark, N. J. The houses will be of modern type, iron construction and heated by hot water. The contract price is in the neighborhood of \$35,000. Mr. Lutton has also secured the contract for the erection of greenhouses for Wm. Gahrs at Newark, N. J.

Paule de Nave, who for four years was with the orchid firm of Lager & Hurrell, Summit, N. J., will operate an orchid establishment at Madison, N. J., under the firm name of Ordenez de Nave.

Godfrey Aschmann, the well-known plant grower and importer of Philadelphia, Pa., was in town last week.

Henry Hession, Clarkson Street, Brooklyn, N. Y., will build a new greenhouse, 20x100 feet.

Death of V. H. Hallock.

Valentine H. Hallock, formerly in the florist business on Long Island with John Thorpe, died on the 17th inst. at his home in Queens, L. I., aged 85 years. The funeral was held on Sunday last. Mr. Hallock was a descendant from the thirteen Quaker families that immigrated from Connecticut and settled on Long Island in 1640.

Mr. Hallock was born September 22, 1822, at Milton, N. Y. He was brought up on his father's farm there, and after his marriage engaged in farming on his own account at various points, becoming a successful breeder of Cotswold sheep. About 1863 he moved to Queens, L. I., and engaged in the milk business. A few years later he sold this place to C. L. Allen, then of Brooklyn, who built greenhouses, and went largely into the culture of lilies and gladioli, besides greenhouse plants and cut flowers. Through changes Mr. Hallock had to take the farm again, and went into plant and bulb growing, as V. H. Hallock & Son. At one time they held the largest stock of gladioli in the trade. Later they took into the business John Thorpe, and the firm name became V. H. Hallock, Son & Thorpe. During this time the Queen's Scarlet rose was put out by the firm, and is still grown; Mr. Thorpe also introduced some fine new geraniums of which he was a successful breeder.

Although Mr. Hallock was at the head of the firm, the details were carried out by his son E. V. Hallock, the father at that time being connected with the Wallabout Mills, in Brooklyn, where he became noted as an expert in milling matters, and was frequently consulted as such. He invented a damper for regulating the steam pressure of the boilers; it was a great success as a coal saver, and from this he received a considerable income. He sold out his interest in the mill, having previously disposed of the plant and bulb trade to John Lewis Childs, since which time he had not been actively engaged in any business.

About 5 years ago Mr. Hallock was seriously injured by a runaway accident, his life being undoubtedly shortened by it. Last January he had a severe fall which confined him to his bed, from which accident he never fully recovered. He was in the office assisting his son until a few days before his death, which came very suddenly and painlessly.

Boston.

News Notes.

William Rust, gardener to Dr. C. G. Weld, Brookline, exhibited at Horticultural Hall on Saturday an exceptionally fine plant of Himalayan rhododendron Lady Alice Fitzwilliams and was awarded a silver medal for the same.

A. H. Hewes & Company, flower pot manufacturers, have started a large force of men on getting out clay for their factory. The business of this firm is now so large that all the time available is occupied in filling their storage sheds with clay in order to keep their works going the whole year.

Welch Brothers received a shipment of Marechal Niel roses one day last week—the first they have handled in five years. The sight of these flowers reminded one of old times, Rogers of Pomfret, Conn., was the grower.

The A. T. Stearns Lumber Company are exceedingly busy these days; they have several large contracts for greenhouse cypress and their mills are consequently a place of activity.

Mayflowers have made their appearance this week and large quantities are received daily from the Cape and Plymouth districts.

Several cases of blood poisoning from rose thorns have been reported lately. P. J. Donoghue of the Waban rose salesroom has had an arm in bad shape for some time and Joseph White of Doyle's has both hands in bad condition.

Miss Eleanor McAdam, bookkeeper for Julius Zinn, celebrated her birthday on Thursday and was agreeably surprised to find her desk handsomely decorated by her associates in the store in honor of the event.

The banquet of the Gardeners and Florists' Club, which was held in the lecture room of Horticultural Hall on Wednesday evening last, was in every way a grand success and an event long to be remembered by those who attended. About a hundred and fifty ladies and gentlemen were present. Cook served an elegant dinner, and the decorations in the hall were very artistic. Very noticeable on the tables were the fronds of Nephrolepis Whitmanii, which make a unique decoration.

The genial Edward Hatch was master of ceremonies and during the evening kept the members in good humor by his kind and witty remarks. Dancing was kept up till a late hour, the order of dances numbering twelve; music was furnished by Astrella Brothers' orchestra. Peter Miller was an able floor director during the dancing. Dunce Finlayson was chairman of the reception committee; J. W. Duncean had charge of the decorations and Edward Hatch took charge of that part he so ably fills seeing that the dinner tables are amply provided for.

David Lumsden has purchased the Varnum Frost estate, Waverly, containing ten acres land and dwelling and three greenhouses, 200x30 feet each, and will make a specialty of growing palms and ferns for the Boston market.

Visitors this week included Wm. Tricker and Harry A. Baynard, New York. J. W. DUNCAN.

The Largest Growers of Chrysanthemums in America

Rooted Cuttings from sand Ready April 1

Table listing various chrysanthemum varieties under 'White' and 'Yellow' categories with prices per 100.

Table listing various chrysanthemum varieties under 'Pink' and 'Pink (cont'd)' categories with prices per 100.

Roses from 2 1/2 inch pots

Table listing various rose varieties with prices per 100 and per 1000.

WIETOR BROS., Wholesale Growers of Cut Flowers 51 Wabash Ave. CHICAGO

GERANIUMS 100 Varieties, 3x3 1/2 pots, my selection \$6.00

COLEUS 10 Varieties, 2x2 1/2 pots \$2.00

SCOTLAND'S FLOWER THE HEATHER Read its absorbing history, its legends, traditions, poetry and songs.

MABELLE--New Pink Carnation for 1907 Color--A peculiar shade of lovely pink, with a faint yellowish cast...

JOS. H. CUNNINGHAM, Delaware, O.

GERANIUMS ROOTED CUTTINGS S. A. Nutt, Grant, Buchner, and Perkins, \$10.00 per 1000.

100,000 GERANIUMS Finest stock in the country; most in bud and bloom.

A. T. DE LA MARE PTG. & PUB. CO., Ltd Nos. 2-8 Duane Street, New York

THE H. WEBER & SONS CO., OAKLAND, MD.

LOOK HERE ROOTED CARNATION CUTTINGS 250 at 1000 rate WHITE LAWSON, VARIEGATED LAWSON, \$3.00 per 100...

GERANIUMS Ready for 4 in. pots, Beauty Poltevine, John Doyle, \$2.50 per 100.

CANNAS Black Prince, McKinley Chas. Henderson, West Virginia, etc. large 3-4 in., \$5.00 per 100.

CHRYSANTHEMUMS

Bonnafton, Ivory, Appleton, Enguehard, Robinson, 2 1/2 in., \$2.00 per 100; \$17.50 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE, BRIDGEPORT, CONN.

CARNATIONS Strong, healthy, well rooted stock Bonntiful \$3.00 Per 100 \$25.00 From pots \$3.50

GERANIUMS in bud and bloom, fine stocky 4 inch Nutt, Doyle, Poltevine, La Favorite, Jenita, Perkins, \$6.00 per 100.

WM. S. HERZOG, MORRIS PLAINS, N. J. GERANIUMS---GERANIUMS READY MAY 1.

CHRYSANTHEMUMS CARNATIONS and ROSES

Novelties and all the standard varieties. MOSCHOSMA RIPARIUM, a valuable new Christmas flowering plant.

SMITH & GANNETT Geneva, New York

CHRYSANTHEMUMS White: EATON, ESTELLE, BONNAFFON, ALICE BYRON, IVORY. Pink: GLORY OF THE PACIFIC, ENGUEHARD.

VINCAS

VINCAS, variegated, 2 in. pots, \$2.00 per 100; \$18.00 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

GERANIUMS In bud and bloom, S. A. Nutt, La Favorite, Beauty de Poltevine, Mary Hill, A. Ricard, John Doyle, Jean Vaud, Marquis de Castellane, and other good varieties, 3/4 in. pots, \$3.00 per 100.

Chrysanthemums OUR SPECIALTY

Nathan Smith & Son Adrian, Mich.

Begonia Gloire De Lorraine

The finest leaf cuttings obtainable For delivery from May 1st, 2 1/2 in. pots \$12.00 per 100, \$100.00 per 1000.

GERANIUMS Good little plants, pot grown a month. Sent with part soil. Bonntiful, Buchner, Poltevine, Ricard, Perkins, Nutt, Doyle, La Croix, \$1.40 per 100.

CHRYSANTHEMUMS

From 2 1/2 in. pots, \$20.00 per 1000; rooted cuttings, \$15.00 per 1000. Testout, Ivory, White and Yellow Bonnafton, White Star and Helen Frick, \$30.00 per 1000.

GERANIUMS

J. AMBACHER, - West End, N. J. Your Money is well spent when you advertise to THE FLORISTS' EXCHANGE

GERANIUMS

DANIEL K. HERR, Lancaster, Pa.

A RECORD TO BE PROUD OF

THE FLORISTS' HALL ASSOCIATION HAS PAID 1,040 DOLLS. amounting to \$102,000.00 For particulars address JOHN C. ESLER, Saddle River N. J.

W.M. SWAYNE, Box 226, Kennett Square, Pa.

GOLDEN DOME

There is nothing to equal it. Stock ready now. \$35.00 per 100; \$5.00 per dozen. S. S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa.

VICTORY Has Made Good. Price, \$6.00 per 100; \$50.00 per 1000.
 A discount of 5% for cash with order.

IMPERIAL and PINK IMPERIAL CARNATIONS. You cannot afford to be without these two excellent varieties.
 Price \$12.00 per 100; \$100.00 per 1000. 250 at 1000 rates.

EVERY VARIETY OF CUT FLOWERS can be had from Alexander J. Guttman, The Wholesale Florist of New York.
 Enough said. **A. J. GUTTMAN, 43 WEST 28th STREET, NEW YORK** Phones 1664-1665 Madison Square

LARGEST STOCK IN THE COUNTRY

ROSES AND GARNATIONS

ROSES
The New Rose "Morton Grove," winner of the Silver Cup at Chicago Flower Show, 1906, for best new rose, will be disseminated in 1908.
 R. C. 2 1/2-in. 2 1/2-in.
 Per 1000 100 1000

Maids	\$18.00	\$4.50	\$40.00
Brides	13.00	4.50	40.00
Gates	4.50	40.00	
Uncle John	4.50	40.00	
Chatenay	4.50		
Richmond	4.50	40.00	
Perle	5.00		
Sunrise	5.00		
Rosalind Orr English	5.00	45.00	
Kaiserin Augusta Victoria	4.50		

American Beauties, rooted cuttings, May 1st delivery, \$30.00 per 1000; 2 1/2 in. pots, April, May and June delivery, \$7.00 per 100, \$65.00 per 1000.
 Bench Plants, Roses, cut back, 2 years old, Uncle John, Perle, Rosalind Orr English, and Sunrise, a w ready for limited time, \$5.00 per 100 - \$10.00 per 1000. American Beauties \$10.00 per 100; \$75.00 per 1000.

CARNATIONS

	Rooted Cuttings	2 1/2-in.
White Lawson, 5000	\$3.00	\$25.00
Gov. Wolcott, 12000		\$30.00
Pink Lawson, 7000	2.00	17.50
Enchantress, 5000	3.00	25.00
Victory, 12000	5.00	45.00
Cardinal, 1600		40.00
Red Lawson, 1100		35.00
Prosperity, 2000		30.00
Variegated Lawson, 1000		40.00
Glendale, 1400		40.00
Craig, 1000		45.00
Patten, 200		40.00
Haines, 400		50.00

SPECIAL
 12000 R. C. Victory \$5.00 per 100; \$45.00 per 1000

CHRYSANTHEMUM CUTTINGS

BEST COMMERCIAL VARIETIES ONLY

WHITE				PINK			
	R. C. per	2 1/2-in. per		R. C. per	2 1/2-in. per		
Robinson	\$2.00	\$17.50	\$2.50	\$2.50	\$22.50	\$3.50	\$30.00
Crawford	2.00	17.50	2.50	2.50	22.50	3.50	30.00
Eaton, Timothy	2.50	22.00	3.00	27.50			
Alice Byron	2.50	22.00	3.00	27.50			
Touset	4.00	35.00	5.00	45.00			
J. Nonin	4.00	35.00	5.00	45.00			
Madam Paul Sahut	5.00	45.00	7.00	65.00			
Ohadwick	2.50	22.00	3.50	30.00			
Adelia	2.00	17.50	3.00	27.50			
Kalb	1.50	13.50	2.50	22.50			
Merry Christmas	2.00	17.50	2.50	22.50			
White Bonafon	2.50	22.50	3.50	30.00			

RED
 Intensity 2.00 17.50 3.00 27.50
 Shrimpton 2.00 17.50 3.00 27.50

FROM HEALTHY STOCK
POEHLMAN BROS. COMPANY Morton Grove, Ill.

CARNATIONS

Rooted cuttings Victory, \$8.00 per 100; \$50.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patten, \$2.50 per 100; \$20.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Penn, and Fair Maid, \$2.00 per 100; \$15.00 per 1000. 5 per cent. discount for cash with order.
R. ENGELMAN & SON, Pittsfield, Mass.

ROOTED CARNATION CUTTINGS

White Perfection	100	1000
Glendale	6.00	40.00
Victory	5.00	40.00
Robert Craig	6.00	40.00
Fiancee	2.50	20.00

250 at 1000 rates.
W. J. & M. S. VESEV - FORT WAYNE, IND.

VICTORY

Splendid Stock from snail, \$6.00 per 100; \$50.00 per 1000.
IMMEDIATE DELIVERY.
JENSEN & DEKEMA, 674 W. Foster Avenue CHICAGO, ILL.

Robert Craig Cuttings

FOR SALE
 From soil or 2 in. pots, just ready for a shift into larger pots. They are in first-class health and condition. Price, \$6.00 per 100; \$50.00 per 1000.
VALLEY VIEW GREENHOUSES
VELIE BROS., Props. Marlborough, N. Y.

CARNATIONS

FINE, STRONG PLANTS

Robert Craig, 1 1/4 in. pots	100	1000
Variegated Lawson, 1 1/4 in. pots	3.00	25.00
Victory, 1 1/4 in. pots	3.00	25.00

ROBT. C. PYE, NYACK-ON-HUDSON, N. Y.

White Enchantress

white sport of Enchantress, rooted cuttings \$12 per 100; \$100 per 1000.
E. SCHRADER
 NEW SPRINGVILLE, Richmond Borough, N. Y.

CARNATIONS

Rooted Cuttings; Fine Healthy Stock
WINSOR and HELEN M. GOULD, \$12.00 per 100, \$100.00 per 1000.
ROBERT CRAIG, VICTORY, HELEN GODDARD, \$8.00 per 100, \$50.00 per 1000.
RED LAWSON and VARIEGATED LAWSON, \$4.00 per 100, \$30.00 per 1000.
LADY BOUNTIFUL, NELSON FISHER, and ENOCH ANTRES, \$3.00 per 100, \$25.00 per 1000.
ROSEY MARKET, GENERAL MAGEO, MRS. T. W. LAWSON PINK ARMAZINDY; MELBA, QUEEN LOUISE, \$2.00 per 100, \$15.00 per 1000.

VERBENAS—Best Mammoth, rooted cuttings \$1.00 \$ 8.00

Agrastus, Cope's Pet, White Cap, P. Paulina and Stella Gurney	1.00	8.00
Achyranthes, 4 sorts	1.00	8.00
Colusa, best bedding and fancy sorts	1.00	8.00
Cupha, Platycentra	1.25	
Fuchsia, double and single varieties	1.25	15.00
Feverfew, The Gem	1.50	12.00
Geranium, double and single	2.00	15.00
Heliotropis, light and dark	1.25	10.00
Ivy, German	1.25	
Moon Vins, true white	2.00	15.00
Salvia, splendens, Redman, etc.	1.25	10.00
Salvia, new early flowering sorts	1.50	12.00
Vinca, variegated and Elegans, 2 1/4 in. pots		8.00

CANNAS
 Strong dormant Roots in 30 fine varieties \$2.00 and \$3.00 per 100; \$18.00 and \$25.00 per 1000.

WOOD BROS.

ARISTOCRAT, Beautiful cerise, winner of many First Prizes this season. The most productive carnation. Clean healthy stock ready for immediate delivery. \$12.00 per 100. \$100.00 per 1000.

WHITE PERFECTION,

You get **QUALITY** when buying from us.

ROSES:

2 1/2 in ready now. \$3.00 per 100. \$25.00 per 1000.
BRIDES MAIDS RICHMOND
GOLDEN GATE CHATENAY

CHICAGO CARNATION CO.

S. J. GODDARD
 Framingham, Mass.
 Rooted Carnation Cuttings a Specialty.
 Correspondence Solicited.

ASPARAGUS

FLUMGUSUS NANUS, 2 1/4 in. pots	Per 100
" " 3 in. pots	4.00
" " 4 in. pots	8.00
SERENGERI, 2 1/4 in. pots	3.10
" " 3 in. pots	8.00
" " 4 in. pots	8.00

Grafted ROSES Own Roots
 Orders booked for early delivery, **KILLARNEY, RICHMOND, JOE HILL, KAISERIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, PERLE, SUNRISE, SUNSET, etc.**

MANETTI STOCKS

\$1.25 per 100; \$10.00 per 1000.

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A. J. BAIFUR, COL. D. APPLETON, DR. ENGUEHARD, GEO. KALE, MRS. MCARTHUR, MONROVIA, MRS. BARCLAY, MAUD DEAN, META, MISS ALICE BYRON, MRS. COOMBS, NAGGYA, GEAH, ROBT. HALLEDAY, SOLEIL D'OCOTER, SUFERBA, WM. DUCKHAM. Prices Rooted Cuttings, \$2. per 100; \$15. per 1000.
AUTUMN GLORY, ADA SPALDING, CREMO, CULLINGFORDII, DOROTHY DEVENS, GLOEY PACIFIC, HARRY MAY, H. W. RIEMAN, IVORY, J. E. LAGER, J. H. TRGY, MRS. JEROME JONES, MINNIE WANAMAKER, MRS. BAER, MAJOR BONNAFFON, MAD. FRED, BERGMAN, NEVUS, PINK IVORY, TIMOTHY EATON, W. E. LINGOLN, YENO. Prices, Rooted cuttings, \$1.50 per 100. **JEANNIE NONIN, \$2.60 per 100, \$20.00 per 1000.**

Fishkill, N. Y.

Beautiful cerise, winner of many First Prizes this season. The most productive carnation. Clean healthy stock ready for immediate delivery. \$12.00 per 100. \$100.00 per 1000.

Winner wherever shown, the best pure white carnation. Immediate delivery. \$6.00 per 100. \$50.00 per 1000.

JOHN E. HAINES

The leading scarlet, brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass, all shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted healthy cuttings leave the place.
ROOTED CUTTINGS, \$6.00 per 100; \$50.00 per 1000.
JOHN E. HAINES, Bethlehem, Pa.

CARNATIONS ROOTED CUTTINGS

Ready Now—Prompt Delivery.
Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000.
F. DORNER & SONS CO., La Fayette, Ind

CARNATIONS

I always plant in flats simply because it saves a lot of work and when set out in the field I believe the plants take hold quicker than out of pots.
 The advantage of growing young carnations in flats over growing them in pots, at least in my soil, which is a clay loam, is, first, a saving of labor in potting and repotting and handling; second, they do not suffer from want of water so quickly, which is worth while, because in the Spring rush they are apt to be neglected. Third, about the last of April or the first of May they can be planted outside, where a water pipe is handy laid. This outdoor treatment, with cool nights, brings the strength and vigor right into them and they are then in tip-top condition to plant in the field. In case of a hard frost they are easily covered with a large cotton cloth, which is sufficient protection at this time of the year.
Removing the Plants from Flats.
 By cutting with a sharp knife both ways between the rows of plants, then holding the flat up on one side, giving it a sharp downward tap upon a solid block, the plants are loosened and easily taken out in good shape with all the soil clinging to the nice mass of roots which they always have.
 These plants, with roots looking out in every direction (not like a pot-bound plant), but ready to take hold of their new quarters, always make fine healthy stock.
 So far I have planted out in the field as early as possible, sometimes commencing the last of April, when we still have hard frosts, and find the earliest out always make the best plants. They are planted eight to nine inches apart, and the rows 30 inches, so that cultivating can be done with a horse. This should be done as soon as possible after every rain.—A. J. Stahelin before Detroit Florists' Club.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 WEST 28th STREET, NEW YORK
Telephone: 3559 Madison Square
CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

REVIEW OF THE MARKET

NEW YORK.—The demand for cut flowers has taken on a little livelier aspect and stock generally is moving at figures that are considered fairly satisfactory. The best grade of American Beauty roses are in good demand, as also are Richmond, Bride and Bridesmaid. There is some mildewed stock of the latter coming in, but, of course, this does not, nor never will, clear out satisfactorily in this market; for good, clean stock the prices on teas run anywhere from 2c for the Number twos up to 8c and 10c for the best grades.

Carnations are not quite so plentiful as they were and prices have stiffened materially; satisfactory clearances are the rule. Lily of the valley also is selling better than it has done for some time, and the same remark will apply to narcissus in the many varieties that are coming in. On the other hand, such flowers as orchids and gardenias, through some unexplainable reason or other, are not meeting with much demand and prices are weaker to quite an extent. Lilies are not at all plentiful; at the same time they are not bringing prices in proportion to their scarcity. Trailing arbutus has appeared and small lots can be easily disposed of. Thanks to the non-appearance of Southern lilac this year, the home-grown product is selling fairly well. It would seem that this is one of the years when the Southern lilac will be conspicuous by its absence, owing to the backwardness of the season. Violets are about over for this year; the number coming in is very insignificant.

CHICAGO.—The market here has, with slight variations, held as strong as since our last report. While with-out any appearance of a glut, roses have at all times been sufficient to fill all orders, and any scarcity that has been evident has been in white or Enchantress carnations. Lily of the valley of the best quality has grown a little stronger in price; and violets, which have been of a little better quality, are more than holding their own. Otherwise the market offers little that is new.

BOSTON.—Trade has been fairly good all the week and prices, in most cases, have been steady. American Beauty roses, which have been so scarce this season, are now quite plentiful; \$25 per 100 is the ruling price, although some extra fine long-stemmed flowers bring \$4 per dozen. Other roses are very plentiful and the quality is exceptional. Carnations are abundant and the grades of blooms are very good. Violets are yet seen in quantities, ranging in price from 50c. to 75c. Sweet peas are good and sell well at 50c. and 75c. Lilies are very plentiful with little demand, and prices have dropped to \$6 and \$8. Lily of the valley is selling better at from \$2 to \$4. Bulbous stock is still very plentiful and moves rather slowly.

INDIANAPOLIS.—Heavy frosts continue to destroy every blossom that does make its appearance. The fruit crop as well as early vegetables and flowers will be more affected than at any time in twenty years.

Counter-trade is brisker than for some time, but it is difficult to obtain a variety of select stock. The growers are hooking heavy orders for bedding stock. It being apparent that the cold snap will stimulate this end of the business. Preparations are making for a heavy rush when the season opens. Carnations are nearly all off crop, so the local retailers are forced to order elsewhere; prices for fancy varieties have advanced to \$4 a hundred. Few are retailed at less than 75c. per dozen. It is not always possible to obtain tea roses in this section and shipping orders are often refused. Select, Bride, Bridesmaid and Golden Gate bring \$8 to \$10 a hundred; Madame Abel Chateaufort and Richmond roses are par excellence, the stems often being four feet in length.

Sweet peas are always acceptable at \$1 to \$1.50 a hundred. Bunches of well grown candytuft and Ten-week stocks sell rapidly at 25c. per bunch. An abundance of green goods is available; seven foot smilax brings \$12.50 per hundred strings. A regular cut of callas and Harrisii lilies gives much satisfaction at \$10 to \$12.

The display of potted plants is still meager, but the call continues and orders are often filled with difficulty. Flats of pansies and forget-me-not find a ready market.

PHILADELPHIA.—While flowers are not exactly scarce, the market is cleaned up every day. For American Beauty roses \$4 per dozen is being obtained for the very best, while large lots are going at \$25 per 100. Tea roses are in fair supply; the best are quoted at \$12 per 100. Sweet peas are plentiful, selling at from 75c. to \$1.50 per 100, a few extra choice reaching \$2. Cornflowers are in good demand at \$1.50 per 100. Antirrhinums continue in active call at \$1.50 per dozen; a few extra choice go at \$2. Gardenias are selling at \$1.50 per dozen with better prices for the retailer when a large lot is wanted.

Carnations are rather scarce; all growers appear to be off crop at once. Yet with the scarcity some extra choice flowers are coming in; some of these sold at \$5 and \$6 per 100 on Monday. Lower grade stock has stiffened in price, being up to \$3 and \$4 per 100 this week. Common grades have been scarce in this market, and some of our dealers ordered from the South; much of this stock was worthless on arrival here, too many being packed in one package, which caused heating.

DAVID RUST.

ST. LOUIS.—Business is more lively among the retailers in work of all kinds. A few Spring weddings kept most of the downtown florists busy with decorations. The downtown florists had to take in their cheap cut flower signs the past week owing to the scarcity of stock in all grades, and had to buy flowers at all the four wholesale houses to fill their orders, which only a few weeks ago one house could have filled without much trouble. The weather is beginning to look more Spring-like, which gives many the push to the plantmen who are ready for planting out with plenty of orders ahead to keep them busy all through the month of May.

In looking through the wholesale houses this Monday morning we find very little stock coming in, with plenty of buyers to snap up almost anything in sight at any price. Roses have gone as high as \$10 per 100 for extra fancy, long, and \$5 and \$8 for next choice, with \$3 and \$4 for short grades. Long-stemmed American Beauty have been more plentiful of late, selling as low as \$3 per dozen, with medium and shorts not so abundant.

In carnations a scarcity was noted all of the past week and up to to-day (Monday, April 22). The demand is active and none are left over, at from \$3 to \$4 per 100, with a few extra fancy at \$5. The great call is for white, pink and Enchantress.

Bulbous stock is almost cleaned out; a few tulips are still coming in. Fine lily of the valley is obtainable at \$3 to \$4 per 100 for fancy. Sweet peas are very scarce at \$1 per 100 for the best. Callas and Harrisii lilies are becoming scarce. Asparagus plumosus sells well also. A Sprengerii Smilax, too, has a good call. Fancy ferns are very poor at \$3 per 100.

ST. PATRICK.

COLUMBUS, OHIO.—We are having a more settled and a steady market than since before Easter. The unseasonably cold weather has no doubt retarded trade, still it has been a great blessing to have the enormous quantities of stock that the intense heat was forcing upon us reduced to something like the demands of our market. Business continues very good indeed; quite a few weddings, several important social functions, and an unusually large number of funeral orders, have given good commissions to all. Those members of the craft who keep their places of business open on Sundays, are watching with a vital interest the effect upon their trade that the closing of our Protestant cemetery to Sunday funerals will have; as the Board of Trustees of Green Lawn cemetery have voted that on and after the first Sunday in May next, and until further notice, no interments will be permitted on Sundays, except the burial of such persons as may have died from contagious diseases, and which under the rules and regulations of the Board of Health require immediate interment. It will, of course be impossible to say for some time, how such a radical change as going away with Sunday funerals will affect trade, but every one's first thought is, that it will reduce the orders for funeral flowers. While several cities in this country have lately adopted the foregoing plan,

still such a breaking away from old-established and honored customs will need time to adjust itself.

Since the cooler weather arrived prices have become more uniform, and in a few cases quite a little higher, especially for carnations and violets. The former bring 50c. to 75c. a dozen, with a few very choice Enchantress at \$1. As regards violets there has been a good demand at \$1.50 a hundred, in any size bunch the customer wishes. Roses are bringing better rates, and it begins to look as if in future the superior Richmond would divide honors with American Beauty, the former being in such good demand. American Beauty are at \$3 to \$7; Richmond, \$2 to \$2.50; other roses \$1.50 to \$2 a dozen.

F. W.

MINNEAPOLIS.—Business with all the past week has been very good; while prices have not remained firm, all of the trade have done very well. The Greeks and the department stores have taken advantage of the present condition and have offered stock at any old figure. Roses on Saturday sold at 50c per dozen, and about every florist had a hand in it. The larger growers peddled fine long stemmed roses of the different varieties at \$2 per 100. Carnations also fell in line; while the sunnily among the growers here is small, large consignments were received from the East and were offered at 25c. and 35c per dozen. Funeral work has been exceptionally good, the demand apparently coming from outside towns, so that all inferior stock has been moved to good advantage.

Orders for plants for bedding purposes are few, undoubtedly due to the backward season. Inquiries for Memorial Day stock are being received daily, and the majority of the trade anticipate a brisk demand and from present appearances a heavy supply.

PAUL.

WASHINGTON.—We are still (April 20) in the grasp of Jack Frost, and all outside vegetation is at a standstill. Some fruit has been killed along the lower lands, but on the high ground only slight damage has resulted. Snipeas and a few hardy annuals are in blossom, and sell at fair prices. The bright sunshine and cold weather have improved the indoor crops in both quality and quantity over conditions prevailing a week ago. Good roses are coming in and bringing about 8c, and while carnations are less abundant than usual at this season, they bring from 2c to 4c, and are, as a rule, of good quality. Asparagus is scarce and short, as the crop has been cut pretty close all winter in order to supply the increasing demand. Violets are becoming scarcer every day, as their blooming period is about over. Sweet peas of good quality are more abundant and move at satisfactory prices.

The death roll continues among the more prominent people of Washington, thus creating a demand for much funeral work of the higher and more remunerative class.

J. L. C.

CHANGES IN BUSINESS.

VRDUN, QUEBEC, CAN.—William Hinton has sold his greenhouse and property to A. E. Pagels.

SPRINGVILLE, N. Y.—M. L. Hampton & Company have rented the Robertson property south of this village and will build a greenhouse, making carnations a specialty.

WATERVILLE, ME.—The florist's establishment, which has been carried on by Percy Loder on Common street, next door to the vestoffice, since shortly before Easter, has been closed and the furnishing removed to Clinton.

MUSKOGON, MICH.—Silas Butterworth, manager of the Glenwood hotel at Lake Harbor, became the owner of the entire city block adjacent to and south of Hackley hospital. Butterworth will at once build on the land nine 150-foot greenhouses. The plant will be carried on under the latest and most approved system and besides the usual greenhouse flowers, table delicacies for the local market will be grown.

LAURITUM, MICH.—Dale Brothers will build greenhouses and engage in the florist business here. The work will commence on the buildings as soon as the snow is off the ground, and it is quite likely that they will be ready for business before next Fall. Both the brothers are experienced florists. James H. Dale is now in the employ of A. M. York, Hancock; he was at one time employed with Tutay of the Calumet greenhouses. Walter Dale recently came to this country and has a reputation as a florist of great ability.

Washington, D. C.

Within the walls of the edifice which he had built and consecrated, funeral services for Teunis S. Hamlin, late pastor of The Church of the Covenant at Washington, were held on Sunday, April 21. The floral tributes were of the most elegant and elaborate character. A number of the offerings were arranged in front of the pulpit, while two especially elegant pieces, consisting of orchids and lilies, gave height at either end of the platform. Palms, ferns, and lilies hid the choir from view. The casket was a mass of violets. J. H. Small & Sons had the decorative work, while many of the elegant designs sent by members of the congregation, were supplied by various other members of the trade.

JAS. L. CARBERY.

Philadelphia.

Trade Notes.

Many of the retail stores have been busy on wedding decorations. Hydrangea otaksa, which could not be got in for Easter, has come in very nicely for this work. Pennock Brothers had several nice wedding orders, some being out of town. The Habermehls had a busy week—a large banquet at Horticultural Hall on Monday, two large weddings on Wednesday, and a banquet of 100 covers at the Bellevue-Stratford on Wednesday. This was to be at a round table, occupying the entire hall room, the center to have a sunken garden decoration effect.

C. P. Bernard, North Brook, Chester County, Pa., has given Lord & Burnham Company an order for material for a house 33x160 feet of semi-iron construction, with concrete walls. This is one of the places that years ago used to produce extra choice Buttercup and Eldorado carnations.

Wm. J. Moore has given up the commission business, having closed up his part of the building in the Flower Market last week.

On Friday last we had the second game of ten pins in the tri-city match between Baltimore, Washington and Philadelphia; the teams finished in the order given. In the two games played, Washington now leads by 17 pins, Philadelphia being 200 pins behind the leader. The next match will be played in Baltimore.

DAVID RUST.

Hazleton, Pa.

In the person of George E. Seidel the florists of this town have an addition to their ranks. Mr. Seidel has opened a flower store on Broad street where he handles a general line of cut flowers, and does considerable work in the decorative line.

E. Howard Smith has recently moved to a handsome store on West Broad street. The store is well lighted and spacious and gives Mr. Smith a good opportunity to display his stock to the best advantage. He will continue to run both stores for the present—the old one and the new. Last Fall Mr. Smith had to remove his greenhouses that were upon leased land required for other purposes. He intends to build a few good greenhouses the coming Summer, on some property he has recently acquired in the suburbs, as well as a nice show house for decorative stock in the rear of his new store on Broad street.

Conrad Ackerman is also identified with the florist trade of Hazleton. When only 9 years of age he lost his eyesight in a railroad accident. He is quite a young man of more than ordinary intelligence and can converse freely about all classes of plants and flowers with a familiarity that is surprising. Considering the fact that his eyes are forever closed to all that is beautiful in art as well as nature, it is most interesting to hear him talk of the colors and varieties of the different plants he handles. He can tell by a simple touch of the hand the name of any plant, bulb or tuber he has in stock.

A. D. Montgomery is at present the only florist in this place that has any greenhouses. He grows a general line of bedding plants for the local market.

J. M.

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Wholesale Commission Dealer in **Cut Flowers**
106 West 28th St., NEW YORK
Open at 8 a. m. every day
Telephone, 167 Madison Square.
Consignments Solicited

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ORCHIDS AT ALL SEASONS
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30 West 29th Street
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Violets, Roses, Carnations, Orchids
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Consignments of first class stock solicited.
Prompt returns.
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Receiver and Shipper of all varieties of Cut Flowers
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Wholesale Prices of Cut Flowers, New York, April 24, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	12.00 to 25.00	Inf'r grades, all colors.....	1.00 to 1.50
	extra	5.00 to 10.00	White	2.00 to 3.00
	No. 1	6.00 to 8.00	Pink	2.00 to 3.00
	No. 2	4.00 to 6.00	Red	2.00 to 3.00
	No. 3	1.00 to 3.00	Yel. & Var.	2.00 to 3.00
	Bride, Maid fancy-special.....	6.00 to 8.00	*FRANCO-	3.00 to 4.00
	extra	4.00 to 5.00	the highest grades of	3.00 to 4.00
	No. 1	2.00 to 3.00	standard var	3.00 to 4.00
	No. 2	1.50 to 2.00	NOVELTIES	3.00 to 4.00
	Golden Gate	2.00 to 10.00	FREESIAs, per doz. bunches	6.00 to 8.00
	RICHMOND	2.00 to 15.00	GARDENIAS, per doz.	.75 to 1.00
	Mme. Abel Chateaub.	2.00 to 3.00	LILAC, per bunch.	1.50 to 2.00
	ADANTUM	.50 to 1.00	LILIES	.50 to 1.00
	CROWNEANUM	1.00 to 1.50	LILY OF THE VALLEY	5.00 to 6.00
	ASPARAGUS	25.00 to 50.00	MIGNONETTE	1.50 to 3.00
	Plumosus, bunches.....	15.00 to 25.00	NARCISSUS, White	1.00 to 4.00
	Sprengerl, bunches.....	15.00 to 25.00	Yellow	2.00 to 3.00
	CALLIAS	3.00 to 10.00	ROMAN HYACINTHS	12.00 to 15.00
	CATTLEYS	40.00 to 60.00	SMILAX	50 to 1.00
	CYPRIPEDIUMS	12.00 to 15.00	SWEET PEAS, per doz. bunches	.50 to 1.00
	DAISIES	1.00 to 3.00	TULIPS	2.00 to 3.00
			VIOLETS	.50 to .75

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Lilies, Lily of the Valley, Carnations
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Consignments of Choice Flowers solicited

Detroit, Mich.
News Notes.
The Detroit Florists' Club will have charge of a lecture to be given in Harmonie Hall by the Dayton Cash Register people, who have very kindly consented to send their agent here to deliver his lecture on outdoor planting, which will be beautifully illustrated, as those who were present at the S. A. F. convention know. This social function will in all probability take place May 1, 1907.

In spite of the cold snap Superintendent Diger has been doing some preliminary planting at Belle Isle Park.
The market here has been kept remarkably clean thus far this Spring. Carnations are snapped up at once; roses are also scarce; lily of the valley sells readily at three and four cents. If bad weather continues, and funerals also come in large numbers, the flower merchants here will be unable to supply their wants. HARRY.

Minneapolis.
News Notes.
Amundson & Kirschner advertised roses at 50c. per dozen and they disposed of a large number.

Ralph Latham, Tenth street, is branching out considerably; he contemplates operating a number of stores in the city. He practically takes the output of the Carlson & Sondberg greenhouses, and the stock has been exceptionally fine, so far.

Will & Son's roses are in full crop and their large plant is now supplying the most of the trade.

Donaldson's department store has cut into the trade materially the past week. Stock has been offered at close prices, much to the disadvantage of the regular florists. PAUL.

S. S. PENNOCK-MEEHAN Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA,

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W. E. McKISSICK, Wholesale and Commission Florist 1221 FILBERT ST., PHILA., PA Business hours: 7 A. M. to 8 P. M

Wholesale Prices of Cut Flowers—Per 100

Rochester, N. Y. A Record Cold Spell.

Table with columns for Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburg, St. Louis and rows for various flower varieties like Beauty, Bride, Golden Gate, etc.

Up to date, according to the local weather bureau report, the cold spell has broken the previous lowest record for the month of April, 1874, at which time the average was 36 degrees, the average for the present month being 34 degrees. Such conditions have had their effect on the coal bins of florists here, many of whom have had to store in more coal to carry them through. The supply of cut flowers has not been overdone, the general line of stock clearing out at fair figures—roses, \$4 to \$8; carnations, \$2 to \$3 per 100. Violets, which are much more desirable now on account of cooler weather than before Easter, are disposed of to better advantage at from 35c. to 65c. per 100. The supply of bulbous stock is on the wane, and a little difficulty is experienced in securing first class flowers. Outdoor bulbous stock is real late, and some anxiety is felt for it on account of rapid growth made in March, and the heavy frost it has been subjected to since. Strike in a Nursery. The early start secured this Spring for the shipment of nursery orders received a set-back at the Ellinger & Barry nurseries, the entire force of laborers going "on strike" and demanding an increase in pay. Their demands were finally compromised, and all returned to work at an increase of 25c. per day. News Notes. Among the unique window dressings seen here might be mentioned a display, used as a lawn grass advertisement, by Salter Brothers. It represented a house and lawn, flower beds, walks, windmill, etc., and was certainly a great drawing card, especially the family wash hanging on the clothes line. Somebody with a freak idea wrote an editorial in a local newspaper, concerning the formation of a society for the prevention of cruelty to azaleas, lilies and other plants. Needless to say, nothing more has been heard of it, and perhaps 'twas only a lamentation of some tender-hearted lover of Nature who gazed on the dry and neglected plants in the stores during Spring openings COCKNEY.

BOSTON, MASS. Asparagus Plumosus Mignonette Lil. Harrissil Brides, 'Maids American Beauties Can furnish at short notice, Price according to quality of goods. Long Distance Telephone 6267 and 6268

EDWARD REID Wholesale Florist 1526 Ranstead Street, PHILADELPHIA Bet. Market and Chestnut Streets Choicest Stock Always on Hand Telephone: 1-42-36-A.

PHILADELPHIA CUT FLOWER CO. Wholesale Florists 1516-18 SANSON STREET High Grade Cut Flowers Open Evenings until 8.

Headquarters in WESTERN NEW YORK For Roses, Carnations And all kinds of Seasonable Flowers. WM. F. KASTING Wholesale Commission Florist Also dealer in Florists' Supplies and Wire Designs 383-87 Ellicott St. BUFFALO, N. Y. Give us a trial. We can please you.



CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS. FOR IMMEDIATE OR LATER DELIVERY
White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00.

E. F. WINTERSON & CO. Wholesale Cut-flowers and Florists' Supplies
45-47-49 Wabash Ave., Chicago, Ill.

CHAS. W. MCKELLAR

Orchids
FANCY VALLEY, ROSES, CARNATIONS, and all CUT FLOWERS and GREENS
51 Wabash Ave., Chicago

VAUGHAN & SPERRY

Wholesale Florists
Valley, Carnations and Roses
58-60 WABASH AVE., CHICAGO.

Be your own Commission Man
THE FLOWER GROWERS' MARKET
furnishes the facilities
See PERCY JONES, Mgr.
60 Wabash Ave., CHICAGO.

GEO. REINBERG
Wholesale Grower of Cut Flowers
CHOICE AMERICAN BEAUTY ROSES
We will take care of your orders at reasonable prices. Prompt attention.
35 Randolph Street, CHICAGO, ILL.

J.A. BUDLONG
37-39 Randolph Street, CHICAGO.
WHOLESALE CUT FLOWERS
Roses and Carnations A Specialty...

Wholesale Prices of Cut Flowers, Chicago, April 23d, 1907
Prices quoted are by the hundred unless otherwise noted

Table with columns for ROSES American Beauty and CARNATIONS. Lists various flower types and prices per hundred.

THE BUSIEST HOUSE IN CHICAGO
J. B. DEAMUD CO.
Wholesale Cut Flowers
51 Wabash Av., CHICAGO
Consignments Solicited

WIETOR BROS.
WHOLESALE GROWERS OF CUT FLOWERS
All telegraph and telephone orders given prompt attention.
51 Wabash Ave., CHICAGO

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

Chicago Rose Co. Rose Growers and Commission Handlers of Cut Flowers
FLOEBISTS' SUPPLIES
Wire Work our Specialty.
56-58 Wabash Avenue, CHICAGO.

Zech & Mann
Wholesale Growers and Shippers of CUT FLOWERS
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Room 218. L D Phone 324 Central.

PETER REINBERG
Wholesale Cut Flowers
51 Wabash Ave., CHICAGO, ILL.
Headquarters for American Beauty Rose

SINNER BROS.
WHOLESALE CUT FLOWERS
60 Wabash Ave., Chicago.
Careful attention to all SHIPPING ORDERS.

A. L. RANDALL CO.
Western Headquarters for Up-to-Date Florists' Supplies
Write for Catalogue
No. 19 RANDOLPH ST., - CHICAGO.

Poehlmann Bros. Co.
Wholesale Growers of and Dealers in Cut Flowers.
All telegraph and telephone orders given prompt attention.
Greenhouses: 35-37 Randolph St., MORTON GROVE, ILL. CHICAGO.

ST. PAUL, MINN.
Send us your Orders for delivery in the Northwest, which will have our best attention.
L. L. MAY & CO., Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.
WHOLESALE FLORISTS and FLORISTS' SUPPLIES
Manufacturers of WIRE DESIGNS
457 Milwaukee St., MILWAUKEE, WIS.
Phone, Main 674. P. O. Box 103

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES
C. C. Pollworth Co.
MILWAUKEE, WIS.

Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

Chicago. The Week's News.

Charles A. Johnson, formerly the Limits Florist, was calling on his old friends and associates here last week.
George C. Harbison, for many years foreman at William H. Elliott's Brighton, Mass. establishment accompanied by George Elliott, was a recent visitor.
Kruchten & Johnson have dissolved partnership and the commission business will be carried on by the first named, Mr. Johnson retiring.
At the north side of the city, considerable repairing and rebuilding are going on; much more in this line, in fact, than of new construction.
It is evident that Mayor Busse intends to carry out his pre-election promises by endeavoring to make Chicago, "The Garden City," or "The City Beautiful," and undoubtedly he will gladly avail himself of the kindly aid of the committee recently appointed by the Florists' Club to assist him should he so desire.
Some very handsome long-stemmed American Beauty roses were sent from the Atlas Building to President Comiskey on the opening of the White Sox season last week.
The family of William H. Kidwell has the sympathy of their many friends owing to the loss of a member, Wm. Louis Kidwell, early last week shortly after his return from New Mexico where he had been for his health. He was eighteen years of age and his illness and death are directly traceable to a football accident. The funeral was attended by a delegation of wholesale and retail florists.
The Winter's Seed Store catalogue, which has just been published, is a neat little affair embellished by a good reproduction of the American Beauty rose.
Among our recent visitors were George F. Crabb, of Crabb & Hunter, Grand

Rapids, Mich., Gust Frederickson, Glen Lord, Mich., and E. Calvert, of Calvert & Son, Lake Forest, Ill., who dropped in on his way back from the Pacific Coast.

C. M. Dickinson was busy the latter part of last and the first of this week moving to Park Ridge.

O. W. Freese, who is still on jury duty, reports, gets off, and goes back each time with a different view of the present jury system.

J. G. Crozier, Cedar Rapids, Ia., was in town the first of the week.

At the Flower Growers' market at 60 Wabash avenue all the stallholders, some ten in number, most of whom are growers as well as agents, have enjoyed the recent success in trade. W. K. W.

Cincinnati, O. The Weather and Trade.

The cold, Fall weather is with us this Spring. The small bit of Summer that paid us a visit just before Easter, certainly played a very unkind April fool trick upon the lilac and other outdoor flowers and shrubs. To-day, April 22, the poor blooms of the lilac droop their heads, and their usually beautiful color is now black. The leaves on the trees had commenced to burst forth, only to be arrested by Jack Frost and severely punished. What shall we have when Memorial Day arrives, to offer for that occasion? Time and weather only can tell.

A Baseball Decoration.

During the first week in April some of the baseball magnates were visiting our city, and President Hermann of the National League concluded it the nice thing to do to give them a big banquet. So the new Hotel Sinton banquet hall was engaged, and Hardesty & Co. decorated the tables and hall. The tables were so arranged and decorated as to represent a baseball diamond. The pitcher's box was made of American Beauty roses, the greens of ferns, using about six thousand. Outside the tables was the high board fence enclosing the diamond, upon which was the usual display advertising. Trees planted in tubs were distributed here and there, and there was a turnstile, with a ticket office. Each guest was required to go to the box office and get his ticket, which by the way was numbered 23. He then passed through the turnstile to his seat at the table. The idea and decoration were quite unique, and Hardesty & Company received several hundred dollars for the job.

Business is quite good, stock is scarce and everything arriving is sold; better prices are paid, and less grumbling is heard. It has always been my experience that when stock is scarce business is much more satisfactory to grower and wholesaler, and I think, the retailer might be included also.

C. J. Ohmer leaves on the 30th inst. for Los Angeles, San Diego, San Francisco, Cal., the Grand Canyon and Yellowstone Park—about a six weeks' trip.

Frank Huntsman is getting to be quite a seedling carnation enthusiast, and has a strain of scarlets that some of our specialists might be proud of.

Extensive plans are now drawn for the extension and beautifying of our parks which, if carried out, will make the Queen City of the West more attractive than any of her sisters. But it will cost millions to do the work, and several years must elapse before it can be completed. E. G. GILLET.

DAVENPORT, IA.—The annual installation of officers of the Tri-City Florists' Association was held Thursday evening, April 11, at Fejervary park, and one of the most successful and enjoyable meetings of the year was held. It was Ladies' Night and a large number were present. John T. Temple, retiring president of the association, was the installing officer. After the new officers took their places, Mr. Temple gave an address and William Knees of Moline, president, responded. Five minute talks were given by the other new officers. The discussion during the evening was on "The Most Profitable Plants for the Spring Trade." Following this a banquet was held. The next meeting will be with Henry Meyer of Rock Island on May 9. The topic for discussion will be "Peony Culture."

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Fancy & Dagger Ferns.
Fine Quality \$2.00 per 1000.

New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000, \$7.50 per case of 10,000.

Southern Wild Smilax \$3.50 and \$7.00 per case.

Laurel Festooning, 800d

and full, 5c. and 6c. per yrd.

Branch Laurel, 50c. per bundle.

Leucothoe Sprays, \$1.00 per 100.

Sphagnum Moss, 50c. per bag; five bags \$2.00.

Green Moss, \$1.00 per bbl



FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes cut flower boxes, immortelles, Cyssus leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.

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BOSTON, MASS.

TEL. MAIN 2617-2618

Fancy or Dagger Ferns



Dagger Ferns, \$1.50 per 1000

Fancy Ferns, \$1.75 per 1000

Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.

Boxwood, No. 1 Stock, 50 lb. cases, \$8.50

Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality

Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted

Southern Smilax, fancy stock, 50 lb. cases \$5.50

Laurel Branches, 35c. per bundle

Telegraph Office: New Salem, Mass.

Long distance telephone connections

CROWL FERN CO., MILLINGTON, MASS.

The Headquarters for All Florists' Supplies

IS IN

BROOKLYN at 76 COURT ST.

We carry a full line of staple goods, as well as an abundance of

NOVELTIES

In fact we have every requisite used by the retail florist.

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WITTBOLD'S

Combination Vase

and Plant Stand

Has been used for the past 15 years and has proved itself an invaluable asset to the decorator.

Price \$18.00 per dozen

The Geo. Wittbold Co.

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CHICAGO

Prices Advertised in these Columns are for

EXTRA FINE FANCY AND DAGGER FERNS

\$2.50 per 1000. Discount on large orders. Leucothoe Sprays, \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE

Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season.
38 & 40 Broadway. Formerly DETROIT, MICH.
Miami Ave. Send for our weekly price list on Cut Flowers.

REED & KELLER 122 W. 25th STREET NEW YORK

Importers and manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Farlor Brand Smilax.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, BERLIN, N. Y.

Samples free. For sale by dealers.

Baltimore, Md.

Trade Notes.

Trade has been active during the past week. Roses are plentiful, but good carnations are becoming scarcer every day. The weather is still rather cool; both ornamental and flowering trees and shrubs have been nipped in the bud over and over again, but they are nevertheless advancing slightly and with desperation. The hulk and pansy displays in our public parks and squares promise to be fairly good. A large amount of outdoor work, especially in the planting of flowering ornamental trees and shrubs, is being done both by the Park Department and private places; this work is being favored by a backward Spring.

A Bowling Match.

The following members of the local Florists' Club visited Philadelphia in company with the Washington team: M. Richmond, Jas Boone, Wm. Kramer, J. J. Perry, C. L. Seybold, O. Guerth and F. G. Burger; only the afternoon and evening of Friday, April 19, was spent, but it goes without saying that the fourteen Baltimore and Washington florists enjoyed themselves immensely. Deacon Harris and Commodore Westcott together with Captain H. Graham, David Rust and the Philadelphia bowling team took charge of the visitors. An afternoon match was played on the Horticultural Hall alleys; two games between the Deacon's and the Commodore's each winning a game. At night the regular match between Philadelphia, Washington and Baltimore was held on the Casino alleys, for the Baltimore silver loving cup, this being the second series of games; the first was held in Washington a month ago. This time Baltimore was victorious, the totals being 2601 pins to Washington's 2539 and Philadelphia's 2418.

The total scores for the whole six five man games are as follows:

Washington	Baltimore	Philadelphia
757	745	767
840	800	798
854	828	797
852	815	760
880	841	834
807	945	824
4990	4974	4780

The total in nine games will decide the permanent ownership of the cup, and it has been decided to roll the remaining three games in Baltimore on Friday, May 3 next. It will be seen that Washington is but 16 pins ahead of Baltimore.
C. L. SEYBOLD.

DENISON, TEXAS.—Arrangements are well under way for the annual flower show, to be held November 7, 8 and 9, under the auspices of the Denison Civic Improvement League. Our people were greatly enthused by the splendid success of last year's event and anticipate an even greater success this year. A very vigorous campaign is being conducted in the public schools, which furnished some very fine exhibits last year. More than five thousand packets of seed have been distributed among the school children and a liberal list of prizes has been offered for best results obtained.
T. W. LARKIN, Secretary.

Columbus, O.

A Cold April.

For ten days before Easter, with the heat persistently registering 80 degrees and over, the whole craft here were a unit in predicting an intensely busy but short season in every horticultural line. The most radical reverse of this has been the fact. Since April came in we have had very cold, and one may truly say wintry weather; snow flurries almost daily, and a temperature running between 25 and 50 degrees. Our nurserymen, from utter discouragement, will have one of the longest planting seasons in years—as the ground has been in fine condition for hardy stock, for almost two months. The seedsmen also are having a good steady run of orders, and these are the conditions that make for a great total when the final accounting comes.

News Notes.

For many years the Fifth Avenue Floral Company have been doing an ever increasing business; which now makes necessary an enlargement of their plant. They will erect, on recently acquired property on Seventh avenue, two large houses, each 27x400 feet. Their present fine establishment on Fifth avenue will also be much improved. At a recent meeting of the stockholders, C. K. Seibert was elected president, G. H. Woodrow, secretary and treasurer, and I. D. Seibert, general manager.

E. F. Jones is opening the season for bedded plants at his stand on the Central Market. He always has a large stock of geraniums in all the best varieties; prices are as last season.

C. V. Heikes & Company of Troy, O., secured the contract and have finished the planting of the grounds about the William McKinley Memorial in the State Capitol inclosure. Besides a California privet hedge many shrubs have been used, including spiraea, hydrangeas, weigelas, snowfalls, and other hardy and suitable subjects.

The Board of Education at its last meeting, voted to purchase thirty-eight sets of garden tools, consisting of spade, rake and hoe, so that the children might be equipped for their school garden work.

The extensive grounds of the United States Army reservation here, are becoming more and more a pleasure park for visitors; especially since they have been so greatly imported by judicious planting. The fine concerts, several times a week, are well attended.

The City Federation of Women's Clubs are doing much for the civic improvement work here. Amongst other plans, they will distribute to the school children some six or more thousand packets of flower seeds, which the Columbus Florists' Club have prepared for them.

Goodale Park begins to take on a Spring appearance; the display of hyacinths, tulips, and narcissus has been particularly fine this season. Superintendent M. S. Hains has done well with the small appropriation allowed by the city.

R. A. Currie, the vice-president of the Columbus Florists' Club, made a flying trip into Kentucky on personal business last week.

By a natural gas explosion in the residence of C. S. Davis; the Rev. J. J. Blackshear was burned to death, and Alonzo Davis the son very badly injured. Mr. Davis has for years had charge of the greenhouses at the Institution for the Blind.
F. W.

NEW HAVEN, CONN.—Charles Munro has purchased a building lot fronting 60 feet on Chapel street, and will improve the property.

When Writing Please Mention **THE TRADE ONLY—THE FLORISTS' EXCHANGE.**

A New Giblin Boiler.

We present herewith illustrations of a new steam and hot water sectional boiler, manufactured by Giblin & Company, Utica, N. Y., regarding which the firm furnishes the following information:

"To supply the demand for boilers of larger capacity than provided in our

every respect all that we anticipated, and that they stand in the lead, in points of merit and actual results, over any other make now on the market.

"The generally accepted correct grate and heating surface proportions for boilers as advocated by the highest authorities on boilers have been embodied in 400 Series. In this feature these boilers stand practically alone among cast-iron sectional boilers as per-

made in one piece, giving rigidity to the boiler when erected and doing away with the necessity of making water connections to the front and back sections. Both the front and back sections on the inside are recessed so as to enlarge the grate surface and fire chamber, and on the sides exposed to the fire are corrugated. The front and back sections extend fully to the top in the middle, and the ends of the header are connected into the sections horizontally front and rear, by nipples, instead of by side connections as in the other form. The front doors are bolted directly to the front casting instead of having a shell or uncored front. The draft door is provided in the ash door, instead of having a lift door on the side of the ash pit. The intermediate sections are in half sections as in our other boiler, but because of the greater width of the section more flues are provided and the heat more evenly and thoroughly distributed.

"Cleanout doors are provided both front and rear in such numbers that when open the entire flue surface is exposed both front and rear and every part is accessible for cleaning. Separate cleanout doors are provided for the top and bottom front side flues, and being fitted directly to the castings, are absolutely air and gas tight. The grate bars are of slightly different pattern, but the change has resulted in greater strength and crushing power of the teeth, and less liability to warp and wear out. The air spaces in the grate are properly proportioned for the admission of the proper amount of air to insure thorough and perfect combustion of the fuel. The header is unusually large, thereby giving a large steam chamber and allowing in the hot water boilers large tappings for special work. The tappings in this boiler are nicely proportioned; the side tappings are so devised that the circulation in the return sections is not only upward in the section itself, but outward at the bottom at the sides in the two adjoining sections, thereby more evenly distributing the returning water. The smoke pipe opening is extremely large and made oval in size, so that it can be adapted to almost any size smoke pipe required.

"With the exception of the features enumerated above, and the increased size, our 400 Series standard sectional boiler is substantially the same in construction and operation as our regular standard sectional boiler. It is a boiler well adapted for doing heavy work for both steam and hot water heating."



Hanging Baskets

State quality wanted and I will be pleased to quote prices.

WM. E. HIELSCHER
WIRE WORKS
38 MIAMI AVE. DETROIT, MICH

....Send for Particulars....
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Tobakine Products

"THEY KILL BUGS"

"Flowers and Profits"

is a profitable and interesting booklet.

E. H. HUNT, General Agent
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Pulverized Sheep Manure

By Bag, Ton, or Car Load Lots.

GEORGE RIPPERGER,
LONG ISLAND CITY N. Y.

IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASL.

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to collect an account is to place it with the
National Florists' Board of Trade
56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.



SOUTHERN WILD SMILAX
BEAVEN'S FADELESS MOSS
NATURAL SHEET MOSS
E. A. BEAVEN, Evergreen, Ala.

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20		
1500 2 3/4 " " " 5.26	60 8 " " " 4.00		
1500 3 " " " 6.00			
1000 3 1/2 " " " 6.50	48 9 in. pots in crate, \$8.60		
800 4 " " " 6.50			
500 4 " " " 4.50	24 11 " " " 8.00		
250 5 " " " 4.50	24 12 " " " 8.50		
144 5 " " " 8.16	12 14 " " " 4.80		
	6 16 " " " 4.50		

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts., 81 Barclay St., N. Y. City



THE BEST
Bug Killer and
Bloom Saver

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Write to

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Sheep Manure

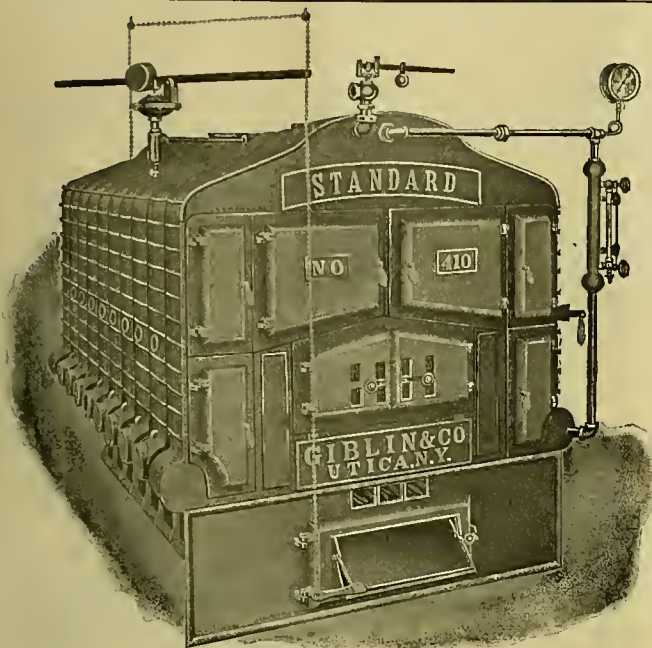
Pulverized, Free from all Adulteration.

In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.

The American Carnation Price \$3.50
A.T. De La Mare Ptg. & Pub. Co., 2 Duane St., New York

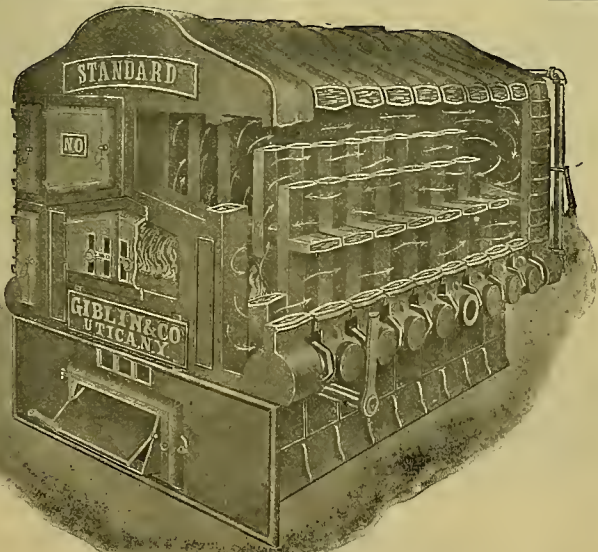
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THE FLORISTS' EXCHANGE.



The New Giblin Boiler

regular Standard Sectional Series, we have made a new line, which we call the 400 Series, for the use of both steam and hot water. This series was designed especially for heavy duty service where large quantities of heat with minimum cost for fuel are demanded. "The regular Standard Sectional Series, after several years test, proved to be a thorough success for work it was designed to do, and having received many flattering testimonials from customers regarding these boilers after tests of years, we decided to construct the 400 Series boilers on the same gen-

erally proportioned boilers. The general run of sectional boilers have less heating surface than called for by rules recognized by heating engineers as correct. The 400 Series boilers contain a large amount of overhanging heating surfaces within the fire box, directly over the fire, in addition to the large amount of plain and corrugated surfaces forming the walls of same. The eight long direct flues over the fire box add immensely to the direct heating surfaces mentioned above. Four indirect flues (two on each side of boiler) add materially to the other boiler surfaces, and



The New Giblin Boiler

eral principles and add several other features to insure greater power, economy and durability, for the class of work designed to be performed. "The 400 Series boilers have been subjected to hard tests in different kinds of heavy work, and from results obtained we know that they are in with the reversible down draft feature

in the last mentioned flues added to the draft travel in the direct flues, the heated gases travel three times the full length of the boiler, and produce results in transmission of heat and economy of fuel that cannot be secured in boilers that do not contain the above mentioned features. "The front and back sections are

Prices Advertised in these Columns are for

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OF COURSE YOU KNOW GREENHOUSE BUILDING



but there's a lot we know about it, that you don't. Don't know because your business is growing flowers—our's, building greenhouses. For just this reason, when you get ready to build, the best thing you can do is, write us or call at our Sales Offices; then we can go over the matter with you thoroughly and advise what our experience has proven to be best. We want to take up with you not alone the matter of right construction, but also that important question of economy of arrangement and planning for your houses' future additions. Write today—or call any day.

HITCHINGS and COMPANY

GREENHOUSE DESIGNERS AND BUILDERS. Manufacturers of Heating and Ventilating Apparatus
1170 Broadway, New York

ALL NURSERYMEN, SEED and FLORISTS

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EDITORS OF THE "H. A." Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION



THE AMERICAN CARNATION

Price \$3.50. Send for Sample Pages

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GREENHOUSE GLASS ALL SIZES

16x24 A. & B. Double a Specialty
C. S. WEBER & Co.,
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WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses Greenhouse Heating and Ventilating Apparatus
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trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charge both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipe. Send for Free catalogue "Kay" boilers, Ventilating apparatus, Tools, Valves and Fittings

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STANDARD Pumping Engines
Embody all the most advanced ideas in practical engine and pump construction.
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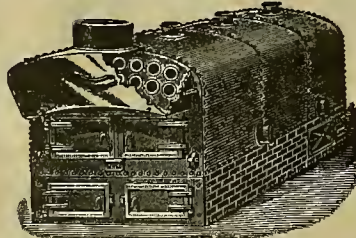
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We are a straight shoot and aim to grow into a vigorous plant

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

Vol. XXIII. No. 18

NEW YORK AND CHICAGO, MAY 4, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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Richmond, Wellesley, Liberty, Bride, Bridesmaid, Bon Silene, Safrano and Mrs. Oliver Ames.

Splendid stock of ASPARAGUS PLUMOSUS NANUS SEEDLINGS, Seeds saved from my own plants.

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1st size 4-6 inch.....	100	1000	5000
Medium 3-4 inch.....	\$1.00	\$9.50	
	.50	3.50	15.00

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Pink, White, Yellow, Red. \$1.25 per doz., \$8.00 per 100.

Madeira Vines, \$1.00 per 100; \$8.50 per 1000.

Gladiolus

	Per 100	1000
MRS. FRANCIS KING.....	\$4.50	\$40.00
Augusta, finest light color.....	2.50	20.00
Brenchleyensis.....	1.35	11.50
Ceres, fine pink.....	1.40	12.00
Isaac Buchanan.....	4.00	35.00
May, white, pink flaked.....	1.75	14.00

Vaughan's XXX Florists' Mixture, made from named light and white kinds..... 1.75 15.00

	Per 100	1000
Good Mixed	\$.85	\$7.00
Fine Mixed, all colors.....	1.25	10.00
Childsii, fine mixed.....	2.00	18.00

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Sound Bulbs, Live Center Shoots

Special Surplus Offer F. O. B. New York

9 to 12 inches in circumference.....	\$4.00
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10 in Bowl	\$1.10	Doz.	\$11.00
12 " "	1.25	"	13.00
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FROM COLD STORAGE

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Berlin Pips Al Quality	\$1 75	\$13 00	\$28 00
Dresden Pips (The acme of perfection)	2 00	16 00	34 00
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best possible grade, in cases of 1000 and 3000 pips each, at \$12.00 per 1000.

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25 Varieties, \$17.00, \$19.00, \$22.00 and \$24.00 per 1000.

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Dwarf Hybrids Each separate Tr. Pkt. \$0.50
Semi-Dwarf Hybrids } 6 Tr. Pkts. \$2.50
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Cineraria. Finest large-flowering dwarf, mixed colors, 1000 seeds, 50c.
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Squash, Watermelon, Sweet Corn.

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FOR IMMEDIATE DELIVERY.

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Kentia Forsteriana, to arrive	\$0.75	\$6.00
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Areca Lutescens	1.00	6.50
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Phoenix rupicola	1.00	7.50
Phoenix reclinata	.50	3.00
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Dracaena Indivisa	\$2.00 per lb.	

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Brenchleyensis,	\$2 50	\$20 00	\$95 00	Special Mixed,	\$1 50	\$12 00	\$57 50
selected 1st size	1 50	10 00	47 50	extra large se-			
May	2 00	15 00	60 00	lected bulbs	1 00	8 00	37 50

Gold Medal Strain

Begonias

Tuberous Rooted

Single White	Doz.	100	Single Mixed	Doz.	100
" Yellow	\$0 40	\$2 50	Double White	\$0 35	\$2 25
" Nankeen	40	2 50	" Yellow	65	5 00
" Pink	40	2 50	" Orange	65	5 00
" Rose	40	2 50	" Rose	65	5 00
" Red	40	2 50	" Dark Rose	65	5 00
" Dark Red	40	2 50	" Dark Red	65	5 00
" Salmon	40	2 50	" Red	65	5 00
" Orange	40	2 50	" Salmon	65	5 00
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ASTER SEED. We are the leading specialists and largest growers of high grade Asters in the world, and have originated more of the standard varieties than all other American seedsmen combined. Five new varieties this past season. **One Packet of Each for \$1.00.**

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TUBEROUS ROOTED BEGONIAS, single, in 7 separate colors, extra fine, \$2.00 per 100.

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Martha Washington, Florence Vaughan, C. Henderson, Sec. Chabanne, Mile, Berat, Paul Marquant, Explorateur Crampel, per 100, \$1.50.
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Extra fine dormant ROSES in the leading varieties on hand.

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SPECIAL MIXTURES SEED FOR GOLF GROUNDS

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EXCEPTIONALLY FINE ROOTS WITH 7 TO 7 EYES

Double White.....\$1.50 per doz.; \$3.00 per 100
Double Pink.....1.25 per doz.; 7.00 per 100
Double Red.....1.25 per doz.; 7.00 per 100
Double Mixed.....1.00 per doz.; 9.00 per 100

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GLADIOLUS BULBS
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FINE PLUMP SEED
\$5.00 per 1000
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Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.
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East Bridgewater Dahlia Gardens
Not only has the largest, but the finest collection of up-to-date DAHLIAS, of any firm in America. Send for free catalog, to the
Eastern Dahlia King, J. K. Alexander, E. Bridgewater, Mass

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An illustrated up-to-date work covering the whole field of Dahlia Culture. Price 35c.
Send for catalogue of Dahlias, Gladioli and Hardy Plants. I handle only the cream of varieties. M r s. Winters, Mme.
Dael, Navajo, Dainty, Kriemhilde, etc. My Dahlias have long been celebrated as prize winners.
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NARCISSI TULIPS DAFFODILS IRIS, ETC.

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ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
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Mignonette "New York Market"
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Tomato "The Doc" Tomato "Syrilog Castle"
Mushroom Spawm "English" and "Pure Culture"
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WEEBER & DON, Seed Merchants and Growers
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Cold Storage Valley
For Decoration Day
Our "Excellent" Valley is the finest and best for quick forcing. Order today.
Cases of 500 pips \$7.50; cases of 2000 pips \$28.00; cases of 2500 pips \$35.00.

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2-6 Old Slip New York City

Gladioli—NOTHING BETTER ANYWHERE.
Cannas—VERY BEST SORTS.
Carnations—THE MONEY MAKERS.
Paeonias—1200 sorts, finest sorts in liberal supply.
Send for a list of our offers.

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DAHLIAS. Field grown leading kinds named for cut flowers, whole roots, \$3.50 per 10, 40 leading kinds, named, \$1.50, \$2.00 and \$3.00 per 100.
CANNAS. Giant, single and double fringed, Savias, phlox, Geraniums, Pelargoniums, Ageratum, Sweet Alyssum, Gem, Mautranthias, etc. 2 1/2 in. \$2.00 per 100. Cash please.
PETUNIAS. GERANIUMS, PELARGONIUMS, AGERATUM, SWEET ALYSSUM, GEM, MAUTRANTHIAS, ETC. 2 1/2 IN. \$2.00 PER 100. CASH PLEASE.

SHELLROAD GREENHOUSES, Grange, BALTIMORE, MD.

IF YOU NEED
Summer-Flowering Bulbs
German or Japan Iris,
write us for prices. We have the stock and can give you satisfaction.
JOHN LEWIS CHILDS, Floral Park, N. Y.

Lambert's Pure Culture Mushroom Spawm
Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized.
Has never failed to run. Sold by Leading Seedmen.
Practical instructions on "Mushroom Culture" mailed free on application.
American Spawm Co. St. Paul, Minn.

VIOLET CULTURE
Price, \$1.50 Postpaid
A. T. De La Mare Plt. & Pub. Co. Ltd., New York

Seed Trade Report.
AMERICAN SEED TRADE ASSOCIATION
Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

The Barteldes Seed Company, Denver, Col., has issued an interesting illustrated pamphlet on Alfalfa, its Uses and Culture.

MILTON, N. Y.—Nicholas Hallock, formerly of Queens, N. Y., early in May will celebrate his eightieth birthday. He is still very much interested in fruit and flower culture and is making a specialty of perennial phlox, having some 400 varieties.

VALLEY CITY, N. D.—The Northern Seed Company has been incorporated, with a capital stock of \$10,000. Incorporators: E. S. DeLancey, E. J. DeLancey and C. H. Briggs, all of Valley City, N. D.

ST. PAUL, MINN.—The catalogue trade has been very good to date, but orders have begun to drop off somewhat, possibly due to the backward season. So far sales are ahead of last year's. Orders for grass and field seeds are numerous, particularly from the merchants throughout the Northwest. Garden seed, filling in orders, have not started to move yet, which shows that there has not yet been much done in gardening.

PAUL.
IMPORTS OF SEEDS, ETC.—April 22.—C. A. Haynes & Company, 10 cases live plants; Rooney, Spence, seven packages trees; L. A. Terrell, four cases plants. April 23.—American Express Company, 14 tubs laurel trees; H. Frank Darrow, 196 tubs laurel trees; Hussa & Company, 25 cases plants, 144 tubs laurel trees, Chas. F. Meyer, 13 cases plants, 66 cases plants; Maltus & Ware, 66 cases plants; L. A. Terrell, 12 tubs laurel trees; P. H. Petry & Company, 12 tubs laurel trees, one case plants; T. C. Pollock, six cases plants, 16 tubs laurel trees; E. R. Pierson & Company, one case plants; A. Rolker & Sons, 97 tubs laurel trees, one basket trees, 48 cases plants; Vaughan's Seed Store, 42 cases plants, 80 tubs laurel trees; R. M. Ward & Company, 16 tubs laurel trees; W. H. Kille, 12 tubs laurel trees, five cases plants; F. B. Vandegrift & Company, 14 cases plants; Wakem & McLaughlin, two cases plants, 16 tubs laurel trees.

April 23.—H. Frank Darrow, 19 cases plants, 196 tubs laurel trees; Hussa & Company, 25 cases plants, 144 tubs laurel trees; Ch. F. Meyer, 13 cases plants, two tubs laurel trees; Maltus & Ware, 63 cases plants, 34 tubs laurel trees; Jan Ter Kuile, 16 tubs laurel trees, six cases plants; Vaughan's Seed Store, 40 cases plants, 80 tubs laurel trees; R. M. Ward & Company, 16 tubs laurel trees; Wakem & McLaughlin, 18 packages laurel trees and plants. April 24.—Peter Henderson & Company, 30 bags grass seed; R. F. Lang, one case plants; Maltus & Ware, nine cases plants, six tubs plants, 16 bushels grass seed; Rooney & Spence, two cases trees, 23 cases plants; Rölker & Sons, one case plants; W. H. Smallwood & Company, eight cases plants; Brown & Reese, 14 cases orchids; A. Held, 13 cases orchids; Bruen, Ritchey & Company, seven bags seed, four bags roots; D. H. Burdett, two bags seed; McHutchinson & Company, two casks seed; F. B. Vandegrift & Company, 12 tubs plants, four cases plants. April 26.—H. E. Fish, seven packages plants; Wells, Fargo & Company, two cases live plants. April 27 and 28.—J. M. Thorburn & Company, 15 bushels grass seed; Frank Netsch & Company, 28 boxes plants; R. F. Godwin & Sons, nine bags field seed.

EXPORTS OF SEEDS, ETC.—April 23.—Shipped from New York to Bombay two cases seed valued at \$200; to Limon, 32 bags grass seed valued at \$348; to Savanilla, 43 bags seed valued at \$429.

CATALOGUES RECEIVED.
J. A. PETERSON, Cincinnati, O.—Price List of Begonia Agatha (seedling of B. Socotrana×Moonlight) and new Begonia Triomph de L'Est (seedling from B. Socotrana×unknown). Illustrated.
PERRY, Nurseryman, Enfield, England.—Illustrated Catalogue of Water Plants, including new hybrid Water Lilies, Aquatic and Bog Plants of all descriptions.

LARGE PRIVET
3 to 4 ft. @.....\$40.00 per 1000
4 to 5 ft. @.....50.00 per 1000
5 to 6 ft. @.....60.00 per 1000
5 to 6 ft. XX.....90.00 per 1000
Wichuriana Hybrida, 2 year 40.00
Plenty of shrubs at low prices.
CANNAS, 4 in. tops, \$5.00 per 100.
ELIZABETH NURSERY CO., Elizabeth, N. J.

European Notes.
A dull, cheerless spell appears to have settled over the whole of Europe and in every direction people are anxious to see the sun. Except in Germany, where there has been practically no rain since the end of March, an abundant supply has fallen; even Ollioules has had a good shower at last, so the safety of the Roman hyacinth crop is now assured.
The growers of florists' flower seeds are the most anxious, particularly for the primulas which have already been "brushed" and badly need a little sun to develop the seed.
A very interesting system of fertilization was resorted to last season by one of the principal seed firms who make a specialty of cinerarias in distinct colors. A swarm of bees was hived in the house and the work was done most effectually, and without any untoward results. At present the bees have no inducement to venture forth.
The free seed force of the United States Government has brought forth imitators in London as the accompanying advertisement will show. The supply of lunatics appears to be quite equal to the demand; unfortunately, sane and responsible people have oftentimes to suffer for their folly.
The financial cloud, which has for some time past hung over the well-known house of B. S. Williams & Son, Upper Holloway, has at last been dissipated. The old firm has been liquidated and the business taken over by Henry Williams, who with his son, H. E. Williams, will carry on the business under the name of Williams & Son.
The William Whiteley Company have decided to curtail their growing department particularly in their fruit culture. This is welcome news, for the firm is noted for cutting prices.
The disastrous news from California causes some anxiety particularly as regards carrot. The first sowings last year were nearly all destroyed by drought; the second sowings were severely punished by caterpillars. The acreage planted, especially of the half long varieties, is not more than one-third of an average.

EUROPEAN SEEDS.
Importance of Full and Accurate Descriptions of Varietal Differences in Growing Seed of Market Vegetables.
(Read by W. W. Tracy before the American Breeders' Association.)
What we have to say refers to breeding and growing seed for use in producing market crops rather than to breeding for the production of new varieties or even to the improvement in the sense of modification of old ones. Under modern methods of culture and marketing vegetables, uniformity, both of growth and of product, is one of the great desiderata, and variations in individual plants, even if it comes from the greater development of an intrinsically desirable quality, is a disadvantage. This can be made clearer by an illustration:
The profit or loss on a crop of green peas is often determined by a difference of a few days in the time when the pods reach a marketable size. In our best stocks of market sorts, all the plants mature their pods so nearly together that under the most favorable conditions the greater part of the crop can be gathered in a single picking; and it should never require more than three pickings all made within ten to fourteen days to secure practically all of it. Now if to a stock of peas, in which practically all the pods mature to marketable size in 50 to 55 days, we add ten per cent. of one which matures pods in 45, we have materially hastened the average date of maturity and so seemingly increased its value; but in reality we have materially reduced it, for it is impracticable to

GLADIOLI
Beautifully illustrated catalog, colored plate, etc., describing GROFF'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors. Write for it.
ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM BERLIN, N. Y.

make a special picking of this ten per cent. of early pods. To do so would so injure the vines as to reduce the total yield by much more than ten per cent. besides requiring the extra time in picking, while if these early maturing pods are left on the vines and gathered with the bulk of the crop, they would become so mature as to lower the grade and value of the whole crop. So that in practice, while the use of stock, all or nearly all of which was five days earlier, might more than double the receipts, the use of one, only ten per cent. of which was five days earlier, would materially lessen them. The same conditions hold with reference to other qualities. The uniformity of product is often as important a factor in determining the practical value of a lot of seed as is any other quality. The exhibitor may aim at the production of superlative individuals regardless of the general average; the market man must depend upon uniformly good quality, and to him superlative individuals are often as objectionable as those which are marked inferior.

The perfection of development of a plant is perhaps most largely determined by its environment, but its character, the potentiality and limitation of development are inherent in the seed and are made up of the balance sum of influences it inherits in varying degrees from each of its ancestors back for an indefinite number of generations. Under the best modern cultural conditions the environment of different plants in a field is practically the same, but there is usually a great variation in the quantity and quality of the product, much if not most of which variation is due to differences in individual seed. There are few crops where the profit would not be greatly increased, and it could often be doubled, if the product of each one of the individual plants in the field were just equal in quantity and quality to that of the second best one-third of them.

We believe that improvement in this respect can come only through an appreciation on the part of seed growers of the importance of seed breeding and growing, of rigid adherence from year to year to precisely the same varietal types and such adherence can only be possible when such varietal types have been very clearly defined and described.

Do we have in the case of garden vegetables clear, definite and explicit descriptions of just what any particular variety should be? I think not. In the case of plants propagated asexually, exact definitions of varietal characteristics are not so important. Since we cannot change it, we can only increase the number of parts of a certain definite thing—we cannot alter its inherent character. The Baldwin apple of to-day, of 50 years hence, is precisely the same in its character, its potentialities and limitations of development as that of 50 years ago; no matter how many propagative generations it may go through, the type of the variety as a variety cannot change, yet such men as Downing, Warder and Beach have devoted years of earnest study

not only to the adaptability of the sort to certain places and uses but to formulating clear descriptions of just what it is. On the other hand, in vegetables, where the permanence of a variety and the retention of its qualities depends upon a clear statement of its distinguishing characteristics very little work has been done; and it is not surprising that the slate-colored, nearly smooth-skinned Hubbard squash of 50 years ago drifts into the densely warted, dark green Hubbard of to-day, which many claim is as unlike the original type in quality of flesh as it is in character of skin; and no man can do more than guess what the Hubbard squash of 50 years hence may be. What the original introducer now selects as an ideal and typical ear of Premo corn is very different from one he picked out as an ideal five years ago when it was first named as a distinct variety. When we remember that the relative influence of each ancestor may vary in each individual and the great variation represented in the ancestry of the different plants of most stocks of garden vegetables, it is not surprising that they are variable, nor that some individuals are very different and of immensely greater practical usefulness than are others, though they fail to transmit that superiority to their descendants.

The only way we can secure seed certain to develop plants of any exact type is to make sure that each and all of its ancestors are of that exact type; and to do this, we must have the type clearly defined and in selection adhere rigidly to it and not be tempted into the use of plants that vary from the type even though they be individually superior. The first requisite for this is the formation and general acceptance of minute and exact descriptions of varietal types. This is by no means an easy task. We must first distinguish between what are real varietal and hereditary characteristics and those which are simply the result of environment of the individual; for it must be admitted that conditions of environment sometimes induce modifications in the character of the plant, and when the same conditions are continued from year to year they have a cumulative influence the effects of which may become hereditary; but such variations are less common and generally of far less importance than characteristics which are inherent in the nature and habit of the plant itself and quite independent of environment.

Again the comparative and practical importance of a variation should be considered. Often there are correlations of qualities through which a readily seed variation, which is of itself of little moment, becomes very important because it is very distinctly characteristic of the sort or is invariably correlated with some important quality which cannot readily be seen.

Again the relative importance of certain qualities will vary with the conditions under which the plant is to be grown and the uses to which it is to be put. I have known of a num-



Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

TUBEROUS ROOTED BEGONIAS

Fine Bulbs. Cut price to close out.	doz.	100	1000
Single Yellow, Red, Rose, Lemon, Orange and White.		\$.85	\$ 2.00
Single Mixed		.30	1.90 18.00
Double Yellow, Rose, Orange		.45	3.50

GLOXINIAS, Fine Bulbs

Red, Spotted, Scarlet and mixed		.45	3.00
Asparagus Plumosus Nanus			
Best Greenhouse grown		50	3.00

ber of instances when the very qualities which made a sort desirable for certain places and uses and the development of which was the only reason for its existence as a distinct variety have been bred out of it, because, under the conditions and for the purposes with which the seed grower was familiar, these qualities were objectionable rather than desirable.

These conditions make it seem to me that the formation of full, minute and carefully written out descriptions of what the ideal plant of a variety shall be and the rigid adherence in selection to that exact type from year

to year is the essential foundation for all really successful seed growing. And that there is to-day no greater horticultural need than the formation of such full and accurate varietal descriptions of vegetables as we now have of fruits.

POINSETTIAS

2 1/2 in. pots, \$5.00 per 100; \$40.00 per 1000. 5 per cent. discount on all orders received before July 1st accompanied by cash. July and August delivery.

S. N. PENTECOST, 1790-1810 EAST 101st ST., CLEVELAND, OHIO

During 1906 we furnished to the trade over One Hundred Thousand of the below described leaflets.

CULTURAL DIRECTIONS

Specially written for the use of your amateur customers. Send Twenty-five cents for complete sample set, which amount will be deducted from order for first thousand.

The universal favor in which these Directions are held, as shown by the many orders received therefor, encourages us in the belief that these Leaflets are just the neat little factor to help promote business and establish better relations between the dealer and his customer.

TRY SOME!

BIG BUSINESS ASSISTANT

TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE YOUR CUSTOMER, WE HAVE PREPARED

Cultural Directions

COVERING A NUMBER OF THOSE PLANTS AND BULBS MOST LARGELY IN DEMAND

THE "CULTURALS" have been written by experts; they are fuller, and contain more detailed directions than it is possible to embrace in a catalogue. Equipped with these, just hand one out with each sale, and save yourself considerable present and future trouble, as the customer will then be able to consult the directions, grow his plants, seeds or bulbs intelligently, and so receive satisfactory results, without having to continually resort to you for advice.

The following "Culturals" are now ready:

AMARYLLIS (Hippeastrum)	CROCUS, Snowdrop and Scilla Sibirica	MUSHROOM CULTURE
ANNUALS FROM SEED	DAHLIA	ONIONS
ASPARAGUS	FERNS	PALMS, House Culture of
ASTER	FRESIA	PANSY
BEGONIA, TUBEROUS	GERANIUM	PEONIES
BULBS	GLADIOLUS	PERENNIALS, Hardy
CABBAGE and CAULIFLOWER	GLOXINIA	PRIMULA
CANNA	HOT BEDS and FRAMES	ROSE CULTURE
CARNATIONS, MONTHLY	HOUSE PLANTS, Care of	SWEET PEA, The
CELERY	HYACINTHS, Dutch and Roman	TOMATOES
CHINESE SACRED LILY	IRIS AND TRITOMA	TUBEROSE
CHRYSANTHEMUM	LAWNS	TULIP
CLIMBING PLANTS, Hardy	LILY CULTURE for House and Garden	VEGETABLES
COLEUS, and other bedders		VIOLETS
		WATER GARDEN, How to make and Manage a

PRICE LIST

500 Cultural Directions for \$1.50	Printed on white paper, clear type, size 6 x 9 1/4 inches, in an assortment, your selection of not less than 100 of each, delivered carriage paid.
1,000 - - - - - 2.50	

Sufficient space will be left at the bottom of each leaflet for your name, address, etc. If you desire this imprint (3 lines) we will put same on for you at 50 cents for 500, 75 cents for 1,000. Special quotations will be made on quantities of 2500 "CULTURALS" or over.

A. T. De La Mare Ptg. and Pub. Co. Ltd. Pubs. The Florists' Exchange. P. O. Box, 1697, NEW YORK

CANNA BARGAINS

To close out our stock of these we offer to prompt buyers the following choice named varieties; all roots have two or more eyes. ORDER QUICK.

Price \$1.50 per 100 or \$13.50 per 1000

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| AUSTRIA | PENNSYLVANIA |
| ALSACE | PHILADELPHIA |
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Choice CYCAS STEMS just received, 25 lbs. \$2.25, \$8.50 per 100 lbs., 300 lb. case \$24.00

Write for our wholesale and general catalogue

HENRY F. MICHELL CO.
1018 Market Street, Phila.

HERBACEOUS PERENNIALS

We offer a fine stock of perennials as follows

Table listing various perennials such as Achillea, Agrostemma, Aquilegia, Artemisia, etc., with prices per dozen and per 100.



(85) Geraniums Losing Color.—Can you tell me the cause of good, healthy geranium plants turning their color in two and a half weeks' time? What can be done to prevent them doing this? They are all full grown plants, many of them being in full bloom. Mass.

—From the appearance of the leaves sent for examination, we are of the opinion that the plants are too crowded on the benches, and that syringing or watering from overhead has been done during the bright sunshine at a time when the plants were dry at the roots, which caused the leaves to scald somewhat badly. We would recommend that the plants be given more room on the benches, and no watering overhead be practiced.

(86) Summer Care of Callas, etc.—Kindly inform me the best way to care for callas in pots during the Summer. Also what would be the best kind of flowering plants to grow in pots? I sell all I produce at home, and would like to have flowering plants in pots from Fall to Spring. Ft. B.

—The best thing to do with callas that have been grown in pots is to lay the pots on their sides outdoors in some shady place when it is seen that their growth is completed, which will probably be some time in the early part of June. By laying them down on their sides they will dry out gradually, and they may be allowed to remain in that position until the middle of August, when the plants should be shaken out of the pots and re-potted in fresh soil and started into growth again.

A list of suitable plants for commercial purposes during the Winter and early Spring would include chrysanthemums, begonias, cyclamens, primulas, geraniums, and such bulbous plants as lilies, hyacinths, narcissus and tulips.

10,000 FERNS 10,000 POTTED CANNAS ALL FINE STOCK

Cannas, 3 1/2 and 4 in. pot plants, ready to plant. Will do 500 or 1000 in fair proportion from list at \$40.00; or my own selection for \$35.00 per 100.

Chas. Henderson, Shenandoah, Mlle. Berat, Alsace; Gloriosa (or Dwarf Queen Charlotte), Guesu Charlotte, Florence Vaughan, David Harum, Chicago, Souv. D'Antoine Crozy, Duke of Marlborough, Crimaeon Bedder, Bronze Beauty, Pennsylvania Louisiana \$1.50 per dozen; King Humbert, \$2.50 per dozen; Allemania, Austria, Italia, Bonemarr, Chautauque, Fertinope, Mme. Crozy, Canary Bird, each \$1.00 per dozen

10,000 FERNS Boston, 4 in., 15c.; 3 in., 8c.; 2 1/2 in., 4c. Piersoni, 6 in., 25c.; 4 in., 15c.; 3 in., 8c.; 2 1/2 in., 4c. Scottii, 4 in., 15c.; 3 in., 10c. Barrowell, 4 in., 20c.; 3 in., 15c. Anna Foster, 2 1/2 in., 3c. 5000 Verbenas, Cabbage, Tomato and Pepper Plants, ready to plant; all transplanted, 50c. per 100. Egg Plants, \$1.00 per 100.

OTHER SEASONABLE STOCK Per 100 1000 English Ivy, heavy vines, 3/4 to 4 ft. \$5.00 1000 Vinca Major, variegated, 3 1/2 in. potted field stock, 7.00 1000 Inca Major, variegated, 2 1/2 in., 2.50 1000 Euphorbia Maculata, variegated, 2.50 1000 Helianthus Anemone-like, field-grown, 5.00 1000 Hydrangea Paniculata Grandiflora, 3 year, 8c.; 2 year, 6c.; 1 year, 4c. 1000 Clematis Paniculata Wistaria Blue 4-year old vines, 8.00 2000 Hydrangea Otakea and Aparagus Sprengeri, Stokesia Cyanea 2.50 5000 variegatumumum. Ivory, Yellow Bonnation, H. Fricke and Nonio, 2 1/2 in., 2.50 Carnations, from Paris ready to plant; grown cool, 1000 Helen Goddard, beats Rose-Pink Echantress, 6.00 2000 Queen, Boston Market, Gov. Wolcott, Pink, a-son, Elbon and New Day-break, each 2.00 2000 J. A. Henderson, Mlle Berat, dormant Cannas 1.50 1000 Cannas, best mixed, for massing, 1.00 Satisfaction guaranteed. Cash or C. O. D. BENJ. CONNELL, Florist, West Grove, Pa.

CANNAS

Strong Pot Plants, except where noted.

Mont Blanc (White) \$1.25 per doz., \$8.00 per 100; dormant roots, \$1.00 per doz., \$6.00 per 100; King Humbert, \$1.50 per doz., \$10 per 100; Louisaiana, \$1.25 per doz., \$8.00 per 100.

Betsy Ross, F. Hope, Pierson's Premier, President Melaney, 3100, Kate Gray, Pennsylvania, David Harum, Evolution, 75c. per doz., \$5.00 per 100.

Austria, Italia, Black Prince, John White, Shenandoah, Robusta, Cannafolla (giant Cannas), Duke of Marlborough, Florence Vaughan, George Washington, J. D. Eisele (best scarlet), Mad. Crozy, Miss Sarah Hill, Mme. Berat, Pillar of Fire, Queen Charlotte, Compté de Bouchard, 60c. a doz., \$4.00 per 100.

Burbank, 60c. per doz., \$4.00 per 100; dormant roots, 50c. per doz., \$2 per 100; John White, 60c. per doz., \$4 per 100; dormant roots, 50c. per doz., \$2 per 100; Charles Henderson, 60c. per doz., \$4 per 100; dormant roots, 50c. per doz., \$2 per 100; Florida, 60c. per doz., \$4 per 100; dormant roots, 50c. per doz., \$2 per 100; Maiden's Blush, 60c. a doz., \$4 a 100; dormant roots, 60c. a doz., \$3 a 100.

CARNATIONS

Clean, Healthy Plants, from 2 inch pots.

Boston Market, Crisis, Dorothy, Ethel Crocker, Queen Louise, \$4.50 per 100. Climax, beautiful new pink, \$3.50 per 100; Elbon, new brilliant scarlet, \$3.50 per 100. Eldorado, Francis Joost, Governor Roosevelt, Lizzie McGowan, Louis Haetel, Melba, The Queen, \$3.50 per 100.

FERNS

Strong plants from 2 1/2 in. pots.

Nephrolepis Elegantisissima (Tarrytown), \$6 per 100; Piersoni, Boston, \$4 per 100; Scottii, \$6 per 100; Jacksonii, \$4 per 100; Barrowsii, \$6 per 100; Sword Fern, \$3 per 100.

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Conducted by Joseph Meehan.

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MANGUM, OKLA.—An extensive nursery is to be established here, not far from the city limits. It is said the enterprise will be under the direction of Stark Brothers.

ST. PAUL.—L. L. May & Company expect to finish up their Spring delivery the coming week. Their new storage warehouse has helped them out considerably in the way of making early deliveries in the Spring and Fall. The stock is hauled from their nurseries at Mayfield, Minn., in the Fall and held in the large warehouse, and their packing is completed in the warehouse. Rainy or stormy weather does not affect them in any way. Cars are run through the warehouse and a Spring delivery can be made in just one half the time it took to complete it at their nursery. Mr. May built it at an expense of \$10,000, but is confident that it will pay for itself in two or three seasons. The dimensions of the building are 200 feet long by 150 feet wide.

PAUL.

THE CALIFORNIA PRIVET.—Can you inform me how the California privet comes by its name? Is this not the English privet? I am sure it is not a native of California, and would like to have this question answered.

JOHN VALLANCE.

Cal.

—What is called California privet is *Ligustrum ovalifolium*. It is well understood that it is a Japanese species, and that its common name, California privet, comes from its reaching the East by way of California. The English privet is *Ligustrum vulgare*. The California is much used for hedging from Boston southward, but is not the equal in hardiness to the *ibota* and *Regeliana*, both of which make good hedges, though without the shining foliage of the California privet.

J. M.

Seasonable Topics.

In the case of hazels, walnuts and hickories the male flowers come earlier than the female ones in some seasons, hence the non-production of nuts. It is sometimes possible to bring branches of male flowers and hang them on the trees that are short of them.

Root cuttings of *Pyrus japonica* set out in Spring grow freely. The variegated-leaved variety comes true raised in the same way. The *pyrus* often fruits freely, and plants are raised from the seeds; but root cuttings are looked to for the main supply.

Many have noticed the injury to vegetation when it comes in contact with galvanized wire. This is because of the acid used in galvanizing. Before being used for trellises and other purposes the wire should be well painted, which will prevent any trouble from its employment. Were railings to cemetery lots so painted it would prevent the killing of the grass beneath them.

The old custom of turning a pot plant upside down when infested with insects and dipping it in water heated to 120 degrees is still a good one. One or two such immersions would free plants from their enemies.

Viburnum nudum has the usual corymbs of white flowers common to *viburnums*. It differs, however, in its berries. These go through various colors as they ripen. Starting with green, there follow white, rosy pink and deep purple. When the rosy pink stage is reached the bush is extremely ornamental.

Wherever *Euonymus japonicus* succeeds it makes a fine evergreen hedge. Good ones are reputed as existing at Atlanta, Ga.; and in all South Jersey there are to be seen fine specimens of it. As a seashore shrub it has a good reputation.

Which hazel, *Hamamelis virginica*, is associated with our thoughts of the very latest of the Autumn flowering shrubs. It is often found in bloom in sheltered woods some time after the early frozings of Winter have set in. Its singular habit of "firing" its seeds is known to many. When the pods open the seeds are ejected sometimes 15 feet away from the shrub.

The once rare fern, *Asplenium pinnatifidum*, is still to be found in its old locality along the Schuylkill River, Philadelphia, the plants from which afforded the specimens from which Nuttall gave it its name.

Sowing Catalpa Seeds.

An Ohio correspondent asks for a few directions for sowing catalpa seeds. It happens that this is a seed that grows easily. It needs but to be covered with soil to about its own depth, and growing is almost assured. Seeds should be sown as early in Spring as the ground is fit, then they sprout before the dry weather comes, and by Fall there is a nice growth to show.

Mention has been made before of the value of the catalpa as a street tree, and the time will come when nurserymen will find a demand for the tree for this purpose. There are two available species—*C. speciosa* and *C. bignonioides*. The former is taller and hardier than the other. *C. bignonioides* is of more rounded growth, less tree-like in appearance, and would be unsuitable where a tall tree would be required. On the other hand, where flowers are to be considered *C. bignonioides* is much the handsomer of the two, but with the flowers come the long seed pods which hang on all Winter. *Bignonioides* is not hardy north of the Middle States, while *C. speciosa* can be grown in the coldest States.

Catalpa speciosa, because of its straight growth, hardiness and the value of its timber, is in great demand for forestry purposes, and if we mistake not it will take a prominent place among the trees recommended for street planting.

be distinguished by the color of the wood as it can by the leaves at other times.

This horse chestnut is not a large tree; quite the reverse. Because of this it finds a place for lining the sides of avenues of moderate width, where the ordinary European species, with its immense growth, would be quite out of place. Wherever its native home may be, it assuredly prefers the climate of England to ours. As seen there its growth is magnificent. In the abundant moisture of the atmosphere it thrives to perfection; and it is worth a trip across the water to see the trees in bloom, especially when lining avenues, as they so often do.

Mentioning the liking of this tree for a moist air, it is so with all horse chestnuts. The European one, *Hippocastanum*, and all its varieties suffer from our dry air in Summer. They like moisture for the leaves and moisture for the roots and coolness, too, for both, if to do their best; and this likewise applies to *rubicunda* and



Æsculus Rubicunda, Red Flowered Horse Chestnut

Æsculus Rubicunda, Red-Flowered Horse Chestnut.

What is uniformly admitted to be one of the handsomest of our flowering trees is the red-flowered horse chestnut, *Æsculus rubicunda*. When in perfection of growth and bloom it is one of the trees that those who see it are sure to endeavor to obtain from their nurseryman. The demand for this tree appears to increase every year, it is such an addition to a collection of horse chestnuts.

There are not many true horse chestnuts natives of our country. The *Æsculus glabra* and the one of which we write, *rubicunda*, are the only two in general cultivation, and it must be said here that although leading botanists place the *rubicunda* as a native here, others appear to think its origin obscure. No one can give the locality where it can be seen in a wild state, hence in some works its origin is given as a matter of doubt. Others again think it of hybrid origin.

No matter just now where it sprung from, it is one of the most ornamental of trees, for besides its handsome panicles of reddish scarlet flowers, it has uncommonly rich dark green leaves, so dark, indeed, that when mixed with other sorts there is no difficulty in selecting one from the other. And this darkness of color is characteristic of the bark of the wood as well, so much so that in the season when bare of leaves it can

the native one, *glabra*. When these are set out on lawns having deep soils and where large trees partly shade them in the heat of the day, and the turf keeps the soil cool, it is not uncommon to see them pass through our Summers in splendid health; but when in situations the reverse of this the leaves scorch badly in late Summer, and become the prey of a fungus which sometimes destroys every vestige of foliage. Still, as the late Thomas Meehan used to say, everything that could be said against the tree could be accepted if need be and still it deserves planting for its great beauty in the early days of Spring and Summer.

Looking at the picture it will be seen that the leaves have a drooping habit, pretty and distinctive; and this is another character in which it differs from others of the family.

What nurserymen regard as curious is, that it does not produce seeds. We are not sure that it never does, but do not recollect seeing any on a tree. This necessitates the increasing of it by budding, in which way a stock is not hard to obtain.

Some botanists make several species of horse chestnuts as indigenous to this country, doing this by including the *pavina*, but the old-time distinction of treating as horse chestnuts those with prickly shells, and buckeyes those with smooth ones, seems a very good one.

JOSEPH MEEHAN.

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2 3/4 in., \$10.00 per 100; Etoile de France.

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2 1/2 in. pots. Escobancas, White Lawson, Candace, at \$3.50 per 100

pink Lawson. The Queen Boston Market. Esir Maid, Queen Louise, Gay, Wolcott, Prosperity, Richmond Gem, Craus, Moonlight Mrs. Patten, Harlowarden, at \$3.00 per 10 ; \$25.00 per 1000.

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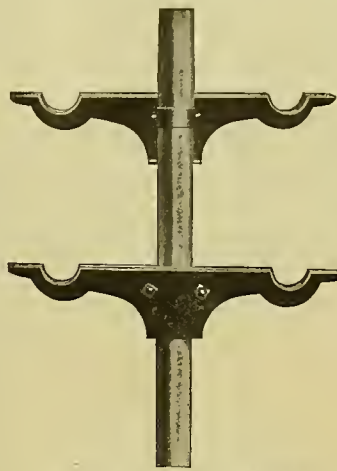
California Plant Notes.

Some facts relative to Persea gratissima, alligator pear, that have come under my observation during the two years past may be of interest to the readers of The Florists' Exchange, especially those of them who live where the tree can be successfully grown. It is the most delicious of all the fruit grown in this part of the country, and retails in our markets at fabulous prices—\$3 to \$9 per dozen fruit. One tree near Los Angeles produced \$137 worth last year. One fact, and a most important one to those who would plant it for profit, is that at least 75 per cent. of the seedlings are barren, some of them do not bloom at all, and of the remaining 25 per cent., some bear fruit with so little meat covering the large seed that they are of little value. These different seedlings (the writer knows of no budded or grafted trees), bear fruit differing in size and shape, the meat varying in thickness from a quarter of an inch to an inch. The shape is of no value, but the edible part is. A deep sandy loam soil seems to produce the most luxuriant growth, but the trees that have produced the most fruit are growing on heavy clay soils; yet this productiveness may not be due to soil, but the nature of the tree. It will stand eight degrees of frost without injury, and requires plenty of water during the Summer for its best development. In our fertile soils the question of manure is not yet considered. So far as a money-maker is concerned, it beats walnut orchards, and orange and lemon groves—the staple productions of Southern California—16 to 1, but planters must bear in mind that stock propagated from fruiting trees is the only kind that will pay for the time and expense necessary to bring an orchard into bearing. The seed germinates better in soil than it does suspended in water—a method one occasionally sees practiced in greenhouse establishments. The writer is experimenting with ripe wood cuttings under glass; if successful there will be none to sell, but the result will be made known in these columns. No insect pest or disease has yet affected any trees growing here, and there are some large ones. The largest one never blooms. P. D. B.

A Useful Greenhouse Adjunct.

The Improved Economy Bracket, manufactured by Buxton & Allard, Nashua, N. H., an illustration of which appears herewith, is highly spoken of by florists who have used it, among whom are such well-known firms as S. J. Goddard, Pat-ten & Company and F. H. Kramer.

These brackets are constructed of best grey iron, properly proportioned to combine strength and beauty, and made as light as consistent for the work they



The Improved Economy Bracket

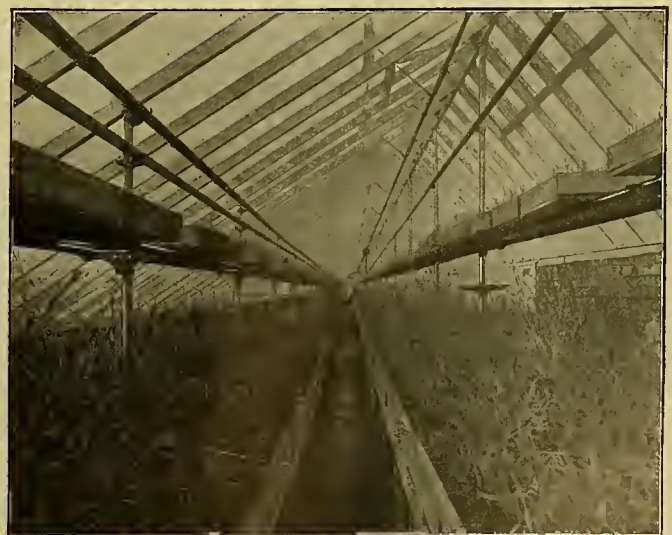
have to perform. The clasps are made from best Norway iron and, when tightened about the standard and through the brackets, each will carry a load of over 2,000 pounds.

The Improved Economy Bracket is an economizer of space; by placing the brackets throughout the house from post to post, thousands of plants, cuttings and seedlings could be raised, which now are not as they take up valuable room occupied by other plants. The bracket doubles the capacity of the output for seedlings, etc., at no extra expense. When not in use, by turning the nut, the bracket is easily removed. They do not obstruct the light as do wooden frames, and are just the thing for exhibition plants. Many florists are making the pipes which run from bracket to bracket answer two purposes, i. e., supports for the boxes and water supply pipes.

If desired, timber can be used in place of pipe, as each bracket has a flat top for such place, the old style being adapted only for timber.

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Table listing various items and their page numbers, including 'Bracket, Improved Economy (Illus.)', 'California Plant Notes', 'Catalogues Received', 'Changes in Business', 'Club and Society Doings', 'Coming Exhibitions', 'Cut Flower Prices', 'Decorative Plant Notes', 'Fern, Ostrich, Usefulness of', 'Firms who are Building', 'Freesias, New, Notes on', 'Gladioli America', 'Japanese Snowballs, Pot Grown (Illus.)', 'London Letter, Our', 'Magnolia hypoleuca, Increasing', 'Market, Review of the', 'Nursery Department (Illus.)', 'OBITUARY', 'John Cotterill', 'Question Box', 'Ray, John (Portrait)', 'Readers' Views, Our', 'Retailer, For the', 'Seed of Market Vegetables', 'Seed Trade Report', 'Sweet Peas, Winter Flowering', 'TRADE NOTES—Newport, R. I.', 'Washington, D. C.', 'Chicago, St. Louis', 'Bethlehem, Pa., Easton, Pa., Indianapolis, St. Paul', 'New Orleans, La.', 'Allentown, Pa., Pittsburg', 'Philadelphia', 'Buffalo, New York, Syracuse, N. Y.', 'Boston', 'Columbus, O.', 'Week's Work, The', 'Window Boxes'.



Greenhouse Showing Economy Bracket in Place

ASPARAGUS

Robustus, similar to Plimous but better for pots, pans, and vases; extra fine stock ready for 4-inch pots at \$6.00 per 100. Sample for ten cents.

CARNATIONS

Ready April 29th. Queen at \$10.00 per 1000. Nelson Fisher at \$12.50 per 1000. Cuttings from sand.

GERANIUMS

Rooted cuttings only, ready May 16th, at the uniform price of \$10.00 per 1000. Null, Perkins, Buchner, Castellane, Francis, Vlaud, Poitevine, Jaulin, and Ricard.

Decorative Plant Notes.

CROTONS are now making growth rapidly, and as that is what is most desired every inducement for them to go ahead should be given them. The plants require an abundance of water judiciously applied at the roots as well as frequent syringing overhead to keep them in a clean and healthy condition. Liquid manure is not in any way a necessity for crotons until the roots begin to exhaust the nourishing properties of the soil; in fact, I think applications of liquid manure early in their growth is harmful to them ultimately, especially to those plants remaining in the same pots of necessity from now on, because recourse to that treatment will lessen the benefit when the plants are in absolute need later on. Well-furnished croton plants form an enviable possession, but there is no need of desiring much less of discarding plants somewhat bare of foliage below, because these can be advantageously utilized for various purposes throughout the late Summer and in the Winter. For filling fireplaces poor crotons are just as good as perfect specimens; and again, in Winter, there are a hundred and one ways in which such plants can be disposed of in conjunction with other material. If there are in the houses a greater number than can be conveniently cared for the hardest may be planted out in the open ground.

DRACAENAS.—Like crotons dracaenas are now rapidly developing their growth, and like crotons also the kinder treatment they receive for the next few months the better the plants will be able to stand any slight check that may be forced upon them when they are being brought to their limit in coloring. A light shade may be necessary in order to safeguard the plants from being burned in spots by the sun, although I have never experienced any difficulty in keeping the foliage perfect with the plants fully exposed to the sunlight. But I have always kept the house inordinately moist, and perhaps that is how I managed to save them invariably. The foliage of dracaenas should be occasionally sponged carefully so as to keep them clear of insect pests. It may seem tedious as well as expensive work to do that, but in the end it will be found a paying proposition by those who practice it.

When syringing dracaenas, which should be done twice each day with a fine rose used with force, the water should be applied to the under part of the leaves. Dracaenas of the choicer varieties are coming to the front rapidly, and little wonder, considering the unapproachable beauty of their foliage, and the comparative ease with which good specimens may be grown within a year. If it is contemplated to plant any of the colored varieties outdoors they should be given a somewhat shaded situation in a sheltered corner of the grounds. D. M.

ALBERT M. HERR, Lancaster, Pa.

SURPLUS STOCK

Table listing various plants like Ageratums, Begonias, Coleus, Fuchsias, etc. with prices per 100 and 1000.

Table listing plants like Palm, Washingtonia, Ferns, etc. with prices per 100 and 1000.

ROSES Everblooming Teas, Climbing Teas, Hybrid Teas, Hardy Climbing, etc., Lady Gay and Baby Rambler

ALTERNANTHERA

P. Major, 2-in. 2c. AGERATUM, white, Panline Gurney, 2-in. 2c. CENTAUREA GYMNOCARPA, Dusty Miller, 2-in. 2c. COLEUS, 2-in. 2c. BEECHAMPTONIA FERNS, 2-in. 3c. BOODED CUTTINGS, prepaid per 100. FUCHSIA, 5 kinds, \$1.25. AGERATUM, white, GURNEY, PAULINE, 60c. VINCA VARIEGATA, 90c. SALVIA BONIFIRE, SILVERSPOT, SPLENDENS, 90c. ALTERNANTHERA, 3 kinds, 50c. HELIOTROPE 3 kinds, \$1.00. FLOWERING GERANIUM, 8 kinds, \$1.25. FALLOU IVY, 75c. DOUBLE PETUNIAS, 10 kinds, \$1.00. 'MUMS: TRANTOP, ALLIANCE, PACIFIC, CHELTONI, GOLDEN AGE, WEEKS, ENGUEHARD and EATON, \$1.25. COLEUS, 10 kinds, 50c. SWANSONIA ALBA, \$1.00. PARIS DAISY, white and yellow \$1.00. ALEXANDRIA, \$1.25. Seedlings, Dwarf and Tall, double stock. Anthriscum, Grand white, pink and yellow, \$2.00 per 1000. Cash or C. O. D.

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THE REESER FLORAL CO., Urbana, Ohio

BYER BROS. Chambersburg, Pa.

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R. C., 76c.; 2 in., \$2.00. BEK BEGONIA, 2 in., \$3.00; 4 in., \$8.00. ASPARAGUS SPRENGER, 2 \$2.00 per 100. BRAUTCABIAS, 60c. and 75c. each. CANNAS, Austria, \$1.60; America, \$1.50; D. Harum, \$2.00; Pennsylvania, \$1.50; G. Gray, \$3.90 Marlborough, \$2.00; Italia, \$1.50; A. Bouvier, \$2.00; C. Henderson, \$2.00; Egandale, \$3.00 per 100. Will exchange for Enchantress, Boston Market or Guardian Angel Carnations J. H. DANN & SON, WESTFIELD, N. Y.

COLEUS

VERSCHAPPELTII, GOLDEN QUEEN, FIRE BRAND, LORD PALMERSTON, QUEEN VICTORIA, BERTWITZ'S GEM. Prices of Rooted Cuttings by Express, 60 cents per 100; \$5.00 per 1,000. GOLDEN BEDDER, Golden Yellow—the old original, true to name. Rooted cuttings, 75c. per 100; \$6 per 1,000. FANCY VARIETIES. In addition to those named we offer a fine stock of twelve kinds. 75c. per 100; \$6 per 1,000. Strong cuttings. Free from Mealy bugs. AGERATUM STELLA GURNEY, Dwarf Blue, 75c. per 100; \$6 per 1,000. PRINCESS PAULINE, a combine of blue and white in same flower, 75 cents per 100; \$6 per 1,000. SALVIA SPLENDENS, tall standard, one of the best, rooted cuttings, 75c. per 100; \$6 per 1,000. BONIFIRE, medium dwarf, very good, rooted cuttings, 75c. per 100; \$6 per 1,000. HELIOTROPE BOODED CUTTINGS, 75c. per 100; \$6 per 1,000. The 1000 rate obtains only when 250 or more of a variety are ordered.

PETUNIA "THE QUEEN"

This is something new in the PETUNIA order, a new double, extra fine, that requires no staking, 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100. COLEUS, Golden Bedder, and other varieties, rooted cuttings, 60c. per 100; \$5.00 per 1000. FUCHSIAS, in variety, 2 1/2 in. pots, \$3.00 per 100; R. C., \$1.50 per 100. HELIOTROPE, in variety, 2 1/2 in. pots, fine, \$2.50 per 100; R. C., \$1.00 per 100. SWEET ALYSSUM, 2 1/2 in. pots, fine, \$2.00 per 100. Capt. of Snows, 2 1/2 in. pots, fine, \$2.00 per 100. Little Gem, \$2.00 per 100. LOBELIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.00 per 100. AGERATUM, in variety, \$1.50 per 100; R. C., 80c. per 100. ROSE GERANIUM, 2 1/2 in. pots, \$2.00 per 100. HAPPY THOUGHT GERANIUM, \$2.00 per 100. GERMAN IVY, R. C., \$1.50 per 100. ENGLISH IVY, R. C., \$1.50 per 100. SALVIA, 2 1/2 in. pots, \$2.00 per 100; R. C., \$1.50 per 100. ALTERNANTHERAS, R. C., 80c. per 100. Cash with order.

J. E. FELTHOUSEN, 154 Van Vranken Ave. SCHENECTADY, N. Y.

REMOVAL SALE

Here is a chance for cheap Spring Stock. Geraniums, 4 in. \$7.00 Heliotrope, 4 in. \$5.00 Ageratum, 4 in. \$5.00 Salvia Splendens, 3 in. \$3.00; 4 in. \$5.00 Petunias large, double white, 4 in. \$8.00 Periwinkle, nice and long 3 in \$4.00; 4 in. \$8.00 Hardy Ivy, long 3 in. \$3.00; 4 in. \$8.00 Assorted Begonias, 3 in. \$3.00 Dracaena Indivisa, 6 in., very cheap, \$2.50 per dozen Martha Washington Geraniums, 4 in. \$10.00 Cannas, all varieties, 4 1/2 in. \$7.00 Daisies, white and yellow, 4 in. \$7.00 Mignonne, 4 in. \$5.00 Asparagus, 3 in. \$6.00 Honeysuckle Vines, 8 in., large plants, \$6.00 Verbenas, Alyssum, Phlox, Cigar Plants, Ice Plants, Lobelias, Ground Ivy, Heliotrope, Dracaenas, Coleus, in ten fancy colors, also Golden Bedder, Daisies, Bachelor Buttons, Forget-me-nots; all of the above are in 3 in. pots and sell at \$2.50 per 100. Achyranthes, Artillery Plants, Ice Plants, Black-Eyed-Susan, Nasturtiums, 3 in pots \$2.50 per 100. Please state if with or without pots. MRS. JOHN H. CLAUS, 1119 Roy St., Philadelphia, Pa

DWARF BOX

I have about 15,000 extra fine Dwarf Box to offer. Let me quote you before you buy. C. A. BENNETT, Robbinsville, N. J.

Begonia Gloire De Lorraine

The finest leaf cuttings obtainable For delivery from May 1st, 2 1/2 in. pots \$12.00 per 100, \$100.00 per 1000. Order at once. JULIUS ROEHRS COMPANY Exotic Nurseries, Rutherford, N. J.

A. N. Pierson, Cromwell, Conn.

COLEUS

Golden Bedder, Crimson Verschaffeltii and 15 others, R. C., 60c. per 100; \$5.00 per 1000. Coleus, Giant Fancy Leaves, \$1.00 per 100. Coleus, Golden Bedder and Verschaffeltii, 2 in. pots, \$1.50 per 100. Geraniums, Nutt, Buchner, Poitevine and Doyle, 3 in. pots, \$4.00 per 100. R. C., 2 in. 3 in. 1-0 100 100 Fuchsias \$1.00 \$2.00 \$3.00 Heliotropes, Dark .75 2.00 3.00 Salvia Bonifire 1.00 2.00 Vinca, variegated .60 2.00 4.00 Ageratum, Gurney .60 1.50 Ageratum Pauline .60 1.50 Asters, Red, White and Blue 1.00 Verbenas, Purple, Scarlet and White 1.50 Marguerite Carnations 2.00 Lobelia Compacta .60 1.50 Cannas 4.00 Fancy Plants, 60c. per 100; \$5.00 and \$8.00 per 1000. Cash with order. ERNEST HARRIS, DELANSON, N. Y.

HYDRANGEA OTAKSA

6 and 7 in. pots, stocky, full of buds, \$4.00 per doz.; 4 in. \$7.00 per 100. DRACAENA INDIVISA, one year plants from bench, \$2.00 per 100; 2 year old, \$5.00 per 100. SWEET ALYSSUM, 2 in., \$2.00 per 100. GERANIUMS, 3 in. fine sorts, semi-double, \$4.00 per 100. Cash. E. FRYER, Johnstown, Pa.

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Little Beauty, strong thrifty plants, 2 1/2 inch, ready for 4 inch, \$4.00 per 100. Ferns Boston, 5 inch, \$25.00; 4 inch, \$12.00; 3 inch, \$8.00 per 100. Barrowsii, 4 inch, \$15.00 per 100. Adiantum Croweanum, 6 inch, 50c. each. Ficus Elastica, 6 inch, 50c.; 7 inch, 75c. each. English Ivy, 3 inch, \$4.00 per 100.

BAUR FLORAL CO., Erie, Pa.

BEDDING PLANTS

Salvia, 3 in. pots. Per 100 Per 1000 \$3.00 \$25.00 Verbenas, 3 in. pots. 3.00 25.00 Cannas, Charlotte, Henderson, Austria, 3 in. 3.00 3.00 Cannas, 4 in. 5.00 5.00 Double Petunias, 4 in. 6.00 6.00 Salvia Alyssum, double; Phlox Drummond, Verbenas, 2 1/2 in. pots 2.00 10.00 Cannas, Charlotte, Henderson, Austria, 5 in. 2.00 15.00 Patagonium, 5 in. 15.00 15.00 Pansies, strong, in bloom. 1.50 10.00

J. S. BLOOM, Riegelsville, Pa.

HARDY PHLOX

MISS LINGARD, best white summer cut flower, R. C., \$30.00 per 1000. CARNATION ABUNDANCE, R. C., \$40.00 per 1000; from 2 in. pots, \$60.00 per 1000. HYDRANGEA HORTENSIS GRANDIFLORA, R. C., \$50.00 per 1000. Cash with order. L. I. NEFF, PITTSBURG, PA.

OLD FASHIONED Sweet Lavender

fine plants, 2 in. pots, 1 year old, 6c. ASPARAGUS all sold. R. C. HANFORD, Norwalk, Conn.

PANSIES

Fine stocky plants that will bloom in May, 50c. per 100, \$3.00 per 1000. Forget-me-nots in bud and bloom, large plants \$2.00 per 100, \$15.00 per 1000. Wallflowers in bud and bloom, \$3.00 per 100. Verbenas, Stocks, Ageratums Salvias, Cigar Plants out of 2 1/2 inch, \$2.00 per 100, \$15.00 per 1000. Cabbage Plants E. J. Wakefield, \$1.25 per 1000.

J. C. Schmidt, Bristol, Pa.

ALTERNANTHERA

50,000 plants in 2 in. pots. Paronychoidea aurea, nana and versicolor at \$2.00 per 1000; 500 at 1000 rate. No order for less than 500. Ready for delivery May 1.

J. CONDON, Florist, 734 5th AVENUE, BROOKLYN, N. Y.

MAMMOTH VERBENAS, 30 varieties healthy plants from soil, \$1.00 per 100; \$9.00 per 1000. I have raised these Verbenas from seed, and twice transplanted them making fine stocky plants. None but good stock sent out. ASTERS Queen of the Market, white and purple; mixed, Dreer's, Vlek's and Semple's branching, transplanted, all healthy stock, 4c. per 100, \$3.00 per 1000. S. A. PINKSTONE, 20-22 Philip St., UTICA, N. Y.

Dreer's Hardy Perennial Phlox

We are the largest growers of Perennial Phlox in the world. Our collection is unequalled, and we are prepared to furnish the new and rare kinds as well as all the popular and standard varieties in large quantities.

The plants we offer are nearly all strong one-year-old field-grown plants or equally strong divisions, and will make a fine display of flowers this season. This stock is much superior to and must not be confounded with young Winter propagated stock such as is generally sent out in the Spring of the year.

New and Rare Hardy Phlox and Varieties of Special Merit

	Per doz.	100	1000
Aiblon (Tall). A variety which originated with us several years since and which is now offered for the first time. Strong grower, pure white with faint aniline red eye.....	\$1.50	\$10.00	\$30.00
Chateaubriand (Medium). Pure white, with crimson carmine eye	1.25	8.00	70.00
Coccolot (Dwarf). A fine pure scarlet.....	.85	6.00	50.00
Etua (Medium). Crimson red, suffused with fiery red.....	1.25	8.00	70.00
Edmond Rostand (Medium). Reddish violet with large white star-shaped center.....	1.50	10.00	90.00
F. G. von Laaburg (Tall). The finest white in cultivation, pure in color, a strong, vigorous grower.....	2.00	15.00	125.00
H. O. Wijers (Tall). A fine large pure white, with crimson carmine eye.....	1.25	8.00	70.00
Independance (Tall). An excellent large flowering early white....	.85	6.00	60.00
Lamartius (Tall). Very bright magenta, with large white center	1.25	8.00	70.00
Lord Raleigh (Dwarf). Deep reddish violet, distinct.....	.85	6.00	60.00
Le Mahdi (Tall). Deep reddish violet, darker eye.....	1.25	8.00	70.00
Mrs. Jenkins (Tall). An early flowering, pure white, forming an immense panicle, one of the best.....	1.50	10.00	90.00
Stalla's Choice (Tall). A mauve branching late white variety....	.85	6.00	50.00
Selma (Tall). Pale rose mauve with distinct claret red eye....	1.50	10.00	90.00

For complete list of hardy Perennial Plants, see our current Quarterly Wholesale List just issued.

Choice Standard Phloxes

Aquillon (Tall). Bright Tyrian rose.
Andreas Koffer (Medium). An early and continuous flowering pure white.
Bouquet Fleuri (Dwarf). Pure white, with crimson-carmine eye.
Bridesmaid (Tall). White, with large crimson carmine centre.
Baranger (Dwarf). White, suffused with rosy pink.
Baccante (Tall). Tyrian rose.
Colibri (Tall). White, with crimson-carmine centre, late.
Champs Elysee (Medium). Bright rosy magenta, an effective shade.
Cryстал Palace (Tall). Lilac with white markings.
Croas of Honor (Medium). White with a band of reddish violet through the centre of each petal.
Cyclon (Dwarf). White, suffused with lilac.
Eclairneur (Tall). Brilliant rosy magenta, with light halo.
Eugene Danzeviller (Tall). Lilac, shading white toward the edges.
Eclairmonde (Tall). Lilac, washed with white.
Edmond Andrad (Medium). Deep mauve.
Fantome (Tall). Bluish lilac, washed with white.
Graf von Ungerer (Tall). White, suffused with rosy-lilac.
Inspector Feiker (Tall). Purplish mauve, washed with white.
Jeanne d'Arc (Tall). A late flowering pure white.
La Vague (Medium). Pure mauve, with aniline red eye.
La Solal (Medium). Rosy magenta, with light halo.
Moller (Tall). Bright rosy magenta with lighter halo.
Mozart (Tall). White, suffused with salmon.
Miramar (Dwarf). Reddish violet with white markings.
Mme. Marie Kuppenheim (Dwarf). A fine late pure white.
Offenbach (Dwarf). Lilac purple, lighter shadings.
Obergartner Wittig (Medium). Bright magenta, the best of its color.
Pantheon (Tall). Bright carmine-rose.
Pecheur d'Islands (Tall). Crimson-red, suffused with ochraceous red.
P. Bonnetaine (Medium). Deep rosy magenta.
Professor Schlieman (Tall). Pure mauve with crimson-carmine eye.
Roxelans (Tall). Reddish violet with aniline red eye.
Sunshine (Dwarf). Aniline red with lighter halo.
Simplon (Tall). White, with aniline red eye.
Semiramis (Tall). Rosy magenta with lighter centre.
Schlossgarten Reichenau (Dwarf). Solferino, red.
Thebaide (Dwarf). Carmine lake with brighter shadings.
Talma (Dwarf). Rosy magenta, small white eye.
Wm. Muhle (Tall). Carmine-purple, with crimson eye.

Price—Choice Standard Varieties. Strong Plants, 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.



Phlox Subulata

Moss Pinks or Mountain Pinks.

- Alba. White.
- Atropurpura. Purplish rose.
- Lilacina. Light lilac.
- Nelsoni. Pure white.
- Rosa. Bright rose.
- The Bridesmaid. Purplish tinted white with deeper eye.

All the above in strong clumps, 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

Phlox—Various Types

	Per doz.	Per 100	Per 1000
Amoena. Clumps.....	\$0.75	\$6.00	
Divaricata Canadensis. 3-in. pots.....	.75	6.00	

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA

The above prices are only for Florists, or those engaged in the trade.

GERANIUMS

10 Varieties, 3x3 1/2 pots, my selection.....	\$6 00
Eose Geraniums, 2x2 1/2 pots.....	2 50
Alternanthera, red and yellow.....	2 00
Asparagus Plumosus, 2 1/2 pots.....	2 00
Seedlings, May 15.....	1 25

COLEUS

10 Varieties, 2x2 1/2 pots.....	\$2 00
10 Varieties Cannas, from pots, May 1.....	5 00
Vinca Variegata, 2 1/2 pots.....	3 00
Frimrose, Assorted, July 1.....	2 00
Asp. Plumosus Seed, New Crop, per 1000.....	3 00
Petunias from double seed per 100.....	3 00

CYCLAMEN

Splendens Giganteum Hybrids

This strain has no equal or better, in five true colors, including fringed varieties, twice transplanted from flats \$3.00, from 2 1/2-in. pots \$5.00, from 3-in. pots \$7.00 per 100. Satisfaction guaranteed.

Hydrangea Utaksa, Asparagus Sprengeri, Vinca Variegata, Smilax

Strong, clean stock, out of 2 1/2 in., \$2.50 PER 100.

JOS. H. CUNNINGHAM, DELAWARE, O.

DELAWARE, O.

CANNAS

Pres. McKinley, Chas. Henderson, Chicago, Papa, Alphonse Bouvier, Queen Charlotte Egandale, J. D. Cabes, Florence Vaughan, well grown plants from 3-inch pots, \$1.00 per 100.

GERANIUMS

Alphonse Riccard, John Doyle, Castellane, Beauty Poitevine, E. G. Hill, Jean Viaud, Mme. Jaulin, S. A. Nutt, La Favorite, etc., extra well grown plants in bud and bloom from 4-inch pots, \$7.00 per 100.

PAUL MADER, East Stroudsburg, Pa.

John C. Hatcher AMSTERDAM, N. Y.

GERANIUMS—GERANIUMS

READY MAY 1.

In bud and bloom, S. A. Nutt, La Favorite, Beauty de Poitevine, Mary Hill, A. Ricard, John Doyle, Jean Viaud, Marquis de Castellane, and other good varieties, 3/4 in. pots, \$5.00 per 100.

CANNAS, Florence Vaughan, Charles Henderson, Queen Charlotte, Duke and Egandale, 4 in. pots, \$5.00 per 100.

HELIOTROPE, 2 varieties, 3/4 in. pots, \$5.00 per 100.

VINCA, variegated, 3 in. pots, \$3.00 per 100.

VERBENAS, 3 in. pots, \$2.50 per 100.

SINGLE PETUNIAS, large flowering, 3 in. pots, \$2.50 per 100.

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

AGERATUM, dwarf blue, 2 1/2 in. pots, \$2.00 per 100.

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

NASTURTIUMS, in variety, 3 in. pots, \$2.50 per 100.

Cash with order.

100,000 GERANIUMS

Finest stock in the country; most in bud and bloom. Poitevine, Nutt, D. Grant, Buchner, Ricard, Castellane, etc., heavy, 3 in., \$4.00; 4 in., \$5.00; 4 in., extra large, \$6.00 per 100. Mma. Salleri Geraniums 3 in., \$3.00 per 100.

DREER'S superb, single, fringed PETUNIAS, VERBENAS, AGERATUM, LOBELIAS, SALVIAS, COLEUS, yellow, red, fan y large, 2 in., \$1.75 per 100; \$16.00 per 1000; large 3 in., \$2.50 per 100. Heliotrope, 3 in. and 4 in., \$3.00 and \$5.00 per 100. Dracena Indica, strong 5 in., \$2.00; 5 in., \$3.00; 3-4 feet \$4.00 per doz.

CANNAS Black Prince, McKinley, Chas. Henderson, West Virginia, etc., large 3-4 in., \$5.00 per 100. Cash please. All stock guaranteed No. 1 or your money back. Extrae added to help pay expressage. Standard in pots \$1.75 per 1000.

WM. S. HERZOG, Morris Plains, N. J.

COLEUS

All Sizes from Sand and Soil. Verschaffeltii and Golden Bedder \$6.00 per 1000.

Fancy, select very br gtest mixed \$5.00 per 1000, Giant, many kinds, finest of all Coleus \$6.00 per 100.

Low Bushy from soil, strong. Fancy \$1.00. Vers. and G.B. \$1.25 per 100. Alternanthera B. O. 100 50c.

GERANIUMS Young stock transplanted, Br. anti, Buchner, Ricard, Nutt, Doyle, Poitevine, Perkins 100 \$1.25. F. Blanc 6c each.

DANIEL K. HERR, Lancaster Pa.

200,000 PANSIES

SUPERB STRAIN. READY NOW.

Fine, large Fall Transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you have ever handled. \$1.25 per 100; \$10.00 per 1000. Cash with order.

LEONARD COUSINS, Jr. CONCORD JUNCTION, MASS.

PANSIES

Extra large plants, in bud and bloom, large flowering, \$1.00 per 100; \$8.00 per 1000. Also MAMMOTH VERBENAS, 2 1/2 in., \$1.00 per 1000.

HILL TOP GREENHOUSES 15-16 Gray Ave., UTICA, N. Y.

GERANIUMS

ROOTED CUTTINGS

S. A. Nutt, Grant, Buchner, and Perkins, \$10.00 per 1000.

Ricard, Poitevine and Castellane, \$12.00 per 1000

3 in. pot plants, fine stock. S. A. Nutt, Buchner, Grant and Doyle, \$4.00 per 100; \$40.00 per 1000.

Cash with order.

PETER BROWN, Lancaster, Pa.

PANSIES

THE JENNINGS STRAIN.

A few more left; strong plants at \$1 per 100, transplanted, ready to bloom. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies

PLANT CULTURE

PRICE, \$1.00.

The best book for the plant grower.

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CLUB AND SOCIETY DOINGS.

American Carnation Society.

Variety Registered.

By Stanley B. Fillow, Westport, Conn.

"JUNITA" "JUANITA," a bright scarlet, of the largest size and a very strong stem; a very free bloomer and an easy rooter.

ALBERT M. HERR, Secretary.

NEW ENGLAND DAHLIA SOCIETY.—Secretaries of horticultural societies in America would render a great service to the New England Dahlia Society to inform Maurice Fuld, Secretary, 5 Union street, Boston, Mass., of the dates of Fall exhibitions where dahlias are included in the schedule.

THE ELBERON (N. J.) HORTICULTURAL SOCIETY held its regular meeting on April 22, President W. D. Robertson in the chair. Peter Murray, superintendent for Mr. S. R. Guggenheim, read an instructive paper on "Hardy Shrubs."

There was the usual interesting exhibit. Cultural certificates were awarded to Walter Swain for a specimen hydrangea, and to P. Murray for a vase of American Beauty roses.

THE NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY has published its list of active and honorary members, and officers for 1907. The former numbers 82, the latter, 17. The officers are: Alexander Mackenzie, president; H. F. Meyer, vice-president; John F. Johnston, secretary; Ernest J. Brown, treasurer; John W. Everett, corresponding secretary. Executive committee, Thomas Harrison, Albert Johnson, James Duthie, Charles Bertanzel and William Maher.

THE HORTICULTURAL SOCIETY OF NEW YORK.—Dates have been fixed for the International Conference on Plant Hardiness and Acclimatization, which is being organized by the Horticultural Society of New York. The conference will extend over three days. The opening session on September 30 will be held in the rooms of the American Institute; the second day will be devoted to an excursion to some point of interest in the neighborhood, and the final day's session of the conference, on October 2, will be held in the Museum building of the New York Botanical Garden.

The preliminary program is being put into shape and will shortly be issued. A list of about two dozen titles has already been prepared, and a very interesting conference is assured.

The secretary is still open to receive suggestions and promises of communications from horticulturists. Communications should be addressed to the office of the society, room 60, 55 Liberty street, New York City.

LEONARD BARRON, Secretary.

Gladiolus America.

M. Crawford of Shiocton, Wis., has been endeavoring to discover definitely the origin of Gladiolus America, which has recently been the subject of discussion in the trade press. It may be remembered that this variety was introduced under the name of R. H. Warder by Frank Banning, Kinsman, O., who disposed of all the stock to John Lewis Childs, Floral Park, N. Y., for \$4,000. Mr. Childs changed the name to America. It has been generally supposed that Mr. Banning raised it from seed, although he never has said so explicitly. Last Winter, at a meeting of the American Breeders' Association, held in Columbus, O., H. H. Groff, the Canadian specialist, claimed that he originated the America and sent it out ten years ago. Knowing that Wilbur A. Christy, a neighbor of Mr. Banning's, and an experienced grower of the gladiolus, also claimed to be entitled to the credit of originating the America, Mr. Crawford tried to get each of the three men to give their reasons for claiming this honor. Mr. Christy alone complied with this request, and his statement appears in the horticultural department of the Shiocton (Wis.) News of April 26, 1907, from which we make the subjoined extract:

"It is my purpose here to give briefly some known facts, and collateral evidence which led me some years ago to believe that it originated in the seedling-bed of my Mapleshade collection, from seed grown and planted by myself, that it passed out of my hands in a perfectly legitimate way, before its value was made known, and which also led me to make public this claim at the earliest date of its introduction to the public.

"Gladiolus America was propagated and multiplied by Mr. Banning, of Kinsman, subsequent to the year 1900, and sold by him to John Lewis Childs early in 1904, the delivery of stock taking place previous to the planting season of 1905. Mr. Childs changed its name from R. H. Warder to America, and after growing and testing for one season, offered it to the trade in 1906. The fact is apparent that Mr. Childs did not originate it, and it is plainly impossible to reconcile the facts with the supposition that Mr. Banning did so. The only tenable conclusion is that the latter simply propagated a choice sort which in some way came into his possession. To this conclusion all the facts tend, and this it was from stock received from me that he selected it, seems the probable truth."

Mr. Christy then goes on to explain that for five years previous to 1900 Mr. Banning had acted as his salesman for his Mapleshade collection of gladiolus, established twenty years ago; that after March, 1900, Mr. Banning determined to plant a collection on his own account, having then in his possession the entire output of gladiolus bulbs, of all sizes, grown by Mr. Christy the previous year, and that Mr. Banning used these as the basis of his collection, among which were thousands of untested seedlings, one of which, according to Mr. Christy, was the variety R. H. Warder. He also shows how it would have been impossible for Mr. Banning to secure the quantity of stock of the variety he ultimately disposed of within the period when Banning first began growing gladiolus and the date of sale of the variety, and asserts that trustworthy reports have come to him to the effect that Mr. Banning had stated "he did not know where it originated, it just appeared in some stock he had gotten somewhere"; also that a Mr. Allen, grower for Banning, has always said that it was simply "a sort that Banning selected out of their mixed collection for propagation."

Regarding the use of the phrase made in connection with America, that the variety was obtained from "Childs's X Gandavensis," Mr. Christy says: "that whether furnished by Mr. Banning or Mr. Childs or both conjointly, it is, in my opinion, nothing but a 'manufactured pedigree.' It is used without any just grounds, for the reason that neither of these parties is possessed of such knowledge as to the ancestry of the variety, and the characteristics of the variety deny such parentage, but are such as indicate a pure Gandavensis descent."

Coming to Mr. Groff's claim as being the originator of America, Mr. Christy states:

"Now, I may refer briefly to the claim of Mr. Groff, so lately put forth. I corresponded with Mr. Groff some years ago in regard to this question, stating to him my belief, during the St. Louis Exposition. He assented to the validity of my claim, and accepted it as well supported, even proposing the name 'Christy' for the new variety. This attitude he maintained until the present season, when he claimed to recognize it as a variety he had originated and sent out in collections previous to 1896. To this claim I replied at the time, pointing out some weak points in the claim, and asking him to furnish certain items of evidence which to me seemed as necessary to its acceptance. He not only failed to furnish this proof, but even to make any reply, and I heard no more of it until his public claim at Columbus, still unsupported by the proof which I deemed then to be essential, and still consider so, and which is certainly not beyond his power to produce, if in existence. As to his claimed recognition, it seems to me, in the absence of the definite proof referred to, that it may have been a mistake. He will no doubt scout the idea as preposterous, perhaps as a reflection upon his judgment, but all practical growers know that the diversity between two plants of the same variety is often as great as identification is often difficult, and sometimes impossible. I grow varieties which can be most easily distinguished by the characteristics that appear in the flower. Every season I have spikes sent me from growers for identification, and this present season had such sent me by prominent growers to learn if it

were America. If such difficulty exist when the spikes are at hand to be compared, what shall be said of an identification based on a recollection ten years old? To me this seems far less difficult to believe than some other unavoidable corollaries of his proposition. Take this one for instance. If this variety really has been disseminated for ten or twelve years, and largely in the hands of the growers, how is it to be explained that it has remained absolutely unknown? All the growers of this country have for years drawn upon Groff's strains to improve and replenish their stock, and yet after ten or more years of this, none of them have America. Could this be? And is it creditable that a variety of such beauty and prolificacy should fall to be noticed and propagated during all this time. To me, this is far more incredible than the other horn of the dilemma—a mistake in recognition. Some things are harder to believe than others, and I prefer the line of least resistance in a matter of this kind. We all know that this variety would have forced itself into notice—a variety so prolific as this, numerous enough a dozen years ago in the hands of its originator to be sent out promiscuously, would ere this have been numbered by millions, and that without any special care. And when we recollect the fact of its beauty which would have attracted attention anywhere, it is simply incredible that if in the hands of growers for such a period as this, it should not have forged the front somewhere, that it should to-day be unknown. No one has it, no one knows it, no one recognizes it—save Mr. Groff—and it is hailed all over the land as a new, hitherto unknown, glorious addition to the world's list of worthy varieties. Well, this is a mystery at least, but it seems as if this hypothesis creates more difficulties than it explains. So far as known, the stock in America is confined to those who have obtained the supply, directly or indirectly, from the stock grown here and disseminated by Mr. Childs. When this enigma is solved we may turn our attention to the error in judgment, to say the least, so little to be looked for in this quarter, which led Mr. Groff to rate it, and leads him still to consider it as being only a second-rate sort, if indeed so good as this. Does not this excite, or confirm the suspicion that it must have been some similar, but altogether other inferior variety, to which his recollection recurs in its review of the years gone by? Surely none of our present growers, with genuine stock from the introducer, would concur in such an opinion.

"When we consider what was accomplished by Mr. Banning in the propagation of this variety, in a very few years, we are compelled to believe, that had it been in the hands of dealers for so long a period as Mr. Groff states, it would now be the most common variety in cultivation, diffused everywhere and well known. The capabilities of the variety have been amply proved, and the inducement to other growers were equally great, had they but the opportunity. We can not believe that among the numerous growers of the country, one only was capable of seeing the value of the variety, and the only possible conclusion is that other growers did not have it.

"So far nothing has been presented that, in the absence of positive truth, tends to weaken the belief stated in the opening sentences of this article, and while this position is based largely upon probabilities, and must therefore yield to positive testimony, should any such be presented, I will await the actual appearance of such proof before revising my opinion."

ANOTHER DOUBLE RICHARDIA.—John A. Meagher, florist, Ardsley, N. Y., favored this office with a double flowered calla, similar in its formation to the one illustrated on page 550, issue of April 20, 1907. Mr. Meagher informs us that his flower was cut from a tuber that had not previously yielded any blossoms.

NATIONAL COUNCIL OF HORTICULTURE.—The tenth installment of the press service of the Council has just been distributed by Mr. Burdett and includes articles on Deutzias, Beans, Gooseberries, etc.

The "Anglo-American" remountant carnations is the subject of an extended illustrated article in the Revue de L'Hort'ulture Belge et Etrangere, of April 15, 1907. A colored plate of Cardinal, Mrs. T. W. Lawson and Harlowarden is presented with that issue.

The April, 1907, issue of The Dahlia News (Vol. 1, No. 2) is quite "newsy," containing bits of interesting information from European countries, articles on The Dahlia, Its History, Progress, and Culture, and Dahlias from Seed. The New England Dahlia Society will hold a joint exhibition with the Massachusetts Horticultural Society at Boston on September 4 and 5 next.



John Cotterill.

John Cotterill, a prominent florist, died at his residence in the northern part of Toronto, Ont., on Monday morning, April 22, after a few days' illness of pneumonia. Mr. Cotterill was a robust man and his death came as a shock to his many friends who did not know he was sick. He had been in business for a number of years, and a few years ago took a prominent part at the exhibitions held in his home town, showing some fine plants, but for the last two years he had not exhibited and had given his whole attention to the building up of a good business in other lines. The funeral, which took place April 24, was largely attended by his brother florists. He leaves a widow and a large family to mourn his loss.

T. M.

OUR READERS' VIEWS

A Pertinent Inquiry.

Editor Florists' Exchange:

Inasmuch as the twenty-eight truly good Pittsburgers have never been named, we rise to inquire if the present treasurer and prospective president of the S. A. F. O. II. is alluded to in the following stanzas from last Sunday's New York Times:

A golden harp for each of them,
A halo for each pate, Sir;
And angel hands are fast at work
With wings for twenty-eight, Sir.
For they are paragons of good,
Of righteousness the models;
They hit the line of Evil hard—
They are not mollicoddles.

JOHN G. ESLER.

Winter-Flowering Sweet Peas.

Editor Florists' Exchange:

I accepted the invitation of Charles M. Weaver to visit his establishment at Ronks, Pa., to see his so-called sports of sweet peas. I went over in company with W. W. Bidwell, one of the first sweet pea growers, on Saturday, April 20, and we were well repaid for our visit. The establishments of Mr. Weaver and his cousin are quite interesting, especially the new greenhouse which he and his brother have built of concrete, sides as well as the posts, the house being handsome and practical.

Mr. Weaver has several varieties of tomatoes planted in the house. Sim's Comet was the only one then beginning to fruit; the others were just in bloom, planted side by side.

We found what Mr. Weaver calls a sport in sweet peas one exactly resembling the variety which I have registered as Mrs. Charles H. Totty. Neither Mr. Bidwell nor myself could see any difference between these two kinds.

ANT. C. ZVOLANEK.

Editor Florists' Exchange:

In response to Mr. Engelmann's letter appearing in the Horticultural Advertiser of England of April 10, wherein Mr. Engelmann seems to have become excited over my communication in 'The Florists' Exchange' (almost an exact copy of which was sent to the Horticultural Advertiser, but not published), in regard to my statement that sweet peas never sport, I repeat that statement and will hold to my opinion until some one can convince me to the contrary.

Mr. Engelmann says he has "sports" of Captain of the Blues, Dorothy Eckford, Lady Grisel Hamilton and Miss Willmott, but at the same time he states that they are identical with my varieties, seeds of which he obtained from me. These four early varieties Mr. Engelmann states are his "sports," but over fifty others of mine have been grown for many years, exhibited and certificated several times, and have been grown in mixture since 1904 by florists all over the United States as well as in Europe, and for two years past in separate colors. The same trustworthy growers have had seeds from me on free trial, and in addition I have sold during the past year to over 1,100 florists in different countries, fifty of my varieties in mixture. It is my custom to send my new kinds for trial for several years before putting them on the market, because I am a cut-flower grower and sell seed exclusively to growers, and I never like to disappoint any of my 3,000 customers.

I do not know how long Mr. Engelmann has had his "sports," but it cannot be long. The first time I ever heard of them was over a year ago, when Mr. W. Adee Burpee of Philadelphia paid me a visit to see my different varieties of sweet peas. He noticed one whole bench of Christmas Captain, and asked me if I knew Mr. Engelmann. I told him that I had done some business with that gentleman and had sent him over 40 varieties of my sweet peas for trial. Mr. Burpee then told me that Mr. Engelmann had offered to sell him the early flowering Captain of the Blues, and he (Mr. Burpee) was glad that he had not bought it after seeing mine. My Christmas Captain has been grown over nine years; it was shown at the New York Florists' Club the first year after I obtained the variety, which is a seedling from Christmas Pink × Captain of the Blues.

Mr. Engelmann has knocked the bottom out of his argument completely when he offers his varieties as new after having grown mine for two years and stating that they are the same as his.

I do not claim positively that Mr. Engelmann is trying to sell my hybrids; he may have obtained several varieties from the common sweet peas, because I myself have seen one single, early flowering plant in a whole house of common sweet peas, but that was not by any means "a sport," which I will shortly explain. The grower purchased seed which had probably been raised in California, where hundreds of acres are devoted to the cultivation of sweet peas for seed and a great many varieties of the common and early are grown side by side. There is, therefore, a chance of the pollen being mixed in the field by insects, which might bring about the same results as hand hybridization.

Mr. Engelmann refers to my article in Möller's Deutsche Gärtner-Zeitung of 1892. I do not have a copy of that journal of that date before me, but I have the original copy of my letter sent to it, wherein I plainly stated that "I discovered Florence Denzer in a bunch of sweet peas which had been crossed by the Christmas."

In another paper Mr. Engelmann claims that the American varieties are much stronger and larger than the European sorts. Now he says he does not see much difference between Mount Blanc and Florence Denzer. This was a puzzle to me until a short time ago, and I should like to give the readers of this paper an idea of how the resemblance might have resulted. As I mentioned, last year Mr. Burpee paid me a visit. At that time he saw half of a bench planted to my Watchung, a black seeded white, every plant being from eight to ten feet high and full of flowers. This variety I had sent for trial to several florists two years before. Mr. Burpee informed me that several weeks previous he had put on the market a black seeded dwarf, growing early, white variety, which he had named Earliest White. At the same time he pointed to my Watchung and said that it was the same as his, though the latter was not so tall or as strong a grower. I purchased seed of the Earliest White and planted it side by side with that of Watchung to discover the difference, if any, between the two. Earliest White began to bloom when eighteen inches high; Watchung seven days later, being four feet high. Earliest White reached the height of four feet; Watchung nine feet. These two varieties are certainly different; but I would state that when Mr. Burpee selects, adding pollen of the stronger growing sweet peas, within three years his variety will be greatly improved and no marked difference between Watchung and Earliest White will then be observed. Every one of my Winter-flowering sweet peas which I have obtained by crossing with the common kinds in the first year of blooming, were of dwarf growing habit, seldom over three feet high, and only by crossing and re-crossing did they grow taller and stronger. This shows that Earliest White is not a "sport," but the result of a cross between some other common kind. A sport of any flower or plant can never be increased in size, and very seldom does a plant sport fully at once, the variation appearing in a single flower or a branch. I claim that if Mr. Engelmann's "sports" were found among the common sweet peas they are probably not over four feet in height, and had been crossed on the seed farm. If they are strong and tall growing, they have been obtained only from my stray seeds. I once more assert that sweet peas do not sport.

In regard to the vetch theory: I am not a theorist, believing only in praxis. I claim that any of my sweet peas can be bred to the vetch in a few years by crossing and from the vetch to sweet peas. That they have vetch blood in them is shown by the fact that they like much more moisture, soil, and a cooler temperature than the common sweet peas, and as Mr. Wallace of Victoria, B. C., says, the tendrils are similar to those of the vetch.

I have used two kinds of vetch for crossing, both of which grow in Central Europe in mountainous localities and in a cool climate. One is of a light brick color, the other blue and purple, similar to that of Captain of the Blues sweet pea. Mr. Engelmann could demonstrate that my sweet peas have vetch blood in them by the following: Take one white sweet pea of the old flowering kinds and cross it with any of my early white varieties; the result obtained from this cross will probably be several white, early flowering plants, and several late flowering ones; but the flowers of the latter will very seldom be white as they would be in the case of the early ones, but most of the time blue or red, just as seen in the vetch flowers. The same results will be obtained from crosses made with Blanche Ferry and Christmas. I claim that my sweet peas, if not re-selected and re-crossed, will revert to the old varieties, but not, as Mr. Engelmann says, to the vetch. This is very easily understood. The common varieties are much stronger growers than the early ones, besides they are more extensively cultivated and are being constantly hybridized.

ANT. C. ZVOLANEK.

Bound Brook, N. J.

Editor Florists' Exchange:

I was much interested in the remarks made by Ant. Zvolanek, respecting his early flowering sweet peas, but I must express amazement when he states that he has never yet seen sports among his sweet peas. Among the ordinary kinds, sporting is quite common, and it is safe to say that a great many varieties came into being without the aid of the hybridist.

The now famous Countess Spencer has yielded a great number of breaks, and Gladys Unwin, although usually considered quite fixed, has sported on more than one occasion. These two varieties were at first supposed to be sports from Prima Donna, but the former has been declared to be the result of several crosses. There are, however, many still who think Countess Spencer is a chance seedling. At any rate, this variety has given a number of color sports, many of which retain the wavy appearance. Helen Lewis is one of them.

John Ingman and Mrs. H. Sykes are said to be from crosses, but nevertheless their counterparts have been found among Countess Spencer. Enchantress and Cadillac Rose are deep pink breaks from Countess, as is Mrs. Chas. Pester the lavender sort. George Herbert is said to be a sport; yet it closely resembles John Ingman. Mrs. Chas. Pester also has sported, the new Mrs. Mender being from it. Paradise is undoubtedly a break from Countess Spencer or one of its progeny. Eric Hinton, a variety akin to Countess, and sent out in the same year from quite a different source, sported a beautiful lavender last year, and I have reason to think it appeared in America as well as here.

Then again, there is the case of Dorothy Eckford, which broke from Miss Willmott; and this year are here Mrs. Collier, which is a cream sport from Dorothy Eckford, and Miss Willmott also. Strange to say two other sorts now being sent out are akin to Mrs. Collier, although said to be raised from crosses.

I might cite many such cases, for I have known Mrs. Walter Wright to sport a magenta, the seeds of which have varied, when they produced flowers. Last year the crimson King Edward gave us a plum sport.

Not a few of the American varieties are sports from older sorts. Cupids and Bush are natural breaks. Earliest of All is a break from Blanche Ferry, and Earliest White is a break from Earliest of All.

This brings us to the subject of early flowering varieties which Mr. Zvolanek deals so largely with. In the Sweet Pea Annual, Mr. Engelmann states that his first early break came out of Captain of the Blues, other varieties following, while by crossing he has raised still more.

The Telemly (Algerian) strain, first came from the American Earliest of All. By means of crossing and natural sports, the Rev. Arkwright has secured a number of early sorts, which differ from ordinary kinds, not only in earliness of flowering but also in growth, the foliage being narrower, and the stems more woody. These facts will explain the scepticism among home raisers respecting Mr. Zvolanek's "vetch" cross. I cannot quite fall in with the statement respecting the waiting for sports; these come all unexpectedly, and one can never know when they are coming.

From Mr. Zvolanek's remarks, we are led to think that it is possible to get nearly any color to order. This is on a par with the statement made here, that by certain culture sweet peas can be made to sport any color; but my reply is, let me see it done. Let Mr. Zvolanek or anyone else produce a pure yellow, or a pure salvia-colored blue, or a pure scarlet and we will believe.

From what I have seen of sweet pea crossing one can never tell what will result. The most pronounced opposite will often result. One would not expect a lavender from a pink and white cross, nor a plum color from a cream and mauve. I have known instances where a pod of seed from a special cross has given different colors from each seed. Further, these seedlings again varied the following year.

Under the circumstances I cannot understand how Mr. Zvolanek can allow his seedlings to leave his hands so quickly. It is easy enough to raise and send out a variety as he states, especially when early sorts are being dealt with, but no great demand could be met. We ourselves could make a cross this season, between two later flowering sorts, and bloom them in time for the Temple Show in May, 1908, and send out seed in the Spring of 1909, or the Autumn of 1908 for that matter. But we couldn't guarantee the seed to come true, as it takes from three to six years to thoroughly fix a variety, and it may even break after a dozen years.

Your London correspondent does not quite grip the meaning of the audit lists of the National Sweet Pea Society. These lists indicate the popularity of any certain variety. Standard sorts only get placed on their merits. New sorts, of course, frequently get well placed because there are special classes for such varieties. Growers do not, however, rely upon the audit as judgment of the true value of novelties. Mr. Hemsley's remarks regarding confining certain varieties to the large classes are applicable, one in the special classification classes.

There are now 20 classified colors, and under each heading are grouped the best of the varieties such as pink, crimson, blue, white, etc. The competitor must show 15 out of the 20 colors. The object of the classification class is to show the leading variety in each color. New seedlings may be shown in most other large classes, and there is also a special seedling class.

New varieties cannot expect to find their proper place until the second or third year. They are generally too expensive for most people the first season, and not infrequently they do not attain their full vigor until the second or third year. One of our best raiser's novelties never show true form until they have been to California and back again to be re-grown here.

Respecting Paradise, this variety was too near alike several others for the judges to give it a hasty award. It is closely like Cadillac Rose, sent out last year. Olive Bolton is also closely akin to it. Paradise, to my mind, is different to the Unwin type, being a true Spencer in form.

Kent, Eng.

T. A. WESTON.

Winter-Flowering Sweet Peas.

Editor Florists' Exchange:

The question of the origin of these useful flowers has aroused an interest among the seed trade in this country. You have already published some of the correspondence which has appeared in the Horticultural Advertiser; the following additional items of information may be of interest to some of your readers:

Some few years back a collection of so-called Algerian sweet peas was exhibited quite early in the year at the Royal Horticultural Society's meetings in London. A short article on the origin and merits of the strain, from the Rev. Edwyn Arkwright, the originator, appears in the Sweet Pea Annual for 1907, in which he states that "the first of these early sweet peas was a sport from Blanche Ferry." I therefore wrote to Mr. Arkwright asking him if the seed of Blanche Ferry had been obtained by him from America. To this he replied under date March 26 from Télemly, Algeria, as follows:

"Though I did not myself get Blanche Ferry from America. I remember that the gardener who gave me the first seeds, called it an early American sweet pea, and it blossomed in March and was so well known here that I have heard it called the 'Arab' sweet pea, though I always knew that to be a mistake. There has never been a sport like mine in other gardens and it is odd that they should all have come to me.

"Now that I have been selling the Télemly sweet peas for the benefit of our Cottage Hospital at four shillings per 100 seeds, it is pretty common in all the English gardens about, but I still often see Blanche Ferry alone in March in French gardens.

"I have failed entirely with artificial hybridizing; the result is that I fail to get the English colors that I want, and the plant loses its own early properties whichever way I hybridize.

"I enclose a few leaves and petals which may interest you in showing what there may be of difference between them and the English peas."

A careful examination of Mr. Arkwright's flowers (some of which I enclose, Mr. Editor, for your inspection) shows them to be of large size, with three flowers on a stem, but all with notched standard of the parent variety.

In Mr. Zvolanek's "Bit of History" which appeared in The Florists' Exchange of July 28, 1906, he stated that "The first seedling of value which appeared was obtained from Blanche Ferry and came of the same color." I note that in the plate accompanying the article only two of the six varieties shown have notched standards.

In the correspondence which has appeared in the Horticultural Advertiser between Mr. Engelmann and Mr. Zvolanek, the latter claims to have furnished Mr. Engelmann with the seed which has produced the strain now offered by Mr. Engelmann as the product of a "habit sport" from Captain of the Blues. More will doubtless be heard from both parties on this subject, but it is a remarkable fact that the blooms which have been exhibited by Mr. Engelmann in London during the present Winter are identical in appearance with the strain of Mr. Zvolanek as illustrated in The Florists' Exchange.

Assuming then that all three strains are sports from Blanche Ferry it is not very strange that they should appear in three countries so widely separated as Africa, America and England, when we remember that the Cupid strain appeared at about the same time, both in Europe and America.

If I remember rightly Peter Henderson & Company claimed that Emily Henderson, the earliest white known at that time, also made its appearance in a field of Blanche Ferry. Ernst Benary in offering Mont Blanc in his catalogue for 1900-01 stated: "Mont Blanc made its appearance some three years ago in a field of Earliest Blanche Ferry." Both these varieties also possess the parental notch; having seen the complete comparative tests made by Mr. Benary in 1900 I can testify that in habit the two varieties are quite distinct.

The question then arises, are we to conclude that Jas. Justice in 1754 and Henry Eckford in 1898 were right in claiming that the Painted Lady, from which Blanche Ferry certainly sprung, is the parent variety? Or as the modern progeny of the charming dame is admittedly more precocious and graceful in form than the undoubted descendants of Cupani's Sicilian purple, is there not after all a possibility that it is of tropical origin?

It will be remembered that when Emily Henderson was first sent out a goodly number of colored varieties were found in it; but later, as a result of very careful roguing, the character became fixed. Is it not possible that if the colored varieties had been perpetuated an early flowering strain such as we now possess, might have been developed?

As a closing remark I have pleasure in stating that the Rev. E. Arkwright has just been awarded the gold medal of the Algerian Société Horticole for the introduction of this "new Winter-flowering plant."

The enclosed copy of a 200-year-old portrait of John Ray, one of the earliest authors to mention the sweet pea, may be of interest.

S. B. DICKS.

London, Eng., April 13, 1907.

Since writing on the 13th inst., I have received The Florists' Exchange for April 6, and have read Mr. Zvolanek's letter with very great interest. He is one of the fortunate few who have lived to see his labors of a quarter of a century crowned with success.

I have written to him for the proffered samples and hope to be able to test them by the side of the Télemly strain.

Some plants of the Télemly strain are now in bloom at Kew Gardens. Mr. Engelmann, who has inspected them, is of opinion that they are identical with his own and those of Mr. Zvolanek.

The editor of the Gardeners' Chronicle, Dr. Masters F. R. S., fairly expresses the prevailing opinion respecting this new class. He says: "As a member of the general public I do not care for them as I consider auriculas, daffodils and other Spring flowers are preferable at this time of year; but from the trader's standpoint I think them valuable and useful."

S. B. DICKS.

Our London Letter.

BY A. HEMSLEY.

RAMBLER ROSES.—These are now seen in grand condition. It was the first week in April that I noted really good plants in the market. The Crimson Rambler was the first to make its appearance; some plants were



John Ray, M. A., F. R. S.

Author of Historia Plantarum. Born at Black Notley, Essex, Eng., November 29, 1627. Died there, 1723. One of the earliest authors to mention the Sweet Pea.

not so well flowered, but best specimens were making higher prices than they did when first introduced. A great many are now grown erect instead of being twisted round sticks. Prices vary, from five shillings upwards. I find Messrs. Rochford & Sons have made as much as two guineas for extra fine specimens. Lady Gay is likely to become a general favorite. Messrs. Cripps & Son, Tunbridge Wells, had this variety in fine condition at the Royal Horticultural Society's meeting on April 17. I have also seen it good in the market; and I find that a little later on several growers will have it in flower. Wedding Bells was well shown by Messrs. F. Cant & Company, Colchester; the specimens were about 6 feet high. The large clusters of bloom were produced on drooping branches on nearly the whole length of the stems. It is evidently one of the best. The best white is Waltham Bride. This variety was shown in splendid condition by the introducers, Messrs. W. Paul & Son, Waltham Cross, on April 16—specimens, 8 to 9 feet high, with long drooping branches loaded with bloom, and the foliage was also remarkably good. Nymph, a single white, was also pretty, but I doubt if this sort will be so much appreciated by floral decorators. Philadelphia, as I have seen it this season, though good in color, does not seem quite free enough, yet we may see it better a little later on. I find growers still keep to Dorothy Perkins; it is remarkably free, and

though not quite so deep in color as Lady Gay some appreciate the soft shade. Hiawatha should be available for decorators this season, but I find most growers have cut up their plants for propagating from. Another season will see it in large quantities, for it roots freely from the base of every joint and can be readily increased from cuttings.

Coming to the question of propagating, it is remarkable that the Crimson Rambler, though such a vigorous grower, does not succeed on the briar (Rosa canina), but does splendidly on the manetti stock. With all these useful Ramblers, success depends chiefly on the early treatment. Early growth, well ripened in the Autumn, is essential; and in starting to force them excessive heat should be avoided, especially in dull weather. For early flowering much depends on the ripening off in the Autumn; they start naturally without much warmth, after they have had a rest. The most important point is to avoid the temperature falling low when we get a change in the weather. It is the cause of failure with other roses. A check through fall of temperature will be followed by failure. Madame Levassieur we get all the year through; with this variety no ripening is necessary, for all the bloom is produced from shoots thrown up from the base. Yet with this, strong plants, which have been grown, well exposed, in good ground for one season, are the best for flowering in pots; or started in pots they should be well exposed in the early stages. Whether a bush or a climber, any rose must have a well-matured base if it is to flower satisfactorily.

We are getting splendid roses in the market now (early in April). The chief varieties are, in red, Captain Hayward, Ulrich Brunner, Liberty (this is very fine from several growers), and Richmond. The last named has made higher prices than any other rose this season. In white, the Bride, Kaiserin Augusta Victoria and Frau Karl Druschki take the lead, but the old favorite Niphetos is still extensively grown. In pink we have no better tea varieties than Catherine Mermet and Bridesmaid. These vary in color. From some growers we get the Mermet as deep in color as others have Bridesmaid. Mrs. John Laing, Mrs. Sharman-Crawford and La France are favorites. Souvenir du President Carnot is fine just now, but we get only a short crop of it. Joseph Hill, a new hybrid tea, from W. C. Wallace, Eaton Bay, Dunstable, appears to be a promising variety, and was given an award of merit by the R. H. Society on April 16. Messrs. W. Paul & Son exhibited Warrior in grand form, perfect foliage and bright flowers standing up without any support. It is not quite what is wanted for market, but makes a grand pot rose.

CARNATIONS.—Messrs. Cutbush & Sons are growing most of the American varieties. They recently exhibited Robert Craig in much finer condition than we have ever before seen it, certainly the best deep scarlet we have. Crimson Glow was also well shown. This appears to be an improvement on Harlowarden and the other deep crimson varieties. White Perfection gains in favor. Among the more recent exhibitors of the American varieties are Messrs. Veitch & Sons, Chelsea; recently they staged a remarkably fine lot of blooms. Britannia and Mrs. H. Burnett have fully sustained their character throughout the Winter; the last named seems to improve. Mr. Dutton's improved White Lawson has been well shown. Fiancée, though rather inclined to burst the calyx, is certainly a fine carnation. Eachentress will want something good to displace it; several growers now have it in grand condition.

The March show of the Winter Flowering Carnation Society was a great success. The Guernsey growers exhibited well.

In the market prices have fallen a little this season, owing to excessive supplies. The demand for best quality blooms is on the increase.

DAFFODILS.—Our markets have been overloaded with these this season, and to make a profit it is necessary to select the very best varieties. Already we are getting new sorts. In the large yellow self Trumpet varieties, Messrs. W. T. Ware, Ltd., Bath, are to the front with Queen of the West, an improved form of Golden Spur, of a very deep yellow and of great size. This variety gained an award of merit from the R. H. Society recently, and the same award was given to Mrs. F. W. Currey, Lisimore, Ireland, for Atalanta, a pure white of medium size. King Alfred, King's Norton, Duke of Bedford and Weardale Perfection are large sorts which will be worth looking after for florists' work. Some fine new things are seen among the Barri and the incomparabilis types. I may add that Peter Barr is the best white Trumpet variety yet seen this season. Of sorts grown for market at present Emperor, Golden Spur, Maximus, Henry Irving, Sir Watkin, Horsfield, Victorie, obvallaris (the earliest), and for later Barri conspicuous comes in. Princess is grown to some extent, and Princeps is largely planted owing to its freedom. The great difficulty with daffodils is that varieties are too numerous. At the last R. H. S. meeting Messrs. W. Bull & Sons, Chelsea, put up a number of very fine yellow Trumpet varieties, and they were so nearly alike that one would require to see them growing to decide which were the best. They were all good.

Calanthe Veitchii.

This is an excellent orchid that is popular everywhere. Gardeners all the world over strive to produce it at perfection, and there are some notable gardens in England where calanthes generally, and Veitchii in particular, form an especial feature every year in February and March. The houseful of flowering plants here shown were grown at Fulsham Hall, in Cheshire, where Alex. Traill is the successful head gardener. His method of cultivation may not be equally adaptable for the U. S. A., but to allow your orchidist readers to compare for themselves, I quote from Mr. Traill's own writing:

"The culture is simple. A melon house suits them well. Pot in February before they start into growth; put four of the largest bulbs into an 8-inch pot, or four medium-sized into a 7-inch pot, or four of the smallest into a 6-inch pot. These small bulbs give a useful small spray. The compost I give them is equal parts loam, peat, sphagnum moss, half-decayed leaves (beech or oak), and crock as for ordinary plants. When many crocks are used this drains the material too much and makes frequent watering necessary. Of course, when the plants begin to lose their leaves they do not like so much moisture, but they don't like to get dry altogether till their foliage dies, and when many crocks are used there is a tendency to dry up too quickly.

"The watering ought to be carefully done to avoid saturation, which proves so often fatal to them. When in flower the top ventilators should be up an inch or two night and day, so that no condensation of moisture occurs to cause the flowers to decay. Our average bulbs are 8 inches in length, and the average spike 2 to 3 feet, with thirty to forty flowers. An extra large bulb has spikes 4 feet long, bearing about 50 flowers. The beautiful pink, arching racemes are greatly admired and most useful for many forms of decoration in the home. They last well on the plants, for quite eight weeks. The picture gives a good representation, and shows some of the large spikes, of which there are about 200 on the plants." J. H. D.

Window Boxes.

The filling of window boxes and tubs forms a considerable part of the retail florist's work every year, and there is every reason to believe that there is an increase in the demand for that kind of ornamentation equal to that of any other form. When an order comes in for window boxes there is usually no choice with the florist but to fill them according to the wishes of the customer. There are occasions, however, when the man who gets the order is not handicapped by being tied down to certain kinds of material at a price barely sufficient to make the supplying of so many feet of boxes profitable; then when the matter is left much to the discretion of the florist there is an opportunity to break away from the common run of window boxes with the result that something original and effective is turned out.

It is very often the case that plants in window boxes suffer extreme neglect and for that reason plants that are able to successfully stand such hardship should be chosen in preference to subjects less hardy although more effective. It seldom happens that boxes are refilled during the season, then it should be borne in mind that a continuation of bloom is necessary and that the plants in the boxes should be capable of fulfilling that requirement to the end of the season, for bright cheery effect. There are few things that surpass geraniums for the main part of the box, with variegated vincas for trailing or hanging downward. Choice of colors depends much on the architectural features predominating in the building in which the boxes are to be placed, more especially the color of the paint, stone or brick. Some customers may desire flowers to brighten up a dull, sombre exterior of a dwelling or other building, others again may be very particular that the colors of the flowers will blend harmoniously with those of the buildings. And when an opinion either way is expressed it will be good business policy for the dealer to pay heed to it.

The styles of boxes, both in material and design, vary fully as much as the stocks with which they are filled. For buildings of costly material and elaborate ornamental work in stone or other material very fancy boxes are sometimes used, while for suburban and country dwellings common wooden boxes painted the color of the woodwork of the buildings, or any desired color, answer the purpose fully as well as more costly contrivances.

There are besides geraniums numerous kinds of plants suitable for filling window boxes. Hydrangeas do fairly well, but they are not suitable in many cases, because they are not long enough in flower. But sometimes it is very desirable to have plants of large dimensions in certain places, and then it may happen that hydrangeas will fill the bill better than anything else. Abutilons are very varied in character both as regards stature and color of foliage as well as color of flower; many of the varieties are well adapted for window boxes. *Dracæna indivisa* is very suitable for window boxes, not only because of its decorative habit, but also because it stands fully as well as less desirable plants. A very good effect may be produced if *Dracæna indivisa* is used

as isolated specimens, filling in with geraniums or some other flowering plants. For tall effects in exposed places cannas are very serviceable and effective; and when there is the advantage of shelter and a slight shade kentias and phoenix may be used with pleasing effect. In bright sunny places crotons are very envying by the bright tints of their foliage. Other plants adapted for window boxes are begonias, marguerites, salvias, alyssum, fuchsias, nasturtiums, petunias, lobelias, ageratums, centaureas, English ivy, German ivy, maurandias, coleus and alysanthes.

In order to secure success with plants in window boxes good soil must be provided for the plants to live in, and in addition to that there ought to be some good bone meal or any other good fertilizer mixed therewith. It is also just as important that the plants should be carefully watered throughout the season. M.

Notes on New Freesias.

FREESIA TUBERGENI.—Under this name the bulb-growing establishment of C. G. Van Tubergen, Jr., Haarlem, Holland, sent out last year the first commercial hybrids produced between the common florist's freesia, *F. refracta* alba and *F. Armstrongi*, the new pink-colored species from South Africa. Corms obtained last August from the growers bloomed very freely in the Rural Grounds greenhouse during February and March. The typical variety sold as Tubergeni has finely-formed blooms in racemes of five to 12, of a pretty shade of rosy lilac or mauve, lighter than that

YELLOW KINDS COMING.—Messrs. Van Tubergen inform us that some promising yellow varieties also resulted from their breeding experiments with *Freesia Armstrongi*, which they soon hope to introduce. An attractive buff-colored variety has been exhibited and introduced, under the name of *Freesia Chapman*, by Herbert Chapman, Rye, England, who raised it from the old orange-colored species or variety known as *F. aurea*. It is said to possess more fragrance, and is much better adapted to culture than its parent. *F. Chapmani* received an award of merit at a recent meeting of the Royal Horticultural Society of London. With rose, pink, purple and various yellow shades at hand, the freesia promises in the near future much diversity of character.—Rural New Yorker.

Usefulness of the Ostrich Fern.

The ostrich fern, *Struthiopteris germanica*, to use its old name, is an extremely useful one, because of the rambling character of its underground rhizomes. These extend long distances from the parent plant, the distance increasing year by year, as the point of each rhizome produces a plant. Its common name comes from the appearance of its barren fronds; these are arranged around in a circle, giving a bird's nest appearance of large size to a plant, and these fronds grow to a height of from 2 to 2½ feet. Fertile fronds are entirely separate. These come from the center of the plant, are about a foot in height, stiff, and brown when



House of *Calanthe Veitchii* as Grown in England

of *F. Armstrongi*. The throat is yellow and there is an occasional orange blotch in the throat. The flowers are nearly as large as good samples of *refracta*, and there is much of the pleasing fragrance found in the latter. The blooms of *F. Armstrongi* itself are small and scentless, but very bright and freely produced. This species naturally blooms about a month later than *refracta*, while the hybrid Tubergeni comes in between when all are planted at the same time.

Samples of a very superior unnamed hybrid of the same parentage raised by the Messrs. Tubergen were secured at the same time. One moderate-sized corm threw up two spikes producing in all 116 flowers, the longest raceme opening 14 large and perfect blooms. They are carried very upright, and somewhat resemble in shade of color and slenderness of tube the old and highly-popular single *Petunia*, Countess of Ellesmere. They are, however, somewhat smaller in size than the best white *refractas*, and have yellow throats. There is considerable fragrance. The foliage is good, and the effect, when in bloom, very cheerful. We imagine this new variety, which will probably be sent out the coming season, may find favor with florists. The color is a sufficiently pure shade of pink to bear artificial lighting and to associate with white and yellow in other flowers, while the vigor of growth and freedom of bloom leave little to be desired. Our own experience in crossing *F. Armstrongi* with *refracta* and also with *F. Leichtlini* does not reproduce the Tubergeni varieties, but rather tends to the production of purple, lavender and odd shades of bronze and orange, usually with considerable fragrance. These newcomers are attractive as novelties, but whether they possess commercial interest remains to be seen.

ripe; and unlike the barren ones, they persist all winter. This fern is just the thing to use where one has a piece of ground he wishes to become a thicket of fern, for the plant will quickly form a large mass, it spreads so fast. J. M.

JASMINUMS FOR POT CULTURE.—Since the beautiful plants of *Jasminum primulinum* which we saw early last year, growers have been giving attention to other sorts. *J. nudiflorum* is one of the best plants we have for town gardens, and it also makes an effective subject when grown for decorations as a pot plant. It was prominent at the last meeting of the Royal Horticultural Society, but I have seen better specimens than those shown on that occasion. It is a plant which requires but little cultural skill. Potted into the size pots they are to be flowered in, they can be plunged into the ground and remain until they have made plants of sufficient size for use, and they then only require to be under cover and kept from bad weather, and there will sure to be a profusion of bloom. Years ago we used to get *Jasminum grandiflorum flore pleno* in nice plants, but I have not seen it so good of late years. I believe they were imported from Belgium. They were grafted on stems about a foot high, and if not very showy were much appreciated for their beautiful scent. *J. primulinum*, though not shown in such grand plants as we saw early last year, has been taken up by several growers and shown in well-flowered plants of medium size. I find that it is only the plants with well matured growth that are satisfactory for flowering. With the different style of decorations now in fashion, any tall plants that flower well are appreciated, and the jasminums should be worth a trial.—Metropolitan, in Horticultural Advertiser, Eng.

FOR THE RETAILER

Window Boxes.

The filling of window boxes and the general beautifying of houses at this season forms no mean part of the New York florists' business, and those who do this class of work usually have all they can handle. New Yorkers are gradually getting educated to the window box, or window garden, as it is sometimes called; and one can observe a gradual increase of these every year. There is no doubt that the European trip has been in a large measure responsible for this. London might almost be called the home of the window box; the west end is ablaze with flowers at this season, and the custom is by no means confined to private residences. Victoria street, from the station to Westminster Abbey, is usually one long continuous line of beautiful window boxes, and many of the principal business thoroughfares are the same in this respect, all vying with each other in trying to make the most attractive display.

London, however, has the advantage of us in the matter of climatic conditions. The extreme heat experienced in this city is not at all conducive to luxuriant growth especially where plants are confined to the narrow limits of a wooden box. But they seem to revel under like conditions in London's comparatively cool climate.

The European florists do not confine themselves to geraniums and marguerites; every variety of bedding plant is brought into use. Zonal geraniums, pelargoniums, marguerites, coleus and fuchsias form the back-

I think the most successful filling for Summer is a mixture of foliage plants; they will, if watered, at least live and perhaps grow, and invariably look well. Palms, dracaenas, crotons and *Anthericum vittatum* are among the best to use. Very good and lasting effects can be obtained with *Aucuba japonica*, *Ficus elastica*, and *Nephrolepis bostoniensis*. Ivies are the most successful as vines and grow rapidly during the Summer; even in hot weather.

In addition to window boxes there is a large demand for ornamental shrubs in tubs. *Buxus*, *Lauris nobilis*, standard and pyramidal, are in great demand for hotels and private residences, and many architects call for this style of ornamentation as a finish to buildings. Such plants undoubtedly lend a style and finish that can be obtained in no other way.

My reference to window boxes, although pessimistic as far as New York is concerned, in no wise refers to the United States as a whole. A trip to Bar Harbor, Me., during the season would be a revelation to any one who has never been there. Its close proximity to the Arctic stream creates a climate which is almost identical with that found in England, with the result that every plant does remarkably well there. Their window boxes are wonderful, being a mass of flower throughout the Summer. *Nasturtiums* planted along the tops of walls are a feature of the place. Doubtless similar results are obtained in many different localities throughout the United States.

Chrysanthemums in April.

A Broadway florist has been displaying chrysanthemums during the past week; they are white and very good in quality, but they impress one as being superfluous at this season of the year. We are all glad to greet such heralds of Spring as arbutus and apple blossoms, but everyone associates chrysanthemums with falling leaves, not budding trees.

D. RAYBUN.

The Force of Example.

The premises of florists are favorite places for the general public to visit when leisure permits them, and it is safe to say that few noteworthy features of those premises escape the attention of a goodly proportion of the visitors. It very often happens that an effective group of plants strikes some visitor so forcibly that he or she is tempted to make inquiries regarding the cost of its reproduction, resulting in business being done in short order. In order to still further induce the public to visit their places it would be well for florists and growers for the retail trade to make their grounds as inviting as the expenditure of a reasonable amount of money will permit, resting assured that the chances are more than ten to one that they will be well repaid in the business such an expenditure will bring ultimately.

Window boxes and tubs tastefully filled with plants placed alluringly will attract the attention of passersby. Plants for these baiting boxes and tubs may be hardened immediately in order to be of the intended service for this season. Over these boxes and tubs or close to them, neatly designed placards with the prices inscribed would be a help in case some timid ones might not venture to make inquiries fearing their means would not permit the gratification of their desires. These are only a few of the ways by which the force of example may be made beneficial to the grower and dealer. B.

MISTLETOE.—In the protest of F. B. Vandegriff & Company against the assessment of duty by the collector of customs at the port of Philadelphia, Pa., mistletoe stems, with the natural berries attached, are held by the Board of General Appraisers to be free of duty as a crude vegetable substance under paragraph 617, tariff act of 1897.

CYCAS AND SAGO LEAVES, dyed and prepared, are held by the Board of General Appraisers to have been properly classified under paragraph 425, tariff act of 1897, as ornamental leaves, etc.

Increasing Magnolia Hypoleuca.

Magnolia hypoleuca has a resemblance to our native one, *M. tripetala*, but it is a rather handsome species. Its style of growth is more like that of *tripetala* than any other. Its leaves are of thicker substance, however, and have reddish colored veins. The flowers, which come in June, are very large, white, with a small crimson center, and are slightly sweet scented. Seed pods follow the flowers just as they do those of *M. tripetala*, and from these seeds can be had and seedlings raised just as in the case of the other. Then there is grafting and inarching to be followed as well, the many ways of propagating affording chances of increasing the stock rapidly. As with *M. tripetala*, it does not take many years for a tree of *M. hypoleuca* to reach a flowering size, after which seeds may be looked for annually.

To have the seeds grow, they should be mixed with damp soil as soon as gathered, and then be sown immediately the beds are prepared for them; or kept in the soil in a cool place and sown in Spring. Dried out seeds will not grow.

J. M.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words: each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonal varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenues. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway. J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dayton, O.

W. G. MATTHEWS, FLOEBIST, 16 West Third Street. Flowers in any arrangement for all occasions for Dayton and vicinity. Long distance Telephones.

Dallas, Texas.

LANG, THE FLOEBIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Pot-Grown Japanese Snowballs.

The demand for pot plants for Easter and other occasions is a growing one, as all florists tell us. The display is more lasting than that from cut flowers is one reason for it, besides which the pot plants are, many of them, hardy, rendering them of use for outdoor planting when Winter is over. The case of the Japanese snowball illustrates this. There is the beauty of the flowers in the first place, their long-keeping qualities and the hardness of the plant itself.

When grown outdoors this snowball flowers from the 15th to the 30th of May, as a rule; the earlier date should the weather be warm, the later one, otherwise. When forced it requires about six weeks to bring it into flower; and when the blooms are in perfection they last fully two weeks.

The plant illustrated was potted early in Autumn and kept in a cold shed until the time came for forcing it. Many prefer to grow it on in a pot from quite small plants, which plan is a good one, but when so raised it must be well fed when growing, in order to have a supply of thrifty young shoots, as it is these shoots that give the flowers.

The Japanese snowball is greatly prized for Easter uses, as it is also for the lawn; and florists find great calls for its flowers for Memorial Day uses from Grand Army Posts and those who decorate graves on that day. The plant illustrated was grown by Mrs. A. Woltemate, florist, Germantown, Pa.

JOSEPH MEEHAN.



Vinum Plicatum as a Pot Plant

ground, then a row of petunias, ageratum, cuphea or some other lower growing plant. English ivy is seldom used as a drooping vine; *Vinca variegata*, German ivy and *nasturtiums* being most generally employed. The ivy leaved geraniums are also great favorites for this purpose, as they flower profusely and fall gracefully over the side of the box.

When the window boxes are filled the plants soon take root and grow, flowering continuously throughout the Summer. But here conditions are different. In the early Spring, often early enough to brave the frost, our window boxes are filled with pansies, sometimes alone but more frequently mixed with some bulbous plants, such as hyacinths and narcissus. A few hot days and the pansies refuse to flower, the bulbs show a bit of color for a few days and then die down. Then it is time for marguerites and geraniums. These look very bright and pretty for a while, but the sun soon discourages them, and a flower shows itself here and there once in a while, and you have a "bit of green" for the rest of the Summer. These conditions are discouraging to customers, especially those who have seen the luxuriant displays on the Continent.

There is a great deal depending on the florist and grower for the successful filling of window boxes. Drainage, good soil, and good plants are the first and all important considerations. I believe the most frequent cause of failure is in using plants that are not well established. The majority of plants that come into this market are very little better than rooted cuttings, while those used in London are all plants that have been cut back two or three times and are good vigorous stock that has a fighting chance under all conditions.

IN EVERYBODY'S MOUTH

LIKE THE BEE

A PROSPEROUS florist is never idle; do like this busy insect—the bee—take advantage of the great work the never-resting florist, Godfrey Aschmann, and his people have done since Easter, 1,000 of them swarming and enjoying their lives in Aschmann's Greenhouses. Oh! Aschmann's flowers taste so sweet. "The bees say: 'we cannot stop; we have a big field to work on; 100,000 of the choicest; every hole and corner full; let us harvest.'" Secure Bargains now, and for Decoration Day. Please write our lowest prices.

From the lands afar, where the choicest are, I gather the plants I supply; Or grow my own, with care unknown, So the best are the ones you buy. Then send in your orders and see your trade grow, None can surpass Aschmann's, wherever you go.



GERANIUMS, from 4 in. pots. S. A. Nutt, double crimson; La Favorite, double white; Md. Thibaud, Gloriosa, double pink; John Doyle, double red. Have eight varieties of the newer sorts, such as E. H. Trego, beautiful variegated crimson, the model of perfection, double. Telegraph, free bloomer, deep orange, cerise, double. Mrs. E. Rawson, single, deep rose, free bloomer, immense large flowers. Berthe De Presilly, semi-double flowers, of great strong habit, trusses silver rose. Countess d'Harcourt, best double white, large trusses; stands the sun well. Double Grant, immense large flowers. Jean de la Brete, rose carmine, shading to white, camelia shaped, large trusses. Marquise de Castellane, beautiful, soft crimson trusses, as large as a hydrangea, semi-double. Above eight varieties, 4 in. pots, 15c. each; \$1.75 per doz.; \$12.00 per 100.

AGERATUM, dwarf, best blue variety, 4 in. pots, \$7.00 per 100; 2 1/2 in., \$4.00 per 100.

BEGONIA VERNON, finest strain, flowers as dark as blood. Seeds of this beautiful variety picked by myself from specimen plants in Zurich, Switzerland, on my trip to Europe last Summer, 1906, 4 in. pots, \$10.00 per 100; 3 in. pots, \$7.00 per 100.

BEGONIA ERFORDI, the true variety, seeds of my own gathering from specimen plants in Europe last year (1906). This is one of the finest pink varieties in cultivation; 4 in. pots, \$12.00 per 100; 3 in. pots, \$9.00 per 100.

SCARLET SAGE or SALVIA. This is the genuine Clara Bedman or Boasire variety of medium tall habit. It is a sight to see them bloom. It looks as if the whole bush is on fire and decorates the finest residences in England, Germany, Paris and Switzerland. Seeds of this novelty Sage collected by myself from specimen plants grown on one of the beautiful landscapes in Switzerland. Have fully 5,000 plants in 4 in. pots to sell, now in bud and bloom, of this fine variety. Price, 4 in. pots, strong plants, \$10.00 per 100; 3 in., \$7.00 per 100.

HELIOTROPES, 4 in. pots, \$7.00 per 100.

NASTURTIUMS, dwarf, all colors, \$7.00 per 100.

FUCHSIAS, mixed, good varieties, 5 to 5 1/2 in. pots, 15c. to 20c. each; 4 in. pots, \$1.20 per doz.

CANNAS, 10 good varieties, 4 in. pots, \$8.00 to \$10.00 per 100.

AMPELOPIS VEITCHII, 4 in. pots stacked up, 15c. each.

HONEYSUCKLE, 4 in. pots stacked up, 15c. each.

COBEA SCANDENS, 4 in. pots stacked up, 8c. to 10c. each.

DAISIES, Queen Alexandria and Marguerite (white), 5 1/2 to 6 in. pots, 20c. to 25c. each.

DELZYRA SPECTABILIS or BLEEDING HEART, planted in the Fall into 6 in. pots, and plunged outside in cold frames during Winter, growing natural now, large plants, in bud and bloom, 25c. each.

PETUNIA, double, mixed, 4 in. pots, 10c. each, single California giant, ruffled or blotched, 3 in. pots, \$5.00 per 100. Intimable or dwarf variegated, 2 1/2 in. pots, 4.00 per 100.

VERBENAS, all shades, 2 1/2 in. pots, \$4.00 per 100.

ASPARAGUS PLUMOSUS NANUS, 2 1/2 in. pots, \$3.00 per 100.

COLEUS, Queen Victoria, Golden Bedder, Verschaffelt, 2 1/2 in. pots, \$3.00 per 100. Fancy varieties, 2 1/2 in. pots, \$4.00-\$5.00 per 100.

PHLOX DRUMMONDI, 2 1/2 in. pots, \$3.00 per 100.

IVY, English or hardy, 12 in. long, 4 in. pots, \$5.00 per 100. IVY, German or Parlor, 2 1/2 in. pots, \$3.00 per 100.

CENTAUREA GYMNOCARPA or Dusty Miller, 2 1/2 in. pots, \$3.00 per 100.

CUPIEA or CIGAR PLANT, 2 1/2 in. pots, \$3.00 per 100.

LOBELIA, dwarf or trailing, 2 1/2 in. pots, \$3.00 per 100.

SWEET ALYSSUM, Little Gem, have 10,000 of them, 2 1/2 in. pots, \$3.00 per 100.

MARGOLD, Eldorado Africana and Gold King, dwarf, 3 in. pots, \$4.00 per 100.

VINCA, variegated or periwinkle, 4 in. pots, \$10.00 per 100. 2 1/2 in. pots, \$5.00 per 100. Rosea or Major, 2 1/2 to 3 in. pots, \$5.00 per 100.

COSMUS GRANDIFLORA, white, red or pink, three plants in 3 1/2 in. pot, separate colors, \$5.00 per 100.

SALPIGLOSSIS VARIABILIS (European), 2 1/2 in. pots, \$4.00 per 100.

SUMMER CHIRYANTHEMUMS, Chameleon, 3 in. pots, \$7.00 per 100.

MARSHALIA BANGLAYANA, 2 1/2 in. pots, \$4.00 per 100.

ARAUCARIA ROBUSTA COMPACTA, Spring 1906 importation. Have about 300 of this variety, only specimens, perfect tiers. Adapted for the lawn, front porches, cottages, hotels, etc. 7 in. pots, 4-5 tiers, 5 year old, 20 to 28 in. high, as broad as long, price, \$1.75-\$2.00-\$2.50 to \$3.00 each.

ARAUCARIA GLAUCA, large specimens, in wide, 5 to 6 tiers, \$3.00-\$4.00-\$5.00 each.

ARAUCARIA, new importation will arrive Saturday, May 4, per steamer Mantou, from Antwerp. First consignment about 5,000 and thereafter by every steamer up to Jan. 1. Araucaria Excela, in their original packing, left planted in pots, 3 tiers, 10 to 12 in. high, 50c. larger sizes, 60c.-75c.-\$1.00 to \$1.25 each. Robusta, Compacta and Glauca from \$1.00-\$1.25 to \$1.50 each.

DIACARIA INDIVISA, broad leaves, imported from Belgium, now arriving, 30 to 36 in. high, 50c. to 75c.

COCOS WEDDELIANA, 3 in. pots, 16 to 18 in. high, 15c. to 20c. each.

DON'T FORGET WE LEAD THE WORLD Watch and be careful; don't buy Morning Glory for Moon Vine.

We grow only the best varieties, A. W. Smith's hybrid or Ipomea Noctiflorum, for which we have during the past 20 years a world wide reputation. We ship every Spring from 20,000 to 25,000 plants to every state and territory in America as far as Mexico. 4 in. pots, nicely stacked up, 30 to 36 in. high, \$12.00 per 100; 2 1/2 in. pots, nicely stacked up, \$5.00 per 100.

NOTICE: Moon Vine is the earliest variety in existence, blooms freely, in big clusters, pure white; waxy flowers, very fragrant and as big as a saucer.

Cash with order please. All goods must travel at purchaser's risk.

GODFREY ASCHMANN, Wholesale Grower and Shipper of Pot Plants, 1012 West Ontario St., Philadelphia, Pa.

The statement is made in Cyclopaedia of American Horticulture that the Cherokee rose, R. levigata "can be grown satisfactorily away from its native regions only in a greenhouse." If the author of that sentence is still alive, and able to do so, it will pay him to cross the Continent to see a hedge of this rose fifty feet high, as many feet in diameter and eight times as long, growing on the private grounds of W. S. Tevis, at Bakersfield. When in bloom the hedge is one of the most beautiful sights of California. On this place, which is a veritable botanic garden, is a bamboo grove, variety Phyllostachys virii glaucescens. The stems are from

two to four inches in diameter, and 20 feet tall without a branch. Unlike other bamboos which the writer has seen, this one does not grow in clumps, but from underground rhizomes. A single stem will appear two to six feet away from the parent stem, which is uniform in thickness from the ground to the point where branches appear—15 or 20 feet above. In fertile soil, a warm Summer climate and abundance of water, this plant is pre-eminently adapted to making a fine grove, of medium height, 30 to 40 feet, absolutely free from insect pests and disease, and that, too, in a very few years. P. D. BARNHART. Cal.

Right Here in Connecticut

Pot Grown Herbaceous Plants

Table listing various herbaceous plants like Achillea ptarmica, Alyssum saxatile, and others with prices per 10 and per 100.

Hardy Roses

Table listing various hardy roses like Ulrich Bruner, Baroness Rothschild, and others with prices per 10 and per 100.

Miscellaneous Stock

Table listing various miscellaneous plants like Asparagus, Clematis, and others with prices per 10 and per 100.

Dahlias, Strong Divided Roots

Table listing various dahlia varieties like Queen Victoria, Lively, and others with prices per 10 and per 100.

NORTH END NURSERIES

Chester F. Brainard, Prop. Maple St. Thompsonville, Conn.

SOUTH BEND, IND.—The firm of Treanor & Rettig, for nearly a generation prominently identified with the florist trade here, has retired from business, and the establishment has been taken over by the South Bend Floral Company. Charles Treanor remains as decorator for the purchasers; William D. Rettig, who has had charge of the Treanor & Rettig greenhouses, will retain these, but will conduct them as a private venture in his own interests.

Arrangements were also made by the company to take over the lease of Treanor & Rettig on apartments in the Oliver hotel now occupied by Kinyon Brothers. The work of remodeling will begin as soon as the firm now in possession secures a site and moves. The company wants to be in the new quarters as near May 1 as possible as the lease on the Treanor & Rettig store at 218 West Washington street expires at that date. The two stores will be continued until May 1 and the present store of the floral company under the Toepp jewelry store will be continued until the company is fully established in the Oliver hotel quarters.

The Oliver floral store will be made one of the very best in this part of the country. Mammoth refrigerators have been ordered, which will be of mahogany to match the other furnishings of the hotel. Statuary holding clusters of electric bulbs will be a feature of the lighting system. The interior decorations will be very elaborate and will be in white, green and gold. The counters will be of marble. Irving Gingrich will continue as general manager for the floral company. The big greenhouse plant of the company, which is on East Dublin avenue will continue under the management of Walter Tapper.

Newport, R. I.

Trade Notes.

Among the several branches of horticulture carried on by Oscar Schultz is that of letting greenhouses to parties who have a great number of palms and other kinds of plants in and around their dwellings in Summer, but are without accommodation for them in Winter. Last year Mr. Schultz had a house built specially to accommodate the plants taken out of the houses that were torn down on the W. S. Wells estate. E. Collins Morse has another house hired by the year for the wintering of plants.

Early grapes will be about an average crop this year. Mr. McLeish and nearly all the other growers ship their early grapes to New York, but for the crops coming in from the first of June on to the latest there is usually a local demand equal to the supply.

The commercial growers try to have the bulk of their nectarines in when the season is at its height, which is usually from the last week in July to the end of August. Good peaches grown indoors sell well then too, sometimes as high as \$4 per dozen; but there are a great many more nectarines consumed than peaches.

Joseph Leikens visited Newport last week to make arrangements for the opening of his store on Bellevue avenue. While here he purchased several large kentias and hydrangeas in tubs for shipment to New York; the kentias are for the decoration of the Hotel Belmont.

Early in the week J. K. M. L. Parquhar of Boston made a flying trip to this city.

The Superintendents of Parks and Cemeteries will hold their convention in Providence this Summer. One day will be devoted to sightseeing in Newport and it is a foregone conclusion that Col. McMahon, the superintendent of the Island Cemetery, will see that their visit will be pleasant. The program for the day in Newport will include a dinner, and a carriage drive to points of interest with stops to inspect a few of the finest Summer residences and their grounds.

The many jobbing gardeners were rather late in beginning cleaning up work this Spring, but now a number of them are rushed to the extent of inconvenience. D. M.

HOUGHTON, MICH.—The Lakeside Floral Company has been organized here. The company has taken over all of the property formerly owned by what was known as the Lutey Floral Company, and later as the Lutey Greenhouses, and which went into bankruptcy some two years ago. The capitalization of the new organization is \$25,000 divided into 2000 shares issued of ten dollars each, and treasury stock amounting to \$5,000. Its headquarters will be in Houghton, and the names of its stockholders and officers, are Chas. H. Moss, cashier of the Citizens' National Bank, John G. Stone, one of the leading local attorneys, C. V. Seeber, wholesaler, and vice-president of the Citizens' bank, B. F. Chynoweth, capitalist, and A. E. Lutey, who was at the head of the former concern, and is a florist of many years of practical experience.

More or less extensive improvements are contemplated by the new organization, and work on them will probably begin as soon as the weather permits. They intend presently to be in a position to cater to the retail trade of other and neighboring towns, and to do a general wholesale, as well as a retail business at home. For this room is required, and the property formerly owned by the Lutey Floral Company is ample for the purpose. In the first place the capacity of the greenhouses at Chassel will be doubled, and a nursery will be established. For this purpose eighty acres located there make an ideal spot. The following officers have been elected: John G. Stone, president; C. V. Seeber, vice-president; Chas. H. Moss, secretary and treasurer, and A. E. Lutey, manager. At present no change will be made in the local floral store on Sheldon street, nor in its working force, but as the future business demands this will also be increased in proportion.

WITTBOLD FLORIST Wholesale Price List Palms and Ferns

Variety	Size	Each	Dozen	100
Areca Lutescens	4		\$3.00	
Assorted Ferns for ferneries				\$3.00
Asparagus Plumosus	2	.50	3.00	
"	3	.75	4.50	
"	4	1.50	12.00	
"	6	3.00	24.00	
Aparagus Sprengeri	2		3.00	
"	3		7.00	
Cibotium Schiedel	6	\$1.00		
Cocos, 3 in a pot	4	75c-\$1.00		
Dracaena Fragrans	3		5.00	
Dracaena Indivisa	6		5.00	
"	80-34 high 7	.75	9.00	
"	8		12.00	
Dracaena Terminalis	3		2.00	
"	4	.25	3.00	
Ficus Elastica	5	.35	4.00	
Japanese Fern Balls			4.00	
Japanese Pines in Japanese jars			4.60	
Lantana Borbonica	5		5.00	
Nephrolepis Barrowsii	2	.75	6.00	
Nephrolepis Bostoniensis	2	.50	4.00	
"	3	1.00	8.00	
"	4	1.50	12.00	
"	4 strong	2.00	25.00	
"	6		4.20	
"	Elegantissima	6	6.00	
"	7		9.00	
Nephrolepis Pierstoni	7		12.00	
Nephrolepis Whitmani	8		1.25	10.00
Phoenix Recinata, 4-in.	doz.		3.00	
"	6-in.	doz.	6.00	
Pandanus Utilis, 5-in.	doz.		5.00	
"	6-in.	doz.	6.00	

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1657 Buckingham Place,
CHICAGO, - - ILL.

FERNS MY SPECIALTY

CIBOTIUM SCHIEDEI, King of Ferns; looks, grows, keeps and sells good. 4 in., 35c. each; \$4.00 per doz.; \$30.00 per 100. 7 in., \$1.60 each; \$19.00 per doz.; \$150.00 per 100. For larger sizes, prices on application.

BOSTON FERNS
7 in., worth each \$2.00; now \$12.00 per doz.
ADIANTUM FARLEYENSE
2 in., \$1.20 per doz.; \$9.00 per 100; \$85.00 per 1000.
ASSORTED FERNS for Jardinieres
2 1/2 in., \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.
Fresh, home-grown fern spores always on hand. Write for list.
Orders booked now for Fern Seedlings for June, July and August delivery. Over one million in stock, \$1.00 per 100; \$8.50 per 1000. Shipped in or out of flats.

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Cash with Order.
Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100.
Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.
Geraniums, S. A. Nutt, John Duyie, Perkins, Beard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trege, Castellane, Poitevine and Viand. 2 in. pots, \$3.00 per 100.
Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100
Boston Ferns, 5 in., 30c. each.
Vinca Var., 2 in., \$2.00 per 100.
Gladolus, blooming bulbs, extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.
Primula Obconica, 3 in. in bloom, \$5.00 per 100.
Hellebore; Coleus, red and yellow; Cigar Plants; Verbenas; Scarlet Sage, 2 in. \$2.00 per 100.
Cash with order, no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s; properly packed in good order.
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To arrive shortly. **CATTLEYA**, **MOSSIAE**, **SPICATISSIMA**, **GIGAS**, **S. A. N. DERZE**, **TRIANAE**, **MENDELII**, **ODONTOGLOS-SUM CRISPUM** and others. Prices as low as possible. Write for them.
ORDONEZ DE NAVE CO., MADISON, N. J.
8 SAMPSON AV., P. O. BOX 105

FERNS

Boston, Pierstoni, Barrowsii, Elegantisima, 4 in., 51c.; 5 in., 25c.; 6 in., 50c.; 7 in., 75c.; 8 in., \$1.00, \$1.25; 9 in., \$1.25, \$1.50.
Whitmani, 4 in., 35c.; 5 in., 50c.; 6 in., 75c.; \$1.00; 7 in., \$1.50, \$2.00; 8 in., \$2.50, \$3.00, \$3.50.
Kontias, 4 in., 25c.; 5 in., 50c.; 6 in., \$1.25, \$1.50; large plants, \$2.00 to \$35.00 each.
Latanias, 2 in., 3c.; 3 in., 6c.; 4 in., 15c.; 5 in., 25c.; 6 in., 50c.
All kinds of bedding plants at reasonable prices.
Hardy Rhododendrons, Azaleas, Dutchman's Pipe Vines, Clematis, etc., **Boxwood** from 20c. each to \$5.00.

John Bader, MT. TROY, ALLEGHENY, PA.

WHITMANI FERN

2 1/2 in., \$10.00 per 100. **Scottii Ferns**, 2 1/2 in., \$5.00 per 100.
Ampelopsis Velichii, pot grown and staked, 4 in. pots, \$10.00 per 100.
Hardy Ivy, 3 branches, 10 to 18 in. in length, 3 in. pots, \$6.00 per 100.
Kenia Forsteriana, 4 in. pots made-up, strong and bushy, \$25.00 per 100. 5 in. pots, made-up strong and bushy, \$50.00 per 100. No order for less than 10 plants accepted.

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3601 GERMANTOWN AVE., PHILA., Pa

BAY TREE STANDARDS

4 ft. 8 in. stem \$12.00 per pair; 4 ft. 8 in. stem \$15.00 per pair; 4 ft. 8 in. stem \$18.00 per pair.

PHOENIX GANARIENSIS

2 ft. 6 in. 10 leaves \$3.00 per pair; 3 ft. 10 in. 10 leaves \$4.00 per pair; 3 ft. 10 leaves \$5.00 per pair; 3 ft. 4 in. 10 leaves \$6.00 per pair.

ANTON SCHULTHEIS,
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Grower of Palms, Ferns and other Decorative Stock.

Nephrolepis Scottii all the year round

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BOSTON FERNS

From bench and 2 in pots \$3.00 per 100; \$25.00 per 1000.

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ROBERT CRAIG & CO ROSES, PALMS, CROTONS

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NEPHROLEPIS

Whitmani, 2 1/2 in., \$10.00 per 100.
Boston, 2 1/2 in., \$3.00 per 100.
Henry H. Barrows & Son, Whitman, Mass.

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Assorted, for jardinieres, strong, healthy plants, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.
Boston Ferns, 8 in. pots \$1.25 each; 9 in. pans \$1.50 each.
FRANK N. ESKESEN, Main St., Madison, N. J.

THE AMERICAN CARNATION

Price \$3.50
A. T. DE LA MARE PTG & PUB CO. LTD
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THE WEEK'S WORK. Timme's Timely Teachings.

Gloire de Lorraine Begonias.
Stock plants of Begonia Gloire de Lorraine, rested after their flowering season had ended, transplanted into fresh soil some five or six weeks ago and then started into new growth, should now hold forth a goodly crop of sturdy shoots, just right for propagation, this first lot of cuttings to be followed by others later on.

As long as steady fire heat can be depended upon to furnish a warm footing for the cuttings the percentage of loss throughout that period of propagation will not amount to more than five or six in a hundred and even fewer if all the cuttings are just right and conditions favorable. The first lot of cuttings, rooted thus early, usually grows into a far finer set of plants than any from the later batches, not only owing to their larger size by September or October, but because as single 6-inch pot specimens they invariably show a sturdier habit of growth and are worked into nice, shapely plants with less effort, many of them in this respect equaling those obtained early by leaf propagation. It is therefore advisable to begin propagating as soon as cuttings in fit condition can be had and to continue the work until quite late, so as to provide an ample supply of stock in all the sizes

DRACAENA INDIVISA

	Per 10
18 to 30 in. high	\$10.00, \$15.00 and \$20.00
SEASTA DAISY, 3 in.	3.00
MOON VINE, 2 in.	2.50
COBAEA SCANDENS, 2 in.	2.50
PELOX, dwarf cori pecta, 2 in.	2.00
Trailing LANTANAS	3.00
Double PETUNIAS, 4 inches, in bud	4.00
VERBENAS, Mammoth, 4 colors, 2 in.	2.00
GENTAUREA GYMNOCARPA, (dusty miller) 2 in.	2.00

Cash with order please
Geo. J. Hughes, Berlin, N. J.

We are now taking orders for a grand lot of **CATTLEYA TRIANAE**, 400 bulbs to a case, at \$50.00 net cash, per case, which we expect to arrive here some time in June. Will sell cheaper if ordered in quantities. Solicit correspondence. Same established plants of **CATTLEYA GIGAS**, **MENDELII**, **SCHROEDER** and **TRIANAE**, from \$2.00 to \$5.00 per plant.

JOHN DE BUCK,
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For jardinieres, etc. Fine bushy stock in good assortment, \$3.00 per 100.
SCOTTII FERNS, 4 in. \$15.00 per 100.
DRACAENA INDIVISA, 6 in., fine stock, 35c. and 50c. each.
ENGLISH IVY, 4 in., \$10.00 per 100.
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Largest Importers, Exporters, Growers and Hybridists in the world.
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ORCHIDS

Just arrived, a shipment of **CATTLEYA LABIATA** and **DENDROBIUM WARDIANUM**.
Write for prices.
LAGER & HURRELL, Summit, N. J.
Growers and Importers

and grades in which this most useful of flowering plants can be made to enter creditably into various phases of the plant trade. Even the smallest and least perfect of plants will prove serviceable in made-up arrangements at a time when suitable material for like purposes is none too plentiful. In the rooting of these cuttings, as also after their first shift from the sand to pots, a somewhat close atmosphere, protection against direct sunshine and caution in watering are necessary points to observe. In their later stages more air is given, a light shading on bright days and timely transplanting.

Bonvardias.
For the small bouvardias intended for indoor culture next Fall and Winter, there is no better place at present than a mild hotbed. They will there make a thriffter headway in growth with less in the way of care and attention than in the lightest and best ventilated houses. It is now, when the plants are still in their earliest stages of development, when the most in good culture can be easily accomplished by favorable conditions and proper treatment. Where hotbeds are not available it is best to select the highest bench or, better still, a shelf for young bouvardias until it is safe to transfer them to cold frames or the open border. During all this time the pinching in or cutting back of the rapidly advancing growth forms an important part in their care and leads to the making of perfectly formed, well-branched and highly prolific plants. This stopping of the young plants, needful from the very start, is a point only too often overlooked or but half attended to in the hurry skurry of Spring work. If this duty is not slighted and air and light afforded in abundance until the plants can be fully exposed to the open air, field culture will then do the rest in making them fine stock for bench or pot culture, the nipping back to be continued until July.

Eucharis.
Any one of the several few varieties of eucharis is well worth cultivating either as producers of exceedingly fine cut material or as subjects for pot culture. A mixture of friable, turfy loam, leaf-mold and old, decayed manure in equal portions is a good soil for eucharis; and drainage in bench or pot is of importance, for without this the plants soon give out. An annual transplanting is not necessary, but the exhausted top soil should be removed down to the base of the bulbs and a good, rich compost put in its place. During this operation it is well to free the main bulbs of the numerous offsets or small bulletts usually found about older plants. Three mature bulbs make a good plant in an 8-inch pot. In planting, the tips of the elongated upper part of the bulb should barely be seen when finishing off the pot, and after the soil has been settled by the first watering. In a rose house temperature eucharis do well and often bring two crops of flowers in a single season. Liquid feeding is of benefit from the time buds have formed until the flowers fade or are cut, and old plants, long established, need it more than those newly planted. A short rest of the growth after flowering, merely keeping the plants somewhat drier than usual, tends to uphold vigor for a number of years.

Amaryllis.
Though failures with amaryllis are not so frequent as with eucharis, which also is a member of the amaryllis family, there still seems to be some misunderstanding here and there as to their proper mode of treatment. That most varieties, especially those of the true amaryllis hybrids, are exceedingly showy when in bloom and worthy to be handled by any one engaged in the growing and selling of plants cannot be doubted, and the difficulties in their culture, supposed to exist, are easily overcome by avoiding a few of the most flagrant errors commonly fallen into by those not fully familiar with this class of bulbous plants. While some of the varieties are now out of bloom, others will at this time be just about ready to push up flowering spikes, but very few will have reached the period of perfect dormancy, erroneously supposed to begin with the fading of the flowers. The withholding of water at that juncture is one of the mistakes alluded to. As a matter of fact it is just then when frequent and copious watering is most needed to push to perfect development the leathery, succulent foliage, on which all of entire success with amaryllis of nearly every kind depends. Not until the leaves have

attained full size and are beginning to show signs of drying back, is water given sparingly, gradually reducing the quantity to merely enough to prevent a shriveling of the fleshy roots. From the time when the leaves have dried down completely until the new flower spike is observed to break forth, no water at all is given and after that in scanty measure at first, slowly increasing the supply as the flowers reach perfection.

A repotting is not necessary every year, but if deemed needful to success should be done when the plants are at the point of complete rest and maturity, shortly before a new cycle of activity begins. Leaf mold, sand, well-decayed manure and turfy peat soil, well mixed, forms a good compost for amaryllis, though I have had good success by making use of the first best good potting soil that came handy.

Amaryllis, even plants of one and the same variety, differ considerably as to time of flowering. While this necessitates a singling out of the most forward from a bench of plants never uniform in headway of growth, some only starting when others are already nearing the close of their season. It also provides flowering right along for a considerable length of time. Amaryllis do best in a high temperature, from 60 to 70 degrees being about right in winter.

Pyrethrum.

Not so freely used and less often to be seen in the hardy plant border, not so valuable perhaps for the home garden as some of the better known and more highly recommended perennials, but of far greater merit as a profuse yielder of exquisite blooms for cutting on any commercial grower's place, is Pyrethrum roseum. The double varieties are unequaled by any of the hardy outside stock as far as graceful form, delicate coloring and lasting quality of flowers is concerned, while all the single and semi-double flowers can be used with surprising effect in any sort of floral make-up.

The usual mode of procuring plants for permanent borders is by raising them from seeds, this being the right time for sowing, and an outdoor bed or cold frame the right place. Seeds coming from double flowers are to be preferred to those raised on single flowering plants, though only a very small percentage will come true. But among the few that prove double one or two can always be found that greatly exceed all others in point of beauty. From such a valuable stock may be worked up by division of the plants year after year. Seedlings flower the second season, but grow into large clumps the first year if started now. The plants are quite hardy, requiring little or no protection against severe freezing, but a bed of them on low or undrained land is easily ruined by overflow in early spring. It is well to transplant the young seedlings when about an inch or two in height and spread, so as to have them well established before winter sets in.

Celosias.

There are several fine strains of Celosia cristata, the true cockscomb, that might well be grown by retail florists without fear of having the stock left on their hands at the close of the busy plant season. They are still much favored by some people as peculiarly fit for some kinds of adroitly planned bedding schemes, and no doubt, when rightly made use of, surprisingly fine effects may be obtained. Then there are a few kinds of cockscombs exceedingly fine for pot culture, which, when well done, never fail to attract the admiration of the true lover of plants. Perfect specimens for the purpose are obtained by sowing the seeds in a pretty warm hotbed, transplanting the seedlings in good time and when large enough, shifting them into small pots, keeping them in the hotbed right along until they are of proper size for the last shift, after which a sunny bench in one of the houses is the best place for them.

Quite different in habit, but not less attractive and probably of greater value for florists are the half dozen or more varieties of Celosia plumosa, the best of which produce flower-spikes of great length, surmounted by feathery tufts of brightly colored bloom. The spikes of flowers, when cut, last in fine condition for a long time and constitute excellent material for the decorator and local florist. Thompson's magnifica and superba I consider the best varieties to grow for this purpose, since more plants of

Lilium Auratum

GOLDEN RAYED LILY OF JAPAN

Every florist should plant or pot some of this magnificent Lily. We offer good dormant sound bulbs, clean and repacked, at the following close prices:

8 to 9 inch, - - \$4.00 per 100
9 to 11 inch, - - 7.00 per 100

LILIUM SPECIOSUM RUBRUM

	Doz.	100	1000
8 to 9-inch bulbs.....	\$0 75	\$5 50	\$50 00
9 to 11-inch bulbs.....	1 25	8 50	80 00

LILIUM SPECIOSUM MELPOMENE

	Doz.	100	1000
8 to 9-inch bulbs.....	\$0 75	\$6 00	\$55 00
9 to 11-inch bulbs.....	1 25	8 50	80 00

SEASONABLE SURPLUSES

DRY CYCAS STEMS

Fresh imported, true long leaf variety, in cases containing about 350 lbs. each; 75 per cent. of the stems 1/2 lb. to 3 lbs. each; 25 per cent. 3 to 6 lbs. each.
Per 10 lbs., 12 cts. per lb.; 100 lbs., 10 cts. per lb.; whole case, 7 1/2 cts. per lb.

JAPANESE FERN BALLS

5 in., \$2.00 per doz.; \$15.00 per 100.

HYDRANGEA PANICULATA GRANDIFLORA

Two-year-old, 3 to 4 branches, bushy, \$1.50 per doz.; \$10.00 per 100.

ARISTOLOCHIA SIPHO

Dutchman's Pipe, strong field-grown, \$3.50 per doz.

WISTARIA SINENSIS

Extra strong field-grown plants.
Blue, \$3.50 per doz.; \$35.00 per 100.
White, \$5.00 per doz.; \$40.00 per 100.

HONEYSUCKLE

Extra strong field-grown plants, 5 feet long, many branches.
Coccineum. Scarlet.
Perleymoum. White.
Serolinum Belgica (Monthly Dutch).
\$3.00 per doz.; \$22.50 per 100.

Ampelopsis muralis, large foliage, \$3.00 per doz.; \$20.00 per 100.
Quinquifolia (American Ivy or Virginia Creeper). Good for covering walls, verandas, or trunks of trees; affords shade quickly, 25c. each; \$2.50 per doz.; \$18.00 per 100.

Hardy Roses for Decoration Day

HARDY H. P. ROSES

\$1.25 per 10; \$11.00 per 100; \$100.00 per 1000.
Ball of Snow, pure white.
Duke of Edinburgh, bright vermillion; very fine.
General Washington, heartful red, shaded carmine.
Margaret Dickson, white, pale flesh center.
Magna Charta, clear rosy pink.
Mrs. Gabriel Luize, light, satiny pink.
Mrs. Planter, white.
Ulrich Brunner, cherry red.

ARTHUR T. BODDINGTON,



Lilium Auratum

PAEONIA CHINENSIS

Double White Varieties.....	\$1 50	\$12 00
Double Pink Varieties.....	1 50	10 00
Double Red Varieties.....	1 25	9 00

Case of Chinensis containing 67 Double White, 66 Double Red, 67 Double Pink Paeonias—very strong roots, 3 to 5 eyes—200 in all, \$20.00 per case, 3 cases for \$50.00.

PAEONIA CHINENSIS

Named Varieties

Hamlet, fiery red; Fragrans, bright red; President Harrison, deep red; Mad. Benoit, soft red; Albert Victor, crimson; Elegante, pink; Pink Beauty, bright pink; Cleopatra, silvery pink; La Noblese, fine rosy pink; Marie Hamilton, lively rose; Marie Louise, soft rose; Her Majesty, rose, light center; Blushing Bride, soft rose; Sunbeam, rosy white; Comte de Nancy, silvery rosy white; Mona. Offroy, blue-white; Frinesse May, creamy white; Alba pleua, pure white; Queen Victoria, snow white; Gloria Mundi, creamy white.

Any of the above strong roots, 15 cts. each; \$1.50 per doz., \$10.00 per 100.

PAEONIA FESTIVA MAXIMA

Tree

The finest white Paeonia in cultivation, 40c. each; \$4.50 per doz.; \$35.00 per 100.

342 West 14th Street, New York City.

Gruse as Tepiltz. The great new red Rose, closely resembling Liberty in color. No Rose in commerce can compare with Gruse as Tepiltz as a hedger, \$1.50 per 10; \$12.00 per 100.

Paul's Carmine Pillar. One of the most attractive Climbing Roses. Two-year-old, field-grown, \$1.75 per 10; \$15.00 per 100.

THE TREE BABY RAMBLER

(Mad. Norbert Levavasseur)

CROWN AS A STANDARD

The popularity of the Baby Rambler has suggested the growing of it as a tree or standard. The variety is too well known for description; enough to say, it retains all its characteristics of free-blooming qualities, etc., 50c. each; \$5.00 per doz.

ENGLISH MOSS ROSES

Assorted White, Pink, Red, large dormant plants, from open ground, \$1.50 per 10; \$12.00 per 100.

PAEONIES

The roots offered below are extra strong pieces, having 3 to 5 eyes each:

PAEONIA OFFICIALIS

	Per doz.	Per 100
Ruba. Deep crimson.....	\$1 00	\$7 00
Alba. White.....	2 00	15 00
Rosea. Rose; also a good forcer.....	1 75	12 00

Schizanthus.

Another plant of remarkably fast growth, raised to perfection in an almost incredible short space of time, is schizanthus. Exceedingly beautiful and of fascinating character when well grown and covered with its daintily tinted flowers, it is utterly worthless when due attention to its simple wants is withheld when the tiny, fast developing seedlings are in their first stages of growth.

There are several good varieties, all doing fairly well if sown or planted in outdoor beds at about this time or as late as July or August. But for commercial purposes we must fall back on such sorts as hold out the fairest promise of growing into shapely, well behaving potted specimens, truly worthy of unstinted admiration. And there are such; most of the success with schizanthus, however, depending on proper and timely care, such as is or should be accorded all kinds of rapidly developing seedlings. A stand away up near the glass, plenty of direct light and air, the needful transplanting in succeeding shifts not delayed too long, staking and tying in good time and close attention to watering when the plants come into bloom, will lead to astonishing results with a class of plants altogether too sparingly grown.

FRED. W. TIMME.

Washington, D. C.

News Notes.

T. Byrd Baughan, who for a number of years has been a successful violet grower of Louisa County, Va., has purchased about eight acres in Maryland, near the Receiving Reservoir, where he intends to continue the violet growing industry. Mr. Baughan states he will use cold frames only for the first season, and subsequently erect modern houses adapted to the maximum output of good flowers. We wish him success.

The closing days of April are somewhat Spring-like, though the weather is still cool and unfavorable. Apple trees are in profuse blossom, and a rapid development has taken place. The market is scantily supplied, and all salable stock meets with a ready demand at prices above the average for this season. The greatest scarcity prevails in carnations; there are not enough to supply the demand, and prices correspond rather favorably with those of February.

JAS. L. CARRERY.

VIOLET CULTURE

Price, \$1 50 Postpaid

A. T. De La Mare Plg. & Co. Ltd., New York

these throw flowers that exhibit the grace of form and feathery daintiness to perfection than may be expected by growing inferior varieties. The seeds, when sown too early, even if started in great heat, are very apt to grow into squatly, stunted plants, flowering when barely three inches high and amounting to very little ever afterward. To secure an uncommonly fine lot of plants for an effective display on lawn or border, or for the production of a crop of valuable cut bloom during the greater part of Summer, it is best to sow until the end of this month, when a continuation of good growing weather may more safely be reckoned upon. The plants will then make a steady and most rapid headway in growth, never interrupted by a premature desire to bloom until they have reached the height of two or three feet. The deep crimson colored plumes are most desirable for cutting, and such plants, easily distinguished among the smallest of seedlings from those flowering in bright yellow or light tones, reach a greater height than the latter.

The seeds, as those of Celosia cristata, always sprout quickest and grow into finer plants if sown in a hotbed, where they, after being once transplanted or potted up, may remain until large enough for the open border.

CARNATIONS

From pots. Fine, healthy stock.
 Winsor, Helen M. Gould, White Enchantress, \$2.00 per doz.; \$14.00 per 100.
 Robert Craig, Victory, Helen Goddard, \$1.00 per doz.; \$7.00 per 100; \$36.00 per 1000.
 Kala Lawson, Variegated Lawson, 75c. per doz.; \$5.00 per 100.
 Lady Beautiful, Nelson Fisher, Enchantress, Dabehn, White Lawson, Mrs. T. W. Lawson, 80c. per doz.; \$4.00 per 100; \$35.00 per 1000.
 Boston Market, Melba, Pink Armazindy, Queen Louise, The Queen, 50c. per doz.; \$3.00 per 100; \$25.00 per 1000.

	Per 100	Per 1000
VERBENAS—Best Mammoth, rooted cuttings	\$1.00	\$ 8.00
Ageratum, Cope's Pet, White Cap, P. Paulae and Stella Gurney...	1.00	8.00
Abyrathes, 4 sorts	1.00	8.00
Colons, best bedding and fancy sorts	1.00	8.00
Cuphea, Platycentra	1.25	
Euhasia, double and single varieties	2.00	15.00
Everfew, The Gem	1.50	12.00
Geraniums, double and single	2.00	15.00
Heliopsis, light and dark	1.25	10.00
Ivy, German	1.25	
Moon Vine, true white	2.00	15.00
Salvia, splendens, Bedman, etc.	1.25	10.00
Salvia, new early flowering sorts	1.50	12.00
Vinca, variegated and Elegans, 2 1/2 in. pots	3.00	

CANNAS

Strong dormant roots in 30 fine varieties, \$2 and \$3 per 100; \$18 and \$20 per 1000.
 Send for List.

WOOD BROS.,

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.
 DILLER, CASKEY & KEEN.
 S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

LOOK HERE

Grafted rose plants, 2 1/2 and 3 in. pots, \$12.00 per 100; \$100.00 per 1000. Brides, Bridesmaids, Killarney, Richmond.
 Brides, Bridesmaids, own roots, 3 in., \$6.00 per 100; \$50.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE, BRIDGEPORT, CONN.

CHRYSANTHEMUMS

From 2 1/2 in. pots. Fine stock.
 Ben Wells, General Hutton, Lady Cranston, F. S. Vallis, Marstham, red; Marstham, yellow; Mrs. Wm. Duckham, 75c. per doz.; \$5.00 per 100.
 A. J. Balfour, Mrs. G. W. Childs, Alice Byron, Yellow Eaton, 60c. per doz.; \$1.00 per 100.
 Dr. Enguehard, Geo. S. Kalb, Meta, Mrs. Coombs, Nageya, Opah, Robert Halliday, White Bonaffan, Wm. Duckham, 60c. per doz.; \$1.00 per 100; \$5.00 per 1000.
 Autumn Glory, Ada Spaulding, Oromo, Cullingfordil, Dorothy Dovens, Harry May, H. W. Rieman, J. E. Lagor, J. H. Trey, Mrs. J. Jones, Mrs. Baer, Major Bonaffan, Mrs. Fred Bergmann, Niveus, Timothy Eaton, W. H. Lincoln, 50c. per doz.; \$3.00 per 100. Rooted cuttings half price.

ASPARACUS

PLUMOSUS NANUS, 2 1/2 in. pots	Per 100	4.00
" " " 3 in. pots	5.00	
" " " 4 in. pots	10.00	
SPRENGERI, 2 1/2 in. pots	3.00	
" " 3 in. pots	6.00	
" " 4 in. pots	8.00	

Grafted ROSES Own Roots

Orders booked for early delivery. KILLARNEY, RICHMOND, JOE HILL, KAISEBIN, CARNOT, BRIDE, BRIDESMAID, GOLDEN GATE, PERLE, SUNRISE, SUNSET, etc.

Fishkill, N. Y.

Chicago.

News of the Week.

William Satter, representing Elbinge & Van Groos, of Boskoop, Holland, was in the city last week.

M. H. Awizzus, recently with E. C. Amling, has joined the J. A. Budlong staff.

C. R. Hills of the Grand Rapids Violet Company was a recent caller, and Henry Smith of the same city passed through Chicago last week on his way home from a Southern trip which extended as far as Texas.

A representative delegation of the trade accompanied Messrs. Lubliner and Trinz over to Milwaukee to attend the opening of their new theater, The Empire, at 557-91 Mitchell street the first of the week. The theater, which has been erected at a cost of \$35,000, is owned by Trinz, Lubliner & Trinz and is devoted to vaudeville, and the wholesale and retail friends of the proprietors from this city were profuse in their floral offerings at the opening.

C. M. Dickinson of the E. H. Hunt concert has moved to Park Ridge.

Jas. G. Crozier of Cedar Rapids, Ia., was a recent visitor.

William Hartshorne, formerly with the Chicago Carnation Company, is now acting as guard in charge of the conservatories at the Joliet State prison.

W. K. WOOD.

St. Louis, Mo.

News Notes.

We had with us the past week Arnold Ringier, traveling salesman for W. W. Barnard Company, Chicago, Ill. Mr. Ringier has been West since the first of the year, and has found business better than ever before, especially in Fall delivery in bulbs. J. Schloss, of Schloss Brothers' ribbon house, New York, was also here this week.

W. C. Smith is on crutches this week, the result of a fall from a street car.

Charles Schoenle was seen last week with a big roll of music under his arm; he is practicing for his singing stunt at the Florists' Club's celebration, June 28.

W. J. Pileber, of Kirkwood, will start building his plant this month. He reports that it was lucky he bought all his glass early and sorry he neglected to buy the piping, as it has doubled in price.

The club's trustees held a meeting the past week, and worked on the program for the twentieth celebration, which will take place next month, June 28. It will be a grand affair and a good time is in store for the members.

William Adles, formerly a well-known figure at the wholesale houses, visited them last Monday, stating his absence was caused by a long spell of sickness. He is not at present engaged in any business.

Fred Foster reports that his new location is at 905 Olive street, under the Century building, into which he will move early this week.

It will be news to many friends in the trade to hear that John W. Kunz and his wife have left the city to reside in Texas, as Mr. Kunz's health has been bad for some time. No one had more friends than he among the local florists, who wish him well and a speedy return home in good health.

State vice-president of the S. A. F. O. H., W. C. Young, is at work rounding up members to attend the convention at Philadelphia. Mr. Young will be at the next club meeting; any florist wishing to join the national society should see him there next Thursday afternoon.

Fred Alves, manager for George Augermuller, visited Belleville Sunday, spending all day there.

Every member of the Florists' Club who has the time to spare should not fail to attend the meeting next Thursday afternoon in the Burlington building, 810 Olive street. President Irish promises to be on hand, and hopes for a large attendance. It is a busy time for the plantsmen, but then the retailers and wholesalers can attend. It will be interesting to all of us. Secretary Bencke will send the usual notices in advance.
 ST. PATRICK.

MEDICINE HAT, CAN. — Messrs. Butchart & Kettles, of Winnipeg, recently met the board of trade and the council in reference to a project to establish a greenhouse plant here. The enterprise is one of great magnitude, as the intention is to raise hot-house flowers to supply the trade in the province. The establishment of the industry would mean an expenditure in the first year of from \$30,000 to \$35,000. Messrs. Butchart & Kettles expressed themselves as willing to pay the manufacturers' rate for the natural gas but asked for some assistance in securing a site, the value of land conveniently situated being almost prohibitive. The city council will meet this need by giving five acres off the park in the Johnson survey at the same figure for which it was bought last year on the conditions that the sum mentioned is invested and the industry operated as a growing concern for five years.

ROSES

I am offering my entire stock of plants at a bargain, as they are No. 1 stock, all propagated from the best of wood. Reason for selling: I am leaving the place; have no use for them.
 1000 American Beauty, in 3 1/2 in. pots, \$10.00 per 100; \$85.00 per 1000.
 800 American Beauty, in 2 1/2 in. pots, \$8.00 per 100; \$51.00 per 1000.
 700 Brides, in 3 1/2 in. pots, \$6.00 per 100.
 2500 Bridesmaids, in 3 1/2 in. pots, \$5.00 per 100; \$40.00 per 1000.
 300 Bridesmaids, in 2 1/2 in. pots, \$3.00 per 100; Cash with order.

EDW. H. BEHRE, Nyack, N. Y.

CHRYSANTHEMUMS

E. I. Brooks, Autumn Glory, Mrs. Wm. Duckham, from sand, \$2.50 per 100; \$20.00 per 1000. R. Halliday, Geo. S. Kalb, Dr. Enguehard, Appleton, H. Robinson, Newitt, from sand, \$2.00 per 100; \$15.00 per 1000; from soil, \$2.50 per 100; \$20.00 per 1000. Black Hawk, Wm. Duckham, Ivory, pink and white; Polly Rose, Glory of the Pacific, from sand, \$1.50 per 100; \$12.50 per 1000. Cash with order. Samples free.

ALFRED FUNKE, Baldwin Road, Hempstead, L. I.

THE CHRYSANTHEMUM

Arthur Herrington's New Book

The most complete and comprehensive work on the cultivation of the Chrysanthemum that has as yet been published in America. Handsomely illustrated, 168 pages, 5 x 7 inches. Price only \$5 cents, postpaid.

SEND YOUR ORDER FOR A COPY NOW.

A. T. De La Mare Ptg. & Pub. Co., Ltd.

A COMPARISON OF COSTS

\$46.80
 \$140.40
 \$280.80
 \$369.20

Is the cost of a one inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

Is the cost of a three inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

Is the cost of a six inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

Is the cost of the *one cent stamp* required to mail 369,200 circulars, exclusive of the great additional cost of paper, printing, addressing, etc.

The advertisements in The Florists' Exchange are ALWAYS read. The circular generally goes into the waste basket, without being read.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

The Largest Growers of Chrysanthemums in America

Rooted Cuttings from sand Ready April 1

White		Per 100	
Estelle	.....	\$2.00	
Geo. S. Kalb	.....	2.00	
Mrs. Robinson	.....	2.00	
T. Eaton	.....	2.50	
Mayflower	.....	2.00	
Wanamaker	.....	2.00	
Ivory	.....	2.50	
Mrs. Swioburne	.....	2.50	
C. Touset	.....	2.00	
Mrs. Jerome Jones	.....	3.00	

Yellow		Per 100	
Moorovia	.....	3.00	
Golden Chadwick	.....	3.00	
Yellow Mayflower	.....	2.00	

Pink		Per 100	
Yellow Jones	.....	\$2.50	
Yellow Eaton	.....	2.50	
Col. Appleton	.....	2.00	
Mrs. Geo. Beech	.....	2.50	
Roi d'Italia	.....	2.00	
Chas. Cronin	.....	2.50	
Percy Plumridge	.....	2.00	
Maj. Bonnaffon	.....	2.00	

Pink (cont'd)		Per 100	
L. Filkios	.....	2.00	
Pink Ivory	.....	2.50	
Rosiere	.....	2.00	
Lady Harriet	.....	3.00	
Glory of Pacific	.....	2.00	
Wm. Duckham	.....	2.00	
Mrs. Perrin	.....	2.00	

Roses from 2 1/2 inch pots

	Per 100	Per 1000		Per 100	Per 1000
Brides	\$3.00	\$25.00	Rosalind Orr Eoglsh	.....
Bridesmaids	3.00	25.00	Chatenay	.....
Richmond	3.00	25.00	Uncle John	.....

Red		Per 100	
Intensity	.....	\$2.00	
Oakland	.....	2.00	
Black Hawk	.....	2.00	

WIETOR BROS., Wholesale Growers of Cut Flowers 51 Wabash Ave. CHICAGO

Bethlehem, Pa.

John E. Haines has made this Moravian city famous by the introduction of several carnations of merit during the past few years. Last Summer Mr. Haines completed a new house, 100x57 feet, built by the King Construction Company, for a few of his special pets. In this house he has eight 5-foot benches running the entire length of the house; one each of Pink Imperial, White Perfection and Enchantress; two of a new seedling Number 6, and the remainder in his namesake. For the benefit of the writer Mr. Haines cut a number of handsome high grade blooms from this house all with 4-foot stems.

In some of the older houses Mr. Haines has many other seedlings of merit that are undergoing a rapid system of propagation of which the specialists in this line will hear more in future.

The quiet of the Moravian city affords a fine field to solve the many problems of hybridization and cross-fertilization and Mr. Haines is making good the opportunity. Inasmuch as Bethlehem boasts of its Moravian church, Moravian seminary, Moravian hotel, Moravian cemetery and Moravian beer, coming from such surroundings a Moravian carnation would not be inappropriate for some of the future productions at the hands of Mr. Haines.

South Bethlehem is just across the Lehigh river from Bethlehem proper—a busy active city. Here Chas. Vorkeller has a nice range of greenhouses where carnations and a general line of bedding plants are grown. Mr. Vorkeller has found business good in his line as well as an increased demand for all the products of his greenhouses. To meet this demand he has now commenced the erection of two new greenhouses of considerable proportions that will give him increased capacity to meet his growing trade. Mr. Vorkeller expects to have his new houses ready by carnation planting time. J. M.

Easton, Pa.

Arthur L. Raub & Company of this place has something of a novelty in the way of plant growing establishment. This consists chiefly of one greenhouse situated on the sunny side of a well wooded hill. The entire house is under one roof of the lean-to formation with the lean-to features well extended. The house is 60 by 230 feet; the glass slopes at an angle of four inches to the foot, the 60-foot way. It is supported on the inside by iron posts leaving scarcely anything to obstruct the view from one end of the house to the other. Carnations are grown in solid beds running the full length of the house. Mr. Raub is to build the sides of all these beds of concrete this Summer. Another rather novel feature here is the presence of a good natural spring in the center of this house that sends a fast running stream down the center of the house that empties itself into a pool on the outside. A gasoline engine has to be used to give sufficient pressure for sprinkling purposes.

Arthur Kleinhaus has been growing carnations and roses for the wholesale

Now nearing completion and to be issued by May 15

THE BOOK OF Water Gardening

Giving in full detail all the practical information necessary to the selection, grouping and successful cultivation of aquatic and other plants required in the making of a Water Garden and its surroundings, and covering all conditions from that of the Amateur with a single plant to the large estate or park

Price, Postpaid, \$2.50

ORDERS TAKEN NOW

Profusely illustrated with over one hundred photographs from life, diagrams and plans

The author is PETER BISSET, of Washington, D. C., a well-known expert in this art

A. T. De La Mare Ptg. & Pub. Co. Ltd.
2 DUANE STREET, NEW YORK

trade for the past two years. He has also one large greenhouse of even span, 325x50 feet, with seven benches running the entire length.

Howard Kleinhaus, his brother, has a range close by where a general line of plants is grown.

Charles Buenning is one of the largest growers here and does a regular plant and cut flower trade.

L. Bonnett and J. D. Freyhard, formerly connected with the trade here, are now out of it. Henry H. Weiskoff rents the Freyhard greenhouses, where he grows bedding and vegetable plants.

A. L. Raub & Company, Charles Buenning and Howard Kleinhaus have each a handsome store in the business portion of the city. J. M.

St. Paul.

News Notes.

Gus. Colberg, formerly of Colberg & Lemke, is now with Holm & Olson. Mr. Lemke will conduct the business himself.

The Ramaley Floral Company reports a fair trade. Mr. Ramaley is much enthused over a spray holder, which he is making, which consists of a wire loop, on which the maker of the spray lays the ferns and roses. This loop supports the ferns and a very shapely and pretty spray of roses or other flower can be made in a short time. The saving of ferns also the fact that the bunch can be delivered in much better condition, is indeed a very favorable point. P

Indianapolis, Ind.

News Notes.

Mrs. Alvin Schreiber, wife of one of the craft's most popular members, passed away Friday evening last. Much sympathy is expressed for Mr. Schreiber, as the six months' siege with typhoid still leaves ten children in a delicate condition. Mr. Schreiber, as general foreman for Bertermann Brothers Company for a quarter of a century, has acquired a host of florist friends who deeply regret his misfortune.

John Keller, at one time a well-known local florist, but now of Rhode Island, is making preparations to remain in Indianapolis.

Albert Warner has resigned his position in Duluth, Wis., and returned to this city.

E. A. Nelson has a belated crop of poinsettias in full bloom.

Judging from the number of circulars received the jasmine crop is an exceptionally heavy one.

Herman Junge is making his rounds with a much bandaged head, the result of a successful operation.

John Heidenreich is cutting candidum lilies of fine quality.

Claude Powers has been fully reinstated by the local Park Board.

Visitors the past week: P. J. Farney, Chicago. I. B.

Chrysanthemums

Rooted Cuttings and Pot Plants. Write for varieties and prices.

THE FLORISTS' EXCHANGE, Franklin & St. Paul Sts., BALTIMORE, Md.

CHRYSANTHEMUMS

White: EATON, ESTELLE, BONNAFFON ALICE BYRON, IVORY. Pink: GLORY OF THE PACIFIC, ENGUEHARD. Yellow: BONNAFFON, APPLETON, CREMO, HALLIDAY, WHILLDIN, ROI D'ITALIE. Rooted cuttings, \$2.00 per 100; \$15.00 per 1000. Cash with order.

WM. SWAYNE, Box 226, Kennett Square, Pa.

Looking for a good, late, Yellow MUM?

Invest in

GOLDEN DOME

There is nothing to equal it. Stock ready now. \$35.00 per 100; \$5.00 per dozen.

S. S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa.

CHRYSANTHEMUMS

From 2 1/2 in. pots, \$20.00 per 1000; rooted cuttings, \$15.00 per 1000. Testout, Ivory, White and Yellow Bonnaffon, White Star and Helen Frick, \$30.00 per 1000. White Duckham (Miss Clay Frick), \$2.50 per dozen. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

Chrysanthemums

OUR SPECIALTY

Nathan Smith & Son Adrian, Mich.

MANCHESTER, MASS.—The semi-monthly meeting of the North Shore Horticulture Society was held here on April 19. Robert Mitchell read a valuable article on pruning trees and shrubs, giving special attention to fruit and shade trees. James Salter exhibited a fine vase of antirrhinum for which he received a certificate of merit. On the evening of the 26th ult., the society held a special meeting for the purpose of hearing J. K. M. L. Farquhar deliver his lecture on the "Gardens of Italy." The meeting was well attended and Mr. Farquhar's lecture proved the attraction of the season. J. W. D.

CEDAR FALLS, IA.—Joseph Bancroft & Son have been increasing their business to such an extent that more space was a necessity and they have purchased the residence property of Platt Ham, which now gives them the entire block, a large portion of which is covered with their greenhouses and equipments.

VICTORY Has Made Good. Price, \$6.00 per 100; \$50.00 per 1000.
 A discount of 5% for cash with order.
IMPERIAL and PINK IMPERIAL CARNATIONS. You cannot afford to be without these two excellent varieties.
 Price \$12.00 per 100; \$100.00 per 1000. 250 at 1000 rates.
EVERY VARIETY OF CUT FLOWERS can be had from Alexander J. Guttman, The Wholesale Florist of New York.
 Enough said. **A. J. GUTTMAN, 43 WEST 28th STREET, NEW YORK** Phones 1664-1665 Madison Square

LARGEST STOCK IN THE COUNTRY

ROSES AND CARNATIONS

ROSES
 The New Rose "Morton Grove," winner of the Silver Cup at Chicago Flower Show, 1906, for best new rose, will be disseminated in 1908.
 R. C. 2 1/2-in. 2 1/2-in.
 Per 1000 100 1000
 Maids \$18.00 \$4.50 \$40.00
 Brides 18.00 4.50 40.00
 Gates 4.50 40.00
 Uncle John 4.50 40.00
 Chatenay 4.50
 Richmond 4.50 40.00
 Perle 5.00
 Sunrise 5.00
 Rosalind Orr English 5.00 45.00
 Kaiserin Augusta Victoria 4.50
 American Beauties, rooted cuttings, 2 1/2 in. pots, April, May and June delivery, \$7.00 per 100, \$65.00 per 1000.
 Bench Plants, Roses, cut back, 2 years old, Uncle John, Perle Rosalind Orr English, and Sunrise, now ready for limited time, \$5.00 per 100; \$40.00 per 1000. American Beauties \$10.00 per 100; \$75.00 per 1000.

CARNATIONS

	Rooted Cuttings	2 1/2-in.
	per 100	per 1000
White Lawson, 5000.....	\$3.00	\$25 00
Gov. Wolcott, 12000.....	.....	\$30.00
Pink Lawson, 7000.....	2.00	17 50
Enchantress, 5000.....	3.00	25 00
Victory, 12000.....	5.00	45 00
Cardinal, 1600.....	.....	40 00
Red Lawson, 1100.....	.....	35 00
Prosperity, 2000.....	.....	30 00
Variiegated Lawson, 1000.....	.....	40 00
Glendale, 1400.....	.....	40 00
Craig, 1000.....	.....	45 00
Patten, 200.....	.....	40 00
Haines, 400.....	.....	50 00

SPECIAL
 12000 R. C. Victory \$5.00 per 100; \$45.00 per 1000

CHRYSANTHEMUM CUTTINGS

BEST COMMERCIAL VARIETIES ONLY

	WHITE				PINK			
	R. C.	per 100	2 1/2 in.	per 1000	R. C.	per 100	2 1/2 in.	per 1000
Robinson.....	\$2.00	\$17.50	\$2.50	\$22.00	McNiece.....	\$2.50	\$22.50	\$3.50 \$30.00
Crawford.....	2.00	17.50	2.50	22.00	Maud Dean.....	2.50	22.50	3.50 30.00
Eaton Timothy.....	2.50	22.00	3.00	27.50	Dr. Euguehard.....	2.50	22.50	3.50 30.00
Allice Byron.....	2.50	22.00	3.00	27.50	Perrio.....	2.00	17.50	2.50 22.50
Touset.....	4.00	35.00	5.00	45.00	Shaw.....	2.50	22.50	3.50 30.00
J. Nonin.....	4.00	35.00	5.00	45.00	New Rosier (best early pink).....	4.00	35.00	5.00 45.00
Madam Paul Sahut.....	5.00	45.00	7.00	65.00	YELLOW			
Chadwick.....	2.50	22.00	3.50	30.00	Chl. Appleton.....	2.50	22.00	3.00 27.50
Adelia.....	2.00	17.50	3.00	27.50	Bonnafton.....	2.00	17.50	2.50 22.50
Kalb.....	1.50	13.50	2.50	22.50	Golden Wedding.....	2.75	25.00	3.50 30.00
Merry Christmas.....	2.00	22.50	2.50	22.50	Yellow Eaton.....	2.50	22.50	3.00 27.50
White Bonnafton.....	2.50	22.50	3.50	30.00	Reimay.....	2.50	22.50	3.50 30.00
RED					Haliday.....	2.00	17.50	2.50 22.50
Intensity.....	2.00	17.50	3.00	27.50	October Sunshine.....	2.00	17.50	2.50 22.50
Shrimpton.....	2.00	17.50	3.00	27.50	Chautauqua Gold.....	2.50	22.50	3.50 30.00

FROM HEALTHY STOCK

POEHLMAN BROS. COMPANY

Morton Grove, Ill.

ARISTOCRAT,

Beautiful cerise, winner of many First Prizes this season. The most productive carnation. Clean healthy stock ready for immediate delivery. \$12.00 per 100, \$100.00 per 1000.

WHITE PERFECTION,

Winner wherever shown, the best pure white carnation. Immediate delivery. \$6.00 per 100, \$50.00 per 1000.

You get **QUALITY** when buying from us.

ROSES: 2 1/2 in ready now. \$3.00 per 100, \$25.00 per 1000.
BRIDES MAIDS RICHMOND
GOLDEN GATE CHATENAY

CHICAGO CARNATION CO. A. T. Pyfer, Mgr. JOLIET, ILL.

CARNATIONS ROOTED CUTTINGS

CARNATION CUTTINGS

Red Sport, Harlowarden.....	1600	\$15.00
Enchantress.....	2000	20.00
White Lawson.....	2000	20.00
Llbut. Peary and Lady Bountiful, two inch pots.....	1600	\$5.00

FERNS

BOSTON FERNS

2 1/2 in. \$3.00 per 100. 4 in. \$10.00 per 100.
COLEUS, Golden Bedder and Verschaffelt, 2 1/2 in., \$2.50 per 100.

LARCHMONT NURSERIES, Larchmont, N.Y.

CARNATIONS

Strong, healthy, well rooted stock

	Per 100	Per 1000	From pots
Bountiful.....	\$3.00	\$25 00	\$3 50
Cardinal.....	2 50	22 50	3 00
Enchantress.....	2 50	22 50	3 00
Lawson.....	2 00	15 00	2 50
Harlowarden.....	2 00	15 00	2 50
Boston Market.....	1 50	12 50	2 00

We have a fine lot of Boston Market and Enchantress from pots.
 Cash with Order. Satisfaction guaranteed.

SMITH & GANNETT
 Geneva, New York

White Enchantress

white sport of Enchantress, rooted cuttings \$12 per 100; \$100 per 1000.

E. SCHRADER
 NEW SPRINGVILLE, Richmond Borough, N. Y.

Robert Craig Cuttings FOR SALE

From soil or 2 in. pots, just ready for a shift into larger pots. They are in first-class health and condition. Price, \$6.00 per 100; \$50.00 per 1000.

VALLEY VIEW GREENHOUSES
VELIE BROS., Props. Marlborough, N. Y.

MABELLE

Grand New Pink Carnation for 1907. A few thousand R. C. and pot plants still left. Order quick. This variety is a money maker.

Price of rooted cuttings, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000.
 Price of pot plants, 2 1/4 inch, \$3.00 per doz.; \$15.00 per 100.

THE H. WEBER & SONS CO., OAKLAND, MD.

JOHN E. HAINES

The Originator of three varieties:

John E. Haines Carnations.....	100	\$ 6.00	\$ 50.00
Imp rial.....	100	12.00	100.00
Pink Imp rial.....	100	12.00	100.00

Headquarters at Bethlehem, Pa.
 Orders taken now for field-grown plants at same price as for rooted cuttings.

JOHN E. HAINES, Bethlehem, Pa.

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Are leaflets written by practical men especially for the use of amateur customers.

If you have a counter trade, either in plants, seeds, flowers or bulbs, you should have a supply of these leaflets on hand to present to your customers when they seek cultural information about their purchases.

(The leaflets embrace over forty subjects.)
 We can supply them at \$2.50 per 1000, or 500 for \$1.50 and can make a reduction of those prices on large quantities.

At a small extra cost we can put your imprint on each leaflet.
 Try a thousand and see what a help they are in selling goods.

THE FLORISTS' EXCHANGE
 P. O. Box, 1697 NEW YORK

Rooted CARNATION Cutting

White Perfection.....	100	1000	\$8.00 \$50.00
Glendale.....	5.00	40.00	
Victory.....	5.00	40.00	
Robert Craig.....	5.00	40.00	
Fiancee.....	2.50	20.00	
Enchantress.....	2.50	20.00	
Lady Bountiful.....	2.50	20.00	

250 at 1000 rates.
W. J. & M. S. VESEY - FORT WAYNE, IND.

S. J. GODDARD

Framingham, Mass.

Rooted Carnation Cuttings a Specialty.
 Correspondence Solicited.

CARNATIONS

Rooted cuttings Victory, \$3.00 per 100; \$50.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patten, \$2.50 per 100; \$25.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Fern, and Fair Maid, \$2.00 per 100; \$16.00 per 1000. 6 per cent. discount for cash with order.

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Telephone: 3559 Madison Square
CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

REVIEW OF THE MARKET

NEW YORK.—There has been a decided change in the cut flower market since last Saturday. On that day business began to diminish and it has gradually fallen off every day since. Nearly all kinds of stock seem to be increasing in quantity and the demand is always expected that the month of May is not a good flower month in this city, as it is supposed to be very unlucky to get married in May, which leaves the retail dealers to depend mostly on funeral work during that month.

Prices along all lines are tending downward. Violets may be said to be over for this year. Now that the Southern bulb stock is shortening up a little, the home grown supply is arriving in in much heavier quantities. Belated lilies are also coming in heavily, and the prices they realize are exceedingly low. Gardenias are extremely plentiful, and sometimes go as low as \$3 per 100. There are many grades of lily of the valley and its sale is erratic.

Roses of all kinds are extremely plentiful and fixed prices are out of the question; straight slips are to be had at as low a figure as was charged for No. 2 grades one week ago.

BOSTON.—Cold weather has continued and trade has been comparatively good. While there is a general abundance of all general stock prices have been fairly good and have averaged better than last week. Roses bring from \$1 to \$10; American Beauty \$2 and \$3 per dozen for the fancy long-stemmed blooms, of which there is now a good supply. Some fine Richmond, Killarney and Wellesley are seen; these bring \$2 per dozen. Carnations hold up well and prices continue good, the best grades bring \$3 and \$4. Violets are about over, although a few are to be seen at 50c. Lilies are plentiful at \$3 and \$8. Callas bring \$3 and \$10; sweet peas, 75c and \$1; bulbous stock, \$1 and \$2. There is not much of this latter from outdoors yet. Some fine Spanish iris are seen, selling at \$3 and \$4. Gladiolus are good at \$1.50 per dozen. Stocks bring \$2 and \$3; mignonette, \$2 and \$3. Snapdragon is fine at \$6 and \$8, and lily of the valley holds its own at \$2 to \$5. J. W. D.

PHILADELPHIA.—The market is in fairly good condition. There is not sufficient business to create a brisk demand, yet most stock cleans up well. We observe more inclination on the part of the wholesalers to clean up; if any particular stock goes slow the price is made an inducement in order to clear out. American Beauty of the very choicest, selected for shipping, are bringing \$4 per dozen; most of the stock by the dozen goes at \$2 to \$3. Prices by the 100 range from \$20 to \$25. Tea roses are plentiful, and values easy, even the very choice flowers of Richmond realize \$15 per 100, but go slow; choice Liberty and Mme. Abel Chatenay are held at \$10 and \$12 per 100; general stock of teas selling at 100; carnations are still off in supply; some extra choice sell at \$4 to \$5, general stock at \$2 and \$3 per 100. Violets are becoming scarce; prices this week range from 50c to 75c per 100. Lilies are not quite so plentiful at \$10 per 100. Daisies, choice yellow, go at \$3 per 100, other stock \$1.50 and \$2 per 100. Sweet peas, choice fancy colors, sell at \$2; regular stock, \$1 per 100. Gardenias, supply large, general price \$12.50 per 100. Antirrhinum majus bring \$1.50 to \$2 per 100 for extra long choice spikes; lily of the valley, \$2 to \$4 per 100; stocks, white and pink, \$2 to \$5 per 100; Cattleya Mossia, \$50 to \$60 per 100. DAVID RUST.

NEW BEDFORD, MASS.—The cut flower business continues active, with funeral work quite plentiful. The supply of stock is none too plentiful as yet. Prices remain unchanged.

We are now getting a little warmer weather, which will help out matters a little. Garden work is now in full swing, most of the florists have got large gangs at work rolling lawns, etc.

Memorial Day will soon be here with its rush, and everyone is busy preparing for that day. Pansies are now in full bloom; they bring 25c, 35c and 50c per dozen, according to grade.

HORTICO.

INDIANAPOLIS.—Exceptional conditions still characterize the flower business. The weather remains cool, and stock of all kinds is at a premium. Counter trade, also funeral work, have been brisk, but it is with difficulty that a variety of flowers is obtained with which to fill orders. Bulbous stock which a month previous would have been passed by, is now eagerly taken at winter prices.

The anticipated carnation shortage is being seriously felt; medium grades are wholesaling at \$4 per 100; increased prices, though, do not cause a sufficient supply.

Many inquiries from surrounding towns indicate that the school commencement season has begun. The orders for Indiana's graduates are mostly unpretentious, but the numbers add decidedly to the shipping trade.

It has been necessary to frequently order roses from a distance, as the local supply is short. Prices have an upward tendency. Select Bride, Bridesmaid and Golden Gate wholesale at \$8 per 100. American Beauty have had a popular week at \$5 to \$35 per 100. Richmond, too, sell well, as the quality is excellent, at \$8 to \$12 per 100.

Many thousand sweet peas are being marketed at a most opportune time; 75c to \$1 per 100 is the prevailing price for the growers. These flowers are usually offered by the store men in 25c. and 50c. bunches. Callas and Harrisii lilies are taken early in the day at \$3 to \$10 per 100. Marguerites, candytuft, heliotrope and ranunculus stocks are in evidence at Tomlinson Hall market. Both wholesale and retail houses have been active enough to enable all to sell out early.

The plant situation, bedding stock expected, is a most desolate one. A few roses and hydrangeas constitute everything offered.

ST. LOUIS.—The market the past week was in a fairly good condition, with everything in season except carnations, which are reported very scarce. The retailers seemed to have had a good deal of work last week for wedding receptions, dinner parties and funeral work; for the latter quite a number of very large designs were made up. The plantsmen are all ready for planting out just as soon as the weather permits, all having plenty of fine stock and orders to keep them busy right into the month of June.

The stock of cut flowers at the wholesale market this Monday morning seems to be limited. Carnations are in very short supply, and prices up to \$5 per 100 on fancy grades; \$3 to \$4 on ordinary stock, and \$2 for common and splits. With roses it is just the other way; there are plenty of them and prices are low for 1,000 lots. Bride and Bridesmaid are more plentiful than any of the others. Richmond and Killarney are good quality. The prices range from \$6 to \$8 for choice, \$3 to \$4 for firsts, and \$1 to \$2 for shorts in 100 lots. American Beauty, in the long fancy grades, are selling low; \$3 per dozen. Other grades of these are in plenty and sell at about the price of the smaller roses. Lily of the valley is not going so well, and the market has plenty of good stock at \$3 and \$4 per 100. Harrisii are selling well; so are callas, at \$10 to \$12.50 per 100. Outdoor stock, such as Cape jasmines, peonies and irises, are expected soon.

All greens are in plenty with a good demand. Fancy ferns are not any too extra in quality, with prices up to \$3.50 per 100. ST. PATRICK.

CINCINNATI.—Business remains very good and flowers are not plentiful. Bride, Bridesmaid and Kaiserin Augusta Victoria are selling at 3c, 4c, 5c, and 6c. Carnations are very scarce and 2c, 3c, and 4c. is the price obtained for them. Lilies and callas fetch \$1 per dozen; lily of the valley, 4c; Baby's breath, 50c per 100; stocks, 3c to 4c; snapdragon, 4c; forget-me-not, 50c per 100; fancy ferns, 25c per 100; adiantum, \$1 per 100; galax, 15c per 100; \$1 per 1000; leucothea sprays, 50c, per 100; green sheet moss, \$1 per bundle; sphagnum moss, \$1.25.

All stock is well cleaned up daily, which keeps the market in a good, healthy state. Sweet peas are getting a little more plentiful and fetch 5c. to 75c. per 100 for ordinary stock. Some Richmond roses are selling at 12½c. The outlook for Memorial Day is very gloomy; all outdoor stock is killed. E. G. G.

THE METARIE RIDGE NURSERY COMPANY LTD.
NEW ORLEANS, LA.
GROWERS OF CHOICE CUT FLOWERS
Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.

ST. PAUL.—The weather the past week was the principal factor in the cut flower business. Trade and the supply were about on an equal basis, the fore part of the week; business began to lag the latter part and to finish it up Saturday we had one of the worst snowstorms of the year, consequently business was brought to a standstill. The inclement weather of a few days previous to Saturday was apparently a sufficient warning to the retailers and the stock carried by all of them was indeed small. The government weather bureau predicts zero weather, so we can not expect to do much for the next three or four days at least. The growers in general have been sending in some very fine stocks. Roses are much better than what we had them all season, Richmond and Killarney being especially fine; and the market has kept to from \$6 to \$10 per 100. The price of other varieties has dropped somewhat, Bridesmaid being quoted at from \$5 to \$8 per 100. American Beauty remain firm at from \$3 to \$5 per dozen. Carnations are shipped in in large numbers; the prices on them have fallen to \$1, the best blooms being offered at \$2 and \$4 per 100. Tulips and Paper White narcissus are about through, the small number still on the market are offered at \$1.50 and \$2 per 100. Smilax and asparagus are still scarce, the former being quoted at \$35 per 100 strings, the latter at \$50. Lily of the valley has suffered somewhat; there appears to be a great deal of it on hand, but the demand is so small that some loss is felt. Violets are about over for the season; only one grower has them and he quotes them at from 75c to \$1 per 100. PAUL.

KALAMAZOO, MICH.—The continued cold and cloudy weather during April has had the effect of stiffening prices somewhat, even if business is rather more dull than it ought to be. Carnations are getting to be quite scarce and there are no prospects for a very large supply for some time yet. Roses are and have been in much better supply; and enough of every other article to meet all demands. The month of May usually sees a good many roses planted, so the chances are this line of goods will diminish in supply before any glut of outdoor stock comes in.

The supply for Memorial Day, owing to the backward season, looks like an awkward prospect for the retailer, as the flowers demanded for that day require to be both freshly cut and cheap—a combination hard to meet unless there are enough outdoor flowers to help, and present indications do not encourage any large prospects for outdoor supplies this Spring.

Bedding plant trade will be hurt also by the late season; and the carnations, which ought to be planted this week, will also have to be kept under cover another week or two yet. Altogether the grower must expect to rush or crowd two weeks' work into one for a month or so after the weather becomes favorable. S. B.

COMING EXHIBITIONS.

TARRYTOWN, N. Y.—The preliminary schedule of prizes to be awarded at the ninth annual exhibition of the Tarrytown Horticultural Society has been issued by Secretary E. Neubrand. The show will be held in Music Hall, November 6, 7 and 8, 1907. A complete schedule will be issued later.

CHANGES IN BUSINESS.

RICHMOND, IND.—The B. K. & B. Florist Company has been incorporated with a capital stock of \$10,000. The directors are Charles Knopf, Louis Knopf and Nora Knopf.

FORT WORTH, Tex.—Baker Brothers Company has been incorporated, capital, \$40,000, to grow and sell seeds, flowers, plants, etc.

PORT WORTH, Tex.—Baker Brothers Company has been incorporated, capital, \$40,000, to grow and sell seeds, flowers, plants, etc.

FORT WORTH, Tex.—Baker Brothers Company has been incorporated, capital, \$40,000, to grow and sell seeds, flowers, plants, etc.

PLANT CULTURE
Price, - - - \$1.00.
A. T. De La Mare Pig. & Pub. Co.

FIRMS WHO ARE BUILDING.

CHESTER, W. VA.—The Foley Manufacturing Company, Chicago, is building for C. A. Smith extensive palm, orchid, fruit and vegetable houses.

WAUSAU, WIS.—M. Phillip is making plans for the erection of several large greenhouses on property which he recently purchased in the First ward.

PORTLAND, ME.—F. H. Chase is enlarging his greenhouse by a 100-foot addition and Leighton Bros. are planning to build a new one 80 feet in length this Spring.

YELLOW SPRINGS, O.—W. H. Brown & Sons, nurserymen, are contemplating the erection of two large greenhouses and vastly extending their business.

KALAMAZOO, MICH.—G. Van Bockhove and Brother begin shortly the erection of several more houses at their Rose Hill plant. The material is already on the ground. S. B.

SCRANTON, PA.—Morel Brothers have just about completed a fine range of new houses, erected by the King Construction Company at a cost of about \$15,000.

NORTHAMPTON, MASS.—R. B. & A. B. Graves of Bridge street, who have carried on an extensive greenhouse business for a number of years, are to enlarge their business this year by going into market gardening on an extensive scale. They are planning to raise 23 acres of vegetables this Spring and Summer and in the Fall will probably erect one or more greenhouses in which to raise Winter vegetables.

New Orleans, La.

Trade Notes.

The sale of Spring plants in this city is rather slow. Mild open Winters are very pleasant from one point of view, but from a business standpoint perhaps not so profitable, as when soft stock survives the Winter without any protection, the people keep their money in their pockets and the florist keeps his plants. After an abnormally dry Spring we are getting copious rains at last; in fact, a little too copious. Nearly seven inches of rain fell yesterday (April 25).

As the average rainfall for this vicinity for the month of April is only three inches, some idea can be formed of how it came down.

U. J. Virgin, the Canal street florist, has been elected a member of the City Park Association, which has charge of one of the two large parks of this city.

Paul Abele of the firm of Abele Brothers has a newcomer—another boy.

On Sunday, April 13, the New Orleans Horticultural Society with other gardeners and friends, upon the invitation of A. Alost repaired to Rose Villa on Gentilly avenue, where a sumptuous repast awaited them. After the usual toasts and the presentation to the host and hostess of a fine rocking chair, a stroll was taken around the grounds to view the roses growing in the open field. Here Zella Pradel is grown by the acre, and they cut it by the hamperful. Mr. Alost finds this variety very profitable for his Spring and Summer trade. The patches of Cape jasmine were noticeable for their clean, vigorous growth and well-developed flower buds. The several greenhouses of assorted plants were also found in good order.

A visitor from the North to New Orleans at the present time would be impressed with the beauty of the oleander as an outdoor shrub. The warm Winter was especially favorable to the plants, for just now they are a magnificent sight. There are numerous varieties grown here; they seem to be popular with everyone, and justly so.

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Consignments Solicited.

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ORCHIDS AT ALL SEASONS
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Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	10.00 to	20.00	Carnations	In'r grades, all colors.....	1.00 to	1.50
	" extra.....	5.00 to	10.00		STANDARD White.....	1.00 to	2.00
	" No. 1.....	6.00 to	8.00		" Pink.....	1.00 to	2.00
	" No. 2.....	4.00 to	6.00		" Red.....	1.00 to	2.00
	" No. 3.....	1.00 to	8.00		" Yel. & Var.....	1.00 to	2.00
	Bride, Maid fancy-special.....	5.00 to	6.00		" White.....	2.00 to	8.00
	" extra.....	3.00 to	4.00		" *FANCY— " (The highest " grades of " standard var) Yel. & Var.....	2.00 to	3.00
	" No. 1.....	2.00 to	3.00		" NOVELTIES.....	4.00 to	5.00
	" No. 2.....	1.00 to	2.00		FREESIAS, per doz. bunches.....	.75 to	1.00
	" Golden Gate.....	1.00 to	3.00		GARDENIAS, per doz.....	1.00 to	2.00
RICHMOND.....	2.00 to	10.00	LILAC, per bunch.....	.50 to	1.00		
Mme. Abel Chatensy.....	1.00 to	6.00	LILIES.....	4.00 to	6.00		
ADANTUM.....	.50 to	1.00	LILY OF THE VALLEY.....	1.50 to	3.00		
CROWEANUM.....	1.00 to	1.50	MIGNONETTE.....	1.00 to	4.00		
ASPARAGUS.....	25.00 to	50.00	NARCISSUS, White.....	1.00 to	2.00		
" Plumosus, bunches.....	15.00 to	25.00	" Yellow.....	1.00 to	2.00		
" Sprenger, bunches.....	15.00 to	25.00	ROMAN HYACINTHS.....	12.00 to	15.00		
CALLAS.....	6.00 to	8.00	SMILAX.....	.50 to	1.00		
CATTLEYS.....	40.00 to	60.00	SWEET PEAS, per doz. bunches.....	1.00 to	2.00		
CYPRIDIPEDIUM.....	12.00 to	15.00	TULIPS..... to		
DAISIES.....	1.00 to	3.00 to to		

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Pittsburg.
Trade Notes.
Weather conditions have changed somewhat and we have had several days of real Summer which should have a good effect on trade all around. Stock is at present plentiful, but a week or more ago there was quite a scarcity, particularly of carnations. Roses are coming in fine. Lilies are also in abundance.

Plant trade should pick up now if the good weather continues. The month of April was the coldest we have had for many years, also too wet, delaying all outside work, consequently the next few weeks will be very busy ones for the grower and plantsman.
Howard Carney, with Murdoch & Company, wholesale cut flower dealers, feels very happy and shows it, too; the reason—a 12-pound boy who arrived a few days ago. Both mother and child are doing well.

The partnership heretofore existing between N. A. Blaney and D. A. Malie was dissolved a week ago. The business will be continued by Mr. Malie at the same stand in the Allegheny market.

The next meeting of the Florists' Club takes place Tuesday, May 7. The "Credit System" will be up for discussion and about six members are expected to give short talks on the subject.

D. F. Ludwig is spending a week at Cambridge Springs, taking a rest and the waters.
E. C. REINEMAN.

Allentown, Pa.
O. J. Sawyer, who has been renting the greenhouse property of Geo. W. Fetzen, has recently closed a deal for the purchase of the plant. Mr. Fetzen is now out of the florist business in this city. Mr. Sawyer is situated close to the cemetery and has a good trade in both plants and cut flowers.
J. M.

S. S. PENNOCK-MEEHAN Co.

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Bell and Keystone Phones

H. G. BERNING

Wholesale Florist
1402 Pine Street, ST. LOUIS, MO.

W. E. McKISSICK,
Wholesale and Commission Florist
Business hours: 7 A. M. to 8 P. M. 1221 FILBERT ST., PHILA., PA

Wholesale Prices of Cut Flowers—Per 100

Boston Apr. 29, 1907	Buffalo Apr. 29, 1907	Detroit April 22, 1907	Cincinnati April 29, 1907	Baltimore April 25, 1907	NAMES AND VARIETIES	Milwaukee April 22, 1907	Philadelphia Apr. 22, 1907	Pittsburg Apr. 30, 1907	St. Louis Apr. 29, 1907
20.00 to 30.00	25.00 to 30.00	to 25.00	to 30.00	to 25.00	A. BEAUTY , fancy-special	to 25.00	25.00 to 35.00	20.00 to 25.00	20.00 to 25.00
10.00 to 20.00	20.00 to 25.00	to 20.00	to 20.00	to 20.00	" extra	to 25.00	15.00 to 20.00	12.50 to 15.00	12.50 to 15.00
4.00 to 10.00	15.00 to 20.00	to 20.00	to 15.00	to 15.00	" No. 1	15.00 to 18.00	12.00 to 15.00	5.00 to 8.00	5.00 to 10.00
2.00 to 4.00	3.00 to 5.00	to 2.00	to 4.00	to 3.00	" Culls and ordinary	4.00 to 8.00	3.00 to 10.00	2.00 to 3.00	3.00 to 5.00
8.00 to 10.00	8.00 to 10.00	6.00 to 15.00	to 10.00	to 10.00	BRIDE , "MAID", fancy-special	to 10.00	10.00 to 12.00	to 10.00	8.00 to 10.00
4.00 to 8.00	6.00 to 8.00	to 4.00	to 5.00	to 6.00	" extra	to 8.00	6.00 to 8.00	6.00 to 8.00	5.00 to 6.00
2.00 to 4.00	4.00 to 6.00	to 3.00	to 4.00	to 5.00	" No. 1	to 5.00	4.00 to 5.00	to 4.00	3.00 to 4.00
1.00 to 2.00	3.00 to 4.00	to 2.00	to 3.00	to 4.00	" No. 2	to 4.00	to 3.00	to 3.00	to 4.00
to 2.00	4.00 to 6.00	to 3.00	to 4.00	to 5.00	GOLDEN GATE	4.00 to 8.00	6.00 to 15.00	to 3.00	to 3.00
2.00 to 12.00	3.00 to 10.00	to 3.00	to 5.00	to 5.00	K. A. VICTORIA	4.00 to 12.00	6.00 to 20.00	4.00 to 10.00	3.00 to 8.00
to 3.00	3.00 to 5.00	to 2.00	to 4.00	to 5.00	LIBERTY	4.00 to 12.00	6.00 to 20.00	4.00 to 15.00	to 3.00
to 3.00	to 6.00	to 2.00	to 4.00	to 5.00	METEOR	to 4.00	to 6.00	to 4.00	to 5.00
to 1.50	to 2.00	to 1.50	to 2.00	to 3.00	PERLE	4.00 to 6.00	to 4.00	4.00 to 6.00	3.00 to 5.00
1.00 to 2.00	1.50 to 2.00	to 1.00	to 1.50	to 2.00	ROSES	to 2.00	to 3.00	1.00 to 1.50	2.00 to 2.50
1.50 to 2.00	1.50 to 2.00	to 1.00	to 1.50	to 2.00	ORCHIDS —Cattleyas	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50
1.50 to 2.00	1.50 to 2.00	to 1.00	to 1.50	to 2.00	inferior grades, all colors	to 2.00	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50
1.50 to 2.00	1.50 to 2.00	to 1.00	to 1.50	to 2.00	Standard	to 2.00	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50
1.50 to 2.00	1.50 to 2.00	to 1.00	to 1.50	to 2.00	White	to 2.00	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	Varieties	to 3.00	3.00 to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	Red	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	Yellow and var.	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	White	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	Fancy	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	Varieties	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	Red	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	Yellow and var.	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	CARNATIONS	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	NOVELTIES	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	ADIANTHUM	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	Asparagus, Plum. and Fern	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	" Sprengeri, bunches.	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	CALLAS	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	DALISIES	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	LILIES	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	LILY OF THE VALLEY	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	MIGNONETTE , ordinary	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	" fancy	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	SMILAX	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	VIOLETS , ordinary	3.00 to 4.00	to 4.00	to 4.00	to 5.00
3.00 to 4.00	2.00 to 3.00	to 3.00	to 4.00	to 5.00	" fancy	3.00 to 4.00	to 4.00	to 4.00	to 5.00

Philadelphia.
News Notes.
The social season is practically at an end; most of the prominent families have gone to their country places, and while there have been many weddings they have nearly all taken place in the country.
William P. Craig on Monday last invited some of the prominent gardeners around this city to see his new fern, *Nephrolepis Amerpohlii*, and made a proposition to them, to loan each one three plants to grow on, the plants to be brought into the August meeting of the Florists' Club and prizes of \$10, \$7.50 and \$5 to be awarded to the three exhibitors having the best plants, the man taking first prize to get one plant in addition to the money. Those who entered this competition were Joseph Hurley, gardener to Mr. James W. Paul, Jr.; Wm. Kleinheinz, gardener to Mr. P. A. B. Widener; David Emory, gardener to Mr. Percival Roberts, Jr.; Thos. Long, gardener to Mr. George W. Childs Drexel; John Hedland, gardener to Mrs. A. L. Elkins; Samuel Batchelor, gardener to Mr. C. B. Newbold; John McCleary, gardener to Mrs. R. J. C. Walker; Wm. Robertson, gardener to Mr. John W. Pepper.
At the May meeting of the Florists' Club J. Otto Thilow, of Henry A. Dreer, Inc., will speak on the "Organization and Equipment of a Modern Horticultural Establishment."
H. Bayersdorfer & Company have an extra force in their factory; the demand for metal wreaths with this firm is larger than ever before. For Memorial Day they are making up wreaths on orders taken from photographs, and also many on special designs for customers.
Daniel B. Long, Buffalo, spent last Saturday in this city calling on his customers and looking up matters for next August in connection with the S. A. F. convention.
The seed stores report an unprecedented demand for lawn grass seed this Spring, owing to so many bare lawns from the ravages of the Fall grass last year.
Part of the old nursery, "now used as a retail nursery" of Thomas Mehan's Sons has been sold for building purposes. The stock is now being cleared off.
DAVID RUST.

BOSTON, MASS.
WELCH BROS.
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226 Devonshire Street.
Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268

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Wholesale Florist
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Bet. Market and Chestnut Streets.
CHOICEST STOCK ALWAYS ON HAND
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CUT FLOWER CO.
WHOLESALE FLORISTS
1516-18 SANSON STREET
High Grade Cut Flowers
Open Evenings until 8.

Headquarters in
WESTERN NEW YORK
For Roses,
Carnations
And all kinds of Seasonable Flowers.
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Wholesale Commission Florist
Also dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St. BUFFALO, N. Y.
Give us a trial. We can please you.



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COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
 White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00.
 Bountiful. Per 100 \$2.75, per 1000 \$25.00.
 Enchantress. Per 100 \$2.00, per 1000 \$18.00.
 Book orders now. Quality guaranteed. If you don't like them we pay express both ways.
 Catalogue Free.
E. F. WINTERSON & CO. Wholesale Cut-flowers and Florists' Supplies
 46-47-49 Wabash Ave., Chicago, Ill.

Chas. W. McKellar
ORCHIDS
 FANCY VALLEY, ROSES, CARNATIONS,
 and all CUT FLOWERS and GREENS
 51 Wabash Ave., Chicago

VAUGHAN & SPERRY
 Wholesale Florists
 Valley, Carnations and Roses
 58-60 WABASH AVE., CHICAGO.

Be your own Commission Man
 THE
FLOWER GROWERS MARKET
 furnishes the facilities
 See PERCY JONES, Mgr.
 60 Wabash Ave. CHICAGO

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 Wholesale
 Grower of **Cut Flowers**
 CHOICE AMERICAN BEAUTY ROSES
 We will take care of your orders at reasonable prices. Prompt attention.
 35 Randolph Street, CHICAGO, ILL.

J.A. BUDLONG
 37-39 Randolph Street, CHICAGO.
 Wholesale
 Roses and Carnations
 A Specialty.... GROWER of **CUT FLOWERS**

Wholesale Prices of Cut Flowers, Chicago, April 30th, 1907
 Prices quoted are by the hundred unless otherwise noted

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J. B. DEAMUD CO.
 Wholesale Cut Flowers
 51 Wabash Av., CHICAGO
 Consignments Solicited

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 WHOLESALE GROWERS OF
CUT FLOWERS
 All telegraph and telephone orders given prompt attention.
 51 Wabash Ave., CHICAGO

E. G. HILL CO.
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RICHMOND, INDIANA

CHICAGO ROSE CO.
 Rose Growers and Commission Hand-
 lers of Cut Flowers
FLORISTS' SUPPLIES
 Wire Work our Specialty
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 Wholesale Growers and Shippers of
CUT FLOWERS
 51 Wabash Ave., CHICAGO.
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All Leading Varieties of **Roses and Carnations**
PETER REINBERG
 Wholesale Cut Flowers
 51 Wabash Ave., CHICAGO, ILL.
 Headquarters for American Beauty Rose

SINNER BROS.
 WHOLESALE CUT FLOWERS
 60 Wabash Ave., Chicago.
 Careful attention to all
SHIPPING ORDERS.

A. L. RANDALL CO.
 Western Headquarters for
 Up-to-Date Florists' Supplies
 Write for Catalogue
 No. 19 RANDOLPH ST., - CHICAGO.

ROSES American Beauty

36-inch stems.....per doz.	..... to 4.00
30-inch stems.....	..... to 3.00
24-inch stems.....	..... to 2.00
20-inch stems.....	..... to 1.50
18-inch stems.....	..... to 1.00
12-inch stems.....	..... to .75
8-inch stems and shorts	..... to .50
Sride Maid, fancy special.....	8.00 to 10.00
..... extra.....	..... to 5.00
..... No. 1.....	2.00 to 4.00
..... No. 2.....	2.00 to 8.00
Golden Gate.....	2.00 to 8.00
Uncle John.....	2.00 to 8.00
Liberty.....	2.00 to 8.00
Richmond.....	2.00 to 8.00
Kilbuck.....	2.00 to 8.00
..... extra.....	10.00 to 12.00
Perle.....	2.00 to 8.00
Obatenay.....	2.00 to 8.00
Callas	8.00 to 10.00
HYACINTHS, Roman.....	..... to 2.00
Nazc. Single Yellow.....	1.00 to 2.00
Tulpe, White.....	2.00 to 3.00
..... Yellow.....	3.00 to 4.00
Mignonette.....	2.00 to 6.00
FORGET-ME-NOT.....	.50 to 1.00

CARNATIONS

White.....	5.00 to 3.00
STANDARD Pink.....	2.00 to 3.00
VARIETIES Bed.....	2.00 to 3.00
..... Yellow & var.....	2.00 to 3.00
..... White.....	3.00 to 4.00
*FANCY Pink.....	3.00 to 4.00
(The high- set grades) Red.....	3.00 to 4.00
DESID' var. Yellow & var.....	3.00 to 4.00
NOVELTIES.....	..... to
ADIANTUM.....	.75 to 1.50
ASPARAGUS, Plum & Ten.....	.35 to .50
..... Sprengert, bunches.....	.35 to .50
LILIES, Longiflorum.....	12.00 to 18.00
..... HARRIS.....	12.00 to 18.00
SWEEP PEAR.....	50 to 50.00
SMILAX.....	16.00 to 25.00
LILY OF THE VALLEY.....	2.00 to 4.00
VIOLETS.....	.50 to 1.00
HARRY FERNS per 1000.....	2.00 to 2.50
GALAX.....	1.00 to 1.25
JONGUELS.....	2.00 to 3.00
..... Sweet Peas.....	.50 to 1.00
SNAPDRAGON.....	4.00 to 8.00
.....	..... to
.....	..... to
.....	..... to
.....	..... to

Poehlmann Bros. Co.
 Wholesale Growers of
 and Dealers in **Cut Flowers.**
 All telegraph and telephone orders given prompt attention.
 Greenhouses: 35-37 Randolph St.,
 MORTON GROVE, ILL. CHICAGO.

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 Send us your Orders for delivery in the Northwest, which will have our best attention.
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 Florists, St. Paul, Minn.

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 WHOLESALE FLORISTS
 and FLORISTS' SUPPLIES
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 and FLORISTS' SUPPLIES
C. C. Pollworth Co.
 MILWAUKEE, WIS.

Your Money is well spent when you
 advertise in

E. H. HUNT
The Old Reliable
 FOR
CUT FLOWERS AND SUPPLIES
 76-78 Wabash Avenue, CHICAGO.

The Week's News.
 The weather is anything but warm as yet, though we are reminded that Spring is here at last by the hursting into bloom of the magnolias, and the beds of hyacinths, tulips and pansies that are taking on their color in the parks. Rarely does the month of April go through in this city without us having a decided warm spell of some days' duration, but this year has been an exception, and we would not be surprised if this did not prove a record cool month for April.
 Wm. Scollay, of the firm of John A. Scollay, horticultural engineers, Brooklyn, had a surprise the other day; his only daughter, Amelia Florence, having been married quietly to Edward Jose Sanchez. The surprise was tendered to Mr. Scollay in the shape of a note from his daughter placed on his plate at the breakfast table. That day being the twenty-first anniversary of his daughter's birthday, he combined the two events in a very pleasurable manner by getting up an elaborate marriage feast and making everybody happy. The newly married couple will reside at 255 Linden avenue, Brooklyn.

John Ringier, one of the traveling men of the seed house of Stump & Walter Company, 50 Barclay street, has had to leave for Switzerland on account of his health. His territory on the road will be covered during his absence by Mr. Sterling, one of the office staff of the firm.

At Wm. Elliott & Sons' auction mart flowering plants are becoming a prominent feature. Recently geraniums, canas and pansies were disposed of in quantities under the hammer.

The backward Spring has caused much delay to those florists who do bedding out work in Greenwood Cemetery, and now that seasonable weather for such work has at last arrived, there is an unprecedented rush. Some of the florists located near the cemetery find it quite a problem to obtain competent help, as there is so much to be done in such a short time.

One of the daily papers recently, in drawing attention to the peculiar conditions that prevail in renting places in and about City Hall Park, stated that the flower stand located under the elevated railroad stairs in that park paid only \$300 per year rent, while at the same time there is a standing offer from some other dealer who will pay \$3,000 per year for the same place.

J. H. Reese, formerly buyer for the flower and plant section in the department store of Abraham & Straus, Brooklyn, N. Y., and who has lately had charge of the books of the firm of Bonnet & Blake, wholesale florists, Brooklyn, has purchased the retail flower business of Charles Koch at 301 Flatbush avenue, and took possession on Wednesday, May 1.

One of the plate glass windows in the store of W. F. Sheridan, wholesale florist, 39 West Twenty-eighth street, was broken some time during Sunday night. Just who did the damage could not be found out. The glass was replaced on Wednesday.

Gunther Brothers moved into their new store at 114 West Twenty-eighth street on Wednesday. They are having extensive alterations made and are installing a new ice box.

Paul Loeber, traveling salesman for A. T. Boddington, who is ill in a Boston hospital, has been very low, but is now improving slowly.

Mr. and Mrs. Carl Jurgens, Jr., of Newport, R. I., were in town this week on their way to the Jamestown, Va., Exposition. Other visitors in town were Mr. Ferguson, of Dupuy & Ferguson, Montreal, Quebec; J. A. Peterson, Cincinnati, O., and Mr. and Mrs. Wm. Jurgens, Newport, R. I.; and Mr. Graham, Cleveland, O.

Harry van Koolbergler, representative of Ottolander & Nooftman, Boskoop, Holland, sailed for home on Wednesday, May 1, having had a very successful trip while in this country. He reports a large sale for the new pink Rambler rose Anny Muller.

John F. Bingham, a florist of Oyster Bay, L. I., and who recently was elected to the office of Assessor, died on Tuesday, April 30, from pneumonia. He was about 35 years old.

Syracuse, N. Y.

Trade Notes.
 Trade has been very good since Easter. The weather has been most unseasonable, snow and hard frosts prevailing most of the time. All the florists are very anxious to have settled weather so that they can get their carnations planted outside.

Hans Chinn, who was with L. E. Marquisee for more than twelve years and who is now taking a long vacation in England, recently met with a very painful accident while out shooting with a friend whose gun was accidentally discharged, the shot taking effect in Mr. Chinn's eye. It is feared the injury will be permanent.

Buffalo.

Trade News.
 Business the last few weeks has been good, considering the weather, which with the exception of the last two or three days has been nearer that of February than anything else. Flowers of all descriptions have been selling well and bringing fair prices. The funerals of several of our prominent citizens called for many fine floral designs.

Walter Stroh, of Palmer's has returned from Batavia, where he was called on account of the serious illness of his brother.

WASHINGTON, N. J.—Alonzo J. Bryan is now in his second season's business here. Mr. Bryan has a new plant and has a ready demand for all he can produce. His pansies were especially good.

New Crop of Dagger and Fancy Ferns

NOW READY \$2.000 PER 1000
HEADQUARTERS FOR HARDY CUT GREENS AND FLORISTS' SUPPLIES

<p>New Crop Brilliant Bronze and Green Galax, \$1.00 per 1000, \$7.50 per case of 10,000.</p> <p>Southern Wild Smilax \$8.50 and \$7.00 per case.</p> <p>Laurel Festooning, good and full, 5c. and 6c. per yard.</p>	<p>Branch Laurel, 50c. per bundle.</p> <p>Leucothoe Sprays, \$1.00 per 100.</p> <p>Sphagnum Moss, 50c. per bag; five bags \$2.00.</p> <p>Green Moss, \$1.00 per bbl.</p>
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FLORIST'S SUPPLIES—A full line of florist's supplies, wire frames, corrugated boxes, cut flower boxes, immortelles, Cyss leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.

15 Province St.—9 Chapman Pl.
BOSTON, MASS.

TEL. MAIN 2617-2618

Fancy or Dagger Ferns



Dagger Ferns, \$1.50 per 1000
Fancy Ferns, \$1.75 per 1000
Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
Boxwood, No. 1 Stock, 50 lb. cases, \$3.50
Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality.
Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
Southern Smilax, fancy stock, 50 lb. cases \$5.50
Laurel Branches, 35c. per bundle

Telegraph Office: New Salem, Mass.

Long distance telephone connections

CROWL FERN CO., MILLINGTON, MASS.

The Headquarters for All Florists' Supplies

IS IN

BROOKLYN at 76 COURT ST.

We carry a full line of staple goods, as well as an abundance of

NOVELTIES

In fact we have every requisite used by the retail florist.

WRITE FOR PRICES.

HICKS & CRAWBUCK, Inc., 76 Court St., Brooklyn, N.Y.
Tel. 3660 Main.

EXTRA FINE FANCY AND DAGGER FERNS

\$2.50 per 1000. Discount on large orders. Leucothoe Sprays, \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE
Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season
38 & 40 Broadway. Formerly **DETROIT, MICH.**
Miami Ave.
Send for our weekly price list on Cut Flowers.

REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

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53 W. 28th St., NEW YORK
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Stands at Cut Flower Exchange
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SPECIALTIES: Galax Leaves, Ferns and Leucothoe Sprays, Holly, Princess Pins and all kinds of Evergreens.

Green and Bronze Galax Leaves

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY
W. J. COWEE, BERLIN, N. Y.
Samples free. For sale by dealers.

SOUTHERN WILD SMILAX
BEAVEN'S FADELESS MOSS
NATURAL SHEET MOSS
E. A. BEAVEN, Evergreen, Ala.



WITTBOLD'S
Combination Vase
and Plant Stand

Has been used for the past 15 years and has proved itself an invaluable asset to the decorator.

Price \$15.00 per dozen

The Geo. Wittbold Co.
1657 Buckingham Place
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Hanging Baskets

State quality wanted and I will be pleased to quote prices.

WM. E. HIELSCHER
WIRE WORKS
38 MIAMI AVE. DETROIT, MICH

CUT FLOWER BOXES

Waterproof corner lock style. The best and neatest cut flower box on the market to-day.

No.	Per 100	1000	No.	Per 100	1000		
0	3x4x20	\$2.00	\$19.00	6	4x8x28	3.75	\$6.00
2	3x6x18	2.20	20.00	9	5x10x35	6.50	64.00
4	3x5x24	2.75	25.00	11	8x5x30	3.50	32.50

The above boxes are a few of our leading sizes. A complete list of all the sizes we manufacture mailed free on application. Add 50c. for printing on an order for 100 boxes, and 75c. for 500 boxes. No charge for printing on an order of 300 boxes, or over. Sample card heard free on application. Terms cash with order.

The LIVINGSTON SEED CO., Columbus, Ohio.

THE BEST WAY
to collect an account is to place it with the
National Florists' Board of Trade
56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.



Boston.
News of the Week.

The opening of the library of the Massachusetts Horticultural Society on Sunday afternoons seems to meet with marked success. While the attendance is not large, still it is gratifying to note that those who visit the library, go for the purpose of looking up some horticultural subject on which they wish information. The library committee has decided to allow any one interested who is not a member of the society the home use of books, provided they make a written application, which shall be endorsed by a member of the society.

Joseph F. Free has tendered his resignation as manager of the Park street flower market to take effect May 15. Mr. Free will continue in the market, however, as he will sell for Dolansky of Lynn and several other growers. Thos. Stock is cutting some extra fine white Spanish iris at present, and he has a fine lot of ranunculus which make an attractive variety at this season.

W. W. Rawson & Company are planning an extensive floral show during the season at their farm in Marblehead. They will grow over six hundred varieties of dahlias besides a large variety of hardy perennials and showy annuals. They have made arrangements to have a bed of their new Gladiolus Harvard at the International Horticultural exhibition at Mannheim, Germany, this Summer.

H. M. Robinson & Company have been so successful with their wholesale cut flower department that they have commenced to enlarge their storage room, and the ice chests will soon have three times their present capacity. The firm is now receiving consignments of excellent hardy cut ferns from the South.

Ed. Crowley, salesman for the Newtonville avenue greenhouses, is happy over the arrival of a son on Friday evening.

The New England Dahlia Society will introduce the American Dahlia Mrs. Roosevelt into Europe this season, having made arrangements to have it grown and exhibited at the leading shows in England and Germany.

James Tullis, So. Sudbury, is rebuilding some of his houses into one large structure, the size of his present large house. He makes a specialty of carnations.
J. W. DUNCAN.

Columbus, O.

New Notes. This week a new firm joins the florists' craft here—The Columbus Floral Company, with headquarters at 187 South High street. Mrs. H. D. Jones is the owner and manager. Mrs. Jones is a daughter of Gustave Drobisch, who is the oldest established florist in this part of the State. Mr. Drobisch, who is the proprietor of the Cottage Rose Garden, will supply the new firm with plants; and the supply of cut flowers will be obtained from Chicago dealers. The new company has been fortunate enough to secure a nice store in a very good location, and there is no reason why a fine business should not be done, especially as Mrs. Jones has had a long and thorough training in this trade while with her father.

Business has been better the past week. Stock of all kinds is somewhat short, especially carnations, as the weather continues cold and unseasonable. For a while now roses and carnations will have to fill the gap, until with warmer conditions some outdoor stock relieves the situation, as bulbous stock and violets are practically over. Prices are therefore steadier and firmer.

Graft Brothers, who have for years by their special attention to orders for cemetery flowers, worked up quite a large business in this line, report that better weather is making this part of their business very brisk. A large trade is expected for Memorial Day.

Mrs. E. M. Krauss will this week remove from her present store at 209 South High street to 109, the same street. The new location will be much better for her increasing business, especially for over-the-counter trade in cut flowers, as she will now be in the shopping district.

We live in hopes that sometime it will get warmer than 50 degrees during the day. F. W.

FREE HOSE

trial. We send our "Florist" hose on 60 days trial; if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on guaranteed wrought iron pipe. Send for Free catalogue "Key" Holes, Ventilating apparatus, Tools, Valves and Fittings.

WILLIAM H. KAY, COMPANY.
214 Fulton Street, - - New York City.

GREENHOUSE GLASS ALL SIZES

16x24 A. & B. Double a Specialty
C. S. WEBER & Co.,
10 Desbrosses St., New York

Sheep Manure

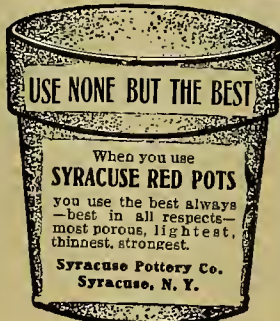
Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton, N. J.

IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.



THE BEST Bug Killer and Bloom Saver

For PROOF Write to
P. R. PALETHORPE CO.
LOUISVILLE, KY.

NIKOTEEN APHIS PUNK
THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS. \$6.50 PER CASE OF 12 BOXES.

NIKOTEEN LIQUID
FOR SPRAYING AND VAPORIZING
PRICE \$1.50 PER PINT BOTTLE. \$13.00 PER CASE OF 10 PINT BOTTLES.

NICOTINE MFG. CO. ST. LOUIS MO.



STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate	Price per crate	
1500 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20	
1500 2 3/4 " " " 5.25	60 8 " " " 8.00	
1500 2 3/8 " " " 6.40	HAND MADE	
1000 3 " " " 5.00	48 9 in. pots in crate, \$8.60	
800 3 1/2 " " " 5.80	48 10 " " " 4.80	
800 4 " " " 4.50	24 11 " " " 8.60	
820 5 " " " 4.61	24 12 " " " 4.80	
144 6 " " " 8.15	12 14 " " " 4.50	
	6 16 " " " 4.50	

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
Against Roker & Sons, Arta, 21 Barclay St., N. Y. City

Holds Glass Firmly FULL SIZE 1 1/2

See the Point & PERLEZ

Glassing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER,
714 Chestnut St., Philadelphia, Pa.

TOBACCO DUST OR SAW DUST WHICH???

211 North St.
Claremont N. H. Apr 5, '07

The H. A. Stoothoff Co.
New York

Dear Sirs—

Please ship me as follows

100 lbs Fumigating Tobacco powder	\$3.00
100 " Black stuff fine	2.00
144 sheets Aphicide,	3.50
10 Fumigating plates	.50
	<u>\$9.00</u>

Send the powder by freight, the Aphicide by express prepaid. I enclose check for \$22

Three or four years ago I had a bag of the Black stuff fine and it was without exception the best tobacco powder I have ever had. Since then I got some stuff from a seed house. I paid more for the article and got left on it. It was much like sawdust than anything else. Now I am coming back to you.

Yours truly
C. E. Stevens.

Say, Stevens, we would sure like to know from you and others like you "why you stray away" to folks who don't know tobacco powder from sawdust. We have been telling you and others in a hundred different ways how smart we are in the way of tobacco powder; that we have been in the tobacco powder business for twenty years, and why our tobacco powder should be and is, twenty years **AHEAD OF ALL OTHERS.** Again we ask, why you let the fellows that don't know, skin you, who should know, that the **BLACK STUFF FINE TOBACCO POWDER**, for dusting, at 2c. per pound, in our bag holding 100 pounds, with our name, address and brand on each bag, sold only by us, direct to you, is the only one. **WE WOULD LIKE TO KNOW.**

THE H. A. STOOHOFF COMPANY,
116 West Street, New York, N. Y.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St., NEW YORK

Evans Improved Challenge

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

Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
RICHMOND, IND.

For Greenhouses, Graperies, Hot beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given

GLASS
N. COWEN'S SON,
14 & 16 Wooster Street, NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

The American Carnation Price \$3.50
A. T. De La Mare Ptg. & Pub. Co., 2 Dnane St., New York

The Whilldin Pottery Co. STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.





YOU TAKE IT FOR GRANTED

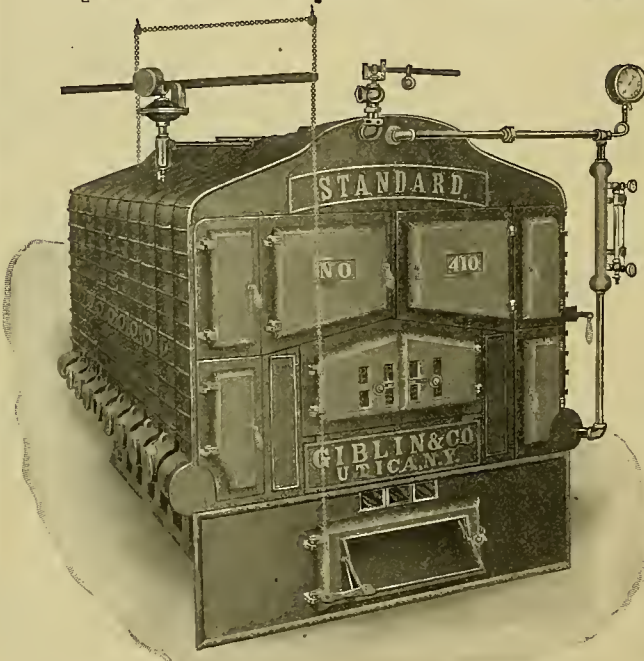
because a concern talks best of materials, that they of course, mean the right thing for the right place — but you are way wrong—for instance: When anyone talks wooden eave plate and wooden posts, they are trying to sell you something that the man who cares anything about reducing the shade or saving himself from almost immediate repair bills will have nothing to do with. The men who have given this thing hard thought, and then tried their thinks out by spending money to save money, have long ago proven that the Iron Frame House with our galvanized steel eave is the house to buy. So what's the use of your spending your good money to prove up what's already been proven for you? Write us and we'll figure it out with you on a hard pan, dollar and cents basis.

HITCHINGS and COMPANY

GREENHOUSE DESIGNERS AND BUILDERS. Manufacturers of Heating and Ventilating Apparatus
1170 Broadway, New York



WITH ZERO COMES REMORSE



Our greenhouse Catalogue is free for the asking. Write for it now.

For failure to supply sufficient heating capacity in the greenhouse. We suggest that you let us know your

TROUBLES

and requirements and we assure you we can help you. Our Line of Boilers is extensive. The one shown is the largest series, but we have boilers for every

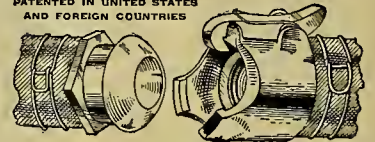
DEMAND

This is one man's experience with it:—

W. D. SNELL, Mohawk, N. Y., Jan. 21, 1907, says: "I have to report in regard to the No. 407 Standard Sectional Steam Boiler recently installed in my greenhouses, that it gives thorough satisfaction. About January 1st, I had occasion to note an incident that I consider worth reporting. The boiler was attended to, fuel furnished, grate shaken down and everything arranged for the night at 12 o'clock midnight. At that time the boiler showed two pounds steam. To test the boiler and see how long it would run without attention, I deferred giving it any further attention until 11 o'clock the following day. At that time the fuel needed replenishing, but steam had been maintained in the system practically all the time and at the time it was replenished, the gauge stood at two pounds pressure. The experiment showed that the boiler ran without any attention whatever for eleven hours carrying 7,000 square feet glass to about 55 degrees. The weather outside was about zero."

Giblin & Co.,
UTICA, N. Y.

PATENTED IN UNITED STATES AND FOREIGN COUNTRIES



A solid brass casting, made as shown or threaded to fit ordinary hose couplers and faucets. Hose can be coupled and uncoupled in any position with one hand. The washers are stationary and will last years. A half minute saved every time you change hose.

\$3.00 per doz. sets, two pieces.
\$2.25 per dozen females for faucets.
Discount on gross lots.

EMIL GLAUBER,
MONTCLAIR, COLO.



STANDARD Pumping Engines

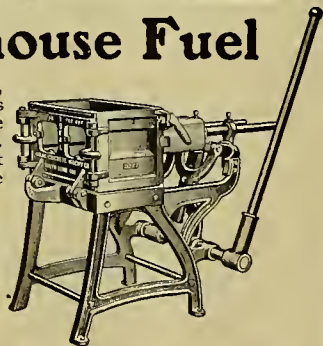
We invite correspondence from persons who do not know just what they want.

The Standard Pump & Engine Co.
CLEVELAND, O.

Your Money is well spent when you advertise in
THE FLORISTS' EXCHANGE

Save Greenhouse Fuel

With the Ideal Concrete Block Machine, any florist can build his own greenhouses at little cost. Saves in fuel, because the hollow block is practically frost-proof. Lowers insurance rates and ends the cost of maintenance, because Ideal Blocks are fire-proof and everlasting.



IDEAL Concrete Machine

The original and only perfected Concrete Block Machine working on the face-down principle.

Enables the manufacture of Ideal Concrete Blocks from sand, gravel and a little cement at a cost far lower than that of other building materials. May be operated by any man without previous experience. Low in cost, rapid in operation, and can never wear out or break in use.

Write for catalogue and illustrations of Ideal Concrete Block construction, of practical value to every florist. Sent Free.

IDEAL CONCRETE MACHINERY CO., Dept. Z, South Bend, Ind.



"The test of years is the real test."

Scollay Boilers

ARE BEST

See our advertisement in next issue. Catalogues sent on application.

JOHN A. SCOLLAY,
74-76 MYRTLE AVE.,
BOROUGH OF BROOKLYN,
NEW YORK CITY.
Telephones 1492-1493 Main.
U. G. SCOLLAY, Manager.

FRANK VAN ASSCHE GREENHOUSE BUILDER

Private or Commercial. Iron or Wood.

Factory and Yards: Fulton and Rose Ave. and Dwight St., Jersey City, N. J.

WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses Greenhouse Heating and Ventilating Apparatus

P. O. Address, Box 789, New York City.



U-BAR GREENHOUSES

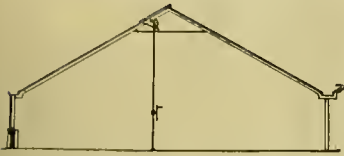
FOR FLORISTS' SHOW ROOMS, PARKS AND PRIVATE ESTATES.

PIERSON U-BAR CO.

Designers and Builders U-Bar Greenhouses

Metropolitan Building, 4th Ave. and 23d St., New York

Send for Catalog



The Greenhouse Structural Co.

840 West 4th Street, CINCINNATI, OHIO

Manufacturers of **IRON FRAME GREENHOUSES**
Re-enforcing for Concrete "Post and Board" Walls,
Ventilating Machinery, Iron Fittings, Iron Purllins
and Gutters for wood houses, etc., etc.
Send for catalogue and designs.

SAVE TIME AND MONEY

OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING,
VENTILATING APPARATUS, HOT-BED SASH

Putty--**GREENHOUSE GLASS**--Points

AT WHOLESALE

S. JACOBS & SONS,

GREENHOUSE CONSTRUCTION MATERIAL

1365-79 Flushing Ave.,

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The FOLEY VENTILATING APPARATUS.



Has met with great success, being the cheapest and best on the market; simple in make; powerful in operation. Less effort to work than any other machine.

HUNDREDS IN USE GIVING ENTIRE SATISFACTION.

Send for descriptive pamphlet and prices on

ALL KINDS OF GREENHOUSE MATERIAL.

Our large illustrated catalogue sent postpaid.

FOLEY MFG. CO., Western Avenue and 26th Street, **Chicago.**

Our visiting friends are heartily welcome to call and see our handsome new factory. Transfer to S. Western Ave. from any West Side street car and get off at 26th St.

ADVERTISING IN THE FLORISTS' EXCHANGE

IS SURE TO BRING RESULTS

If Both of Us Could Get Together and Talk it Over

about that new greenhouse, the chances are you would know more about the making of first-class material and about greenhouse construction in general—but you would not receive any better goods than if you ordered the same house on a postal card. We give every customer, large or small, a square deal—whether he calls on us or takes it up by mail. We give everybody full value for his money and the kind of material we know will make a first class greenhouse. We never sell anybody anything they do not want just to make a dollar more of profit. Honest goods, reasonable prices and fair treatment to everybody is our maxim.

If you want to know more about greenhouse construction send 10 cents for our booklet of instruction.

JOHN C. MONINGER CO.

CHICAGO

115 E. Blackhawk Street.

Look Here, Mr. Florist and Gardener

WE have just passed through an unusually severe winter and you are apt to forget the many sleepless nights you spent worrying about the temperature of that No. so and so house.

Or the many zero nights that you spent in the boiler pit; maybe you did not have to do the stoking and firing, but **you** certainly had to do the worry- and pay the coal bills.

Now keep the vows you made on those trying occasions, **And Send for me.** I have solved the problem for others, I can do it for you; and remember, I will come recommended by some of the most prominent commercial florists and gardeners in the East, "Personal friends of yours."

Wm. H. Lutton,

Heating Engineer

WEST SIDE AVE. STATION, JERSEY CITY, N. J.

GEO. M. GARLAND

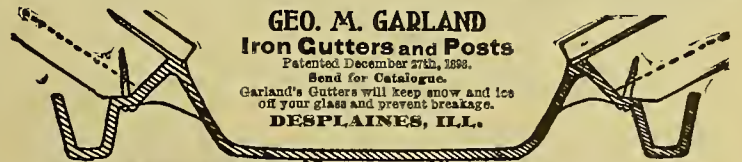
Iron Gutters and Posts

Patented December 27th, 1898.

Send for Catalogue.

Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.



A sample of this gutter is on exhibition at Chicago Flower Growers' Market.



IF you are going to build a greenhouse consult the pioneers in the manufacture of the stock. Cypress sash bars 32 feet or longer.

The A. T. Stearns Lumber Co.

NEPONSET,

Boston, - - Mass.



WHOLESALE TRADE LIST

Ageratum Priocess Pau'ne, Inimitable, Blue Perfection; **Salvia**, Ball of Fire; **Heliotrope**, Fuchsias, in variety, Cupheas, Ipomoea, heavenly blue; variegated **Pariwinkle**, **Lantana**, dwarf; **Cobaea Scandens**, **Parlor Ivy**, **Lobelia**, dwarf; **Snopdragon**, giant white; **Nasturtiums**, **Saxifraga Sarmenosa**, **Bouvardia Humboldtii**; **Shasta Daisies** 3 varieties. Night blooming **Jasmine**, **Viburnum Plicatum**, **Moonvine**, the two large flowering white variety. The above nice plants from 2 1/2 in. pots, 50c. per doz., \$3.00 per 100.

Anthericum Viltatum, hardy English Ivy, **Salvia**, Ball of Fire; **Fuchsias**, in variety; **Heliotrope**, variegated **Geraniums**, Mrs. Parker **Rose Geraniums**, **Clematis Paniculata**, variegated, **Pariwinkle**, **Swainsona Alba**, **Bouvardia Humboldtii**, strong plants from 3 in. pots, \$4.00 per 100.

Carnations, Vulcan, a fine, red variety for Summer blooming, \$2.00 per 100.

Seedlings From Flats, **Asparagus Sprengeri**, **Smilax**, **Dracaena Indivisa**, **Shasta Daisies**, **Ageratum**, Blue Perfection; **Verbena**, **Marguerite Carnations** for Summer blooming, \$1.00 per 100.

Clematis, large flowering varieties, fine, healthy 2 year-old plants; home grown; **Jackmanni**, **Henryi**, **Mme. Edouard Andre**, **Mme. Baroe** **Vieillard**, and others, \$3.00 per doz.

Ampelopsis Vetchii, **Clematis Paniculata**, 4 in. pots, \$1.50 per doz.; \$10.00 per 100.

Hardy Scotch Pinks, clumps from open ground, 5 varieties \$1.00 per doz.; nice young plants, \$3.00 per 100.

Asparagus Plumosus, and **Sprengeri**, fine plants, 5 in. pots, \$2.00 per doz.

Passiflora Coerulea and **Florida**, also **Mammoth Beauty**, a hardy variety, 4 in. pots, \$1.00 per doz.; 3 in. pots, 75c. per doz.

Dracaena Indivisa, fine plants, 5 in. pots, \$2.00 per doz.

11th & Roy Streets, C. EISELE, PHILADELPHIA, PA.

Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE



I Manufacture and Erect

Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your requirements.

JOHN A. PAYNE

Horticultural Architect and Builder
33 Clendenny Ave., Jersey City, N. J.
Sash opening apparatus and all kinds of greenhouse structural material.



The STANDARD VENTILATING MACHINERY

The original machine with self oiling caps; the most powerful, least complicated very compact, with ease of operation.
The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market.
The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

Greenhouse Material



Hot Bed Sash

of Louisiana Cypress and

Washington Red Cedar

Greenhouse Hardware and Post

Patent V and U Gutter.

OUR GRADE INVARIABLY THE BEST, OUR PRICES RIGHT.

Write for Catalogues and Estimates when figuring on your new houses.

A. DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL.

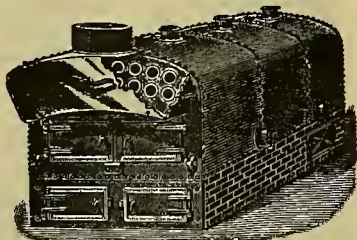
THE KROESCHELL BOILER

IS THE ONLY PERFECT HOT WATER BOILER

Made in 15 sizes heating 6,000 to 50,000 square feet glass to 60° at 15 below zero.

Prices and Catalogues on application.

KROESCHELL BROS. CO.
33 ERIE STREET, CHICAGO.



A. HERRMANN
Manufacturer of Floral Metal Designs

IMPORTER AND DEALER IN FLORISTS' SUPPLIES

FACTORY: 709 FIRST AVENUE, BETWEEN 40th and 41st STREETS, NEW YORK

OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.

WRITE FOR NEW CATALOGUE

Prices Advertised in these Columns are for

Now when you received that other estimate of the other chap that you thought would be so much lower than ours, did his price include priming the material?

Did he say HOW he primed the material? We tell you every once in a while the way we do this painting business; how cypress absorbs more oil than most woods, and that a mere brushed on prime coat could not be as lasting as our "soaked in" method. This soaked in method is simply placing the materials right in a vat of pure oil and oxide of iron, where they actually do soak. Then they are stood up to drip. The wood takes all the oil it needs; when you put on your second coat, the wood does not absorb all the oil, leaving the pigment ready to chalk off. Next week we are going to tell you something about a special white lead that we make, that prevents mildew or blisters.

Don't believe for a minute that the hardware man's or any other man's paint will do for a greenhouse. It must be a greenhouse paint made for greenhouses; that is if you don't want mildew or blisters.

For Sale:—Every part or any part for good greenhouses.

Lord & Burnham Co.
Greenhouse Designers and Manufacturers.

NEW YORK OFFICES
1133 Broadway, Corner 26th Street.

BOSTON BRANCH: 819 Tremont Building.
PHILADELPHIA BRANCH: 1235 Filbert Street

The Florists' Supply House of America

REMEMBER, Memorial Day is Coming

When you ought to have a good stock on hand

Metal Wreaths and other appropriate metal designs.
Magnolia, Ruscus, Laurel and Moss Wreaths, all sizes.
Loose Magnolia and Laurel leaves, green or bronze, very handy to make up special designs.
Immortelles, all colors. Moss Pillows. Our renowned Wheat Sheaves. Cycas Leaves and Wreaths.
Prime Cape Flowers. Sea Moss.

A Complete Line of Everything in Florists' Supplies

SEND FOR CATALOGUE.

H. Bayersdorfer & Co., 1129 ARCH ST., PHILADELPHIA, PA.

TILE DRAINED LAND IS MORE PRODUCTIVE

Earliest and easiest worked. Carries off surplus water; admits air to the soil. Increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Encaustic Side Walk Tile, etc. Write for what you want and prices. JOHN H. JACKSON, 50 Third Ave., Albany, N. Y.

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

THE FLORISTS' EXCHANGE

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

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

Vol. XXIII. No. 19

NEW YORK AND CHICAGO, MAY 11, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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

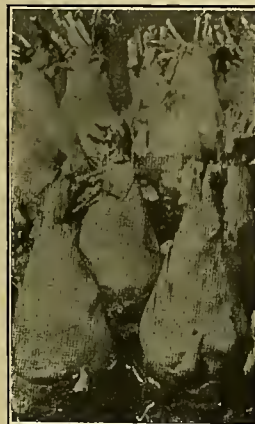


Grafted Stock

Richmond, Wellesley, Liberty, Bride, Bridesmaid, Bon Silene, Safrano, American Beauty and Mrs. Oliver Ames.

Splendid stock of ASPARAGUS PLUMOSUS NANUS SEEDLINGS, Seeds saved from my own plants.

W. H. ELLIOTT, Brighton, Mass.



Vaughan's XXX Florists' Mixture, made from named light and white kinds..... 1.75 15.00

Per 100 1000
Good Mixed \$.85 \$7.00
Fine Mixed, all colors..... 1.25 10.00
Childsii, fine mixed..... 2.00 18.00

Caladiums (Elephant's Ear)

Sound Bulbs, Live Center Shoots
Special Surplus Offer F. O. B. New York

9 to 12 inches in circumference \$4.00
12 inches and up..... 7.50

VAUGHAN'S SEED STORE
14 Barclay St., New York Tel. 1676 Cortlandt
CHICAGO, 84 Randolph St. Greenhouses, Western Springs



DAHLIAS—GERANIUMS

DAHLIA PLANTS

We offer a collection of Standard sorts that is second to none in the country, as far as covering the field of distinct useful varieties and novelties, running in price from \$2.00 per 100 to 50c. each. We will send 1000 our selection, 50 each, 20 kinds for \$12.00 in either Cactus, Decorative or Show, or to include some of all classes, or 500, 25 each of 20 kinds for \$9.00, not less than 500 at this price.

Souve. de Gustave Duson is one of the largest and one of the most pleasing shade of Orange Red, a giant in the Decorative class, \$1.50 per doz., \$10.00 per 100.

Prof. Mansfield, can best be described as a fancy Decorative of marvelous beauty, being a grand combination of white, yellow and rosy red, mammoth in size, often measuring seven inches, \$1.50 per doz., \$10.00 per 100.

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Caesar Franck. Beautiful soft crimson, double Ivy Geranium, 1905 Novelty, 25 cts. each, \$2.50 per doz., \$20 per 100.

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FUCHSIA. Extra strong stock, from 2 inch pots in the following varieties: Black Prince, Elm City, Lieut. Maur-

itz, Marinka, Minister Boucher, Minnetota, Mrs. Gladstone, Phenomenal, Rose Phenomenal, White Phenomenal and Speciosa, \$2.50 per 100, \$20.00 per 1000. (Special price.)

CALADIUM BULBS. 9 to 11 ins., \$2.00 per 100.

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10 in Bowl	\$1.10	Doz.	\$11.00
12 " "	1.25	"	13.00
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Are today The Choicest Primulas grown in America. The seeds are raised for us exclusively by an English grower who has the reputation of producing The Finest Primroses in Great Britain.

NOW IS THE TIME TO SOW

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Mixture of perfect Colors.

Dwarf Hybrids	} Each separate Tr. Pkt. \$0.50
Semi-Dwarf Hybrids	

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CHINESE PRIMROSE. Finest grown, large flowering, fringed, single and double. 15 varieties, mixed, 500 seeds, \$1.00; half pkt., 50c.

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GIANT PANSY. The best large-flowering varieties, critically selected, 5000 seeds, \$1.00; half pkt., 50c.; 500 seeds of Giant Mme. Perret pansy added to every \$1.00 pkt. of Giant Pansy.

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Cash. Liberal extra count of seeds in all packets.

VERBENAS. California Giants seedlings, finest grown, mixed, strong 2 in., \$2.00 per 100.

Lobelia. Large flowering, dwarf, blue; strong 2 inch; \$2.00 per 100.

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 The Home of Primroses.

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FOR IMMEDIATE DELIVERY.

	Per 100	Per 1000
Kentia Forsteriana, to arrive	\$0.75	\$6.00
Lantania Borbonica	.40	2.50
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For Immediate Sowing

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GLADIOLUS BULBS

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	Doz.	100	Doz.	100	Doz.	100		
Single White	\$0.40	\$2.50	Single Salmon	\$0.40	\$2.50	Double Rose	\$0.65	\$4.00
" Yellow	40	2.50	" Orange	40	2.50	" Dark Rose	65	5.00
" Nanken	40	2.50	" Mixed	35	2.25	" Dark Red	65	5.00
" Pink	40	2.50	Double White	85	5.00	" Red	65	5.00
" Rose	40	2.50	" Yellow	65	5.00	" Salmon	65	5.00
" Red	40	2.50	" Orange	65	5.00	" Mixed	60	4.00
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FLOWER SEEDS and BULBS

ASTER SEED. We are the leading specialists and largest growers of high grade Asters in the world, and have originated more of the standard varieties than all other American seedsmen combined. Five new varieties this past season. **One Packet of Each for \$1.00.**

Daybreak and Purity. 1/8 oz. 35c., 1/4 oz. 50c., 1/2 oz. 80c., 1 oz. \$1.50.

Vick's Branching. The original strain from which have come all others of any worth. White, Pink, Lavender, Rose, Crimson, Purple and Dark Violet, 1/8 oz. 20c., 1/4 oz. 35c., 1/2 oz. 65c., 1 oz. \$1.25.

Sweet Peas and Nasturtiums. A large supply of the newest and best varieties.

Flower Seeds for Greenhouse and Outdoor Planting. All the kinds which florists grow.

Dahlias, Gladioli, Cannas, Caladiums, Tuberoses, Tuberos Rooted Begonias, Geraniums, and all other tender and hardy plants in season.

The Spring trade has opened very briskly, pointing to another record breaking season. We are prepared to execute all orders the day they arrive. We should like to be favored with an order from you to-day. Address "Wholesale Department" and state whether you are a florist or dealer.

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CALADIUM ESCULENTUM, 5-7 per 100, \$1.00.
CALADIUM ESCULENTUM, 7-9 per 100, \$2.50.
CALADIUM ESCULENTUM, 9-11 per 100, \$4.50.
TUBEROUS ROOTED BEGONIAS, single, in 7 separate colors, extra fine, \$2.00 per 100.

CANNAS, extra selected stock, 2 to 4 eyes:
Allemania, Austria, Burbank, Robusta, per 100, \$1.00.
Martha Washington, Florence Vaughan, C. Henderson, Sec. Chabanne, Mile, Berat, Paul Marquant, Explorateur Crampel, per 100, \$1.50.
Coronet, America, Queen Charlotte, Egandale, President Carnot, per 100, \$2.00.

Extra fine dormant **ROSES** in the leading varieties on hand.
F. W. O. SCHMITZ, PRINCE BAY, N. Y.

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 Dickinsons, Evergreen, and Pine Tree Brands
SPECIAL MIXTURES SEED FOR GOLF GROUNDS
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FRED. ROEMER, Seed Grower, Quedlinburg, Germany.

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171-173 Clay St., San Francisco, Cal.
 ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
 Warehouse, Santa Clara, Farms and Farm Headquarters, Oxnard, near Gilroy

JOHN SCHEEPERS & CO.,

Arnheim, Holland
 For Reliable Bulbs and Plants.

GIANT FLOWERING

Begonia Bulbs

(1 1/2 to 2 inches)
SINGLE MIXED
\$2.00 per 100; \$18.00 per 1000
JOHNSON SEED CO. 217 Market St. PHILADELPHIA, PA.

FANCY LEAVED CALADIUMS

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Surpassing in beauty and gorgeousness of foliage any other known plant.
Each 12 1.00
We offer extra choice, \$0.35 \$4.00 \$30.00
Rarest novelties..... .50 5.00 35.00

DAHLIAS

Strong, undivided field roots.
Closing out:
12 100
Show and decorative, such as A. D. Livoni, Storm King, C. W. Bruton, Nymphaea, Xanthia, Admiral Dewey, etc., our choice...\$0.85 \$6.00
Cactus Dahlias, best named, our choice..... 1.00 7.50
Mixed Dahlias..... .75 5.00
Tuberous, second size, \$4.00 per 1000..... .10 .50

SEEDS

100 1000
Aparagus Plumosa Nanus (true), greenhouse crop...\$0.50 \$3.00
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Areca Lutescens..... .75 6.00
All other palm seeds.

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Eastern Dahlia King, J. K. Alexander, E. Bridgewater, Mass.

Gladioli—NOTHING BETTER ANYWHERE.
Cannas—VERY BEST SORTS.
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Price, - - - \$1.00.
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Beautifully illustrated catalog, colored plate, etc., describing GROFF'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM BERLIN, N. Y.

We are now taking orders for a grand lot of CATTLEYA TRIANAE, 400 bulbs to a case, at \$50.00 net cash, per case, which we expect to arrive here some time in June. Will sell cheaper if ordered in quantities. Solicit correspondence. Same established plants of CATTLEYA GIGAS, MENDELII, SCHROEDERI and TRIANAE, from \$2.00 to \$5.00 per plant.

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Collector of Orchids,
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ESTABLISHED 1900
POAT BROS.
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NARCISSI TULIPS DAFFODILS IRIS, ETC.
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An illustrated work - to - date work covering the whole field of Dahlia Culture. Price 35c.

Send for catalogue of Dahlias, Gladioli and Hardy Plants. I handle only the cream of varieties. M. R. S. Winters, Mme.

Daal, Navajo, Dainty, Kriemhilde, etc. My Dahlias have long been celebrated as prize winners.
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Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.
DAVID HERBERT & SON,
Successors to L. K. PEACOCK, Inc.
ATCO N. J.

DAHLIAS. Field grown leading kinds named for cut flowers, whole roots, \$3.50 per 100. Mixed, \$3.00 per 100.

40 leading kinds, n. m. a. d. \$1.50, \$2.00 and \$3.00 per 100.
PANTUNIAS. Giant, single and double fringed, Salvia, phlox, Geranium, Pelargonium, Ageratum, Sweet Ageratum, Gem, Dianthus, etc. 2 1/2 in. \$2.00 per 100. Cash please.
SHELLROAD GREENHOUSES, Grange, BALTIMORE, MD.



Lambert's Pure Culture Mushroom Spawn.
Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized.
Has never failed to run. Sold by Leading Seedmen.
Practical instructions on "Mushroom Culture" mailed free on application.
American Spawn Co. St. Paul, Minn.

IF YOU NEED

Summer-Flowering Bulbs

German or Japan Iris,
write us for prices. We have the stock and can give you satisfaction.
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Just arrived, a shipment of CATTLEYA LABIATA and DENDROBIUM WARDIANUM.
Write for prices.
LAGER & HURRELL, Summit, N. J.
Growers and Importers

ORCHIDS
Largest Importers, Exporters, Growers and Hybridists in the world.
Sander, St. Albans, England
and
235 Broadway, Room 1, New York City

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

CELERY is the title of Farmers' Bulletin No. 282, U. S. Department of Agriculture, Washington, D. C. The author of the bulletin is W. R. Beattie, assistant horticulturist, Bureau of Plant Industry who treats the subject practically and exhaustively.

According to the London Economist, the agriculturists in Austria-Hungary are taking a pessimistic view of their crop prospects. In Hungary laborers are all needed at the same time, and wages are rising higher every week. Some of the corn districts have been recently flooded, so that Winter corn has been destroyed. Vegetation is a month behind the average time.

During 1906 France imported from the United States 175 metric tons of seeds valued at 172,000 francs as against 165 tons of a value of 157,000 francs in 1905. In 1906 seeds to the value \$423,749 came to America from France. The value of the plants and shrubs imported into this country from France in 1906 was 954,000 francs as against 545,000 francs in 1905.

CHICAGO.—After an unusually busy early season the seed trade here now will doubtless have as successful a repetition, as much of the early planting has been destroyed by the continued cold weather, freezing and snow, covering a large section of the Middle West as late as last Friday, May 3.

FLORAL PARK, N. Y.—An idea of the magnitude of the seed and bulb industry at Floral Park, N. Y., says the Brooklyn (N. Y.) Eagle, may be gained readily from the fact that the little village has a second class post office, something far in advance of the postal conditions in many places three and four times its size. Uncle Sam does not regulate the standard of his post offices by the populations accommodated by them but their respective localities, whether the locality is thickly inhabited or not. The five big seed houses in Floral Park use enough postage stamps every year to entitle them to a second class post office. Until recently they used so many that the Floral Park office was of first class, equal in rank, if not in size, to that of New York City, and that the step that the office has recently taken from first class to second class was due to a condensation of printed matter into smaller catalogues instead of a diminution in the number of small parcels that are shipped out of the village.

COLUMBUS, O.—The State of Ohio has installed as a part of its display at the Jamestown Exposition, its official seal, which is made entirely from flower and vegetable seeds grown in the Buckeye State. Some thirty different varieties of seeds have been employed, and so perfect is the workmanship of the emblem that it looks as if it were painted.

An enormous shipment of Crystal Wax onions has the past week been received in this city from Masterson & Dutton, Laredo, Texas. Not only are the onions most rapid sellers from their very handsome appearance, but also of the finest quality. They were grown from Wildpre & Brothers' seed of Tenerife, Canary Islands, and wholesale for \$2.25 per bushel crate.

The Livingston Seed Company is beginning what is always with them enormous sales of tomato plants; for not only do they supply the market garden and retail trade, but their sales to canning establishments also run yearly into several millions of plants.

The William Morris Society will not this year make any distribution of flower and vegetable seeds to the children of the public schools, as they believe each child should pay the required cent a packet for its seeds. Free distribution only is being allowed this season.
F. W.

LARGE PRIVET

3 to 4 ft. @.....\$40.00 per 1000
4 to 5 ft. @..... 60.00 per 1000
5 to 6 ft. @..... 80.00 per 1000
6 to 8 ft. XX..... 90.00 per 1000
Wichuriana Hybrida, 2 year..... 40.00
Plenty of shrubs at low prices.
CANNAS, 4 in. pots, \$6.00 per 100.
ELIZABETH NURSERY CO., Elizabeth, N. J.

ST. JOSEPH, MICH.—The case of George Phiscator, of Oronoko township, vs. Dwight Rice, of St. Joseph, was taken up here on April 29, 1907. The Phiscator case has been tried in the circuit court before. On the first trial Judge Coolidge ordered the jury to return a verdict favorable to the defendant. Phiscator went to the supreme court and that tribunal reversed Judge Coolidge's decision and ordered a new trial. The case arises from the sale of some clover seed, which was purchased by Rice Bros. of St. Joseph. A sample of the seed was shown to purchasers and they contracted for a considerable quantity. When the seed was brought in and examined it appeared to be in good condition. Rice Brothers shipped it to a Chicago house, expecting immediate returns. Instead they received a letter informing them that the seed was found to be very bad, particularly in the middle and at the bottom of the bags. The seed was shipped back and later Phiscator was arrested for alleged fraud. He was subsequently discharged, soon afterward bringing suit against Rice for \$10,000, alleging malicious prosecution.

LIMA BEANS.—Under the name of Lima beans two distinct types are now recognized: Pole Limas and dwarf, or bush, Limas. These types are made up from two distinct species, known to botanists as Phaseolus lunatus, which includes the Sieva, or Carolina, type of Lima beans, and Phaseolus lunatus, variety macrocarpus, the true Limas of the American garden, which includes both types of Lima bean, i. e., the flat, or large-seeded Lima and the Potato Lima. The pole Lima beans, then, are made up from the Sieva, or Carolina, Limas, the true Limas, the flat, large-seeded Limas, and the Potato Limas. The dwarf Limas are represented in the Sieva type by Henderson's Dwarf Lima, in the Potato Limas by Kumerie's and Dreer's Dwarf Lima, and in the true Limas by Burpee's Dwarf Lima. It will be seen, therefore, that botanically the pole Lima and the dwarf Lima can not be separated—that varietal differences alone make the distinctions which characterize these two groups.

Lima beans are of very great commercial value, but are not sufficiently appreciated as a table food because it is not generally known that in a dry state they can be used in practically the same manner as are the common beans. In reality they are richer and more delicate in flavor than the common beans, and can be used in as many different ways. The virtues of these types as green beans need only a passing mention, and their value as an accompaniment of corn in succotash is well known to every consumer of canned goods.—L. C. Corbett in Farmers' Bulletin 289.

ACREAGE OF BEANS IN AMERICA.—There are no statistics available from which to determine the acreage or quantity of beans produced as field beans and as stragg and garden beans. The census for 1900 gives the area of the bean crop, including both field and garden beans, as 453,867 acres, and the total produce is placed at 5,064,844 bushels, an average of 11 1-5 bushels per acre. The total amount received by the producers for the crop was \$7,634,262, or an average of \$15.1 per bushel. In considering this average it must be remembered that the total includes the products of good as well as of poor cultivators and embraces regions in which the crop was a practical failure as well as those in which it was a success. For those States which make bean growing an important industry the average yield to the acre is somewhat higher than is recorded in this general average.

The three States which lead all others in the production of this crop are Michigan, New York and California, followed by Wisconsin, Maine, Virginia, North Carolina, Tennessee, Missouri, Minnesota, Illinois, Kentucky, New Mexico and West Virginia. The other States which produce a considerable acreage of garden beans, with the exception of Florida, cultivate less than 3,000 acres.

Florida is reported as cultivating 9,189 acres in 1899. The great bulk of this crop reached the market as snap or string beans. Those beans which were not marketed in this way were of course allowed to ripen and represent a small percentage of the total crop of dry beans. The States in which the great bulk of dry or field beans is produced are Michigan, New York, California and Maine.—L. C. Corbett in Farmers' Bulletin 289.

THE QUALITY OF GRASS SEED.—The Maine law regulating the sale of agricultural seeds requires that grass seed shall be sold under a guarantee as to purity. Bulletin 138 of the Maine Agricultural Experiment Station, gives analyses of the seeds which were collected by the inspector and those sent to the Experiment Station by correspondence in 1906. The dealers are very generally conforming to the law and the purity of most seeds is now guaranteed. The question naturally arises in the mind of a farmer,—Should a seed be strictly pure and if not, how nearly pure should it be?

The purity of seeds varies greatly with their kind. It is possible to grow timothy seed so clean that it shall carry practically no foreign weed seeds. It is not as easy to grow any of the other grasses or clovers so clean. There is no need for the sower to ever buy timothy seed that is much less than 99.5 per cent. pure. Samples have been examined by the Station the present year which contained not a single foreign harmful seed.

The best red clover seed will frequently carry as much as one per cent. of foreign matter, although these impurities are usually comparatively harmless. In many of the low-grade red clovers, which are only 95 per cent. pure, it sometimes happens that a large part of the impurities are harmless. It is, however, poor policy for the sower to buy a red clover seed that is less than 93 per cent. pure. The best grades of alsike clover will run about 98.5 per cent. pure on the average. It is doubtful if the purchaser should buy an alsike whose purity is less than 97.5 per cent.

Redtop is the most difficult seed of all. It will, of course, contain more or less chaff. It is difficult to grow redtop free from timothy and the seed cleaners find it difficult to separate timothy seed from redtop after it has once been introduced. Samples of redtop carrying as high as 12 or even 15 per cent of timothy are not unusual. If one could be sure that the impurities were harmless like chaff and timothy, it might be safe to buy a redtop even as low as 85 per cent. pure. Unless one is assured of the character of the impurities, it is unwise to buy a redtop less than 95 per cent. pure.

From the above it is evident that in the judgment of the Director of the Experiment Station, it is wise to buy only high grade seeds that are comparatively pure. Not only are the high grade seeds purer but they are usually larger, plumper and heavier, more of them will germinate, and they make stronger plants. There is certainly no

economy in the attempt to save one, two or even five cents a pound on the purchase of grass seed. Expensive as seed is, it is a comparatively small item in seeding down, when the cost of labor and fertilizer are taken into consideration.

IMPORTS OF SEEDS, ETC.—April 27-28.—Italo-American Express Company, one case plants; Daniel H. Burdett, three bags seeds; Hensel, Bruckman & Lorbacher, six cases plants; F. B. Vandegrift & Company, 10 bags clover seed; R. F. Godwin's Sons, nine bags field seed; Maltus & Ware, four cases plants; Benj. Stearns, seven packages plants, April 29.—C. O. Villagas, 70 cases live plants; J. De Jongh, four cases plants, April 30.—American Express Company, four packages plants; H. Frank Darrow, seven cases plants; R. F. Lang, one case plants; Maltus & Ware, one case plants; Rooney & Spence, four cases plants; P. Lorillard, two hampers plants, May 1.—H. Frank Darrow, 38 tubs laurel trees, 28 cases plants; O. G. Hempstead & Son, 43 cases plants; Hnsa & Company, 15 cases plants, 20 tubs laurel trees; Robinson Heath, three cases plants; J. McHutchison & Company, 182 tubs laurel trees, 39 cases plants; M. Mutillo, one case plants; Chas. F. Meyer, 28 cases plants, 22 tubs laurel trees; P. H. Petry & Company, eight cases plants; Maltus & Ware, 34 cases plants; J. Ter Kulle, 10 cases plants; Vaughan's Seed Store, 37 cases plants, 202 tubs hay trees; Baldwin, Austin & Company, one case plants; J. M. Thorburn & Company, one case seeds; J. DeJonge, three cases plants; A. Held, two cases wild orchids; Parke, Davis & Company, 10 bushels seed; H. Frank Darrow, 18 packages seed; R. L. French & Company, 150 sacks seed; O. G. Hempstead & Son, 24 packages plants; E. Hoenicke, 63 bags seed.

European Notes.

The continuance of the night frosts, which vary in intensity from 2 degrees Cent. in western France to 9 degrees F. in eastern England, is having a very disastrous effect upon our cultures, particularly broccoli and beet. As regards the former the warm days cause the heads to expand and throw back the leaf covering, with the result that the heads become discolored and in many cases rotten as the result of the frost. The results would be more disastrous to the growers of market produce if it were not for the fact that the markets are glutted with other green crops, which are rushed in to turn them into money before they bolt to seed.

The running of our few remaining cabbages is practically assured, in fact, this is a source of serious trouble to the market growers of this article, for in several of the most important districts nearly all the cabbages planted for market have run to seed instead. Seed saved in this manner is, of course, worthless. Beet failures are an even more serious matter, because stocks on hand of the most useful varieties are extremely small.

It is not possible for the moment to say exactly how much has really perished, but several of the growers report that from 40 to 60 per cent. of their plants have been destroyed. Crosby's Egyptian and Detroit dark red have suffered more than any other varieties thus far.

So far as we can judge at present our mangrel plants are not seriously affected. Rutabagas are looking very sickly and will certainly disappoint the growers. On the other hand, turnips on good land and in sheltered positions are improving; the continuous 24 hours' rain on Sunday last has helped them wonderfully.

As regards flower seeds, sweet peas cause us some anxiety, and in the face of the reported destruction of the crop in California the outlook is discouraging. Pansies will derive considerable benefit from the recent rains, but the weather is too cold to favor the development of seed. But there is no time lost thus far, except for those growers who demand new crop seed for Summer sowing.

Wallflowers and other biennials of the same general description have suffered severely from recent frosts.

A fire broke out in the early morning of April 25 on the premises of W. Deal & Sons, seed growers, Messing. The new warehouse, which is 50 feet by 25 feet and which contained among other seeds 13 tons of mangrel and about

TUBEROUS ROOTED BEGONIAS

Fine Bulbs. Cut price to close out.	doz.	100	1000
Single, Yellow, Red, Rose, Lemon, Orange and White.....	\$.35	\$2.00
Single Mixed.....30	1.90 18.00
Double Yellow, Rose, Orange.....45	3.50

GLOXINIAS, Fine Bulbs

Red, Spotted, Scarlet and mixed.....	.....	.45	3.00
Asparagus Plumosus Nanus			
Best Greenhouse grown.....	.....	50	3.00



Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

6 tons of cabbage seed, was completely gutted. The damage to buildings and contents is estimated at over £3,000. The loss is covered by insurance. As the firm in question has been "bearing" the markets lately with the two articles mentioned, the disaster may prove a blessing in disguise to other dealers.

EUROPEAN SEEDS.

LILY OF THE VALLEY.—The lily of the valley, in some parts of Germany, was not a good or productive crop in 1906, and at Freienwalde on the Oder, the field crops were thoroughly inferior. The crowns were not so strong as in the previous years, and a little weaker at the roots, facts due to the drought of 1904; and because of the weakness of the forcing crowns the planting ones were, as will be understood, not well developed. Still the bells were as large, and they developed as vigorously, as those do in more favorable years. Prices ran from 23 mk. to 24 mk. per 1000 for the first quality; the second quality could not be sold, and generally had to be grown on at home. Some raisers, however, received for this kind of ware 8 mk. to 12 mk. per 1000. Planting crowns are scarce this year and almost all are reserved by the raisers themselves for planting purposes. For such the price remains at the old figure, that is, for one year old 1 mk. per 1000, and two year 1.50 mk. to 2 mk. They are sold in bundles. The old variety with white crowns occurs occasionally in the

trade, and is not much in favor, although its bells and spike are larger than those of the ordinary type, in consequence of its upper blooms not coming to perfection or not opening at all. The correspondent of Möller's Deutsche Gärtner-Zeitung states that his lily of the valley never gets frozen, and is free from injurious insects and fungi. Another writer in this same journal states that the lily of the valley harvest in 1906, in districts where the plants had not suffered from the three years' drought, were, in regard to quality and quantity, good. The new plantations are, in general, satisfactory, and promise well for next year. —Horticultural Trade Journal.

PORTLAND, ORE.—The florists of Portland met at Dennett's store on Congress street April 29, 1907 and organized for social purposes. The following officers were elected. President, L. C. Goddard; vice-president, Mrs. Lizzie Dennett; secretary, John J. Boyle; treasurer, J. W. Minott; committee on by-laws, Miss McGonnigle, Mrs. Lizzie Dennett, A. W. Dyer and Alexander Sterling. Committee on membership, J. H. Vickery and G. W. Billings.

ALVIN, TEXAS.—The jessamine growers and dealers here are looking forward to a big crop and a big business this season. The season will be about fifteen days earlier than last, and dealers are already getting out quotations.

CYCAS REVOLUTA

(STEMS)

Choice specimens just received from Japan in elegant condition. Pot now to have good salable plants for early winter sales. Special sized bulbs selected on request. 25 lbs. \$2.25; \$8.50 per 100 lbs.; 300 lb. case \$24.00.

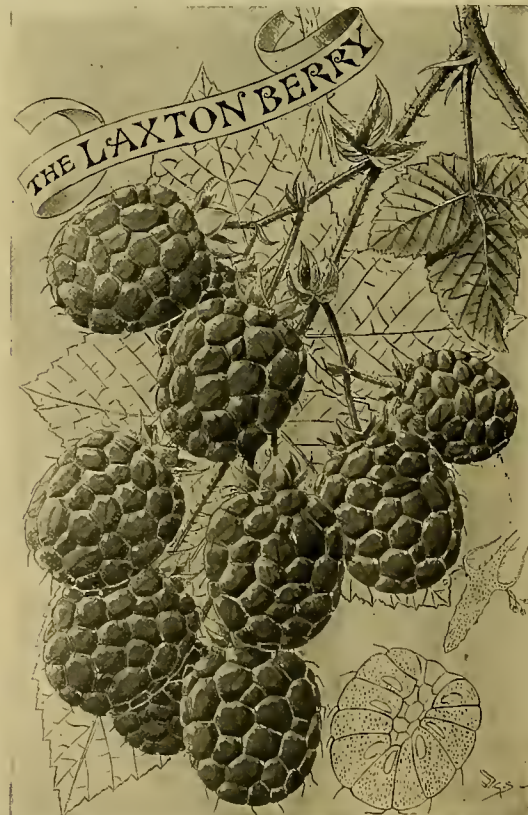
PRIMULA SEED

Michell Prize Mixture of Chinese Primula is the cream of selection. The trusses are immense, covered with mammoth florets, excellent colors. 1/2 trade pkt. 60c.; \$1.00 per trade pkt.; 1-16 oz. \$2.00.

Send for our Florists' Wholesale Price List

HENRY F. MICHELL CO.

1018 Market St., Philadelphia



The Laxton Berry.

This is a new, hardy fruit, being introduced by Laxton Brothers of Bedford, England. It is a cross between the Logan berry and the English raspberry Superlative. The object of the cross was to secure a sweeter fruit, and also to remove the hard core of the Logan berry. This has been successfully done in both these points. Without much reducing the size, a fruit was secured with a true raspberry flavor, the acidity of the Logan berry being much reduced; at the same time the fruit parts readily from the core, as shown in the illustration. It has the habit of growth of the Logan berry, being equally vigorous and hardy. A large demand for this new plant is anticipated when it becomes known; at present the stock is limited.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

DREER'S POT-GROWN HARDY PERENNIALS

The following varieties are all growing in pots and can therefore be planted now with perfect success, which is not the case with the ordinary field-grown stock at this late date.

	Per doz.	Per 100		Per doz.	Per 100		Per doz.	Per 100
Acanthus Mollis and Latifolia, 4-in. pots.	\$1.25	\$10.00	Epilobium Angustifolium and Hirsutum, 4-in. pots.	\$0.85	\$6.00	Hypericum Moserianum, 4-in. pots.	\$1.25	\$8.00
Achillea Eupatorium, Filipandula, 4-in. pots.	.85	6.00	Erigeron in variety, 3-in. pots.	1.00	7.00	Iberia Sempervirens, 3-in. pots.	.85	6.00
Millefolium Roseum, 3-in. pots.	.85	6.00	Eryngium Amethystinum and Planum, 4-in. pots.	1.50	10.00	Corraefolia, 3-in. pots.	1.25	10.00
Aconitum Fischeri, 3-in. pots.	2.00	15.00	Erigeron in variety, 3-in. pots.	1.00	7.00	Iris Sibirica and Alba, 4-in. pots.	1.00	7.00
In variety, 3-in. pots.	1.50	10.00	Eupatorium Ageratoides, 4-in. pots.	.85	6.00	Orientalis Snow Queen, 4-in. pots.	2.00	15.00
Agrostema Coronaria, 4-in. pots.	.85	6.00	Euphorbia Corollata, 3-in. pots.	.75	5.00	Pumila Cyanea and Eburnea, 4-in. pots.	1.50	10.00
Ajuga Reptans Rubra and Genevensis, 3-in. pots.	.85	6.00	Funkia Cœrulea, 4-in. pots.	.75	6.00	Liatris in variety, 3-in. pots.	.85	6.00
Anamone, Queen Charlotte and Whirlwind, 3-in. pots.	.85	6.00	Subcordata Grandiflora, 4-in. pots.	1.25	8.00	Lobelia Cardinalis and Syphilitica, 3-in. pots.	.85	6.00
Pennsylvanica and Sylvestria, 3-in. pots.	.85	6.00	Undulata Media Picta, 3-in. pots.	.85	6.00	Lychnis Chalcedonica Alba, Carneae and Rubra, 3-in. pots.	.85	6.00
Aquilegia Canadensis, Cœrulea and Vulgaris, 3-in. pots.	.85	6.00	Gaillardia Grandiflora, 4-in. pots.	.85	6.00	Rubra fl. pl., 3-in. pots.	2.00	15.00
Arabia Alpina, 3-in. pots.	.75	5.00	Geranium Sanguineum and Album, 4-in. pots.	.85	6.00	Diocia and Haazeana, 3-in. pots.	.75	6.00
flora plena, 3-in. pots.	.85	6.00	Geum in variety, 3-in. pots.	1.00	7.00	Viscaria Splendens, 4-in. pots.	1.25	8.00
Armeria Maritima Splendens and Alba, 3-in. pots.	.85	6.00				Lysimachia Clethroides, Ciliata and Punctata, 4-in. pots.	.85	6.00
Artemisea Purahiana and Stellariana, 3-in. pots.	.85	6.00				Lythrum Rosaeum Superbum, 4-in. pots.	.85	6.00
Asphodelus Luteus, 3-in. pots.	1.25	8.00				Monarda Didyma and varieties, 4-in. pots.	.85	6.00
Hardy Asters (Michaelmas Daisies), in variety, 3-in. pots.	1.00	7.00				Papaver Orientalis, 4-in. pots.	.85	6.00
Aster Grandiflorus, the finest of all, 3-in. pots.	2.00	15.00				Nudicaule, 3-in. pots.	.85	6.00
Astilbe Davidii (new), 4-in. pots.	2.50	20.00				Penstemon in variety, 3 and 4-in. pots.	1.00	7.00
Boltonia Asteroides, 4-in. pots.	.85	6.00				Physostegia Virginica, Speciosa and Alba, 3-in. pots.	.85	6.00
Latisquama, 4-in. pots.	.85	6.00				Pinks, Hardy Garden, in variety 4-in. pots.	.85	6.00
Calimera Incisa, 4-in. pots.	.85	6.00				Platycodon Marielsi, Grandiflora, Blue and White, dormant roots.	.85	6.00
Caryopteris Mastacanthus, 3-in. pots.	.85	6.00				Plumbago Larpentæ, 3-in. pots.	1.00	7.00
Campanula Alliarisefolia, 3-in. pots.	1.00	7.00				Potentilla in variety, 3-in. pots.	1.00	7.00
Grandis and Grandis Alba, 4-in. pots.	1.25	8.00				Phlox. These are a specialty with us. Send for special list of varieties. Heavy, 3-in. pots.	.75	5.00
Latifolia Macrantha, 3-in. pots.	1.00	7.00				Pyrethrum Hybridum Seedlings, 4-in. pots	1.25	8.00
Lactiflora, 4-in. pots.	1.00	7.00				Uliginosum, 4-in. pots.	.85	6.00
Medium Single and Double, 4-in. pots.	.85	6.00				Ranunculus Acria fl. pl., 4-in. pots.	.85	6.00
Calycanthema, 4-in. pots.	.85	6.00				Rhexia Virginica, 3-in. pots.	.85	6.00
Percicifolia Gigantea, 3-in. pots.	1.50	10.00				Rudbeckia Golden Glow, 4-in. pots.	.85	6.00
Pyramidalis, 3-in. pots.	.85	6.00				Fulgida, Newmani, Sub-Tomentosa, Tri-loba, 4-in. pots.	.85	6.00
Rapunculoidea, 4-in. pots.	.85	6.00				Purpurea, 3-in. pots.	1.00	7.00
Rotundifolia, 3-in. pots.	1.00	7.00				Salvia Azurea Grandiflora, Argentæ and Pratensis, 4-in. pots.	1.00	7.00
Trachelium, 4-in. pots.	1.00	7.00				Sedum Spectabilis, 4-in. pots.	1.00	7.00
Centarea Glastifolia, Macrophela and Orientalis, 4-in. pots.	1.00	7.00				Senecio Fulcher, 3-in. pots.	1.00	7.00
Cephalaria Alpina, 4-in. pots.	1.25	8.00				Solidago Canadensis, 4-in. pots.	.85	6.00
Chelone Glabra Alba, Lyonii and Obliqua Alba, 4-in. pots.	1.25	8.00				Statice in variety, 4-in. pots.	.85	6.00
Chrysanthemum Shaata Daisy, 3-in. pots.	.75	5.00				Stokesia Cyanea, 4-in. pots.	.75	5.00
Hardy Pompon, 2 1/4-in. pots.	.60	4.00				Sweet Williams, 4-in. pots.	.75	5.00
Chrysogonum Virginianum, 3-in. pots.	1.25	8.00				Symphitum Asperitum Variegatum, 4-in. pots.	1.50	10.00
Clematis Davidiana, 3-in. pots.	.85	6.00				Thalictrum in variety, strong plants, 4-in. pots.	1.00	7.00
Recta, 3-in. pots.	1.50	12.00				Tricyrtis Hirta, 5-in. pots.	1.25	8.00
Integrifolia, 3-in. pots.	1.25	8.00				Trollius Europeus, 3-in. pots.	1.00	7.00
Coreopsis Lanceolata Grandiflora, 4-in. pots.	.75	5.00				Tritoma Coralina, strong divisions.	1.50	10.00
Delphinium Belladonna, 3-in. pots.	2.00	15.00				Obelisque, strong divisions.	1.50	10.00
Chinensis and Alba, 3-in. pots.	.75	5.00				Rufus, strong divisions.	2.00	15.00
Dianthus Barbatus (Sweet William), 4-in. pots.	.75	5.00				Tricolor, strong divisions.	2.00	15.00
Deltoides Alba and Rosea, 3-in. pots.	.85	6.00				Uvaria Grandiflora, strong divisions.	1.00	6.00
Latifolius Atrococcineus Fl. Pl., 3-in. pots.	1.00	7.00				Veronica Amethystina, 3-in. pots.	1.00	7.00
Napoleon III., 2 1/4-in. pots.	1.50	10.00				Incana, 3-in. pots.	1.00	7.00
Dictamnus Frazinella Eubra and Alba, 3-in. pots.	1.25	8.00				Longifolia Subaessilis, 3-in. pots.	1.25	8.00
Dielytra Formosa, 4-in. pots.	1.00	7.00				Maritima, 4-in. pots.	1.00	7.00
Digitalis Gloxiniflora, 4-in. pots.	.85	6.00				Repens and Rupestris, 4-in. pots.	1.00	7.00
Lanata, 3-in. pots.	.85	6.00				Spicata, Blue and White, 4-in. pots.	1.00	7.00
Doronicum Caucaicum and Excelsum, 3-in. pots.	1.25	8.00				Rosea, 3-in. pots.	1.00	7.00
Echinops Ritro and Ruthenicus, 4-in. pots.	1.50	10.00				Virginica, 4-in. pots.	1.00	7.00
						Viola Pedata, 3-in. pots.	.60	4.00
						Hardy Double Russian, 2 1/4-in. pots.	.60	4.00



ANEMONE, QUEEN CHARLOTTE

HENRY A. DREER

714 CHESTNUT STREET - - - PHILADELPHIA, PA.

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10,000 American Arbor vitae,

(THUYA OCCIDENTALIS.)

Each tree grown wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arbor vitae will. They have been frequently transplanted and are supplied with an abundance of fine fibrous roots. Can be dug and shipped with ball if desired.

3-4 ft. Size.....	Per 10. \$6.00	Per 100. \$50.00
4-5 ft. Size.....	7.50	60.00

Prices for dealers only. Packing additional at cost. 25 or more at the rate per 100. Send to us for Ornamental Nursery Stock of all kinds.

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ROSES

American Beauty, Clothilde Soupert, Gloire de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., suitable for forcing. Immediate Delivery. Prices Right. General Catalog and Price List ready.

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SPRINGFIELD NEW JERSEY

Wholesale Growers TREES AND PLANTS in full assortment. Trade Catalogue Free

PLANT CONIFERS NOW!

These are shapely, well-furnished, fibrous-rooted and several times transplanted.

AMERICAN ARBOR VITAE.....	3-4 ft.	Per 100 \$12.00	Per 1000 \$ 90.00
IRISH JUNIPER.....	2-2 1/2 ft.	15.00	120.00
NORWAY SPRUCE.....	3-4 ft.	12.00	100.00
JAPAN LARCH.....	5-6 ft.	15.00	
And these:			
BEECH, COMMON.....	4-6 ft.	20.00	
" " ".....	3-4 ft.	18.00	170.00
" PURPLE-LEAVED.....	3-4 ft.	25.00	
BIRCH, CUT-LEAVED WEEPING.....	6-7 ft.	35.00	
" " ".....	5-6 ft.	25.00	
THORN, PAUL'S NEW SCARLET.....	4-5 ft.	15.00	
CORNUS ELEGANTISSIMA VARIEGATA.....	4-5 ft.	12.00	

This is a sample lot of bargains; others are offered in our Bulletin No. 4 just issued; send for copy; use printed stationery—it's for the Trade only.

JACKSON & PERKINS CO., Newark, New York

The Elm City Nursery Company Nurseries'

NORWAY SPRUCE

AS FINE A LOT AS YOU EVER SAW

18-24 in., per 10, \$1.20; per 100, \$10.00; 2-3 ft., per 10, \$2.00; per 100, \$15.00; 3-4 ft., per 10, \$3.00; per 100, \$25.00. Also some fine specimens

AM. ARBOR VITAE 18-24 in., per 10, \$1.00; per 100, \$8.00. 2-3 ft., per 10, \$2.00; per 100, \$12.00.

PACKING AT COST

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A Box Car

WILL HOLD 10 TO 15,000 CALIFORNIA PRIVET I will pack them in car, at reduced prices.

California Privet, 3 to 4 ft., \$4.00 per 100; \$20.00 per 1000; 4 to 5 ft., \$5.00 per 100; \$25.00 per 1000; 5 to 6 ft., \$6.00 per 100; \$30.00 per 1000; Standard Privet, 5 ft. high, fine sheared heads, \$7.00 per 10; \$60.00 per 100; Bush Privet, sheared round, 4 to 5 ft. high; 3 to 4 ft. in diameter, \$7.00 per 10; \$50.00 per 100. American Elms, fine trees, 12 ft., \$30.00 per 100; \$250.00 per 1000. Horse Chestnut, 2 to 2 1/2 caliper, 10 ft. high \$10.00 per 10; \$75.00 per 100. Horse Chestnut, specimen trees, 3 to 4 Caliper, 12 ft. high, \$20.00 per 10; \$125.00 per 100. European Linden, 2 to 2 1/2 caliper, 12 to 14 ft. high, \$10.00 per 10; \$80.00 per 100. Spiraea Billardii, 3 1/2 to 4 ft., \$1.00 per 10; \$8.00 per 100. Althea, in variety, 4 to 5 ft., \$1.00 per 10; \$8.00 per 100. Yucca Filamentosa, large, blooming plants, \$5.00 per 10; \$30.00 per 100. Dahlia, large clumps, fine assortment, \$5.00 per 10; \$40.00 per 1000.

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DECIDUOUS TREES and SHRUBS, EVERGREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties. Send for price list.

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BEECHES

American, European, Copper, Rivers purple, Weeping and Fern leaved, large and small.

SHRUBS

Viburnums, Cornuses, Deutzias, Forsythias, Berberis and other shrubs 3 to 8 feet.

CONIFERS

Picea pungens and orientalis 3 to 6 feet. Abies Nordmanniana and Hemlocks 3 to 6 feet. Retinisporas and Junipers in variety. See trade list of MORRISVILLE NURSERY.

Samuel C. Moon, MORRISVILLE, PA.

California Privet

1 to 2 ft.....	1000 \$10.00	3 to 5 ft.....	1000 \$40.00
2 to 2 1/2 ft.....	20.00	5 to 8 ft.....	35.00
2 1/2 to 3 ft.....	25.00	8 to 8 ft.....	75.00

Send with order; packing free. Atlantic Coast Nurseries, Office, 606 4th Ave. Asbury Park, N. J.

"ANNY MÜLLER"

Much superior to the old BABY RAMBLER in color and growth. A beautiful soft pink, semi-double blooming in large clusters, perfectly hardy and the best new bedding rose yet introduced. We have only a few thousand to offer. STRONG PLANTS 2 1/2 IN. POTS AT \$15.00 PER 100. We also have on hand a large stock of dormant HYBRID and RAMBLER ROSES, to close out at \$10.00 per hundred.

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ARISTOLOCHIA SIPHO

Strong, \$25.00 per 100.

Double Flowering ALMOND, 3 to 4 ft., \$15.00 per 100. Oriental PLANE, 2 to 2 1/2 in., \$125.00 per 100. Send list of wants for prices. Ask for catalogue.

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Rhododendrons, Azaleas, Spiraea Japonica, Lillium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilac, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

50,000 Sugar Maple Seedlings

6-12 in., \$6.00 per 1000. 20,000 Sugar Maple Seedlings, 2-3 ft., \$25.00 per 1000. 5,000 Tulip Trees, 4-5 ft., \$6.00 per 100; \$50.00 per 1000. 5,000 Catalpa Speciosa, 4-5 ft., \$3.00 per 100; \$25.00 per 1000. 2,000 Sweet Gum, 6-8 ft., \$10.00 per 100; \$90.00 per 1000. 5,000 Ilex Opaca (American Holly), \$4.00 per 100; \$25.00 per 1000. 10,000 Novae Anglae Aster, strong, \$3.00 per 100; \$25.00 per 1000. 5,000 Berberis Thunbergii, 12-18 in., bushy, 3c. 2,000 Spiraea Van Houttei, 2-3 ft., 5c. 2,000 Hydrangea P. G., 2-3 ft., 7c. Send for our special surplus list of bargains.

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Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP, HOLLAND

10,000 Berberis Thunbergii, 18 to 24 in., \$50.00 per 1000.

15,000 Berberis Thunbergii, 15 to 18 in., \$40.00 per 1000.

All are 2 year old transplanted, fine, bushy stock. 2,000 Myrtle, nice plants, \$45.00 per 1000. 8,000 choice Dahlia roots for sale, cheap.

OAK HILL NURSERIES, Rosindale, Mass.

KOSTER & CO.

Holland Nurseries BOSKOOP, HOLLAND. Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies. Pot-Grown Plants for Forcing. RHODODENDRONS, H. P. ROSES, Etc. Catalogue free on demand.

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Send your orders to us when you do not know just where to get your NURSERY STOCK.

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LARGE TREES

OAKS AND MAPLES PINES AND HEMLOCKS ANDORRA NURSERIES WM. WARNER HARPER, PROPRIETOR Chestnut Hill, Philadelphia, Pa.

10,000 FERNS

10,000 POTTED CANNAS

ALL FINE STOCK

Cannas, 3 1/2 and 4 in. pot plants, ready to plant. Will do 500 or 1000 in fair proportion from list at \$40.00; or my own selection for \$35.00 per 1000.

Chas. Henderson, Shenandoah, Mle. Per 100. Berat, Alsace \$40.00. Gloriosa (or Dwarf Queen Charlotte), Queen Charlottes, Florence Vaughan, David Harum, Chicago, Souv. D'Antoins Crozy, Duke of Marlborough, Crimson Bedder, Bronze Beauty, Pennsylvania \$5.00. Louisiana \$1.50 per dozen; King Humbert, \$2.50 per dozen; Allamania, Austria, Italia, Rosemawr, Chautauqua, Perinope, Mms. Crozy, Canary Bird, each \$1.00 per dozen

10,000 FERNS

Boston, 4 in., 15c.; 3 in., 8c.; 2 1/2 in., 4c. Florsom, 6 in., 25c.; 4 in., 15c.; 3 in., 8c.; 2 1/2 in., 4c. Scottii, 4 in., 15c.; 3 in., 10c. Barrowsii, 4 in., 20c.; 3 in., 15c. Anna Foster, 2 1/2 in., 3c. 5000 Verbena, Cabbage, Tomato and Pepper Plants, ready to plant; all transplanted, 50c. per 100. Egg Plants, \$1.00 per 100.

OTHER SEASONABLE STOCK

Per 100. 1000 English Ivy, heavy vines, 3 1/2 to 4 ft. \$5.00. 1000 Vines Major, variegated, 3 1/2 in. potted field stock, 7.00. 1000 Vines Major, variegated, 2 1/2 in., 2.50. 1000 Eucalyptus Radicans, variegated; and Halleana Honey suckle, field-grown. 5.00. 1000 Hydrangea paniculata Grandiflora, 3 year, 8c.; 2 year, 6c.; 1 year, 4c. 1000 Clematis paniculata Victoria Blue 4 year old vines..... 8.00. 2000 Hydrangea Ottaka and Asparagus Sprengeri, Stokesia Cyanea..... 2.50. 5000 Caryanthemums, Ivory, Yellow Bonafont, H. Frick and Nonin, 2 1/2 in.... 2.50. Carnations, from flats ready to plant; grown cool. 1000 Helen Goddard, beats Rose-Pink Enchantress..... 6.00. 2000 Queen, Boston Market, Gov. Wollcott, Pink as son, Elton and New Day-break, each..... 2.00. 2000 Cannas, Henderson, Mlle Berat, dormant Cannas..... 1.50. 1000 Cannas, best mixed, for massing.... 1.00. Satisfaction guaranteed. Cash or O. O. D.

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Conducted by Joseph Meehan.

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Seasonable Topics.

Nurserymen say there is a marked difference in the selecting of trees on the part of customers. The average person wants every tree of a broom stick straightness, while the landscape gardeners are not nearly so particular, many of them preferring crookedness of stem in some trees as adding to the naturalness of a planting.

The poison vine, *Rhus radicans*, bears seeds freely, and these seeds are food for birds in the Winter season. This may account for the numerous poison vine covered fences met with in country places. Horses will often eat the foliage of this vine, and with no ill effects.

One of the fastest growing of useful hardy vines is the *Akebia quinata*. Its nicely divided foliage, early, sweet-scented, plum-colored flowers and pleasing green foliage, make it particularly useful and ornamental.

Pterostyrax hispida is slowly becoming known in collections. When it becomes better known, many will regret not having planted it years ago. It is a beautiful, small tree, bearing racemes of lovely white flowers in June.

Syringa Josikæ, *S. villosa* and *S. Emodii* are Asiatic lilacs that flower after ordinary sorts are over, which makes them much valued. The flowers of *Josikæ* are light purple, those of the others nearly white. They are sweet-scented, though not as highly perfumed as the blossoms of the old type.

Azalea amena is often spoken of as having double flowers, but what looks like a double flower is the extension of the calyx, giving the appearance of a double corolla.

Pinus edulis from the Pacific Coast has not proved sufficiently hardy for the Northern States, but the Colorado form of it succeeds well. In addition to the beauty of this pine, its nuts are enjoyed by the Indians; and for fire wood no pine is better.

Cercidiphyllum japonicum was introduced to this country by the late Thomas Hogg. It succeeds best in deep soils. When the trees of different sexes are near each other the seeds are produced freely. There are many seed-bearing trees in this country now.

Ivy on trees does no harm at all, so long as its foliage does not overlap that of the tree. When the ivy commences to creep out on the limbs it should be cut away before it reaches the leaves of the trees. In this way no injury is done; and often the ivy-clothed tree is considered a great attraction.

Too Much Protection in Winter for Trees.

On many estates it is the practice to straw up many evergreens on the approach of Winter, and every Spring the appearance of such evergreens when uncovered confirms the belief of many that tight strawing is an injury rather than a help. When evergreens are tied up close the foliage is so weakened that it receives more injury than if not tied up at all. The exclusion of air from any of the foliage is a bad thing. There should be a light tying up and a light cover of straw, enough only to break the rays of the sun and the force of the wind. If both high winds and sunlight can be kept from evergreens in Winter these are better not tied up at all. The best protection is to plant trees and shrubs in groups as far as possible, then one protects the other, and all do well. Very close tying injures rather than aids the plants.

Massing Trees for Protective Purposes.

The Winter of 1906-7 afforded rare opportunities to observe the benefits of shelter for trees and shrubs. The early part of the Winter was not nearly as cold as usual; then came fairly cold weather, then a hot period followed again by cold. This variable weather acted injuriously on many trees and shrubs of supposed iron-clad nature, such sorts as *Retinispora plumosa*, Siberian *Arbor vita*, *Lihocedrus decurrens* and others suffering for the first time in years. But especially was harm done to such subjects as stood out alone and exposed to both sun and wind, while those sheltered were quite uninjured. This agrees with all experiences in so far as protection being a great aid to plants in Winter is concerned. Plants supposedly tender and those considered hardy also will be the better for a shelter in Winter, and what will give this better than a thick grouping of trees in which the more tender ones are to be included? Trees standing alone are the exceptions

in nature. All are generally massed, and how well this serves them is shown by their general well doing.

When grounds are being planted trees will make a better growth if set in such a way that there is fellowship between them as it were; and should there be any regarding which fears are entertained of their hardiness, place them in the center of the group.

Referring again to those hurt the past Winter, the most injured were those standing where the elements had free sweep on them. This is always so; and the fact appeals to all planters to consider well the planting of nurse trees in their operations.

The Selling of Trees by the Vermont Agricultural Experiment Station.

In a bulletin issued by the Vermont Agricultural Experiment Station, referring to a State Nursery for forest tree seedlings, it announces among other things that the experiment station shall as soon as may be, and as far as practicable, furnish to all applicants who are residents of or land owners in Vermont, material for forest planting at, so near as can be computed, the actual cost of the same, such material to be used only

ment stations to disseminate as much information as possible on the subject of raising trees for forestry planting, to help the people of the State all they can, but the line should be drawn at growing and selling stock.

On the same line, why should not the experiment station start a farm, sell cattle, milk and other farm produce at cost? Where is the great difference between their present project and the free seed distribution practised by the Government, and against which the whole country is protesting?

The encouragement by the State of forestry matters is a good one, and deserves commendation, but private parties and not the State should furnish the trees for planting; and if a demand spring up for the stock the people of the State will soon commence growing it, and competition will keep the price down to its proper level.

Cerasus Sieboldii Flore Plena.

Nurserymen who keep up a good supply of the flowering shrubs and trees of early Spring, especially of those with double flowers, find a ready sale for them. When

balmy Spring supplants the cold of Winter there is a rush for outdoor life, and in the garden the first of the trees and shrubs to flower are the ones that receive the greatest welcome. So it comes that the flowering almond, flowering peach, plum, apple and cherry and similar early flowering sorts are always in most demand.

Among tree-like subjects of the character named, the flowering cherries have always been popular. The one of tree size, now often seen on grounds, is that known as Chinese double-flowered cherry. On some estates it is found of the full size of an ordinary cherry tree. The blossoms are white, borne in small clusters, and old sort though it is, it is still much in demand.

The one our notes concern is the Japanese double-flowered, *Cerasus Sieboldii flore plena*. Good as the Chinese variety is, this one is better. It excels in this, that the flowers are of a pink color, very pretty in the bud, and still more so when they expand. As the blossoms begin to fade the color does also, becoming almost white.

But it is not in the flowers alone that this cherry is better than the Chinese. When Fall comes the foliage changes to yellowish crimson, presenting as pleasing a picture as any tree renowned for its Autumn color.

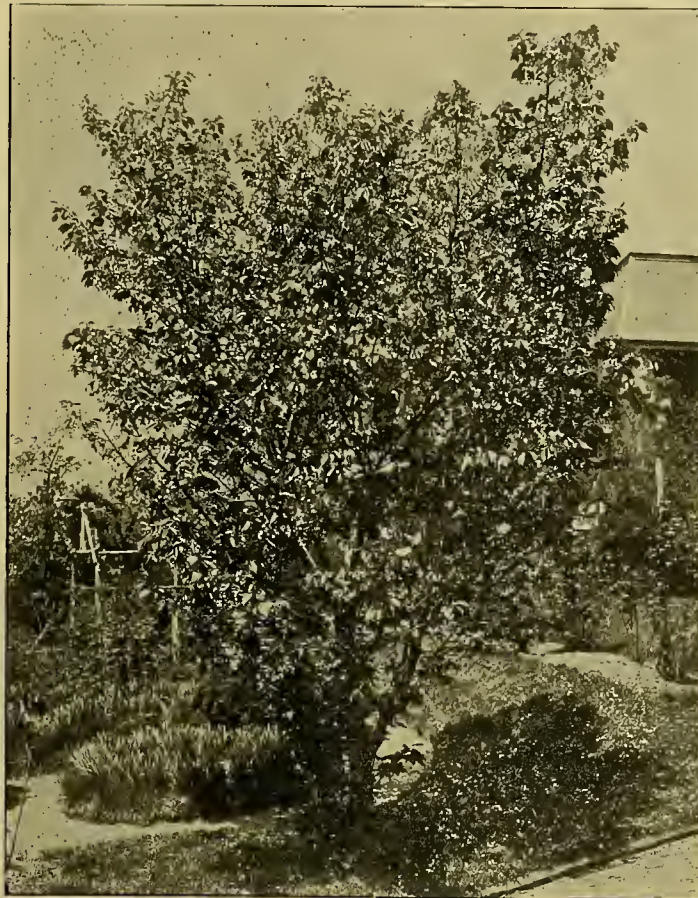
The reference to these two flowering cherries reminds us to say that both of them are met with under the name of *Cerasus sinensis*, and that botanists say that the true name of *sinensis* is *serrulata*. Among so many puzzles in the mix-

ture of names in these cherries it is as well to keep the designations as horticulturists have them, the one of our sketch, the Japanese, being *Cerasus Sieboldii*, and there is this reason for it, too, that even if botanically the same thing, practically in a horticultural way, they are very distinct.

When considering the planting of one of the flowering cherries, it should not be forgotten that they grow to the size of an ordinary cherry. And in the Northern States the planting should always be done in early Autumn. There is but a short time for planting in Spring, and cherries of all kinds, if left until then, are apt to push into growth early, and when they have done this they transplant safely with difficulty.

JOSEPH MEEHAN.

HOPS.—A Farmers' Bulletin, prepared in the Bureau of Plant Industry, will be issued later dealing with the propagation, planting, and cultivation of the hop, methods of pruning, trellises and systems of training, methods of picking, of curing, and of baling, cost of production, marketing, and the profits of the industry. This Farmers' Bulletin may be obtained without cost by addressing the U. S. Department of Agriculture, Washington, D. C., and will also be for distribution by Senators, Representatives, and Delegates in Congress.



Cerasus Sieboldii Flore Plena, Japanese Double Flowering Cherry

for forest planting in the State; and further that any surplus stock which may be left in the hands of such station from time to time after the demands mentioned have been supplied may be sold to parties outside of the State at fair market prices.

This action on the part of the Vermont Experiment Station comes as a surprise to the nurserymen of the country. The idea of furnishing nursery stock of forest tree seedlings free, or at cost, is not right for the State to do at all. Experiment stations are not created for the purpose of engaging in business, and they should not be permitted to sell anything whatever of what they produce. They are created for experimental purposes and to furnish useful information to the residents of the State. When they go into raising nursery stock, either for forestry purposes or any other commercial purpose, they are in opposition to any one in their own State or in any other State that makes a business of growing trees. It is not right that a State should raise trees to sell at cost. What is to become of the nursery business of any one in the State who has to raise his stock and sell it at a profit? Even if there be no one in the State who grows stock for the purposes of forestry it interferes with the business of some one outside the State who may wish to ship his product into that State. It should be the business of the experi-

CANNAS

Strong Pot Plants, except where noted. Mont Blanc (White) \$1.25 per doz., \$8.00 per 100; dormant roots, \$1.00 per doz., \$6.00 per 100; King Humbert, \$1.50 per doz., \$10 per 100; Louisiana, \$1.25 per doz., \$8.00 per 100.

Betsy Ross, Fairhope, Pierson's Premier, Gray, Pennsylvania, David Harum, Evolution, 75c. per doz., \$5.00 per 100.

Austria, Italia, Black Prince, John White, Shenandoah, Robusta, Cannazofia (giant Canna), Duke of Marlborough, Florence Vaughan, George Washington, J. D. Eisele (best scarlet), Mad. Crozy, Miss Sarah Hill, Mme. Berat, Pillar of Fire, Queen Charlotte, Compté de Bonchard, 60c. a doz., \$4 per 100; Burbank, 60c. per doz., \$4.00 per 100; dormant roots, 50c. per doz., \$2 per 100; John White, 60c. per doz., \$4 per 100; dormant roots, 60c. per doz., \$4 per 100; Charles Henderson, 60c. per doz., \$4 per 100; dormant roots, 50c. per doz., \$2 per 100; Florida, 60c. per doz., \$4 per 100; dormant roots, 5c. per doz., \$2 per 100; dormant roots, 5c. a doz., \$3 a 100; Maiden's Blush, 60c. a doz., \$4 a 100; dormant roots, 50c. a doz., \$3 a 100.

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Eldorado, Francis Joost, Governor Roosevelt, Lizzie McGowan, Louis Haelt, Melba, The Queen, \$3.50 per 100.

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Nephrolepis Elegantiissima (Tarrytown), \$6 per 100; Pierson, Boston, \$4 per 100; Scottii, \$6 per 100; Jacksonii, \$4 per 100; Barrowsii, \$6 per 100; Sword Fern, \$3 per 100.

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DAHLIAS, 25 leading varieties, \$4 to \$6 per 100; VIOLETS, Lady Hume Campbell, Princess of Wales, Luxonne, 2 1/2-in., \$3.50 per 100; BEI BEGONIAS, 25 kinds, including President Carnot, Silver Queen, Helen Upden, Beauty of Richmond, Louis Gosson, \$5.00 per 100; CISSUS DISCORD, 2 1/2-in., \$4 per 100; Cyperus Grasses, 2 1/2-in., \$3.50 per 100; Weeping Lantana, 2 1/2-in., \$3.50 per 100; Ageratum, White and blue, 2 1/2-in., \$3.00 per 100; Sansevieria Zealanica, 2 1/2-in., \$3.00 per 100; Manettia Vine, 2 1/2-in., \$3.00 per 100; Giant White Scented Snapdragon, \$3.00 per 100; Abutilon, Souv. de Bonn, \$3.00 per 100; Acalyphas, 4 varieties, 2 1/2-in., \$3.00 per 100; Hibiscus Sinensis, 3 varieties, 2 1/2-in., \$4 per 100; Guavas, 2 1/2-in., \$4.00 per 100; Alternantheras, red and yellow, 2 1/2-in., \$2.50 per 100; 4-in., \$6 per 100; Achyranthos, 2 1/2-in., \$3.50 per 100; Verbena, assorted colors, 2 1/2-in., \$3.00 per 100; Russelia Lemoini, 2 1/2-in., \$3.60 per 100; Asparagus Sprengerii, 2 1/2-in., \$4 per 100; Asparagus Plumosus, 2 1/2-in., \$4 in., \$4 per 100; Ficus Elastica, 5-in., 50c. each; Swainsonia, white and pink, 2 1/2-in., \$3.50 per 100; Pot Hydrangeas, Otaksa, Red Branched and Thomas Hogg, 2 1/2-in., \$5 per 100; Baby Primrose, 2 1/2-in., \$3.00 per 100; Kentia Fictoriana, fine plants, 4-in. pots, \$5.00 per doz., \$35 per 100; Arecas Lutescens, 2 1/2-in. pots, \$6 per 100; Washingtonia Filifera, 2 1/2-in. pots, \$4 per 100; Lantana Borbonica, 2 1/2-in. pots, \$4.50 a 100. Geraniums, 30 varieties, including Jean Vland, Trego, Ricard, Harcourt, Heteranthe, M. Ott, Rosebud, Mme. Landry, Nutt, Telegraph, La Favorite, Scented-leaved varieties, etc., \$4 per 100. Cape Jessamine, 2-in. pots, \$3.50 per 100; Chrysanthemums, all the leading varieties, 2 1/2-in., \$3.50 per 100. Flowering Begonias, President Carnot, Argentea Guttata, Sandersonii and others, from 2 1/2-in. pots, \$3.50 per 100; Calla Little Gem, 2 1/2-in. pots, \$4.00 per 100; Grevillea Robusta, 2 1/2-in. pots, \$3.50 per 100; Clerodendron Balfourii, 2 1/2-in. pots, \$5.00 per 100; Fuchsias in variety, from 2-in. pots, \$3.50 per 100.

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Boston.

The Week's News.
On Saturday at Horticultural Hall the regular May exhibition of bulb- and Spring flowering plants was held, and although the backward season made the list of competitors small yet the quality of the flowers shown was exceedingly fine. Martin Sullivan, gardener to Mr. William Whitman, was the principal exhibitor and his pans of Darwin and May-flowering tulips were grand. He also had some very fine pelargoniums for which he received the first prize. In the collection of hardy narcissi W. N. Craig, gardener to Miss M. Ames, was first with a very fine lot of blooms; Martin Sullivan was second, and W. J. Clemson, third. J. L. Smith, gardener to Mrs. A. W. Binke, showed pansies all of exceptionally fine strains, some of the blooms being better than have been seen in Boston for years. The same exhibitor had a very nice Himalayan Rhododendron formosum. Martin Sullivan had a fine plant of Cattleya Skinneri receiving honorable mention for same. George Page, gardener to Mrs. Frederick Auger, staged some fine Marechal Niel roses of exceptional size and received a first class certificate. Perhaps the finest exhibit in the hall was the plant of Cattleya Mossie exhibited by J. T. Butterworth; a silver medal was awarded for the superior cultivation of this plant and well it might, for there were fifty-nine fully developed flowers on it.

Newport, R. I.

The faculty of the Rhode Island College of Agriculture labored unremittingly for two years in the interest of the appointment of a state commission for the suppression of the gypsy moth. At last those labors have borne fruit, not only has a commission been appointed in the person of Mr. A. E. Stone a professor at the college; but it carries with it a goodly appropriation as a means of conducting the work successfully. Oscar Schultz, who has begun the erection of greenhouses for the storage of palms, etc., has temporarily suspended operations in order to catch up with other important undertakings. The retail trade in plants has just commenced for outdoor work. Dahlia growers are encouraged by the orders thus far received and express the conviction that by the end of the season the amount of business will equal if not eclipse that of last year. The planting of deciduous trees and shrubs is not yet half completed; there are several large shipments to arrive. D. M.

Washington, D. C.

Club Notes.
The Washington Florists' Club held its regular monthly meeting on May 7, President Bisset in the chair. Owing to the inclement weather the assembly was not of its usual size, nor was the meeting of the usual duration. Secretary McCauley read several letters received from florists asking about the prizes which they had won by their entries at the show, and claiming that an error had been committed. It seems that some exhibitors were not members of either the American Rose Society or Washington Florists' Club, and who by reason of this, in order to comply with the rules governing the show, were compelled to pay an entry fee of \$3. In a few instances competitors for prizes offered by the Florists' Club deposited their money with Secretary Hammond of the Rose Society, when their exhibit was before the club. Thus the mistakes occurred. Secretary McCauley was, however, instructed to take up the matter with Mr. Hammond, and as he will do so at once, it will no doubt soon be adjusted to the entire satisfaction of all concerned.

The rhododendron exhibition of the Massachusetts Horticultural Society has, owing to the lateness of the season, been postponed one week; it will now be held on June 8. At the chrysanthemum exhibition of the society, November 8, 9 and 10, the following special prizes will be awarded in addition to those in the regular schedule: For the best large vase of 100 blooms of chrysanthemums arranged for effect, \$40, \$30, \$20, and \$10. For the best table, 8x6 feet, of cut chrysanthemums, all classes, commercial growers only, \$40, \$30, \$20, \$10. For the best table, 8x6 feet, cut chrysanthemums for retail store florists only, Autumn foliage may be used for effect, \$40, \$30, \$20 and \$10. For the best vase of 50 roses one variety, open to all, \$50, \$30 and \$20. For the best six vases of carnations distinct, 50 blooms in each vase, open to all, \$40, \$30, \$20 and \$10. Gardeners and Florists' Club prize for the best table center-piece of growing plants, table for eight covers, \$12, \$8 and \$5. For the best table of fruit, 8x6 feet, foreign and native varieties admissible and best arrangement to be considered, \$40, \$30, \$20 and \$10. For the best collection of vegetables in fifteen varieties, private gardeners only, R. & J. Farquhar & Company's silver cup (valued at \$75), \$25, \$15 and \$10. W. B. Nickerson, Cambridge, who is one of the leading amateur rose enthusiasts, a member of the American Rose Society as well as of the National Rose Society of England, last Spring offered three prizes of five pounds each to the raiser of the best hybrid perpetual rose, to the raiser of the best hybrid tea rose, and to the raiser of the best tea rose, all introduced since 1900. Sixty judges were selected by the National Rose Society of England to be equally divided between the amateurs and professionals. The decision of these judges has just been made public with the following results: One prize to the raiser of Frau Karl Druschki, this variety receiving fifty-four votes out of fifty-five, the fifty-fifth vote going to Hugh Dickson. One prize to the raiser of Dean Hole, which variety received thirty-six votes. J. P. Clark received six votes and Mildred Grant three. In tea roses the competition was more keen. One prize to the raiser of Mme. Jules Craveaux which received nineteen votes. Souvenir de Pierre Notting received sixteen votes and Lady Roberts six. F. Huber of Huber & Company, bulb growers, Guernsey and Portsmouth, Va., was a visitor this week. W. E. Coburn, of Everett, will open a retail store on Bromfield street in a few days. J. W. DUNCAN.

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Out of 4 in. pots, \$10.00 per 100.
Souper Roses, bushy plants, \$3.00 and \$4.00 per doz. Cash with order.
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10,000 CANNAS

In 3 and 4 inch pots
ALL BEST BEDDING VARIETIES
GRIFFIN BROTHERS
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For 22 Years we have been
Headquarters for NEW AND RARE DAHLIAS
We have originated and introduced more Dahlias of Merit than all the other American Growers combined. Now is the time to plant. Send for our Catalogues. Always address
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M. L. Peacock, Pres., L. K. Peacock, Sec'y and Gen. Mgr

ROSES

Rose Growing.

Extract from Paper read before the Morris County Gardeners and Florists' Society by Andrew R. Kennedy, April 10, 1907.

Rose plants for forcing may be started by cuttings rooted in sand or by cions grafted on manetti stocks. Those started from cuttings are probably better for small growers and private gardeners, but for large commercial plants, I think the grafted stock is more easily grown, and will yield larger profits.

In propagating from cuttings, there are two points that I think cannot be mentioned too often: one is, always, and at any cost propagate from clean, vigorous stock; and the other I consider equally important: Don't hurry the rooting process. Cuttings that are kept cool and moist and are ready for potting, that is, have emitted roots a quarter of an inch long at the end of the fourth week after insertion, will invariably make better plants than those that are rooted in less time.

Potting and repotting as growth necessitates, will be in order till June; when the plants should be benched. If, for two months after benching, the growing has been as near normal as possible, the plants should be strong enough to begin cutting and forcing. Cutting is very important at this stage of growth; the prospects of the whole year are often ruined by an indiscriminate use of the knife.

Early cutting does not pay; for the prices obtained are usually low, and I do not hesitate to say that if all buds are taken, pinching those on small wood and cutting the bottom shoots with from four to six eyes, as soon as the buds show color, the future strength and productiveness of the plants will justify such treatment, for it is generally admitted that developing the buds is the greatest tax on the energy of the plant.

After cutting begins, syringing will generally furnish all the clear water necessary. All other water used should be more or less enriched, unless on some occasions when the bench would be too dry to receive manure water, when a light watering of clear water should be given first. I consider liquid feeding by far the best during Fall and Winter, for then the surface of the soil could be scratched lightly, and the whole bench will dry in less time than if covered with mulch; and if my observation is right, a bench that can be dried and watered often during the Winter, will produce more active growth than one that is kept continually wet.

About February 1, when the days get longer and brighter, the plants will readily take hold of a coating of mulch and it will act both as food and a covering for the roots that have reached the surface.

When the plants begin to break from the old wood, it is time to start pruning; by the time the new shoots have finished their foliage the greater part of the old, blind wood should be cut away, and thus during the Spring months the plants will present almost as pleasing an appearance as they did in the early Fall, and I might ask what is nicer than a neat house of roses? You may answer a bouquet of cut roses. When we say "a bouquet of roses," we mean what we say. It does not mean a bouquet in which roses predominate, bedecked with foliage of other plants, for a well-grown rose together with its beauty of flower, is furnished with beauty of foliage and rare perfume.

We have our carnation enthusiasts and our orchid and other enthusiasts, but I believe the majority of mankind, both rich and poor, are rose enthusiasts.

The rose is a flower we all enjoy. Some are fortunate enough to have roses at all times by forcing, but in June, the rose blooms for the less fortunate in any humble spot it may chance to occupy.

A RECORD TO BE PROUD OF

The Florists' Hall Association has paid 1,040 Issues amounting to \$102,000.00 For particulars address

JOHN G. ESLER, Saddle River N. J.

The season of 1906-07 is rapidly drawing to a close. It has been a very hard one on the rose grower, for while the prices realized were at times almost abnormal, the weather was very unpropitious, the number of bright days being very limited. This meant fewer flowers and higher coal bills.

We still have several weeks before planting time, and the old plants should not be neglected too much, if any; for fair prices generally are obtained in June, the month of weddings and school commencements. Keep the liquid going; overfeeding is almost impossible now. Syringe every clear day, but make sure before syringing that all the manure water is out of the pipes, otherwise the flowers may be badly spotted. The red spider multiplies very rapidly at this time of the year, and as the plants are very bushy it is hard to dislodge this insect. Greenfly should also be watched for closely, for if once a foothold is obtained by it no end of fumigating will be necessary to get rid of the pest. Watch the air very closely and keep a little sulphur on the heating pipes at all times; where hot water is used alone, a little sulphur should be dusted on the plants on clear days, to guard against mildew. Have all the watering and syringing done in the morning, so that the plants are dry again by night.

The fires should be kept going, for though it is May the weather is suitable for March; therefore don't close down early in the afternoon to save a little coal.

The young stock, however, is what takes, or at least, should take up most of our time, and yet how many growers neglect it, allowing the plants to get choked with weeds, potbound, and the soil covered with scum. On the proper handling of this stock depends our next season's success or failure to a very large extent, therefore the plants should all be thrifty and kept so. It is a paying investment to throw away the weak ones and purchase good stock from reliable people at a fair price; 2½-inch plants shifted now will make fine stock for planting in June or early July. Give them plenty of room on the bench; leave a little space between the pots, so as to allow of a free circulation of air. Remove all buds as soon as they show color, and be sure to take at least one leaf with the bud to insure a stronger break. If you have any grafted plants go over them occasionally; break off all the manetti shoots, also examine every union, and see that the binding is not cutting into the wood; if so, cut it loose and retie. All grafted plants should be staked to prevent breaking while syringing.

PENN.

BREEDING FROM THE BABY RAMBLER ROSE.—A number of cross-bred seedlings, grown from Baby Rambler, are disappointing in that none turns out to be constant-blooming, though largely pollenized with ever-blooming kinds, says Dr. Van Fleet in Rural New Yorker. All came near to the Crimson Rambler type, regardless of the habit of the pollen parent, and will probably develop into tall-climbing annual bloomers. When pollen of Baby Rambler, which has the continuous flowering Gloire des Polyanthes as one parent, is used on the stigmas of annual-blooming Ramblers of Wichuraiana hybrids, very dwarf ever-blooming plants result in large proportion, and something may perhaps be done to develop a useful group, of which Baby Rambler will likely remain the type.

GRAFTED ROSES

On Best English Manetti Stock
2½ inch pots; A No. 1 Plants

KAISERIN }
RICHMOND } \$10.00 per 100
WELLESLEY }
CHATENAY }

Own roots, from grafted stock, 2½ inch pots
RICHMOND }
WELLESLEY } \$3.00 per 100
KAISERIN }
CHATENAY } \$25.00 per 1000
BRIDES }
MAIDS }

S. J. REUTER
WESTERLY, R. I.

BEDDING STOCK

Salvia Splendens and Fireball, 2 in. \$2.50 per 100; 3 in. \$4.00 per 100.
Begonia, Vernon and Fairy Queen, 2 in. \$2.50 per 100.
Petunia, Giant Ruffled, 2 in. \$3.00 per 100.
Lobelia Speciosa (Trailing) and Crystal Palace Compacta, \$2.50 per 100.
Alyssum, Little Gem, 2 in. \$2.50 per 100.
Verbena, Mammoth Flowered mixed, \$2.50 per 100.
Forget-Me-Nots in variety, \$2.50 per 100.
Cobaea Scandens, 2½ in. \$4.00 per 100.
Brownallia Speciosa Major, 2 in. \$3.00 per 100.
Alternantheras, Red and Yellow, 2 in. \$2.50 per 100.
Hardy Pinks, 2 in. \$2.50 per 100.
Clothilde Soupert Rose, 2½ in. \$3.00 per 100.

The STORRS & HARRISON CO.,
PAINESVILLE, OHIO.

JAPANESE IRIS

Every florist should have a bed of this beautiful class of Iris. They are perfectly hardy and need little care. The large and magnificent flowers are very useful for cutting. Our collection consists of 25 of the best varieties. Strong clumps: 15c. each, \$1.50 per doz.; \$3.00 for the set of 25 varieties.

PANSIES

Strong bushy plants raised from our "Gold Medal Strain" sown in July. \$3.00 per 100; \$27.50 per 1000.

PERENNIAL GARDENS CO. TOLEDO, O.

SPORT OF CHATENAY

As free as CHATENAY, color of BON SILENE;
2½ in. pots, \$25.00 per 100; \$150.00 per 1000.

EMIL GLAUBER, - - Montclair, Colo.

AMERICAN BEAUTY ROSES

Strong plants from 2¼ x 3 in. pots. Ready for a shift. \$7.00 per 100; \$65.00 per 1000.

JOSEPH HEACOCK COMPANY, WYNCOTE, PA.

Grafted Roses

1 year } ROSES } 2 yea
2½ in. } } 4 in.

VINCA MAJOR VARIEGATA

See price list, page 608, May 4th.

THE LEEDLE FLORAL COMPANY
SPRINGFIELD-OHIO

KAISERIN ROSES

2¼ in. pots, \$3.50 per 100; \$30.00 per 1000.
3 in. \$6.00 per 100.

Carnations all sold.

E. H. PYE, Upper Nyack, N. Y.

SWEET POTATO PLANTS

NOW READY

Yellow Jersey, Red Jersey and Big Stems, \$1.25 per 1000; 35c. per 100.

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DWARF BOX

I have about 15,000 extra fine Dwarf Box to offer. Let me quote you before you buy.

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PLANT CULTURE

PRICE \$1.00

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2 Duane Street, New York

LOOK HERE

Grafted rose plants, 2½ and 3 in. pots, \$12.00 per 100; \$100.00 per 1000. Brides, Bridesmaids, Killarney, Richmond.

Brides, Bridesmaids, own roots, 3 in., \$6.00 per 100; \$50.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE, BRIDGEPORT, CONN.

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.



(87) **Poinsettias for Christmas.**—Kindly give me a little information about growing poinsettias for Christmas. When should they be started, in greenhouse or outdoors, in beds, boxes or pots, and something about the culture required? **POINSETTIA.**

North Carolina.
—Poinsettias for commercial purposes are grown in various ways, it all depends upon how the grower intends to use them, whether they are to be sold as cut blooms, as large specimen plants or planted five or six together in pans for dwarf subjects at Christmas time. For the large specimen plants the cuttings should be taken some time in February, using the old cane, cutting it into two or three eye lengths and rooting them in a propagating bed where there is plenty of bottom heat. When these are rooted they are potted along and kept growing in pots right through the Summer, and require constant care all the time right up to their flowering period. For plants that are to be grown on benches for cutting purposes, the cuttings may be taken much later. To obtain these cuttings the old plants are started into growth in February or March and cuttings made of the young wood that starts, and rooted in the ordinary manner. These are grown along in pots until the middle of Summer, then planted out on benches in the greenhouse and kept growing until they flower and are ready to cut, the object being to get them in for Christmas. For dwarf plants, the old stock is kept over until such time as it can be planted outdoors; then when growth starts, cuttings are made from the young shoots and rooted in the ordinary manner. These are kept growing until they get six or seven inches high; then plant them, several plants together, in pans and grow them along in the greenhouse. These make nice, dwarf stock for Christmas flowering. It should be remembered that the poinsettia loves plenty of heat at all times and requires a fairly rich soil, but one in which no green manure has been used. Another point to be watched carefully is, that the plants never be allowed to want for water during their growth; if they once are neglected and the foliage wilts, it is sure to result in a loss of some of the lower leaves, and the plants are then spoiled past redemption, as new leaves will never form again.

(88) **Time to Sow Seeds.**—Kindly inform me the time to sow seeds of cinerarias, Primula obconica and Chinese primrose. **S. A. P.**
New York.

—We prefer to sow Primula obconica in January or February and the Chinese primroses during April. The cinerarias we also like to sow during April. At the same time all of these varieties of seeds may be sown at this time, and will make fairly good plants for next season.

BEDDING PLANTS

We have the following stock in any size and quantity:
SALVIA SPLENDENS, St. Louis and Bonfire.
COLEUS, in eight leading varieties.
AGERATUM, Dwarf Blue.
GERMAN IVY.
RAMBLER ROSES, in pots.
HELIOTROPE, Little Giant.
JOHN SCOTT
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BROOKLYN, N. Y. TELEPHONE 2890 Bedford

Lilium Auratum

GOLDEN RAYED LILY OF JAPAN

Every florist should plant or pot some of this magnificent Lily. We offer good dormant sound bulbs, clean and repacked, at the following close prices:

8 to 9 inch, - - \$4.00 per 100
9 to 11 inch, - - 7.00 per 100

LILIUM SPECIOSUM RUBRUM

	Doz.	100	1000
8 to 9-inch bulbs.....	\$0 75	\$5 50	\$50 00
9 to 11-inch bulbs.....	1 25	8 50	80 00

LILIUM SPECIOSUM MELPOMENE

	Doz.	100	1000
8 to 9-inch bulbs.....	\$0 75	\$6 00	\$55 00
9 to 11-inch bulbs.....	1 25	8 50	80 00

SEASONABLE SURPLUSES

DRY CYCAS STEMS

Fresh imported, true long leaf variety, in cases containing about 350 lbs. each; 75 per cent. of the stems 1/2 lb. to 3 lbs. each; 25 per cent. 3 to 6 lbs. each.
Per 10 lbs., 12 cts. per lb.; 100 lbs., 10 cts. per lb.; whole case, 7 1/2 cts. per lb.

JAPANESE FERN BALLS

5 in., \$2.00 per doz.; \$15.00 per 100.

HYDRANGEA PANICULATA GRANDIFLORA

Two-year-old, 3 to 4 branches, bushy, \$1.50 per doz.; \$10.00 per 100.

ARISTOLOCHIA SIPHO

Dutchman's Pipe, strong field-grown, \$3.50 per doz.

WISTARIA SINENSIS

Extra strong field-grown plants. Blue, \$3.50 per doz.; \$25.00 per 100. White, \$5.00 per doz.; \$40.00 per 100.

HONEYSUCKLE

Extra strong field-grown plants, 5 feet long, many branches. Coccineum. Scarlet. Flava, yellow.

Serolinum Belgica (Monthly Dutch). Red. \$3.00 per doz.; \$22.50 per 100.

AMPELOPSIS

Ampelopsis maralis, large foliage, \$3.00 per doz.; \$20.00 per 100.

Quinquetolla (Virginia Creeper). Good for covering walls, verandas, or trunks of trees; affords shade quickly. 25c. each; \$2.50 per doz.; \$18.00 per 100.



Lilium Auratum

PAEONIES

The roots offered below are extra strong pieces, having 3 to 5 eyes each:

PAEONIA OFFICINALIS

	Per doz.	Per 100
Rubra. Deep crimson.....	\$1 00	\$7 00
Alba. White.....	2 00	15 00
Rosea. Rose; also a good forcer.....	1 75	12 00

PAEONIA CHINENSIS

Double White Varieties.....	\$1 50	\$12 00
Double Pink Varieties.....	1 50	10 00
Double Red Varieties.....	1 25	9 00

Case of Chinensis containing 67 Double White, 66 Double Red, 67 Double Pink Paeonias—very strong roots, 3 to 5 eyes —200 in all, \$20.00 per case, 3 cases for \$50.00.

PAEONIA CHINENSIS

Named Varieties

Hamlet, fiery red; Fragens, bright red; President Harrison, deep red; Mad. Benoit, soft red; Albert Victor, crimson; Elegant, pink; Pink Beauty, bright pink; Cleopatra, silvery pink; La Noblesse, fine rosy pink; Marie Hamilton, lively rose; Marie Louta, soft rose; Her Majesty, rose, light center; Blushing Bride, soft rose; Sunbeam, rosy white; Comte de Nancy, silvery rosy white; Mona. O'Boy, bluish-white; Princeess Mary, creamy white; Alba plena, pure white; Queen Victoria, snow white; Gloria Mundi, creamy white. Any of the above at strong roots, 15 cts. each, \$1.50 per doz., \$10.00 per 100.

PAEONIA FESTIVA MAXIMA

True

The finest white Paeonia in cultivation. 40c. each; \$4.50 per doz.; \$35.00 per 100.

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BOXWOOD

Bushes per pair, 50c.-75c.-\$1.00-\$1.25-\$1.50. Pyramids, per pair, \$3.00. English Ivy, \$2.00 per doz, \$15.00 per 100.

Anthericum, variegated for vases, \$1.50 per doz.

Aspidistras, green, \$12.00 per doz. in 6 in. pots; \$18.00 per doz. in 8 1/2 in. pots.

Latania or Livistonia Sinensis, 7 in. pots, \$15.00 per doz.; 8 in. pots, \$18.00 per doz.

Dracaena Indivisa, 5 1/2 in. pots, \$6.00 per doz.

Crimson Ramblers and Dorothy Perkins, fine plants well budded, \$12, \$18 and \$24 per doz.

Dracaena Fragrans, 6 in. pots, \$6.00 per doz.

Aparagus Sprengeri, 3 1/2 in. pots, \$1.25 per doz.; \$10.00 per 100.

Ardisia Crenulata, fine plants for fruiting, 4 1/2 in. pots, \$50 per 100.

Large Boston Ferns, per pair \$12.00 for hall decoration.

Kentias in all sizes, from 50c. up.

Araucaria Excelsa, \$2.00 to \$3.00 each. 8 in. and 9 in. pots.

Fern Balls, 6 in., \$4.00 per doz.; 8 in. \$9.00 per doz.

Bridal Myrtle, 4 in. pots, \$3.00 per doz.; 6 in. pots, \$12.00 per doz.

Phoenix Canariensis, 2 ft. 6 in., 10 leaves, \$3 per pair; 2 ft. 10 in., 10 leaves, \$4 per pair; 3 ft., 10 leaves, \$5 per pair; 3 ft. 4 in., 10 leaves, \$6 per pair.

Bay Tree Standards, 4 ft., 8 in. stem, \$12.00 per pair; 4 ft., 8 in. stem, \$15 per pair; 4 ft., 8 in. stem, \$18 per pair.

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Our selection.....	\$2.50 per 100; \$20.00 per 1000
Purchaser's Selection.....	\$3.00 per 100; \$25.00 per 1000
Verbena Cuttings, our selection.....	75c. per 100; \$6.00 per 1000
Verbena Cuttings, purchaser's selection.....	90c. per 100; \$8.00 per 1000

GRAFTED ROSES, the Finest and Best Grown

Liberty, Richmond, La France, Killarney.....	rose pots.....\$15.00 per 100	3 1/2 in. pots.....\$18.00 per 100
Bride, Bridesmaid, Golden Gate, Kaiserin.....	rose pots.....\$10.00 per 100	3 1/2 in. pots.....\$15.00 per 100

ROSES, Own Roots

Bride, Bridesmaid, Perle.....	3 in. pots, \$7.00 per 100
La France, American Beauty.....	3 in. pots, \$9.00 per 100
100 Ivory, 100 Wootton, 100 Bon Silens, 100 Meteor, 100 Marechal Neil, 300 Liberty in 3 in. pots, which we offer at \$5.00 per 100. Good stock.	
Golden Gate, in 3 in. pots at.....	\$7.00 per 100

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BELGIAN PLANTS, FINEST STOCK, LOWEST PRICES

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Araucaria excelsa, fine plants, \$20.00 per 100 up.	Aspidistras variegated, \$7.00 per 100 leaves.
Rhododendron Hybrids, 24 named varieties, \$18.00 per 100 up.	Rubber Plants, (Ficus elastica), \$9.00 per 100.
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Aspidistras green, \$4.00 per 100 leaves.	Bay Trees, from \$3.00 per pair up.
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L. VAN STEENKISTE

HORTICULTURE INTERNATIONALE 1 Dey St., Jersey City, N. J.

FOUNDED IN 1882



Weekly Medium of Interchange for Florists, Nurserymen
Seedsman and the Trade in General

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

Society of American Florists and Ornamental Horticulturists.

Department of Plant Registration.

John A. Macrae, Providence, R. I., on February 6, submitted for registration *Chrysanthemum Golden Dome*, sport of *Yellow Eaton 1904*; form of *Major Bonafon*, color deeper yellow, but same characteristics of growth, habit and size of flower, darker foliage than the parent; height between 3-12 and 4 feet.

A. C. Zvolanek, Bound Brook, N. J., on February 28, submitted the following new Christmas-flowering sweet peas—*Le Marquis*, seedling from Wm. J. Stewart × *Gladys Unwin*, violet blue; Mrs. George Lewis, seedling from Watchung × *Gladys Unwin*, white; Mrs. A. Zvolanek, seedling from Helen Pierce × *Christmas White*, white blue notched; Mrs. Chas. H. Totty, seedling from Mrs. Alexander Wallace and light blue unnamed seedling, sky blue.

Alexander Montgomery, Waban Rose Conservatories, Natick, Mass., on March 18, submitted *Rose White Killarney*, sport from *Killarney*, with same form, habit, and more petalage; clear white.

P. J. HAUSWIRTH, Secretary.

Ladies' Auxiliary.

As the work of the Ladies' Auxiliary of the S. A. F. O. H. progresses I find many of the 800 circulars sent out November 8, 1906, found a resting place in the waste basket, as I have been so informed by some of the members of the S. A. F. Therefore, through the trade papers, I invite all ladies who are in the trade, directly or indirectly, to join the auxiliary, and meet with us at Philadelphia next Summer.

Mrs. CHAS. H. MAYNARD, Secretary.

Detroit, Mich.

AMERICAN CARNATION SOCIETY.—The proceedings of the sixteenth annual meeting of the society held in Toronto, Ont., January 23 and 24, 1907, has been distributed by Secretary Herr. It contains all the papers and reports read, with a stenographic account of the discussions, premiums awarded, certificates issued, list of varieties registered 1906-7; also the list of active and life members. The former numbers 301; the latter, 7.

The report, which is illustrated, is up to the high standard of its predecessors, as regards the practical and valuable nature of the contents. A fine portrait of Ex-president John H. Dunlop forms a frontispiece.

It has been suggested, and the suggestion is a good one, that a paper on "The Credit System" would form an interesting and helpful feature of the S. A. F. O. H. convention at Philadelphia next August. Respectfully submitted to Secretary Hauswirth.

By Way of Reply.

Editor Florists' Exchange:

We were interested in your article under the above heading which was in the nature of a reply to remarks by R. T. McGorum, in the issue of *Horticulture* for April 20. We must confess to being much amused at the persistent policy of *The Florists' Exchange* in heralding itself as the only bona fide trade horticultural organ in the U. S. A. We will remember having a subscription returned from a Chicago contemporary some 16 years ago for not being "in the trade." At a much more recent date we were refused *The Florists' Exchange* for similar reasons. Competition has completely changed all this. We believe we are not far wrong when we state that any individual who is willing to pay \$1, no matter whether he is a gardener or florist, or not, can purchase *The Florists' Exchange*, and for that matter the other trade papers printed, without any inquiries being made as to his affiliation with the horticultural trade.

In regard to purchasing trade papers at cut rates, we entered a subscription for *The Florists' Exchange* with the well-known firm of W. H. Guild & Son, 120 Tremont street, Boston, for the sum of 95c. per annum. The time has gone by for tightening any cords in questions being asked; in fact, the price remained at 95c. until we told our friend, the New England representative of *The Florists' Exchange*, that his paper could be purchased by any one at cut rates. We presume he reported this to headquarters, for the price was advanced to \$1 the following season. We might add that no other horticultural trade journals are offered through this agency.

A whole volume might be written on the question of trade advertisements. Many of the advertisers in *The Florists' Exchange* send their trade lists to private gardeners, and are very willing to furnish them what they have to offer at wholesale figures. We think this is not fair to the trade generally, but it is done right along. There are now so many readers of trade papers who are not in business themselves, many of whom are looking for bargains, that the mere printing of a notice that "These advertisements are for the Trade only" amounts to very little. These self-same advertisers are very slow to turn down an order if it is accompanied with cash or if they are reasonably sure money will be forthcoming. The time has gone by for tightening any cords in horticultural trade journalism. Under existing circumstances, each and every one of the papers caters to some extent for the private gardener's support, and not one of them can afford to throw him overboard. The tendency of the times is rather to hail him as a good fellow and solicit his support, no matter whether it be to the S. A. F. O. H., the American Rose Society, Chrysanthemum Society, Peony Society, Dahlia Society or trade papers.

We are afraid, Mr. Editor, we have wandered away from the subject we started to write about. We are sorry we cannot now save that 5c. per annum on *The Florists' Exchange* subscription. We appreciate the fact that "Job" probably hath need of any stray nickels to purchase philosophical pamphlets with.

North Easton, Mass. W. N. CRAIG.

—The editorial "we" in the above communication rather startled us until "we" had read down to the signature, when, to our relief, we found it was just friend Craig. His "rambling" letter is divided mainly into four parts, all of it interesting. He avers that *The Florists' Exchange* is persistent "in heralding itself as the only bona fide horticultural trade organ in the United States"; of this we were totally unaware until so informed by Mr. Craig, and plead not guilty. But that *The Florists' Exchange* is the best "trade organ" in the country we have often averred—and still believe.

Competition has never succeeded in changing our subscription methods, but the United States government did, in that, not so long ago, it threatened to revoke our second-class mailing permit because we refused point blank to fill a subscription to an amateur who had sent in his dollar. All other publications are in the same boat, for Uncle Sam will not admit of any discrimination. This puts it directly up to the subscriber to keep his trade paper out of sight of the amateur. As to increasing circulation, if *The Florists' Exchange* had the slightest desire to enlarge its own, outside of the trade, it could double, nay quadruple its subscription list in twelve months.

Mr. Craig is dead wrong, so far as *The Florists' Exchange* is concerned, in his statement that we do not make any inquiry as to a new subscriber's trade affiliation. Almost all papers have a way of taking care of their own interests—we believe our interests are identical with those of the trade and govern ourselves accordingly. When Mr. Craig comes to New York, if he will visit this office, we will demonstrate to him how this is done. We do not particularly care to enlighten our contemporaries.

In regard to purchasing trade papers at "cut rates." Mr. Craig is probably a better gardener than he is a newspaper subscription agent, in that we gather he is unacquainted with their business methods. We have never seen any of the club or other lists published by the agency he refers to, so can't say whether we are listed by it or not. We do know that no subscription agency has, at any time in our history, been authorized by us to take subscribers for *The Florists' Exchange* outside of the trade, and much doubt that any agency has ever been authorized to take subscriptions at all for this paper. We do know that no subscription agency can obtain our paper for a customer at less than one dollar per annum; this should be sufficient to discourage even the most enterprising of this very energetic class of business getters.

Mr. Craig says that a whole volume might be written on the question of trade advertisements. He is quite right; but, again, evidently unaware that volumes are being written monthly, almost weekly, on this very subject. We have often thought of writing a brochure ourselves, but have to date refrained, purely out of consideration for our friends. When we do get down to the subject a cautionary foot-line, repeated on every page, will be—"Do not let an outsider see your 'Trade paper.'"

In the meantime, and until the millennium, those florists who best consider their own interests will refuse to sell goods to an outsider at trade prices. That is their privilege, their right and their duty. Here is a propaganda the S. A. F. O. H. should initiate; it would be of more value than essays or even a president's reception. Interest the trade by teaching them how to put money in their coffers; endeavor to set a standard of values, wholesale and retail, for the grower. Educate the grower on cost, and more uniformity of prices will follow.

Mr. Craig says: "The time has gone by for tightening any cords in horticultural trade journalism. Under existing circumstances, each and every one of the papers caters to some extent for the private gardener's support, and not one of them can afford to throw him overboard." Mr. Craig is right and we quite agree with him in the main. The private gardener is entitled to any literature published, trade or otherwise—all except he, who to truckle favor with his employer, endeavors to purchase goods for the latter at trade prices, a right to which the employer is not entitled. The employer has possibly a right to a rate on quantity orders, but not to a trade rate.

Finally, for Mr. Craig's information, we will say that "Job," not having seen this reply, it may lack in that worthy's philosophy, polish and satire. Mr. Craig's letter is published and answered for the reason that *The Florists' Exchange* is sincerely desirous of conserving the best interests of those who represent horticulture and its allied industries, and will welcome practical advice along this line from all who have such to offer.

S. A. F. O. H. Wins in Express Rate Case.

The Inter-State Commerce Commission has rendered its opinion in the case brought by the Society of American Florists and Ornamental Horticulturists against the United States Express Company in the matter of the rate charged on cut flowers from New Jersey points to New York City which, it was asserted, was unreasonable, excessive, and unjust. This rate till July, 1906, was 50c. per 100 pounds, and at that time was raised to \$1 per 100 pounds. Commissioner Franklin Lane, who delivers the opinion of the commission, holds that the rate should be reduced to 60c. per 100 pounds.

The express company defended its increase by asserting that the delivery service given cut flowers in New York was much more expensive than that given other articles, and it could not increase its rate a sufficient amount to meet the expense of this special service without largely increasing the total rate, because of its contracts with the railroads, under which it was required to pay 45 per cent. of its gross receipts to them.

From the opinion of Commissioner Lane it appears "that the United States Express Company has contracts with the Delaware, Lackawanna & Western Railroad Company by which the railroad company receives 45 per cent. of the total gross receipts of the express company; that the service rendered by the railroad company is no greater or different under the new rate of \$1 than it was under the old rate of 50c." The Central Railroad Company of New Jersey receives 43 per cent. and the Lehigh Valley Railroad Company 40 per cent. under the same conditions. Agents are also paid on a percentage basis.

The opinion continues: "Elaborate tables have been presented by the defendant tending to prove that the rate of 50c. was unremunerative, owing to the percentage which it paid to its agents and the cost of delivery in New York. From these same figures it can also be adduced that the present rate of \$1 is unremunerative; and it may well be said that from an analysis of the charges made upon any single commodity or class of commodities transported by this company a similar result should be arrived at."

"In order to increase its business, the express company gives an especially prompt service to flower raisers. There is no evidence that this is not done by all express companies or that it does anything with respect to this traffic which transportation companies do not generally do as to certain classes of perishable freight. But, admitting that an extra return should be made over and above that received for the carrying of articles generally transported by express, no reason has been shown why the railroad charges and agents' pay should be doubled, excepting that the express company has to pay double the amount under its contracts to its agents and to the railroad company—a necessity or condition which we cannot recognize as controlling as to rates."

"The defense of this rate is not at all unlike that which a railroad might make were it to attempt to show that the value of the service which it renders was based upon contracts made with its bondholders by which the latter were entitled to receive a proportion of the proceeds of each individual rate no

matter how grossly excessive the resulting amount might be. Neither this commission nor the courts have given sanction to any such inequitable and unscientific method of rate adjustment.

"An express company cannot justify a rate which, in comparison with other rates, is excessive and unreasonable by showing that it gives a service that is exceptionally expensive, where the burden of the rate is charged therefor falling upon the shipper increases an already sufficient return to the railroad. An express company is entitled to charge a reasonable amount for the service which it gives, and this service, being partly rendered by its own agents and employees and partly rendered by a railroad, it cannot justify a rate by the production of its own contracts made with the agent and the railroad.

"To pay the agent a commission instead of a salary, and to pay the railroad a percentage instead of a fixed amount, or a mileage, or a tonnage, may be, practically, a very satisfactory arrangement between the express company and the railroad and the agent; but from the standpoint of the public such an arrangement cannot be held to support the reasonableness of any rate which the express company may choose to charge. What if the express company had contracted with its agent to pay him 50 per cent. of all gross receipts, or with the railroads to pay it 90 per cent. of such receipts?

"Such contracts are entirely between the parties themselves. They are not in the nature of fixed charges, because they are not fixed, they move upon a sliding scale, dependent entirely upon the rate. And it would be against the highest public policy to permit rates to be controlled by such contracts, because such practice must inevitably tend to promote the increase of rates on express service. The railroads could, through such contracts, control the rates to be fixed by the express companies, and it would be to their interest always to increase rates so long as the traffic would move thereon, for thereby their portion of the receipts under the contract would be increased."

The order of the commission requires the United States Express Company to desist from charging the one dollar rate after June 15, and directs it to put in a 60c. rate from Chatham and Somerville, N. J., to New York City; a 72c. rate from Allentown, Pa., to New York City, and from Philadelphia, Hillside, and Dorranceton, Pa., a 90c. rate. The order also directs the reduction on rates on empty flower boxes from New York City to the points named to the merchandise rate of 50c. per hundred pounds.

The question of reparation to injured shippers is held in abeyance subject to proofs to be taken.

The ruling of the Inter-State Commission will meet with the approval of the entire florist trade, notwithstanding the fact that only a restricted locality is affected by the result; inasmuch as it demonstrates the potency and usefulness of the S. A. F. O. H. in matters of this kind. The decision will also tend to allay all apprehensions, for the time being at least, regarding an increase in express rates generally, which, had the case been decided adversely to the national society, it was feared—and by some positively asserted—would result.

The United States Express Company has also been taught that contemptuous and contemptible treatment of an organization representing national trade interests is not the wisest thing after all; and that the rights of its patrons cannot be indifferently ignored with impunity. It is to be hoped that the lesson this grasping corporation has received will prove a permanently salutary one.

Above all, the least that those benefiting, both directly and indirectly, from the successful outcome of the efforts of the S. A. F. O. H., in the direction indicated, can now do, is to show their appreciation of the society's endeavors on their behalf by affiliating themselves with the organization—something from the doing of which a majority of the immediate beneficiaries have so far refrained.

THE TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY, one of the most progressive organizations of its class, has set an example to other horticultural bodies of like nature, by deciding to lay out and decorate the grounds surrounding the new hospital of that town, exclusive of the rough grading. Practical work like this, and for such a deserving purpose, reflects the greatest credit on the society's members, and is sure to bring its own reward. It is worthy of emulation everywhere. Show the inhabitants of your town or village that you are interested in matters that make for the common weal, and interest in your own organization and its operations is bound to follow.

Sweet Pea Sports.

Editor Florists' Exchange:

Replying to Ant. C. Zvolanek, he admits that I purchased no seed from him prior to the Summer of 1906, therefore that part of the controversy is closed.

As to sweet peas sporting, my view is unchanged. In your last week's issue Messrs. Weston and Dicks set forth facts on the subject that cannot fail to convince the most skeptical.

Ronks, Pa.

CHARLES M. WEAVER.

OUR READERS' VIEWS

Winter-Flowering Sweet Peas.

Editor Florists' Exchange:

I have been very much interested in the articles on Winter-flowering sweet peas which have been appearing in your paper. I am a grower of this class of sweet peas, but not an originator. My experience dates back from the time they were first disseminated. To give the reader an idea of my observations with this class of sweet peas, the area devoted to their cultivation here should be kept in mind. We have grown for the last four years one-half acre under glass, from which are picked a daily average of 10,000 blooms through the Winter months. Two years preceding this, one house, 30x200 feet, was devoted to their culture. I have bought seed from the most reliable sources I could find. We do not save our own seed, as the blooms are worth more than if they were allowed to mature seed.

Now, if sports are of such common occurrence as some of our friends would try to make us believe, how is it that I have as yet never seen one sport here? From seed bought of Earliest of All, Mont Blanc and others, I have had plants of other varieties, but none of these are sports, as each variety was a distinct plant. One might just as well say that a batch of carnation seed will come true to the parent plant; how many do this?

My belief in regard to these stray plants is, that they are crosses which had taken place when their parents were in bloom, either by hand or by some insect. This can be clearly understood, as a great many of this class of sweet peas have their pistils and pollen fully exposed, and I have often seen bumble bees manage to get into the pollen.

Now let us see what is a sweet pea sport. I would say a sport was a growth on the parent plant bearing a different colored flower. But the parent plant must also be there bearing its flowers, otherwise how are we to know it is a sport?

Let us consider what Mr. Englemann says. He states: "The Winter-flowering sweet peas, mine as well as the American, are all sports of the ordinary kind," and goes on to mention that the white sport of Emily Henderson (by which I suppose he means Mont Blanc) and the early pink one, sport of Blanche Ferry, are sports of these varieties; also that Sunbeams is a color sport of Mont Blanc. Now in sports one usually sees some characteristic of the plants from which they sported; but in these we find none. Mont Blanc does not take after Emily Henderson, not even in color, growth or foliage. The same may be said of Earliest of All; there is not the slightest characteristic of Earliest of All in Blanche Ferry. The same remark applies to Sunbeams and Mont Blanc; not in one particular do these two look alike.

Mr. Englemann says Captain of the Blues sported with him four years ago, but he does not state what the parent plant was, so I take it for granted that his sport, so-called, was a chance seedling among some other variety. It is a common thing to see Captain of the Blues among sweet peas of other colors. He also mentions Dorothy Eckford, Lady Grisel Hamilton, and Miss Willmott as sporting with him from the late flowering to the early flowering class. Now if Mr. Englemann will produce the growers who saw these sports and examined them, and who are positive that these early flowering shoots were blooming on a late flowering plant, and the parent plant came into flower after the early flowering part had gone past, and that from the seeds saved from this sport came the early flowering kind, then will I believe he has sports. I would advise Mr. Englemann not to blow his trumpet too loud until we have seen and judged.

We here all know what Zvolanek's varieties are, and that there is still room for improvement. I have been a close observer of Mr. Zvolanek's methods for years, and I must say I never saw a sport at his establishment. I have seen whole beds of hybrids in all stages, and I might say I have seen the whole process from crossing to flowering. Now, if Mr. Englemann's varieties are so much superior to the American, why do we not hear more about them? If I think them better than what we have here, I want to buy some of them.

Zvolanek's are well enough known here not to need any mention, but to those who do not know them I would say, he has in the early flowering type practically all the colors seen in the common varieties. The only colors he does not have, to my knowledge, are those mentioned by Mr. Weston, which, I imagine, are next to impossible to secure in sweet peas.

Now we have Mr. Weaver, who has sports growing on his place without any effort to produce them. Would Mr. Weaver be kind enough to tell us what he would have, if he made an effort to secure new sorts? Mr. Weaver will have to explain things a little better before we believe he has sports. He says he saw three vines among his Earliest of All which bore flowers white, flesh-colored and scarlet. There is nothing unusual in this; in fact, it is an ordinary occurrence. Now, Mr. Weaver, if these colors are growing on the roots of Earliest of All I will believe you have sports. I notice

that Mr. Zvolanek examined these plants. What do you say, Mr. Zvolanek? Were these sports or independent plants? It is quite possible Mr. Weaver's seed was mixed when it was bought from Dreer, as they could not tell whether it was or not, even if they grew these seeds and kept close watch on them.

We find Mr. Weston taking Mr. Zvolanek to task for not yet seeing sports among sweet peas, and he goes on to mention a list of sports and breaks among the ordinary kinds. Why does not Mr. Weston mention sports and breaks among the early flowering kinds? It is these that are under discussion.

Now we have the much-talked-of Algerian strain, which turns out, by the way, to have been imported originally from America. And the man who received the seed receives a gold medal for being the originator of this class of sweet peas in Algeria! As I understand it, all these American, English and Algerian sweet peas are to be grown and tested in England to see which is the best. Would it not be well to have the same test made here? I will be willing to give the space and bear the expense of growing. Then the test will not be one-sided; and I think I can grow any of them as well as it is possible to grow them. A committee from our Florists' Club or the Massachusetts Horticultural Society could decide which were the best.

As to the vetch theory, I must say that I have never seen anything in this class of sweet peas that would indicate that there was vetch blood in them. I believe the first early flowering sweet peas were crosses which came about more by chance than good management, and after they were once observed the matter of increasing the varieties became simple.

WILLIAM SIM.

Cliftondale, Mass.



Frederick E. Shaw.

Frederick E. Shaw, florist, Utica, N. Y., died at his home there on April 28, 1907, after an illness which covered a period of about two years. Mr. Shaw was born in North Bay, on September 16, 1851. His early years were spent in Minnesota, where his parents moved when he was a child. When he was 18 years old Mr. Shaw went to LeMars, Minn., where he entered the hanking business, and for about fifteen years he was the vice-president of the First National Bank in that place. He was the cashier of a bank at Ravenna, Neb., for eight years, and in 1895 he took up his residence in Utica and engaged in the florist business. He bought the Davies greenhouse on Sunset avenue and gave it earnest and careful attention. Two years ago he was forced to give up active labor because of poor health.

Mr. Shaw was a member of Westminster Church. He was a man who won the respect and the goodwill of all who came in contact with him, either professionally or socially. He leaves a widow and two children.

John L. Bingham.

John L. Bingham, florist, of Oyster Bay, L. I., died at his home on Tuesday night, May 1, 1907, of typhoid pneumonia, at the age of 33 years. Mr. Bingham was a popular and enterprising man and was identified with many fraternal organizations; he also took an active part in town affairs. He was clerk to the Board of Education, and was elected on the Republican ticket at the last town election to be assessor. He was a member of the Nassau County Horticultural Society, and took part in many spirited debates there. He was also a Past Regent of Arbiters Council Royal Arcanum. Mr. Bingham was also a member of Martinecock Lodge, F. and A. M., and served as Junior Warden and Senior Warden. He also belonged to Melchizedek Chapter, Royal Arch Masons, and served as Master of the Third Veil. His funeral was largely attended by delegations from all the organizations, as well as many friends. Interment was in Memorial Cemetery with Masonic services. His demise is deeply mourned by all, and their sympathy goes out to his widow and four small children.

W. F. Stone.

W. F. Stone, proprietor of the Locust Grove greenhouses, Boise, Idaho, died April 28, 1907, of heart failure. He had been ill for some time, not serious enough to keep him in bed, but enough to make his family and friends apprehensive for his condition.

Mr. Stone was about 60 years of age. He went to Boise about 16 years ago. He leaves a widow, one son, R. V. Stone, and a daughter.

Mrs. Mary A. Irwin.

Mrs. Mary A. Irwin, mother of Mrs. Albert M. Herr, wife of the general secretary of the American Carnation Society, Lancaster, Pa., died on Sunday, May 5, 1907, in her 64th year. The funeral was held on Wednesday, May 8, at the Upper Octoraro Church.

The Equipment and Organization of a Modern Horticultural Establishment.

Read by J. Otto Thilow of Henry A. Dreer, Inc., before the Philadelphia Florists' Club, Tuesday, May 7, 1907.

In By-Gone Days.

The consideration of this subject lends more interest when we compare the aggressive modern establishments of the present time with those of thirty or more years ago. Then, in the absence of the enticing catalogue and the undreamed of trade papers, the grower's chief aim was to have a full supply of salable plants in bloom at the opening of the Spring season. The stock consisted of all the then known varieties of every species of bedding, basket and ornamental plant. The florist's market was any point that he could reach. The best which showed the greatest amount of endurance was hitched to the market wagon, the assistant or son, daughter, or even the wife was assigned to the task of visiting the neighboring towns with a load of plants in bloom.

This method ended with the Spring months, and the left-over stock was either advertised at bargain prices in the local papers, or thrown away as surplus.

The growers who were adjacent to cities were represented in the markets, occupying one or more stalls with the most attractive stock. At the close of the season the general routine of work was followed, that of planting out and caring for the stock plants and blooming stock for the following Winter months. The equipment of these establishments was varied, as a greater variety of plants could be found in the collections of the florists of those days than now.

The organization was modest, yet complete, as the florist and his family constituted the faculty, with extra help if needed. The duty of each was to understand the general routine of work from the office to the stock-hole, the system requiring every one to work for the one aim, that every available corner be filled with attractive stock and in bloom for the Spring season.

Value of Woman's Assistance.

The florist of the early and even the present day, has always found the wife an important factor in the organization; her judgment and ever untiring interest are indispensable; she has been the helpmeet and always will be as long as her interest in horticulture continues; woman's influence contributes almost altogether to the remarkable demand of the present day. Due credit is not given her for what she has accomplished; she is today prominent back of the counter in the florist's shop, and deeply interested in the work of the greenhouse establishment.

Woman was the first to give us a treatise in horticulture in this country; this honor fell upon Mrs. Logan, a florist of Charleston, S. C. This she did at the age of seventy years, in the year 1772.

A Comparison.

In referring to the horticultural establishments of the early days, I would not pretend to say that they were not active and lucrative for the growers. Many of the veteran florists were known to you, some of them living to-day who enjoyed their years of toil with good prices for their product. There are establishments existing to-day with modern methods, which pursued the routine above mentioned, but keeping pace with the changes demanded by the advance in commercial horticulture, they have branched out as specialists, and are classed and known as such in the trade.

It has been noticeable that certain stocks were best suited to certain localities, and to these the growers concentrated their efforts to the greatest improvement of such stock. This method has met with general success, inducing constant extension and enlargement of facilities, demanding modern construction, heating, ventilating, simple and economical methods of handling and shipping.

This condition seems to have asserted itself within the last twenty years, and has advanced the interest and the growth of the business in general, in that the growers depend on each other for special stocks, hence the florist of the present time is retail in general stock, and wholesale in special stock.

Their dealings have become reciprocal, the trade papers have entered upon the field, and all seem to be doing a thriving business, and through this medium the enterprising florists know more of each other and the skill of those in special lines.

An Example of Modern Progress.

From my own limited observations, I can say but little of other large and aggressive horticultural establishments except the one with which I have been connected for the past quarter century. Having observed the advancement and growth of this establishment, which is keeping pace with the increasing demand, largely through their own catalogue and the influence of horticultural magazines and rural home publications which are creating an intense taste among the plant and flower-loving people of our country. And what is true of the department offering the subject for this paper, is true of other aggressive establishments of this country; that

organization must be commensurate with modern equipment, so with your suffrage I beg to point with pardonable pride to the plant department of Henry A. Dreer, Inc., at Riverton, N. J., under the able management of J. D. Eisele, the vice-president of the company. I therefore make bold the assertion, that with the advance and increase in each branch of this department, may we not modestly assume it to be among the modern establishments in equipment and organization?

Stocks in Demand.

The trend in recent years has been very decided in the attention given to perennials. Many works have been published treating entirely on the old-fashioned or hardy garden. The amateurs seem to enter into this line with new zeal year after year, so that this department has grown to the enormous extent of 2,000 varieties, requiring forty acres to perpetuate the stock.

The interest in aquatics is a development of the past twelve years, and has extended from this country to Europe. Fully six acres are now devoted to this branch and many of the best introductions of recent years are of American origin.

Twenty years ago it was considered a bold plunge to devote one house, 12x100 feet, to ferns. Since 1898 over one acre is given to these, and fully a quarter million are in readiness for immediate market, and one and a half million are handled every season.



SCHIZANTHUS WISETONENSIS

For culture of Schizanthus, see page 619 issue of May 4.

Photo by John F. Johnston

Palms form the leading decorative plant. From the owner of the conservatory to the occupant of a flat embellished by a fire escape, the palm has a place, and is essential in the collection of plants for home adornment. These alone occupy four acres of glass. Seeds of the important varieties are imported from their native haunts, the most prominent being the kentia. These are sown in hatches of from 75 to 100 bushels at one time. Other varieties are used in proportion. The palm industry with that of the fern, is practically a development of the past twenty years.

The dahlia was somewhat obsolete for a number of years; has been resurrected, and many new varieties and new types have been introduced. Ten years ago less than six thousand constituted the stock, 75,000 in 1904, and now the enormous number of 300,000 is necessary to meet the demand, requiring 50 acres for maintaining the stock.

The demand for the ever popular azalea is still on the increase, ranging from 150 plants imported in 1876 to the present requirement of 60,000.

Roses for outdoor planting are among the very important of Spring stock, and have made the most marked increase—from 6,000 eight years ago, to 200,000, the present requirement.

Enumerating the above is only to show the advancement made in commercial horticulture along the line of specialties; much other of the varied stock is grown in proportion to the demand.

The Necessary Equipment.

To harbor and maintain an equipment of such magnitude, extensive glass and open area is necessary, besides many accessories with which to carry it through from season to season, viz: a glass area of from seven to eight acres of modern construction in greater part. Boiler capacity of 850 horse power which consumes 3,000 tons of coal per annum. Water capacity for all used, 300,000 gallons per day. A fumigating house of special construction as required by the State laws, for hydrocyanic acid gas, for safeguarding against even an incipient presence of scale. A complete machine shop, operated by steam power, for repairing and constructing, and supplied with saw table for cutting lumber to required sizes for cases and crates for shipment, also a carpenter shop in constant operation. A cold storage area for storing stock for Winter and early Spring shipment to Southern points. Experimental grounds for the thorough testing of new varieties of plants of foreign and home production. A supply department which is under control of one who knows the value of preventing waste. All supplies, from office stationery, tools for machine shop, and every utensil needed in under glass and open ground, to the most minute item, is guarded with vigilant exactness, replenished before exhausted, and distributed only as needed and upon orders, the working force of this establishment being 150 men, among whom are twenty order clerks, and thirty-five packers.

A horticultural establishment thus equipped requires systematic organization to cope with the ever increasing demand of the eager plant-loving public, and as the pressure and bulk of the business is confined to the short period of Spring operations, the strain is severe upon those on whom the responsibility falls. The force must be divided and assigned to the various branches, the heads of each force to assume the responsibility for the accomplishment of such work to which he is delegated.

The staff must be headed by a manager, vigilant and capable, assisted by an office force of skilled horticulturists who take up the details and carry them to completion, answering all inquiries of the departments to which they belong. He must be able to answer inquiries on all subjects in horticulture, and give information leading to same; advise the inexperienced regarding plants. He must be a fund of information, one on whom the enthusiastic amateur can and does draw freely. He must be in constant touch with his trustworthy and capable heads of each department, who with him formulate plans for the seasons ahead, anticipating the demands which catalogue and other advertising mediums might inspire.

The propagator, a dependable personage, must be capable, one with good judgment in regulating the stock quantities by general conditions and species. Only by close application and years of practice and study, does he become familiar with the wide range of plant conditions and the care of same, observing through all his work, that careful labeling is imperative. He is to propagate in such quantities as the manager may direct.

The packing department is an important one. While the order clerks may do their work carefully and to all appearances completely, yet the packer must again check up before he finally packs for shipping. He must use judgment as to the duration of transit and pack accordingly, to guard against weather conditions at destination and in transit, to pack consistently light to save heavy transportation charges. After he is through he passes the case or cases over to the shipping department, after making a record, marking date and time of his release of said packages.

The shipping department must be under the supervision of one who knows how, when, and where to ship, first by the most expeditious and cheapest route; second, at a time when safe against severe weather; third, to a point most accessible to the consignee. He is to be provided with the latest shipping guides, and be in close touch with carrying companies so as to keep himself informed of the most expeditious routes. Thus it requires one of keen scrutiny regarding shipping rules and conditions, so that the perishable stock he delivers is promptly and safely transported to destination, marked carefully and attach certificate of inspection of State Entomologist.

The modern horticultural establishment should have a corps of travelers, who have a knowledge of the stock besides their catalogue information; they must anticipate the wants of their patrons, knowing the special line of each one. They should be practical plantmen, and in all their transactions advance the integrity of their house.

The Mission of the Catalogue.

The catalogue of the modern horticultural establishment is now an indispensable medium, finding its way into the remote corners of the globe. It is the feature on which the mail trade depends as well as that of the customers who are within reach. This medium must be new every year and full of information in order to appeal to the prospective buyer.

Since the half-toning process from photography gives such real reproductions, the plant catalogue like the magazine, becomes a household pleasure and must be in

the hands of the patrons early enough to be consulted before the close of Winter when open air work is being eagerly anticipated.

The work of compiling this volume must be in the hands of one who has practical experience in all departments, as information given through a reliable catalogue is taken as authentic. It has become as much of an educator as the horticultural magazines, and must therefore be resplendent with new matter and illustrations. As photography enters largely into its compilation, a fully equipped department must be provided to observe every opportunity through the seasons for the reproduction of new features.

The one having all catalogue matter in charge should also provide the advertising matter fresh and varied for the trade papers and other mediums.

The Cut Flower Trade.

I have touched only superficially on the subject of equipment and organization, and have only cited that of the plant-producing industry. A large, if not the greater part, of those engaged in commercial horticulture are interested in cut-flower growing.

Near the busy marts of this country and of Europe are to be found extensive glass structures which find ready market for their immense product. These, too, are almost entirely given up to specialties, such as are best suited to soil, climate and conditions of their locality, and to these all forces are concentrated. I have visited some of these establishments in the East, and note from the excellent system adopted, and the success achieved, that it is entirely through proper organization and up-to-date equipment. The structures are modern in every detail. The force is divided into sections and to each of these is allotted the care of a block; the cutting, packing and shipping is in care of experts, who through long experience have learned to confine their efforts to types and varieties susceptible to the greatest improvement under intense cultivation. It is true, also, that the quality of the produce from improved varieties has greatly increased the demand and engendered a wider taste.

Proper organization is essential to the economical and successful operation of a modern horticultural establishment, more especially to see that it does not and should not increase the detail of labor of the management, but be divided among the various heads of departments in whom confidence should be reposed.

A Decade in Business.

The West Grove (Pa.) Independent, of April 25, 1907, contains a brief sketch of the firm of Conard & Jones Company, showing the success the concern has achieved during the ten years of its existence. Accompanying the sketch are portraits of these officers of the company: Robert Pyle, president; Antoine Wintzer, vice-president and propagator; and S. Morris Jones, treasurer.

Of Mr. Wintzer's work it is humorously said: "He has no peer; give him the handle of a broken garden rake and the root of a skunk cabbage and he will evolve a dainty, graceful bloom that will ornament a bridal dinner at the Bellevue-Stratford." But the real worth of this successful painstaking propagator's labors is shown by the statement that he has originated no fewer than sixty fixed and standard varieties of cannas, and a large number of new roses.

Regarding the personnel of the working staff, it is stated that Mr. Wintzer's chief helper is his eldest son, Louis, trained from boyhood in his father's footsteps. Others long skilled in the service are John Drennan, Simon Groff, Milo Weitzel, Chas. F. Brown, Donald McKay, John Brown, Wm. Floyd, Frank Harrison, Albert Brown and many more. Among his assistants this year Mr. Wintzer numbers a young Englishman, F. J. March, of the Royal Agricultural Gardens, near London. Mr. March is making a special study of canna growing, with a view of perfecting the cultivation of this splendid decorative plant across the sea. In this line of work Donald McKay, long a C. & J. expert, excels. In the great lower packing house, Roland T. Satherwaite, secretary, is Chief of Packing Department, having entire control of this important duty.

The general offices of the company are apart from the plant proper, being a large roomy building near the private grounds of the late Alfred F. Conard. No less than thirty-six clerks and stenographers are required during the busy season. Here are the private offices of President Pyle and Treasurer Jones, each with his stenographer. Miss Jessie C. Gray is superintendent over all, with S. J. Todd in charge of "marking-up" orders, Miss Mary Coletraine that of recording, while Miss Julia Drennan has charge of the seed department. John Barclay Jones assumes charge of the cashier's department, with Miss Sara Storey as assistant.

A complete telephone system with private exchange connects all departments. Upstairs is the mailing department, where more than a third million pieces of advertising is handled annually. A landscape department is attached, and this with the advertising is in charge of the president. The wholesale business centers largely with the treasurer.

"Back of the phenomenal success of this firm now ending its first ten years' term of business, is the spirit of co-operation. Annually is divided among the employees of good standing a share of the profits, insuring loyalty and intelligent service. Nor does this spirit end here, for the firm not only offers its resources but invites the co-operation of West Grove and adjoining residents toward an intelligent plan of beautifying local surroundings. Nothing is too small but to command instant attention and helpful support."

The business of the Conard & Jones Company extends from Augusta, Me., to Timbuctoo, Africa.

The Bracken as a Food.

On several occasions we have discussed the common bracken (*Pteris aquilina*) as an article of human food, both in this country and as used by the Japanese, says The Gardening World, London, England. Some of our friends give the ferns a very bad name during the process of cooking, but possibly they did not adopt the proper plan with this particular vegetable.

An article on the subject under the aegis of some one in connection with the State University, Seattle, Washington, appears in the American Botanist for March. Here the bracken is very highly commended as a nutritious article of human diet. The principal points to observe would seem to be to select the tender stems of the bracken from the time they appear above the soil until the frond commences to unroll. Even then only the tender top portions are selected before the tissues become hardened and tough. Practically this applies to asparagus and the two would appear to have very much in common when cooked.

Certain people complain of a bitterness in taste of these young stems, but the Americans have discovered that the bitterness is confined to the hairs covering the young stem and frond. The frond itself would take too much trouble in preparation and is therefore rejected. After suitable lengths of the young stem have been selected a hard brush is obtained and with that the hairs on the stems are brushed off.

To have a dish of ferns with white sauce the stems are cut into pieces one inch long and boiled for forty minutes. The water is poured off and a white sauce prepared, and after seasoning with butter, pepper and salt, the ferns are served warm. Fern greens are dealt with in the same way and cooked for forty or fifty minutes. The first water is poured off and boiling water is added, and the cooking continued for ten minutes. These greens are then eaten after seasoning to taste. Fern salad has two eggs added, a piece of butter about half the size of an egg, a teaspoonful of mustard, some pepper and salt, and a teaspoonful of vinegar. These are cooked over a fire like a soft custard. To get ferns on toast, the stems are cut up into pieces of equal length, boiled with a fair quantity of salt, and when the ferns are eaten some pieces of bread are cut up, toasted, and then dipped into the liquid in which the ferns are boiled. The latter are placed on the toast and covered with a white sauce or melted butter. They are also eaten with eggs, for which a recipe is given.

It is declared that the fern stems are softer than asparagus, less woody, and that the flavor suggests almond to many tastes. In food value it is closely similar to

cabbage, and in several respects superior to radishes, asparagus, tomatoes, lettuce, celery and cucumbers. We may state that the bracken is a native of Western Oregon, Washington and British Columbia. Under the shade of trees it varies from 3 to 8 feet in height, or even to 14 feet in hollows where the soil is rich and moist. It is claimed that the bracken reaches its highest development in that part of the world.

CLUB AND SOCIETY DOINGS.

NEW JERSEY FLORICULTURAL SOCIETY.—

The usual brilliant orchid display was this month varied by a collection of calceolarias from the Colgate Estate, grown by William Reid, and the exhibit as a collection was varied by the introduction of various specimen plants producing breaks in the continuity of it on May 3 in the society's rooms. The Julius Roehrs Company sent from their orchid collection, *Cattleya Mossiae*, *Laelio-Cattleyas* Martinelli and white Mendelii, and *L. purpurata*. Joseph A. Manda had *Cyprripedium Morganiae*, a hybrid of *C. Stonei* × *C. Veitchii*, and *Cattleya* William Murray, a hybrid of *C. Lawrenceana* × *C. Mendelii*. George C. Graves exhibited *Cyprripedium callosum* Sandersae, *Vanda tricolor* and *Miltonia vexillaria*. John Crosby Brown (Peter Duff, gardener), showed a specimen *davallia*; Chas. Hathaway (Max Schneider, gardener), carnations *Enchantress* and *Victory*, and *antirrhinum*. The Colgate Estate, besides the calceolarias, had a specimen *Medinilla magnifica*, which was awarded 97 points; Stewart Dickson (Albert Lerson, gardener), specimen *fuchsia*. An interesting collection of pansy blooms in plates from John White, Elizabeth, N. J., from his own selected strains, was shown. The judges for the evening were John White, Jr., Arthur Caparn and Joseph A. Manda.

The paper of the evening, upon "Landscape Gardening," by John White, Jr., was both historical and descriptive. The speaker defined both European and American methods and was happy in his suggestiveness of various artistic combinations.

The business portion consisted of letters read from Chas. Munn in recognition of resolutions of condolence passed at the last meeting, and from the Georgia State Horticultural Society, American Civic Association and Centennial Association of the Oranges, asking for the active co-operation of this society; reports of the progress of the guarantee fund for the Fall show and the setting of the date for this—November 6 and 7, and of the rose night for June 7. J. B. D.

TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY.—The monthly meeting of the society was held April 30, President Howard Nichols in the chair. Four magnificent specimen calceolarias in 6-inch pots were exhibited by Mr. Atkinson, gardener to Henry Seigel, Esq., Mamaroneck, N. Y., who was awarded a cultural certificate. Mr. Atkinson also received a similar award for two plants of *pelargonium*s. Robert Allen, gardener to E. C. Benedict, Esq., Greenwich, Conn., was awarded a cultural certificate for a cluster of tomato *Princess of Wales*, there being 23 good-sized fruits on the cluster. The monthly prize for two foliage plants was awarded to D. McFarlane for *dracena* Lord Wolsley, and *croton* Lady Zelland.

Henry Seigel offers a silver cup for the best table of ferns and flowering plants at the Fall show. The society voted to donate \$25 towards the fund for the proposed new hospital, and to make a charge of twenty-five cents admission to the June show, the proceeds to be turned over to the hospital fund; also to lay out and decorate the grounds around the new hospital exclusive of the rough grading. D. M.

Syringa Marie Le Graye, Pot-Grown.

For forcing purposes the pretty white lilac, Marie Le Graye, is a general favorite with florists. It is a good one to flower and a good one to force. Many lilacs are shy bloomers, disappointing when forced; not so this one.

But all lilacs bloom better when pot-grown than when in the garden, the checking of the roots which pots give being conducive to flowering. For this reason it is the best plan to grow lilacs in pots a season in advance of their being used for forcing. The accompanying illustration shows a plant that has been in its pot some time. It has been cut back, to cause shoots to form from near the pot. This cutting back insures good shoots; and the dwarfing of the roots by potting secures flower buds, which is not the case to the same extent when the plant is growing freely in the open ground.

The beauty and fragrance of the lilac insures the sale of the plants any time, if before those in the open air are in bloom.

The photograph is of a plant in the collection of Mrs. Albert Wolfemate, Germantown, Pa. JOSEPH MERRIAN.



Syringa Marie LeGraye as a Pot Plant

Commercial Decorative Plants.

Palms.

Palms and ferns are still the leaders, and among the former the lack of variety is still marked, the same old species being presented year after year, though put up in slightly different styles by different growers, and on the whole of better average quality than they were ten years ago.

Kentias are still the leaders, and almost any of the others might be classed as a bad second, to quote the language of the track; and while the kentias undoubtedly merit the high position they have reached in the plant world, it may be just within the limits of possibility that some day there may be a slight reaction, such as is said to have touched the popularity of the American Beauty rose in some of the prominent markets of the country. But thus far the kentias do not seem to have reached their limit, and the fact remains

future, several of the pterises and nephrodiums being especially adapted for such culture.

Small ferns for table ferneries were used in great quantities the past season, but it must be somewhat of a trial to the retailer to have to use such poor and half developed stock as is frequently offered during the latter part of the Winter, for such plants do not last nearly so well in the fernery as those with well-matured foliage, besides requiring a double number of plants to make a show when filling a pan.

Very late potting is the cause of some of this poor stock, the ferns naturally starting away much more slowly when repotted after the end of October, even though they may have been treated to a high temperature in the hope of preparing them for the holiday trade.

Other Stock.

Pandanus seem to have been either in less demand or in much greater supply during the past Winter, or

DIRECTORY OF RELIABLE
RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 22 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dayton, O.

W. G. MATTHEWS, FLORIST, 16 West Third Street. Flowers in any arrangement for all occasions for Dayton and vicinity. Personal attention given to all orders. Long distance telephones.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Louisville, Ky.

JACOB SCHULZ, 644 4th Avenue. Personal attention given to out-of-town orders for Louisville and surrounding territory. Have a choice line of seasonable flowers always in stock; delivery facilities perfect.

Indianapolis, Ind.

BERTERMANN BROS. CO. Our facilities for executing orders in an efficient manner are unexcelled. Our shipping territory includes the surrounding states. High grade flowers; expert workmanship.

gata, used to be grown to some extent for putting in fern pans, but of late years is seldom seen. This neat little plant might prove quite useful to some of those in search of a variety of stock for the retail trade. It keeps in good condition in a comparatively low temperature, say 45 to 50 degrees, propagation being effected by division of the creeping stems in the Spring.

W. H. TAPLIN.

Welch Brothers' New Store.

The illustration herewith presented shows the interior of the wholesale market of Welch Brothers, Boston, Mass., as it appears any ordinary morning when everything is activity and large quantities of cut flowers of all kinds are handled. This, the main floor, gives ample room for the unpacking and repacking of stock for the immense shipping trade which this firm has worked up through all parts of New England and the provinces. The products of over a hundred growers are here handled and the equipment of the entire establishment is up-to-date in every particular, having a complete cold storage plant and ample space for the loading and unloading of express wagons.

J. W. D.



Interior View of Store of Welch Brothers, Boston, Mass.

it may be conservatively stated that there is some little stiffening in the palm market, and that a few points higher still would not bring them up to exorbitant figures, when the increased cost of production is taken into consideration.

The fashion of making up these plants in groups, or clumps, or as our European competitors term them, "tufts," has added to the cost of the plants to the grower, while the increased demand has given the seed dealer an opportunity to give the seed market an upward turn, besides giving rise to rumors of a possible corner in this valuable commodity again this season. But the projected corner in kentia seeds did not materialize last year, and possibly the Harrimans and Gateses of the seed trade may let up on the innocent growers once more.

Ferns.

Among the ferns, those of the Nephrolepis group still occupy the most space, but during the past season were found in over-abundance in some localities, and consequently brought lower prices than heretofore; and there is some indication that various growers will curtail their output in some degree, there being a limit beyond which Boston ferns and the various relatives of that useful plant are comparatively unprofitable. These ferns occupy much space when grown properly, and \$25 to \$30 per hundred is not much of a return for plants in 6-inch pots, and there were many sold at about that price last season.

Some nicely grown plants of Pteris tremula in 5-inch and 6-inch pots were offered in moderate quantity last Winter, and were well received by the retailers, the plants in question having been evidently grown in a light house and well fed, the result being a compact well furnished plant of a good, healthy color. This is a plant of rapid growth, and would doubtless meet with some demand where a moderate priced fern was required. Large quantities of 4-inch and 5-inch ferns are used in the English markets, these being a part of the regular stock there, and there are indications that more of these sizes will be sold in our markets in the

possibly both. These causes may have contributed to the fact that these plants moved less freely than in former years. But well grown P. Veitchii usually find an opening, for many are used outdoors in the Summer, being placed in window boxes, in vases, and also in some cases having been used as a very effective edging to a croton bed.

Pandanus utilis was grown by the houseful only a few years ago, but now one would have to hunt around in many places to find a hundred good plants in 8-inch pots, if such were needed. The "spot," and also a lack of demand, are among the causes for the decadence of this fine plant, though seeds are still freely offered by the dealers.

And as to the Golden Pandanus, so-called, P. Sanderii, of which much was heard at one time—but what is the use of arousing painful memories? Suffice it to say that the demand does not near equal the supply, and the latter is not very large.

Ficus pandurata has made many friends on account of its easy culture and strong constitution, there being few foliage plants that are more enduring when exposed to dust and draughts than this fig, and it seems probable that a good market will be found for this plant during the coming season also, though at lower prices, strong 6-inch plants at \$3 each at wholesale, being too gilt-edged for a small dealer to handle.

Some plants of Aralia Veitchii and Phyllanthus nivosus have been used in basket work from time to time with very good results, both these plants adding to the variety in form and coloring that is required in this class of work; but the aralia is too slow in propagation to become a very common part of the stock used for this purpose.

Both these plants get along best in a warm greenhouse, but the phyllanthus is much easier to propagate than the aralia, the latter being usually grafted upon one of the easy rooting species of its own genus, A. reticulata being a satisfactory stock for this purpose.

The Japanese sweet flag, Acorus japonica varie-

May 11, 1907.

New York.

The Week's News.

The next regular meeting of the New York Florists' Club will take place on Monday evening, May 13, when S. S. Skidelsky, Philadelphian, will present an essay treating upon the subject of the proposed national flower show, to be held in Chicago, under the auspices of the S. A. F. O. U., in November, 1908. Owing to some unforeseen circumstances, the New York Florists' Club is at present without a home, as the room in the Grand Opera House building has had to be vacated. Secretary John Young advises us that this meeting will take place in the Hotel Earlington, 55 West Twenty-seventh street, between Sixth avenue and Broadway, at 7.30 p. m. This is a very well located place for the meeting, and there should be a good attendance, as the paper by Mr. Skidelsky will, no doubt, be of great interest to all.

John Myers, who for forty-one years has conducted a florist establishment at 606 Amsterdam avenue, has to vacate these premises as the property is being cut up for building lots. Mr. Myers rented this piece of land from John Jacob Astor forty-one years ago, and has never had a lease on the property. When asking Mr. Astor for a lease that gentleman replied, "There may be changes; the city is likely to grow; suppose you pay me month by month," and for all these years Mr. Myers has been conducting his business with the possibility of a thirty-day notice to vacate hanging over him. The present value of the property is \$1,000,000, but the rent to Mr. Myers has remained the same as it was the first year he took it until the present time—\$500 per year.

Traendly & Schenck, wholesale florists, 44 West Twenty-eighth street, have made a valuable addition to their store room by putting up a substantial structure in their back yard, which connects with their store proper.

Wm. S. Parse, who for three years had charge of the Adiantum Farleyense growing for H. H. Battles, Philadelphia, Pa., has purchased from Wm. S. Dean the latter's interest in the firm of Dean & Parse, florists, Summit, N. J. The transaction occurred on May 1, and hereafter the name of the firm will be Parse Brothers.

Charles E. Robinson, who for fifteen years has been in the employ of F. R. Pierson Company, in their store at Tarrytown, N. Y., has joined partnership with H. W. Requa, and opened a retail florist store at 808 South street, Peekskill, N. Y.

George Garrecht has gone into the growing business for himself at Morris avenue, Summit, N. J. He has 600 running feet of greenhouse space and will devote it to roses and carnations.

Among the Spring lectures to be delivered in the museum building of the New York Botanical Garden at Bronx Park on Saturday afternoons at four o'clock are the following: May 11, "Jamaica, its Flora, Scenery and Recent Disaster," by Dr. M. A. Howe; May 18, "Water Lilies and other Aquatic Plants; their Relation to Horticulture," by G. V. Nash, and others. The lectures will be illustrated by lantern slides and otherwise.

On April 30 the firm of Wm. H. Brewer's Sons, retail florists at 428 Fifth avenue, was dissolved by mutual consent, L. D. Brewer retiring. In future the firm name of this old established retail store will be Wm. Brewer Son, and the business will be continued at the same address.

Last Saturday, May 4, at the stockholders' meeting of the New York Cut Flower Exchange, several new directors were elected, among them A. S. Burns of Woodside, L. I., and George Matthews of Great Neck, L. I. It was ordered that the market should be opened at 6 a. m. commencing with Sunday, May 5, instead of 5 a. m., as has been the rule during the winter.

Perkins & Schumann, wholesale florists, have moved from the ground floor of the Coogan building to more roomy quarters on the first floor of that building.

Sneak thieves got into the office of Hicks & Crawbuck, florist supply dealers, 76 Court street, Brooklyn, a few days ago, and cleaned out what loose change there was in the safe.

One day this week James McManus, wholesale florist at 42 West Twenty-eighth street, supplied 1,200 cattleyas to one retailer for funeral purposes.

The first peonies of the season ar-

rived in town Monday morning, and were seen at J. K. Allen's, wholesale florist, 106 West Twenty-eighth street.

Some of the West Hoboken florists who had their greenhouse glass broken and damaged by the dynamite explosion which occurred in connection with some of the tunnel operations in that neighborhood a short time ago, have made satisfactory settlements with the contractor who had the dynamite in storage and who is supposed to be responsible for the explosion. There are some of the florists, however, who are determined that they will make a settlement only on one condition, and that is, that they receive full value for every piece of glass broken by the explosion, consequently, it is just possible that the power of the law will be brought in to help collect from the contractor for some of the damages that occurred.

The many friends in the trade of the venerable Samuel Henshaw will hear with deep regret that he is ill, and has been for two weeks or more in the Smith Infirmary, Staten Island. Mr. Henshaw has long ago passed the threescore and ten mark, and is one of the most widely known gardeners around New York. It is believed that he is suffering from some cancerous trouble of the stomach, but his age precludes the possibility of an operation.

A few bunches of Southern lilac have appeared this week, but it is believed that we shall not be favored with much lilac from the South this year on account of the late frosts that have been so prevalent. So far as New York is concerned at this particular time, we think that the Southern lilac can be very well spared.

W. R. Smith of the National Botanic Garden, Washington, D. C., was in town Saturday, May 4.

Representatives of several express companies have declared that their companies were not affected by the recent decision of the Inter-state Commerce Commission in the rate case raised by the Society of American Florists against the United States Express Company. The companies which say that they are not affected declare that, in the first place, they had little or none of the flower-handling business to do, and that, in the next place, they had not made any special rates. The companies, outside of the United States Express Company, did not seem to think that the question of the right of the Inter-state Commerce Commission to interfere between the express companies and their contracts with the railroad companies had been affected sufficiently to make an issue of this phase of the question in the decision.

The attorneys for the United States Express Company said that the decision could not be construed as having any great bearing on the rate question, as it had been rendered on a special rate which the company had thought it right to impose. The old rates were 50, 60 and 75 cents from near-by points. The United States Express Company tried to raise the price uniformly to \$1 per hundred pounds. The commission fixed this rate at 60, 72 and 90 cents. The decision, therefore, is really a compromise.

The attorneys for the United States Express Company have not decided whether or not they will appeal.

Philadelphia.

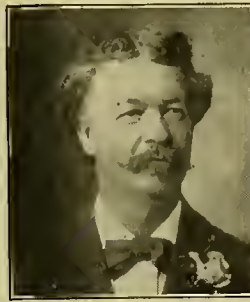
News Notes.

The retail stores have had a very good week; on Monday and Tuesday there was considerable high-priced funeral work made up, then Wednesday brought many wedding decorations. Pennock Brothers were very busy on Monday with funeral work.

The Whildin Pottery Company is having a very busy season; the demand for all sizes of pots has been very heavy for four weeks past. Increased facilities at the Wharton street pottery have been the means of filling all orders promptly.

George Bulderston, Colora, Md., died the past week. For many years he had been a grower of General Jacqueminot roses, which he shipped to this market every Spring and for the past two years was the only shipper of these roses here.

The wedding recently of Miss Nellie Gertrude, daughter of Robt. Crawford, Jr., to Mr. George W. A. Zahn, was a very unique affair. The Crawford store occupies two properties; the wedding ceremony was performed upstairs in the living apartments, and the large store was transformed into a reception room. Counters, show cases, ice chests, etc., were entirely hidden with plants and



GERANIUMS, from 4 in. pots. S. A. Nutt, double crimson, La Favorite, double white; Md. Thibaud, Gloriosa, double pink; John Doyle, double red. Have eight varieties of the newer sorts, such as E. H. Trego, beautiful variegated crimson, the model of perfection, double Telegraph, free bloomer, deep orange cerise, double. Mrs. E. Rawson, single, deep rose, free bloomer, immense large flowers. Berthe De Prestilly, semi-double flowers, of great strong habit, trusses silver rose. Countess d'Harcourt, best double white, large trusses; stands the sun well. Double Grant, immense large flowers. Jean de la Brete, rose carmine, shading to white, camella shaped, large trusses. Marquise de Castellane, beautiful, soft crimson trusses, as large as a hydrangea, semi-double. Above eight varieties, 4 in. pots, 15c. each; \$1.75 per doz.; \$12.00 per 100.

AGERATUM, dwarf, best blue variety, 4 in. pots, \$7.00 per 100; 2 1/2 in., \$4.00 per 100.

BEONIA VERNON, finest strain, flowers as dark as blood. Seeds of this beautiful variety picked by myself from specimen plants in Zurich, Switzerland, on my trip to Europe last Summer, 1906. 4 in. pots, \$10.00 per 100; 3 in. pots, \$7.00 per 100.

BEONIA ERFORDI, the true variety, seeds of my own gathering from specimen plants in Europe last year (1906). This is one of the finest pink varieties in cultivation; 4 in. pots, \$12.00 per 100; 3 in. pots, \$9.00 per 100.

SCARLET SAGE or SALVIA. This is the genuine Clara Bedman or Bonfire variety of medium tall habit. It is a sight to see them bloom. It looks as if the whole bush is on fire and decorates the finest residences in England, Germany, Paris and Switzerland. Seeds of this novelty Sage collected by myself from specimen plants grown on one of the beautiful landscapes in Switzerland. Have fully 5,000 plants in 4 in. pots to sell, now in bud and bloom, of this fine variety. Price, 4 in. pots, strong plants, \$10.00 per 100; 3 in. pots, \$7.00 per 100.

HELIOTROPES, 4 in. pots, \$7.00 per 100.

NASTURTIUMS, dwarf, all colors, \$7.00 per 100.

FUCHSIAS, mixed, good varieties, 6 to 5 1/2 in. pots, 15c. to 20c. each; 4 in. pots, \$1.20 per doz.

CANNAS, 10 good varieties, 4 in. pots, \$8.00 to \$10.00 per 100.

ANPELOPSIS VEITCHII, 4 in. pots stacked up, 15c. each.

HONEYBUCKLE, 5 in. pots staked up, 15c. each.

COBRA SCANDENS, 4 in. pots staked up, 8c. to 10c. each.

DAISIES, Queen Alexandra and Marguerite (white), 6 1/2 in. pots, 20c. to 25c. each.

DIELYRA SPECTABILIS or BLEEDING HEART, planted in the Fall into 4 in. pots, and plunged outside in cold frames during winter growing natural, now large plants, in bud and bloom, 25c. each.

PETUNIA, double, mixed, 4 in. pots, 10c. each, single California giant, ruffled or blotched, 3 in. pots, \$5.00 per 100. Inimitable or dwarf variegated, 2 1/2 in. pots, 4.00 per 100.

VERBENAS, all shades, 2 1/2 in. pots, \$4.00 per 100.

IN EVERYBODY'S MOUTH LIKE THE BEE

A PROSPEROUS florist is never idle; do like this busy insect—the bee—take advantage of the great work the never-resting florist, Godfrey Aschmann, and his people have done since Easter, 1,000 of them swarming and enjoying their lives in Aschmann's Greenhouses. "Oh! Aschmann's flowers taste so sweet," the bees say; "we cannot stop; we have a big field to work on; 100,000 of the choicest; every hole and corner full; let us harvest." Secure Bargains now, and for Decoration Day. Please note our lowest prices.

From the lands afar, where the choicest are,
I gather the plants I supply;
Or grow my own, with care unknown,
So the best are the ones you buy.
Then send in your orders and see your trade grow,
None can surpass Aschmann's, wherever you go.

ASPARAGUS PLUMOSUS NANUS, 2 1/2 in. pots, \$3.00 per 100.

COLEUS, Queen Victoria, Golden Bedder, Verschaffeltii, 2 1/2 in. pots, \$3.00 per 100. Fancy varieties, 2 1/2 in. pots, \$4.00-\$5.00 per 100.

PIREUS DRUMMONDI, 2 1/2 in. pots, \$3.00 per 100.

IVY, English or hardy, 12 in. long, 4 in. pots, \$8.00 per 100. IVY, German or Parlor, 2 1/2 in. pots, \$3.00 per 100.

CENTAUREA CYMBICARIA or Dusty Miller, 2 1/2 in. pots, \$2.00 per 100.

CUPHEA or CIGAR PLANT, 2 1/2 in. pots, \$3.00 per 100.

LOBELIA, dwarf or trailing, 2 1/2 in. pots, \$3.00 per 100.

SWEET ALYSSUM, Little Gem, have 10,000 of them, 2 1/2 in. pots, \$3.00 per 100.

MARIGOLD, Eldorado Africana and Gold Ring, dwarf, 3 in. pots, \$4.00 per 100.

VINCA, variegated or periwinkle, 4 in. pots, \$10.00 per 100. 2 1/2 in. pots, \$5.00 per 100. Rose or Major, 2 1/2 to 3 in. pots, \$5.00 per 100.

COSMOS GRANDIFLORA, white, red or pink, three plants in a 3 in. pot, separate colors, \$5.00 per 100.

SALICIGLOSSIS VARIABILIS (European), 2 1/2 in. pots, \$4.00 per 100.

SUMMER CHRYSANTHEMUMS, Chameleon, 3 in. pots, \$7.00 per 100.

TRUBERGIA or BLACK-EYED SUSAN, 4-5 tiers, 5 year old, 20 to 28 in. high, as broad as long, price, \$1.75-\$2.00-\$2.50 to \$3.00 each.

ARAUCARIA GLAUCOA, large specimens, 6 year old, 36 to 40 in. high, 36 to 40 in. wide, 6 to 8 tiers, \$3.00-\$4.00-\$5.00 each.

ARAUCARIA, new importation. First consignment about 5,000, now arrived (Saturday, May 4), per steamer Manitou from Antwerp, and thereafter by every steamer up to June 1. Araucaria Excelsa, in their original packing, left planted in pots, 3 tiers, 10 to 12 in. high, 50c., larger sizes, 60c.-75c.-\$1.00 to \$1.25 each. Robusta, Compacta and Glauca from \$1.00-\$1.25 to \$1.50 each.

DRACAENA INDIVISA, broad leaves, imported from Belgium, now arriving, 30 to 36 in. high, 60c. to 75c.

COCOS WEDDELIANA, 3 in. pots, 16 to 18 in. high, 15c. to 20c. each.

DON'T FORGET WE LEAD THE WORLD IN MOON VINE!

Watch and be careful; don't buy Morning glory for Moon Vine.

We grow only the best varieties A. W. Sells's hybrid or Imposa Noctiflorum, for which we have during the past 20 years a world wide reputation. We ship every Spring from 20,000 to 25,000 plants to every state and territory in America as far as Mexico. 4 in. pots, nicely staked up, 30 to 36 in. high, \$12.00 per 100; 2 1/2 in. pots, nicely staked up, \$5.00 per 100.

NOTICE! Above Moon Vine is the earliest variety in existence, blooms freely, in big clusters, pure white; waxy flowers, very fragrant and as big as a saucer.

Cash with order please. All goods must travel at purchaser's risk.

GODFREY ASCHMANN, Wholesale Grower and Shipper of Pot Plants, 1012 West Ontario St., Philadelphia, Pa.

flowers. The reception was a very large affair; in fact, the parents of the bride were surprised at the large number of friends of the young couple. The marriage ceremony was performed by the Rev. Wm. Patterson, Bethany Presbyterian Church, at which church years ago the bride's father was a Sunday School scholar.

The Whildin Pottery Company will give a handsome sterling silver cup as a bowling prize at the S. A. F. O. H. convention competition here in August.

The Florists' Club meeting on Tuesday evening was one of the best held in a long time, there being a very good attendance. Edwin Lausdale resigned as secretary and David Rust was elected in

his place. J. Otto Thilow read a very interesting paper on "The Organization and Equipment of a Modern Horticultural Establishment." The committee who are soliciting funds for the convention are making very good progress; nearly all the districts have been canvassed. The executive committee will now be appointed to map out the program.

The following new members were elected: W. H. McMurray, John E. Haines, Bethlehem, Pa.; I. Rosnosky of Henry F. Mitchell Company and Godfrey Aschmann.

Miss Mooney of Mooney & Weir, Wilkesbarre, Pa., was in this city on Monday. DAVID RUST.

Prices Advertised in these Columns are for

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

Westerly, R. I.

A mysterious explosion occurred at the greenhouse plant of S. J. Reuter, the florist, on Beach street, Friday, April 23, which did physical injury to William and George Laughlin, employed there. It was first believed that some kind of an infernal machine had been placed in the path of the rose house, by some angered Italian, with the intent to kill. The Italian workmen denied this, however, stating that one of the injured men had been making dynamite cartridges, one of which exploded. William Laughlin, who claims he stepped on the bomb, or whatever it might have been, was the more seriously injured of the two men. He received a full dose of the powder in the face, chest and legs, and his right eye was badly injured. He was taken to the office of a local physician, where it was found that there was a hemorrhage of the cornea of the right eye, and he was obliged to go to Providence to be treated by an eye specialist. His face was speckled with powder and particles of his clothing were picked from the flesh of his body. George Laughlin escaped with a lacerated right leg.

Mr. Reuter says that there had been no trouble among the gang of Italians employed at his plant since the first of April. At that time he changed the schedule of working hours. From October to April the men had a half hour's nooning, but on April 1, they were given an hour's nooning and were to work until 6 o'clock. A part of the Italians refused to work under the new schedule and left their job, while a number of them returned to work.

The Laughlin brothers deny the statement made by the Italians and still believe that some of them are the cause of the explosion. William Laughlin has threatened to bring suit against Mr. Reuter for damages unless he makes a settlement for the injuries received by him in the accident.

George Laughlin has resigned his position and William Laughlin has been discharged by Mr. Reuter. It is the intention of Mr. Reuter to investigate the matter more thoroughly and find out, if possible, just who was to blame for the act.—Westerly (R. I.) Sun.

Yonkers, N. Y.

There is not much of interest in the florists' trade at this place; many of the florists make daily visits to the metropolis to secure the stock for their requirements. There have been some changes in the business of late. Charles Amman, who in past years was listed among the growers here, is now out and the business is continued at the Amman place by Wadley & Smythe of New York.

Mrs. L. W. Doyle, who has a small greenhouse plant on some valuable property, is looking for a purchaser for both greenhouses and property, and wishes to retire from active business.

George Ellis, Francis Fizzeller and John Furzey, all listed as florists here, have been out of the business for some years. Frank Knapper and Erwin Huckins are now the principal growers. Peter McDonald, J. R. Raymaster, Mrs. Millot and Mrs. E. McHenry have each a city store.

Hydrangea Otaska,

Asparagus Sprengeri,

Vinca Variegata, Smilax

Strong, clean stock, out of 2 1/4 in.,

\$2.50 PER 100.

John C. Hatcher AMSTERDAM, N. Y.

GERANIUMS From 2 1/4 inch pots, ready to shift North, Single and Double Grant, \$2.50 per 100; \$20.00 per 1000. Poitevine, Hill, Viand Favorite, \$25.00 per 1000. Cash with order please.

JAS. AMBACHER, WEST END, NEW JERSEY.

GOV. HERRICK VIOLET PLANTS \$5.00 per 100.

PRINCESS OF WALES VIOLET PLANTS, \$3 per 100; \$25 per 1000. All from 2 1/4 in. pots. Cash with order. L. DART, 384 EAST WINNIFRED ST., ST. PAUL, MINN.

500,000 Pansies

Finest strain grown for market. The result of over 25 years careful selection.

We grow all our own seed, and for vigor of growth, size and substance of flower, and brilliant and novel colors, this strain is unsurpassed.

A trial order solicited.

Price for full transplanted plants in bloom, \$10.00 per 1000. Larger sizes, \$15.00 and \$20.00 per 1000. Mixed colors by express only. Cash with order please.

I. E. COBURN, 291 Ferry St., EVERETT, Mass.

200,000 PANSIES SUPERB STRAIN. READY NOW. Fine, large Fall Transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you have ever handled. \$1.25 per 100; \$10.00 per 1000. Cash with order. LEONARD COUSINS, Jr. CONCORD JUNCTION, MASS.

PANSIES

Fine stocky plants that will bloom in May, 50c. per 100, \$3.00 per 1000. Forget-me-nots in bud and bloom, large plants \$2.00 per 100, \$15.00 per 1000. Wallflowers in bud and bloom, \$3.00 per 100. Varbanas, Stocks, Ageratum, Salvia, Cigar Plants out of 2 1/4 inch, \$2.00 per 100, \$15.00 per 1000. Cabbage Plants E. J. Wakefield, \$1.25 per 1000.

J. C. Schmidt, Bristol, Pa.

PANSIES THE JENNINGS STRAIN.

A few more left; strong plants at \$1 per 100, transplanted, ready to bloom. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn. Growers of the Finest Pansies

PANSIES

Extra large plants, in bud and bloom, large flowering, \$1.00 per 100; \$8.00 per 1000. Also MAMMOTH VERBENAS, from flats, 60c. per 100; 2 1/4 in. pots, \$1.00 per 1000.

HILL TOP GREENHOUSES 5-16 Gray Ave., UTICA, N. Y.

POINSETTIAS

2 1/2 in. pots, \$5.00 per 100; \$40.00 per 1000. 5 per cent. discount on all orders received before July 1st accompanied by cash. July and August delivery.

S. N. PENTECOST, 1790-1810 EAST 101st ST., CLEVELAND, OHIO

MAMMOTH VERBENAS 20 varieties healthy plants from soil, \$1.00 per 100; \$8.00 per 1000. I have raised these Verbenas from seed, and twice transplanted them making fine stocky plants. None but good stock sent out. Queen of the Market, white and ASTERS, mixed, Droer's, Vick's and Sample's branching, transplanted, all healthy stock, 40c. per 100; \$3.00 per 1000. S. A. PINKSTONE, 20-22 Philip St., UTICA, N. Y.

COLEUS All Sizes from Sand and Soil.

Verschaffeltii and Golden Hedder, \$6.00 per 100. Fancy, select, very brightest mixed \$5.00 per 1000. Giant many kinds, finest of all Colans \$8 c. per 100 Extra big Rooted Cuttings May 20th all kinds at above prices.

Low Bushy from soil, strong, Fancy \$100, Vera, and G. B. and Giant \$1.20 per 100. Ready to plant out Young stocky transplanted BRANDED GERANIUMS Queen of the Market, Bicard, Nutt, Doyle, Poit-vine Perkins, 100 \$1.25. F. Blanc new double white (Brundati type) very finest, 6c. each.

DANIEL K. HERR, Lancaster, Pa.

ASPARAGUS

Robustus, Ideal for pots, pans and vases. Ready for 4 inch pots at \$5.00 per 100. Sample for 10c.

Plumosus, Deflexus, Sprengeri and Smilax, ready June 15 to October 1. Seed for price list before placing your orders for this stock.

ALBERT M. HERR,

Table with 2 columns: Geraniums and Coleus. Geraniums: 10 Varieties, 3x3 1/2 pots, my selection \$5.00; Alternantheras, red and yellow 2.00; Asparagus Plumosus, 2 1/4 pots 2.00; Seedlings 1.25. Coleus: 10 Varieties, 2x2 1/2 pots \$2.00; 10 Varieties Cannes, from pots May 1 5.00; Vinca Variegata, 2 1/4 pots 3.00; Primrosea, Assorted, July 1 2.00; Asp. Plumosus Seed, New Crop, per 1000 3.00; Petunias from double seed per 100 3.00.

JOS. H. CUNNINGHAM, DELAWARE, O.

GERANIUMS—GERANIUMS

READY MAY 1. In bud and bloom, S. A. Nutt, La Favorite, Beauty de Poitevine, Mary Hill, A. Ricard, John Doyle, Jean Viand, Marquis de Castellane, and other good varieties, 3 1/2 in. pots, \$5.00 per 100. CANNAS, Florance Vaughan, Charles Henderson, Queen Charlotte, Duke and Egandals, 4 in. pots, \$5.00 per 100. HELIOTROPE, 2 varieties, 3 1/2 in. pots, \$5.00 per 100. HELIOTROPE, two varieties, 2 1/2 in. pots, \$2.00 per 100. VERBENAS, 3 in. pots, \$2.50 per 100. SINGLE PETUNIAS, large flowering, 3 in. pots, \$2.50 per 100. PARLOR IVY, 2 1/2 in. pots, \$2.00 per 100. AGERATUM, dwarf blue, 2 1/2 in. pots, \$2.00 per 100. VINCA, variegated, 2 1/2 in. pots, \$2.00 per 100. NASTURTIUMS, in variety, 3 in. pots, \$2.50 per 100. SALVIA SPLENDENS, 2 1/2 in. pots, \$2.00 per 100. PELARGONIUM VICTOR, 3 1/2 in. pots, \$7. per 100. Cash with order.

WM. J. CHINNICK, TRENTON, N. J.

100,000 GERANIUMS

Finest stock in the country; most in bud and bloom. Poitevine, Nutt, D. Grani, Buchner, Ricard, Castellane, etc., heavy, 3 in. \$4.00; 4 in. \$5.00; 4 in., extra large, \$6.00 per 100. Mme. Sallerol Geraniums 3 in. \$3.00 per 100.

DREER'S superb, single, fringed PETUNIAS, VERBENAS, AGERATUM, LOBELIAS, SALVIAS, COLEUS, yellow, red, fancy large, 2 in., \$1.75 per 100; \$16.00 per 1000; large 3 in., \$2.50 per 100. Heliotrope, 3 in. and 4 in. \$3.00 and \$5.00 per 100.

CANNAS Black Prince, McKinley, Chas. Henderson, West Virginia, etc., large 3-4 in., \$5.00 per 100. Cash please. All stock guaranteed No. 1 or your money back. Extras added to help pay expressage. Standard 2 in pots \$1.75 per 1000.

WM. S. HERZOG, Morris Plains, N. J.

GERANIUMS

Nutt, Doyle, Buchner, 2 inch, \$2.00 per 100; \$18.00 per 1000. Ricard Castellane, 2-2 1/2 inch, \$2.00 per 100; \$20.00 per 1000. Nutt, Buchner, Ricard, Poitevine, Viand, Montrose, 3 inch, \$4.00 per 100; \$40.00 per 1000. Rooted Cuttings, \$10.00 per 1000. Cash with order.

PETER BROWN, Lancaster, Pa.

COLEUS

Verschaffeltii, Golden Queen, Fire Brand, Lord Palmerston, Queen Victoria, Beckwith's Gem. 60c. per 100. \$5.00 per 1000.

Golden Hedder and Fancy varieties, 75c. per 100, \$6.00 per 1000. AGERATUM, Stella Gurney, and Princess Pauline; Salvia splendens, and Bonfire; Heliotrope, rooted cuttings, 75c. per 100, \$6.00 per 1000.

ROUVEDIA (Humboldtii Corymbiflora), from 2 1/4 in. pots, \$5.00 per 100; \$45.00 per 1000. The 1000 rate obtains only when 250 or more of a variety are ordered.

A. N. PIERSON, Cromwell, Conn.

PLANT CULTURE PRICE, \$1.00.

The best book for the plant grower.

A. T. DE LA MARE PTG. & PUB CO. LTD. 2-8 Duane St. New York.

GERANIUMS

Rooted Cuttings ready May 20. Nutt, Buchner, Castellane, Frances, Viand, Perkins, Janlin, Poitevine and Ricard. For the lot all varieties at \$10.00 per 1000. Send for price list for later deliveries.

LANCASTER, PA.

Table with 2 columns: Geraniums and Coleus. Geraniums: 10 Varieties, 3x3 1/2 pots, my selection \$5.00; Alternantheras, red and yellow 2.00; Asparagus Plumosus, 2 1/4 pots 2.00; Seedlings 1.25. Coleus: 10 Varieties, 2x2 1/2 pots \$2.00; 10 Varieties Cannes, from pots May 1 5.00; Vinca Variegata, 2 1/4 pots 3.00; Primrosea, Assorted, July 1 2.00; Asp. Plumosus Seed, New Crop, per 1000 3.00; Petunias from double seed per 100 3.00.

JOS. H. CUNNINGHAM, DELAWARE, O.

ALTERNANTHERA

P. Major, 2-in. 2c. AGERATUM, white, Pauline Gurney, 2-in., 2c. CENTAUREA GYMNOCARPA, Dusty Miller, 2-in. 2c. COLEUS, 2-in., 2c. DUSTY MILLER, strong 2 in., 2c. ELEGANTISSIMA PERNS, 2-in., 3c. ROOTED CUTTINGS, prepaid per 100. FUCHSIA, 5 kinds, \$1.25. AGERATUM, white, GURNEY, PAULINE, 60c. VINCA VARIEGATA, 90c. SALVIA BONFIRE, SILVERSPOT, SPLENDENS, 90c. ALTERNANTHERA, 3 kinds, 50c. HELIOTROPE, 2 kinds, \$1.00. FLOWERING BEGONIAS, 8 kinds, \$1.25. PARLOR IVY, 75c. DOUBLE PETUNIAS, 10 kinds, \$1.00. 'MUMS': TRANTOR, ALLIANCE, PACIFIC, CHELTONI, GOLDEN AGE, WEEKS, ENGUEHARD and EATON, \$1.25. COLEUS, 10 kinds, 50c. SWANSONIA ALBA, \$1.00. PABIS DAISY, white and yellow \$1.00. CEXANDREA, \$1.25. Seedlings, Dwarf and Tall, double stock. Antirrhinum, Grand white, pink and yellow, \$3.00 per 1000. Cash or C. O. D.

BYER BROS. Chambersburg Pa.

REMOVAL SALE Here is a chance for cheap Spring Stock.

Geraniums, 4 in. Per 100 \$7.00 Heliotrope, 4 in. 6.50 Ageratum, 4 in. 6.50 Salvia Splendens, 3 in. \$3.00; 4 in. 6.50 Petunias large, double white, 4 in. 8.00 Periwinkle, nice and long, 3 in. \$4.00; 4 in. 10.00 Hardy Ivy, long, 3 in. 3.00 Assorted Seedlings, \$1.25. 3.00 Draecena Indivisa, 6 in., vary cheap, \$2.50 per dozen Martha Washington Geraniums, 4 in. 10.00 Cannas, all varieties, 4 1/2 in. 7.00 Dalaisia, white 4 in. 7.00 Mignonette, 4 in. 7.00 Asparagus, 3 in. 6.00 Honeyuckle Vines, 6 in., large plants, 20.00 Verbenas, Alyssum, Phlox, Cigar, etc. Ice Plants, Lobelia, Ground Ivy, Celena, in ten fancy colors, also Golden Redder, Dalaisia, Bachelor Buttons, Forget-me-nots; all the above are in 3 in. pots and sell at \$2.50 per 100. Achyranthus, Artillery, Plants, Ice Plants Black-Eyed-Susan, Nasturtiums, 3 in pots \$2.50 per 100. Please state if with or without pots. Cash with order please.

MRS. JOHN H. CLAUS, 1119 Roy St., Philadelphia, Pa

ALTERNANTHERA

50,000 plants in 2 in. pots. Paronychia aurea, nana and varicolor at \$20.00 per 1000; 600 at 1000 rate. No order for less than 600. Ready for delivery May 1. Cash with order.

J. CONDON, Florist,

CHRYSANTHEMUMS

From soil and sand, A. No. 1 stock, Major Bonaffon, Dr. Enguehard, R. Halliday and Pacific, \$1.50 per 100; \$10.00 per 1000. Nonin, \$2.00 per 100. GIBBET ALEXSSUM, SALVIA, VERBENA, PHLOX DRUMMONDI, from 2-in. pots, in bud and bloom, \$2.00 per 100. BOSTON MARKET CARNATION, 2 1/4 in. pots, \$2.00 per 100. ASPARAGUS PLUMOSUS NANUS, ready for 4-in. pots, \$4.00 per 100. Cash with order please.

CARL MERKEL Cor. Broad & Sixth Sts. CARLSTADT, N. J.

GERANIUMS

3000 Gen. Grant, 3 in., \$4 per 100. 5000 Gen. Grant, 4 in., \$6 per 100. 5000 Nutt, 4 in. \$6 per \$1.00. Cannas, 1000, A. Ricard, Queen Charlotte, President McKinley. Asters, 5000, 2 1/2 in., separate colors, Sample's. All grown for home trade. A. No I stock R. A. ELLIOTT, Morristown, N. J.

THE WEEK'S WORK.

Timme's Timely Teachings.

Poinsettias.

Stock plants of poinsettias, if still in a dry and dormant condition, must now be started into growth. To hold them in an inactive state any longer than the middle of May lessens their value as yielders of good material for propagation. On the other hand, a very early start in the rooting of cuttings is nothing especially desirable, since the stock started too early usually makes too rank and tall a growth by next Fall to be most suitable for commercial purposes. It also is a mistake to rest poinsettias in a too cool temperature or in a place not dry enough for them. They want it warmer than most other stock plants and need no water whatever after the leaves have dropped. The first thing to do in starting them is to cut down the old canes to well-ripened wood or, if they are only wanted for the production of cuttings, to within three or four of the lower joints. After this the plants are repotted into new soil; any sort of prepared potting soil or good old bench soil, made rich by adding some decayed manure, bone meal or Clay's fertilizer, is good for the purpose. The next move now in order is a thorough watering of each plant and their removal to a light bench in one of the warmest houses. A daily syringing now will expedite matters considerably. Plants started now will have the first batch of cuttings ready by the middle or end of June and the next in three or four weeks later. In a rather warm and constantly humid atmosphere, but never allowed to become overclose or muggy, few of the cuttings will be lost through decay, unless they are taken from stock plants before they have reached proper proportions, which, if grown under the full influence of clear light, means a length of at least three inches with a heel of the old wood at the butt end, or more, if cut under a joint, leaving a few eyes at the base for the production of a second crop of cuttings later on. Small, soft shoots are of little value for propagation and should never be taken, especially not when there is plenty of time for doing the work in a manner assuring the highest possible degree of success. Frequent spraying and the presence of a reasonable amount of live moisture in the house prevent the wilting of the cuttings, to which they incline with uncommon persistence. When showing the least signs of roots and before these have made any considerable spread it is time to pot the plants, which under favorable conditions soon become established and safely beyond the risky stage in their career.

The Cyclamen.

There are several ways in which to grow cyclamens to perfection, all of them involving strictest attention to cultural duties at this season of the year, a time when neglect and sins of omission, blemished with good excuses, are most easily overlooked and most certain to result in lamentable failure. Few plants if not afforded timely care are more resentful than cyclamens. Whether they are grown in flats or in pots, in the house or in frames, their requirements as to transplanting, to shading, watering and ventilation are such as to admit of no neglect, if it is intended to have them show up in finest form next Fall or Winter. And cyclamens, not grown with that end in view, are barely worth raising.

Cyclamens started last Fall and now in 3-inch pots, should be about ready for another shift, and if to be grown in frames could now go there at any time, care to be taken to avoid direct sweeps of air at first and giving the plants a somewhat heavier shading on clear days than would be needful later on. There is no doubt as to the outdoor frame being a good place for cyclamens during the Summer, but its use for stock of this kind affords free license to excesses in treatment and thus the many advantages accredited to frame culture very often are not only lost, but actually are inducements to faulty practices. So, for instance, does the free exposure to direct air currents, most beneficial to nearly all kinds of stock, cause the little pots to dry out

rapidly. This, in itself detrimental to normal development, necessitates frequent, indiscriminate and excessive watering—a proceeding fraught with menace to the welfare of the plants. Sudden unlooked for changes of temperature and open air conditions are less easily guarded against than in the case of greenhouse cultures. More damaging to young cyclamens in frames than all this, however, is lack of good judgment in the matter of shading. In many instances, the shade thrown by contrivances used for the purpose is too dense and allowed to overspread the plants at times when there is no need for it. A shading scheme, light in weight and texture, put on and taken off in time, is all that is needed for cyclamens and such like plants in frames.

Should a suitable bench in some well ventilated and rather low-roofed house become empty in good season, a lot of fine cyclamens might be raised in it during the Summer by planting them at good distances in a properly prepared mixture of soil, in character and depth not unlike that in which bench grown Boston ferns do best. This method of growing early and late sown cyclamens into flowering size brings uncommonly good results with the least of care and labor. When the plants begin to show buds it is time to lift and pot them. The buds of cyclamen planted too deep hardly ever reach perfect development and too deep a stand of the bulbs often accounts for cyclamens otherwise finely grown, coming with deformed or few or no flowers at all. The vigor of late sown, small seedlings is more easily upheld by a transfer from tray to tray until of considerable size for being potted up than by an early start with small pots and small plants. When this latter course is held to be the more correct way of growing the plants into size, a deal of watchful attention is needful to avert lasting damage from an occasional drying out of the roots or from unavoidable delay in transplanting.

Gardenias.

There is no reason why anyone who has made his mark as a good grower commercially should not try his hand in the culture of gardenias, conducted rationally and on a somewhat extensive scale. This line of floricultural effort holds out a bright promise for the future not dimmed by any fear of possible over-production and consequent cut in prices or lack of demand. Pecuniary success in this case alone depends on cultural success, and this again depends not so much on an uncommonly high degree of skill and experience, as on the right kind of stock to begin with and properly equipped houses to grow it in, neither of which is very difficult to provide. A start with gardenias for either pot or bench culture may be made at any time from now until the close of Summer. Though there is less risk with potted plants as far as the yellowing of stems and foliage and the eventual loss of plants are concerned, than with benched stock, the latter is more easily prevented from dropping its buds than the former. But discouraging losses due to these traits in the gardenia need not occur if ordinary attention is paid to cultural details by a careful and observant grower. The principal points to be borne in mind in gardenia culture are bright, thrifty plants of small or medium size to start with, good and ample drainage in pot or bench, a porous, roughly broken up, quickly drying and not readily souring soil, rather heavy in texture and fairly rich in animal manure of earth-like nature, the crown of the roots barely below the surface of the soil in planting, the avoidance of over-watering in maintaining constant moisture at the roots, the frequent use of the syringe over, among and through the plants, a buoyant, humid atmosphere, the fullest light, bottom heat if possible and a steady temperature of not much below 70 degrees in Winter.

Hydrangeas.

It is at Easter and then again around about Memorial Day, when hydrangeas take rank among the best selling of plants. Those intended for the latter occasion will now need unstinted quantities of water and lots of room and light. Regular fumigation may still be a necessity on some places, but should be discontinued after the trusses have turned from greenish yellow to rosy blush.

SURPLUS STOCK

	Per 100	1000		Per 100	1000
Ageratum, 4 best dwf. kinds	\$2 00	\$20 00	Palm, <i>Lantania Borbonica</i> , 4 in. doz.	\$1.50	\$8.00
Bagonia, flowering kinds assorted	2 50	20 00	Palm, <i>Washingtonia Filifera</i> , 2 in.	3 00	25 00
Coleus, assorted 2 in.	1 75	15 00	Rubber Plants, 4 in.	\$2.50,	
Coleus, rooted cuttings asst.	60	5 00	3.00 doz.		
Fuchsia, asst. kinds	2 00	20 00	Ferns, Boston, 2 1/2 in.	3 50	30 00
Jasmine, assorted kinds	2 50	20 00	Ferns, Pteris, large sizes,	\$8.00,	\$10.00
Jasmine, Maid of Orleans, double white	3 00	30 00	Ferns, Pteris, 2 1/2 in.	3 50	30 00
Lantana, best dwf. bedding kinds	3 00	25 00	Ferns, Scott's, 2 1/2 in.	4 00	35 00
Hibiscus, assorted kinds	3 00	25 00	Hardy Pinks, assorted 2 in.	2 50	20 00
Moonvines, white 2 in.	4 00	35 00	Hardy Phlox, assorted field plants, best	3 50	30 00
Lemon Ponderosa	3 00	30 00	Honeyuckles, Halleana, Golden Leaf, and Scarlet Trumpet, pot plants	2 50	20 00
Orange Calceola	3 00	30 00			
Salvia Splendens, 2 1/2 in.	2 00	17 50			
Vinca Variegata, 2 in.	2 00	20 00			

ROSES Everblooming Teas, Climbing Teas, Hybrid Teas, Hardy Climbing, etc., Lady Gay and Baby Rambler

Send in your list of wants for best prices. Terms Cash with order. Liberal treatment.

THE REESER FLORAL CO., Urbana, Ohio

WITTBOLD FLORIST

Wholesale Price List

Palms and Ferns

Variety	Size	Each	Dozen	100
Areca Intescens	4		\$3.00	
Assorted Ferns for ferneries			\$3.00	
Asparagus Plumosus	2	.50	3.00	
"	3	.75		
"	4	1.50	12.00	
"	6	3.00		
Asparagus Sprengeri	3		3.00	
"	3		7.00	
Cibadium Schiedei	6	\$1.00		
Cocos, 3 in a pot	4	75c	\$1.00	
Dracaena Fragrans	5		5.00	
Dracaena Indivisa	3		5.00	
"	6	5.00		
"	30-34 high	.75	9.00	
"	8		12.00	
Dracaena Terminalis	3		2.00	
"	4	.25	3.00	
"	5	.35	4.00	
Ficus Elastica	5		4.00	
Japanese Fern Balls			4.00	
Japanese Fines in Japanese jars			4.50	
Lantania Borbonica	5		5.00	
Nephrolepis Barrowsii	2	.75	6.00	
Nephrolepis Bostoniensis	2	.50	4.00	
"	3	1.00	8.00	
"	4	1.50	12.00	
"	4 strong	2.00	25.00	
"	6	4.20		
"	Elegantissima	6.00		
"	7	9.00		
Nephrolepis Pteris	7	9.00		
"	8	12.00		
Nephrolepis Whitmanii	2	1.25	10.00	
Phoenix Reclinata, 4 in.		doz.	3.00	
"	5 in.	doz.	5.00	
Pandanus Urtis, 5 in.		doz.	5.00	
"	6 in.	doz.	6.00	

The Geo. Wittbold Co.

1657 Buckingham Place, CHICAGO, ILL.

OLD FASHIONED

Sweet Lavender

fine plants, 2 in. pots, 1 year old, 6c. ASPARAGUS all sold. R. C. HANFORD. Norwalk, Conn.

Hydrangeas now out of bloom and at the end of their season, should be cut back to within half the length of their wood. A harder pruning back is likely to call forth an abundant and vigorous growth from all around the base of the plants, a growth which will not flower the coming season, but may be depended upon as bringing immense trusses of bloom the following year. The later the season the less severe must be the pruning of full-sized hydrangeas, lest the best of flowering wood is cut away. No more pruning should be done after the latter end of June. The tips, then cut off, may be used to advantage as cuttings in Summer propagation. FRED. W. TIMME.

CYCLAMEN Splendens Giganteum Hybrids

This strain has no equal or better, in five true colors, including fringed varieties, twice transplanted from flats \$3.00, from 2 1/2 in. pots \$5.00, from 3 in. pots \$7.00 per 100. Satisfaction guaranteed.

CANNAS

Pres. McKinley, Chas. Henderson, Chicago, Papa, Alphonse Bouvier, Queen Charlotte Eganale, J. D. Cabos, Florence Vaughan, well grown plants from 3-inch pots, \$1.00 per 100.

GERANIUMS

Alphonse Riccard, John Doyle, Castellane, Beauty Poitevine, E. G. Nutt, La Favorite, etc., extra well grown plants in bud and bloom from 4-inch pots, \$7.00 per 100.

PAUL MADER, East Strausburg, Pa.

A Few Good Things You Want

Cash with Order. Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100. Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100. Geraniums, S. A. Nutt, John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellane, Poitevine and Viand, 2 in. pots, \$3.00 per 100. Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100. Scott's Ferns, 5 in., 30c. each. Vinca Var, 2 in., \$2.00 per 100. Gladiolus, blooming bulbs extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000. Dracaena Indivisa, 4 in., \$10.00; 5 in. \$25.00 per 100. Heliotrope; Coleus, red and yellow; Cigar Plants; Alternanthera, red and yellow; Verbena; Scarlet Sage, Bonaire, 2 in. \$2.00 per 100. Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s properly packed in good order.

GEO. M. EMMANS, Newton, N. J.

Just received a large importation of

Cattleya Bigas Sanderae

ORDONEZ, DE NAVE & CO. MADISON, N. J.

BEDDING PLANTS

	Per 100	Per 1000
Salvia, 3 in. pots	\$3.00	\$25.00
Verbena, 3 in. pots	3 00	25 00
Canna, Charlotte, Henderson, Austria, 8 in.	3 00	
Canna, 4 in.	5 00	
Double Patulas, 4 in.	6 00	
Salvia Alyssum, double; Phlox Drummond, Verban's, 2 1/2 in. pots	2 00	10 00
Alternanthera, R. & Y., 2 1/2 in.	2 00	15 00
Polargoniums, 5 in.	15 00	
Pansies, strong in bloom	1 50	10 00

J. S. BLOOM, Riegelsville, Pa.

CLASSIFIED ADVERTISEMENTS

OASH WITH ORDER.

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line 7 words to the line, set solid, without display. No advt. accepted for less than thirty cents.
Display advertisements in these columns, 15 cents per line; count 12 lines agate to the inch.
[If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]
Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—By a young man as foreman of a small rose growing place. References on application. Address H. T. care The Florists' Exchange.

SITUATION WANTED—On private place as assistant; experienced in general greenhouse work. Single; best of references. Address, E. D., care The Florists' Exchange.

SITUATION WANTED—As traveling salesman by an American for a first-class florist supply or plant house. Best of credentials. Address, N. N., care The Florists' Exchange.

SITUATION WANTED—As working foreman, good grower of roses, carnations, etc. First-class references, long experience. N. E. preferred. Address H. Y., care The Florists' Exchange.

SITUATION WANTED—Good grower of cut flowers and plants, also good make-up. Able to take charge. Middle aged, single, best of references. German. Address, C., care The Florists' Exchange.

WANTED—Position as foreman or manager in vicinity of New York by first-class grower of cut flowers and plants; best of references. Lockwood Express Office. W. L. Smith, 206 South 1st avenue, Mt. Vernon, N. Y.

SITUATION WANTED—As foreman of a nursery or park by young man with 20 years' all-around experience. Good landscape engineer; a hustler. Good wages expected; good references. Address, Nurseryman, care The Florists' Exchange.

SITUATION WANTED—By a single man, 45 years old, thoroughly competent in all branches of commercial florist work. State wages and particulars in first letter. Address, James O'Brien, care Florist, 6 Roosevelt avenue, Jersey City, N. J.

SITUATION WANTED—Foreman for several years on a good sized and well-known place. First-class grower of carnations, chrysanthemums, Easter, decorative and bedding plants, wishes similar position. Good wages expected. Address, N. E., care The Florists' Exchange.

SITUATION WANTED—As assistant on good commercial place where roses and carnations are grown. Have little experience, willing to learn, age 22. Address full particulars to William R. Seymour, Glen Cove, L. I., N. Y.

SITUATION WANTED—As working foreman on wholesale or retail place; 12 years in present place; 40 years of age, Swede, married, experienced in growing roses, carnations, chrysanthemums and general stock. First-class references. Address, A. N. C., care The Florists' Exchange.

SITUATION WANTED—By working foreman as grower of cut flowers and pot plants; 20 years' experience; none but first quality goods grown. Good wages expected where ability is shown. Vicinity of Greater New York. Address, X. L., care The Florists' Exchange.

SITUATION WANTED—A seedsman who has had a long experience in all branches of the trade, including nursery stock and plants, wishes to secure a position with a firm needing an earnest and hard working man. Address, Seedman, care The Florists' Exchange.

SITUATION WANTED—As working foreman on some first-class place. Twenty years' all-around experience. Good grower of roses and other cut flowers, pot plants, nursery stock, etc. Good landscape gardener; good worker. Total abstainer. Good references; will take stock in a first-class place. Houses must be in good condition; wholesale or retail; good wages expected. A No. 1 references. Address, H. G., care The Florists' Exchange.

HELP WANTED

WANTED—A good greenhouse man for growing plants and cut flowers. Wages, \$12.00 Apply, Chas. L. Stanley, Plainfield, N. J.

WANTED—Two good greenhouse men for general florists' work. Apply A. L. Miller, Jamaica Avenue, opposite Scheck Avenue, Brooklyn, N. Y.

WANTED—At once, two good, all-around greenhouse men. Steady position. R. W. Patterson, 233 Main street, New Rochelle, N. Y.

WANTED—At once, a general greenhouse man, experienced in bedding stock. H. B. Thompson, 421 Greenside Ave., Canonsburg, Pa.

WANTED—Salesman, one who has had experience and has thorough knowledge of the business. Stump & Walter Company, 50 Barclay street, New York City.

WANTED—Single man in greenhouses; asparagus, smilax and chrysanthemums. Steady position. State wages. Address, M. T., care The Florists' Exchange.

WANTED—Single, German florist and gardener; honest, industrious and strictly temperate. Full charge of about 6000 ft. glass. Dysinger, Albion, Mich.

WANTED—Young lady to attend store; must be experienced in bouquet and design work. 20 miles from New York City. Permanent place. Address, H. X., care The Florists' Exchange.

WANTED—A good, all-around florist for a downtown retail flower store in Chicago. Must come well recommended. Address, E. F., care The Florists' Exchange.

WANTED—At once, two experienced rose growers to take charge of sections on large, up-to-date place. Wages, \$15.00 weekly. Address, N. G., care The Florists' Exchange.

WANTED—Experienced rose and carnation growers to take charge of sections. Give references and wages expected in first letter. Lake View Rose Gardens, Jamestown, N. Y.

WANTED—A foreman who understands growing of carnations, chrysanthemums and Easter stock. Must be a good designer. Apply to D. Y. Mellis, Holy Cross Cemetery, Flatbush, Brooklyn, N. Y.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets. In the middle West. Married man preferred. State age, nationality, wages, etc. Address, G. H., care The Florists' Exchange.

WANTED—An assistant in the houses to work under the directions of a foreman on a first-class private place. Wages to start with, \$50.00 per month. State age and full particulars to H. M., care The Florists' Exchange.

WANTED—At once, competent man to handle 15,000 ft. commercial glass in first quality flowers and plants. Wages in proportion to ability to produce results. Cottage with garden on premises. C. L. Dole, Lockport, N. Y.

MISCELLANEOUS WANTS

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WANTED TO LEASE—On or about 15th of June, with privilege to buy, a commercial place, about 8,000 to 16,000 sq. ft. of glass; must have some ground and dwelling within 10 miles of New York City. Address, G. B., care The Florists' Exchange.

WANTED

1000 strong, three-year ASPARAGUS, any good variety.

1000 AMPELOPSIS VEITCHII, strong, from pots or field.

THE ELM CITY NURSERY COMPANY, NEW HAVEN, CONNECTICUT.

DISSOLUTION NOTICE.

The firm of Wm. H. Brower's Sons is this day dissolved by mutual consent, L. D. Brower retiring. John L. Brower will continue the business at the old stand, 423 Fifth avenue, New York City, where all accounts due the said concern are payable. Signed: John L. Brower—Lorenzo D. Brower. April 30, 1907.

Thirty cents is the minimum charge for advertisements on this page.

FOR SALE OR RENT

FOR SALE—Modern greenhouses in town of 18,000; one hour from Philadelphia. Retail trade earnings 25 per cent.; takes all can grow. For details and reason for selling, address, G. Z., care The Florists' Exchange.

FOR SALE—Desirable florist business, with dwelling, three greenhouses, 2,140 ft. glass, four hot beds, in growing town, 7 miles from Philadelphia. Fully stocked. Horse, wagon, tools; best reason for selling, F. R. Matsinger, Palmira, N. J.

FOR SALE—To close the estate of the late James D. Burnett, deceased. A greenhouse plant about one mile from the railroad station, Madison, New Jersey. Eleven hundred feet of glass, three and one-half acres of land and cottage. Guy Minton, trustee, Morris-town, N. J.

FOR SALE—Well established greenhouse plant, nicely stocked, for retail trade and doing good business. 10,000 feet glass in good condition; horse, wagon, tools, etc., all complete. City water. Lot 185 x 230, in growing city where real estate will advance. Sold on account of advancing years. Price and terms reasonable. George S. Belding, Middletown, N. Y.

FOR SALE—Desirable greenhouse plant, directly opposite Spring Forest Cemetery, Binghamton, N. Y. Large and increasing demand for funeral designs and bedding stock. Care of cemetery plots big item in receipts. A dwelling house, 10,000 feet of glass; land comprising 20 city lots. Paying business and open chance for increase. Sold on account of advance in years. Apply to J. B. Tully, 47 Spring Forest Avenue, Binghamton, N. Y.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Cutter, which is fast coming into use by the growers. This season many thousand feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing a large business all through the season. Address, E. Elppard, Youngstown, O.

RARE OPPORTUNITY—For sale at Clifton, N. J., between Passaic and Paterson, florist property, consisting of two greenhouses, Number one and two, 150 x 110 ft. each on greenhouse, Number three, 350 x 18 1/2 ft. Lord & Burnham construction. Dwelling house of seven rooms and bath; 84,000 sq. ft. of land; 1/2 block running from street to street; uninterrupted sun exposure. Whole property, including dwelling house, can be purchased for less than No. 3 greenhouse can be duplicated. Address or apply to J. Walter De Witt, 443 Broad street, Newark, N. J.

FOR SALE—A rare opportunity for rose and carnation growers. Over 40,000 sq. ft. of glass; weight houses in good shape; steady and our own water supply; stocked now and good trade in roses, carnations, sweet peas, smilax and bedding stock. Located near to three cities, outside city line. Means eight to ten hours with good cellar and other buildings. To be sold with or without the farm of twenty acres at a reasonable price. Twelve minutes drive from R. R. station, and trolley line passing. Ill health reason for selling. For further information address E. J. P., care The Florists' Exchange.

STOCK FOR SALE

100 EVERGREEN trees, 12 ft. Tomatoes by the thousand. J. A. Meagher, Ardsley, N. Y.

FUNKIA VARIEGATA, extra strong stock at \$4.00 per 100 while they last. Order early, H. E. Le Page, Stamford, Conn.

GLADIOLI, Groff's Hybrids, May and others. See list of May 23. Send for list. John H. Umpley, Lake View, N. Y.

SWEET POTATO PLANTS, now ready; Yellow Jersey, Red Jersey and Big Stems, \$1.25 per 1,000; 35c. per 100. H. Auslin, Felton, Del.

1500 Glory of the Pacific chrysanthemums, 2 1/4 in. pots, \$3.50 per 100. Maun & Brown, Richmond, Va.

FUNKIA VARIEGATA clumps, \$6.00 per 100. Chrysanthemum, Nonin, finest late white, R. C., \$2.00 per 100. H. Pladeck, Elmhurst, N. Y.

ROSES, Bride, Bridesmaid, Ivory, 2 1/4 in., shifted from 2 in., \$2.00 per 100; \$35.00 per 1000. Wm. B. Sands, Lake Roland, Baltimore, Md.

ALLIGATORS: Little live "Gators" for aquariums. Mounted Alligators, natural or upright position, for window display. F. C. Beldeu Company, West Palm Beach, Fla.

CAMPBELL VIOLET CLUMPS, large and healthy, \$4.00 per 100. Imperial violet clumps, 16 in. pots, \$5.00 per 100. Paul Thomson, West Hartford, Conn.

SANTOLINAS, 3 in., \$2.00 per 100. Rooted cuttings from flats, \$1.00 per 100. Cash with order. Dysinger Greenhouses, Albion, Mich.

Going to retire from business. I have a large stock of carbonizing roses in 4-6 and 8 in. pots; a fine stock of geraniums in 4 in. pots; a large assortment of bedding and vase plants. Low prices for good stock. Address, George Wainwright, Trenton, N. J.

STOCK FOR SALE

PINE, stocky plants of Salvia Bonfire, 40c. per 100; \$4.00 per 1000. Ball of Fire and Scarlet Dragon, \$1.00 per 100. Cash. R. Powell, Florist, White Plains, N. Y.

TUBEROSES—Dwarf Excelcor Pearl, first size, \$1.00 per 100; \$7.50 per 1,000; second size, 60c. per 100; \$5.00 per 1,000. Caladium Esculcense, 7 to 9 inches, \$2.50 per 100; 9 to 11 inches, \$4.50 per 100. T. W. Wood & Sons, Seedsman, Richmond, Va.

BABY RAMBLER ROSES, fine dormant stock, one year, \$12.00 per 100; 2 1/4 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1,000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

Hardy Perennials, field-grown, such as Phloxes, Achillea-Pearl; Aquilegias, Digitalis, Anthemis, Clematis Davidsona, Myosotis, Physostegia, Golden Glow, at \$4.00 per 100. Salvia azurea, Veronica subsessilis, at \$5.00 per 100. Above in 3 1/2 in. pots, at \$2.50 per 100. Cash with order. G. W. Schneider, Little Silver, N. J.

CHRYSANTHEMUMS, rooted cuttings, \$10.00 per 1000. Polly Rose, Pacific, Haldray, Ferrin, Enguichar, Major Bonaffon, Jerome Jones, Cohold, Yellow Jones, Timothy Eaton, Cullingford, White Bonaffon, Dwarf Stevia. Cash with order. Newtonville Avenue Greenhouses, Newtonville, Mass.

FOR SALE

FOR SALE—Greenhouse material and hot bed sash, milled from Gulf Cypress to any detail furnished. Oxford mntty. specially made for greenhouse sash. Address, E. Helch, 1429 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. **KROESCHEL BROS. CO., 33 Erie St. Chicago**

FOR SALE

RETURN TUBULAR BOILERS 140 H. P. price \$225.00. 100 H. P. price \$250.00. Above boilers have New York City police permit and guaranteed and insured for 90 lbs. by Maryland Casualty Co.

PIPE Good serviceable second hand. No Junk. With new threads. 2 in. to 1 1/4 in. 5 1/2 in. 14 in. 40 in. 1 in. 3/4 in. 100 in. 3 in. 16 in. 4 in. in. cast iron greenhouse 1 1/2 in. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy working. No. 1 cuts 1/2 in. 4 in. 3 1/2 in. 3 in. 2 1/2 in. \$4.00. Adjustable No. 2 cuts 1/4 in. \$4.00. No. 3 cuts 1/8 in. 2 in. \$3.50.

PIPE CUTTERS Saunders, No. 1 cuts to 1 in. \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.50.

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Richmond, \$6.00 per 100; \$60.00 per 1000. Sunrise, Perle, Sunset, \$5.00 per 100. Bride, Bridesmaid, Golden Gate, \$4.00 per 100; \$38.00 per 1000.

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Pink Lawson, 7000	2.00	17.50
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SPECIAL

12000 R. C. Victory \$5.00 per 100; \$45.00 per 1000

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Alice Byron	2.50	22.00
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Per 100	Per 1000
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Grand New Pink Carnation for 1907. A few thousand R. C. and pot plants still left. Order quick. This variety is a money maker.

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All the latest and best varieties.

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Rooted cuttings Victory, \$6.00 per 100; \$50.00 per 1000; Enchantress, Bountiful, White Lawson, Var. Lawson, Patton, \$2.00 per 100; \$20.00 per 1000; Mrs. Lawson, Boston Market, Queen, H. Penn, and Fair Maid, \$2.00 per 100; \$16.00 per 1000. 5 per cent discount for cash with order.

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100 " Black stuff fine 2.00
144 sheets Aphicide, 3.50
10 Fumigating plates .60
Total \$8.00

Send the powder by freight, the Aphicide by express prepaid. I enclose check for \$2.00

Three or four years ago I had a bag of the Black stuff fine and it was without exception the best tobacco powder I have ever had. Since then I got some stuff from a seed house. I paid more for the article and got left on it. It was much like sawdust than anything else. Now I am coming back to you.

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2 1/2 in. \$3 per 100. 4 in. \$10 per 100. COLEUS, Golden Bedder and Verschaffelti, 2 1/2 in., \$2.50 per 100.

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Of the new CHRYSANTHEMUM, MISS CLAY FRICK, \$2.50 per doz., \$20 per 100.

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Ready Now—Prompt Delivery. Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000. F. DORNER & SONS CO., La Fayette, Ind.

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3 in. \$4.00 4 in. at \$6.00. Alternantheras, \$2.00 per 100, F. Begonia, Agaveatum, Dusty Millier, English and German Ivy, Geranium, at \$2.50 per 100; 3 in. V. nca, variegated, 4c. to 6c.; Asparagus Sp. atgeri 4 in. at 8c. 4 in. Geraniums, white, pink, scarlet and red, at \$4.00 per 100. 2 in. Boston Ferns, at 3c. 3 in. " " at 3c. 4 in. " " at 3c. 2 in. Barrowsii Ferns, at 3c. 2 in. Scottii, at 3c. 3 in. " at 3c. 3 in. Terrytown, at 10c. 2 in. Piersoni, at 3c.

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6 and 7 in. pots, stocky, full of buds, \$4.00 per doz.; 4 in. \$7.00 per 100. DEACAENA INDIVISA, one year plants from bench, \$2.00 per 100; 2 year old, \$5.00 per 100. SWEET ALYSSUM, 2 in., \$2.00 per 100. GERANIUMS, 3 in. fine sort, semi-double, \$4.00 per 100. Cash. E. FRYER, Johnstown, Pa.

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Golden Bedder, Crimson Verschaffelti and 15 others, R. C., 60c. per 100; \$5.00 per 1000. Coleus, Giant Fancy Leaves, \$1.00 per 100.

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Prices quoted are by the dozen or hundred.

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R. C., 76c.; 2 in., \$2.00.

REX BEGONIA, 2 in., \$3.00; 4 in., \$8.00. ASPERAGUS SPRENGERI, 2 in., \$2.00 per 100. ABACUSIAS, 60c. and 75c. each. CANNAS, Austria, \$1.50; America, \$1.60; D. Harum, \$2.00; Pennsylvania, \$1.50; K. Gray, \$3.00; Marborough, \$2.00; Italia, \$1.50; A. Bouvier, \$2.00; C. Henderson, \$2.00; Egandale, \$3.00 per 100.

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The finest leaf cuttings obtainable For delivery from May 1st, 2 1/2 in. pots \$12.00 per 100, \$100.00 per 1000.

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CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

REVIEW OF THE MARKET

NEW YORK.—The cut flower business is in about the same condition as last week. Supplies are fairly plentiful along all lines, too much so on yellow narcissus with little going on in the way of social events, and the most of the trade depending chiefly on what business comes through funeral work. Special grade American Beauty roses are perhaps not quite so plentiful as they were last week, and prices for these are holding about the same. With Bride and Bridesmaid roses values are, if anything, a little weaker. There has been no particular glut of carnations as yet, and taking all things into consideration, it can safely be said that carnations are holding their price as well as they usually do at this time of the year. Owing to a funeral that occurred in the ranks of the millionaire class, orchids have cleared up fairly well this week. Lilies are a trifle firmer, but tulips, lily of the valley, sweet peas, stocks, snapdragon, together with smilax and asparagus have experienced no change in prices since last report. A few violets are seen occasionally, but they only find their way to the buying public through the medium of the sidewalk merchant at 10c. and 15c. per bunch.

CHICAGO.—There are practically the same conditions in this market as existed a week ago, the prices in all lines holding slightly above the purchaser's inclination, as the local market has been rather on the non-receptive side, owing probably to the inclemency of the weather.

Shipping trade, though it has held good, has been more or less affected by the weakening of the local market. The special points worthy of mention are that stock of all kinds continues to come in good supply and everything holds up well for the season. The absence of peonies and lilac, which have been cut out by the frost, may tend to hold up other values, but that is not probable.

Trailing arbutus is now to be had in fairly good supply. As usual, the violet retires, as the supply becomes daily less reliable. W. K. W.

BOSTON.—There has been quite a slump in the past few days and it is feared that the fairly good prices which have been prevalent lately are now only history. Roses of all kinds are very plentiful and in quantities car be bought at ridiculously low prices. American Beauty run from \$1 for the smallest up to \$20 and \$25 for the long-stemmed grades. Other roses seldom reach over \$8, while the popular grades are \$2, \$3 and \$4. Richmond and some extra fancies bring as high as \$16. Carnations are selling low, \$1 to \$3 being the ruling price. Eubous stock from outdoors is now in large quantities, selling in 1000 lots at from \$2.50 to \$10. Lily of the valley brings \$1 to \$4. Lilies are still cheap. Sweet peas are plentiful; and fine snapdragon is seen. Gladiolus are getting plentiful, and there are several growers bringing in other specialties in small lots. J. W. D.

PHILADELPHIA.—There is a good supply of stock coming into this market and so far it is being cleaned up very nicely. Prices on some flowers are easier, but all the dealers are more inclined to clean out than in previous years. American Beauty roses are in good supply; for the very best flowers \$3 per dozen is obtained; but the 100s are offered at from \$15 to \$25. Tea roses are very plentiful; choice Richmond are selling at \$15 per 100; choice Liberty at the same price; Mme. Abel Chatenay bring \$10, top price, for the very best. The general stock of tea roses is selling at from \$3 up, and this stock is moving very slowly.

Carnations are in sufficient supply for all demands; \$4 per 100 is obtained for a few extra choice, but most of the stock goes at from \$2 to \$3. Sweet peas are much more plentiful and prices are easier; some extra good lavender varieties bring from \$1.50 to \$2 per 100, other stock from 50c. upwards. Antirrhinum majus is still a good seller. \$2 per 100 is obtained for the very best. Gardenias are very plentiful and are being sold as low as \$3 per 100. Cattleyas are cleaned up every day at \$50 per 100. Lilies are still in good supply, the best flowers bringing from \$6 to \$8 per

100. Daisies, white, realize \$1.50, yellow, \$2 per 100. Asparagus is in better supply and prices remain at 50c. to 75c. per bunch. Smilax is in limited supply and sells at \$20 to \$25 per 100. Lilac from Maryland is arriving this week; 25c. per bunch is the best price.

INDIANAPOLIS.—A heavier production of flowers, accompanied with a quantity of funeral work and lively counter trade, has made the past week a satisfactory one. Growers of bedding stock are impatiently waiting for more favorable weather to begin the planting season. The arrival of each day is expected to bring the proper temperature, but up to this time the minimum is at least 35 degrees. Several growers are sending lots of candytuft, Ten-week stocks and sweet peas to market; these aid materially in reducing the shortage of a week ago.

Carnations are still extremely scarce, but a crop is reported in many instances ere many weeks; fancy grades are wholesaling at \$4 to \$5 per 100, few are obtained under \$3. Harrisii lilies and callas are in steady supply at demand at \$10 to \$12.50 per 100.

The various roses of different grades have sold remarkably well of late. Bride and Bridesmaid are suffering in quality, going at \$4 to \$8 per 100; Mme. Abel Chatenay is the choicest pink at \$7 to \$10. This is certainly the season for Richmond, as it is now a most beautiful rose, bringing \$5 to \$12 per 100.

Wood violets in large bunches are found in the retail shops at 25c. per bunch. Little home-grown lily of the valley is to be had at \$4 per 100.

Tomlinson Hall market is enjoying a prosperous business, both wholesale and retail. Much of the choice stock is refused the store men to be held for retail trade later in the day. I. E.

ST. LOUIS.—The market in general has been somewhat quiet the past week, the trade complaining that the weather has been very unfavorable. The cold weather has kept the growers back; the retailers, too, had little to do except funeral work. The wholesale market is in good condition, with stock very plentiful in all grades and varieties, except carnations. These latter have been very scarce for the past two weeks, and not nearly enough are coming in to supply the demand, with prices up to \$4 and \$5 per 100 for choice; \$2.50 to \$3 for next best. The quality is very good for all wide varieties, Enchantress and Mrs. Thos. W. Lawson are in big demand.

In roses the market has been glutted all the past week in all varieties, including long, fancy American Beauty. All roses have been selling very cheap in 1000 lots, as low as \$5 per 1000 for Bride, Bridesmaid, Richmond and Mme. Abel Chatenay in the short grades; \$3 and \$4 per 100 for firsts, and \$5 and \$6 for fancy specials. There are more left over each morning than are sold.

The market has also been long on callas and Harrisii lilies; these are plentiful at \$8 and \$10 per 100. Sweet peas are becoming more abundant each day, and these, too, will be a glut soon. Lily of the valley is down in price; \$2 per 100 buys the very best in the market. Cape Jasmines are looked for this week from Texas, which will help out for funeral work. All greens are in plenty and of good quality, except fancy ferns; these are now up to \$4 per 1000, and poor at that.

COLUMBUS, O.—Cut stock of all kinds continues in short supply here, and will do so while the weather keeps as cold as it is. On the other hand, roses and carnations, in fact, everything in the market is especially good in quality, more active. There can be no question that the continued cold weather has wonderfully helped the cut flower trade here this Spring, as in other years at this season many society people have already begun to go away for the Summer months, which of course, is the beginning of the usual Summer dullness. Another factor the past week that has boomed the flower business has been the advertising done by the Columbus Floral Company in connection with their opening in connection with the office always that of last Saturday. I notice effective advertising, the whole craft benefits from the impetus given to the general sales.

THE METAIRIE RIDGE NURSERY COMPANY LTD.
NEW ORLEANS, LA.
GROWERS OF CHOICE CUT FLOWERS
Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.

The going price for good carnations is 75c. a dozen; in fact, for special selected Enchantress and Mrs. Thomas W. Lawson our growers are receiving up to \$5 per hundred from out of town dealers. In roses some choice Mme. Abel Chatenay and Richmond bring easily \$2 a dozen; one very fine lot of these with 24 to 30-inch stems was noted that brought as high as \$2.50 the dozen. Not before this year have American Beauty been so good, and as they can be sold at not exceeding \$5 or \$6 a dozen for the best of them, a large number has been worked off lately. Violets in any size bunch the customer wants at \$1 to \$1.50 a hundred; sweet peas at \$1 a hundred, and lily of the valley at 75c. a dozen, practically make the whole market in cut stock; as bulb stock is gone, and there are no outdoor flowers yet.

ST. PAUL.—Rain and snow have had a bad effect on the business the past week. Cut flowers have moved very slowly and the inclement weather has had a demoralizing effect on the market. Prices have dropped to some extent; good roses were offered at \$5 to \$7, fully a fall of \$1 and in some varieties \$2 per 100, which affected the retail figure. Carnations have kept up well, no doubt on account of their keeping quality. Funeral work with the larger dealers has been very heavy, the demand apparently coming from outside towns.

All of the growers are making big preparations for Memorial Day. There appears to be a considerable increase in flowering plants. Every grower has planted and will have in shape for Memorial Day fully 25 per cent. more than in previous years. The weather has been so bad that there has been no demand as yet; the call appears to be more for nursery stock than anything else, and notwithstanding the mean weather considerable planting has been accomplished. PAUL.

CHANGES IN BUSINESS.

SHREVEPORT, LA.—John Monkhouse & Son have opened a branch store on Texas Street.

MECHANICSBURG, O.—The J. E. Wing & Bros. Seed Company has been incorporated, with a capital stock of \$30,000, by Joseph E. Wing, Willis C. Wing, Charles E. Wing, Janette Wing and T. M. Clemans.

MEXICO CITY, MEX.—J. Balme Hijo has, by mutual consent, withdrawn from the firm of J. Balme & Company and is now in business for himself at 24 Coliseo Viejo. He deals in Mexican plants, seeds, bulbs, orchids, cacti, etc.

WOONSOCKET, R. I.—Thomas H. Greene, proprietor of the Summit street greenhouses, has sold houses and business to Jonas Brooks. Mr. Green has taken this step in order to devote his attention to the affairs of the Woonsocket Napping Machinery Company, of which he is president.

OAKLAND, CAL.—Clarke Brothers of Portland, Ore., and Seattle, Wash., have opened a store at Twelfth and Clay streets in this city. A great deal of time and expense makes this store one of the finest in the West. The walls are lined with mirrors, giving a maze effect, while at night the effect is accentuated by cut glass globes on the electric lights, which line the walls and hang in clusters from the ceiling.

FIRMS WHO ARE BUILDING

AUSTIN, MINN.—A. N. Kiusman finds that his present greenhouse capacity is not sufficient and has commenced two more large houses 31x148 feet and 29x148 feet for roses. He expects to have the houses completed by July 1.

NORTH WALES, PA.—The building operations of the Florex Garden Company, who purchased the Beaver farm, are going on actively with a large force of men. One large greenhouse is being glazed; the monster rose house, 700 feet long by 104 wide and 32 feet high, is fairly under way. The latter will be planted exclusively to American Beauty roses. A large office building, refrigerating plant and boiler house are also in process of erection.

Columbus, O.

Trade Notes.

The cold weather continues; that is, it does not get warmer than 50 degrees during the day, and we still have freezing weather at night. Nevertheless all branches of the trade showed improvement the past week, as everyone feels that it must now in a few days anyway warm up.

Saturday last the Columbus Floral Company opened its new store at 187 South High street to the public. The establishment was very effectively decorated for the occasion, which had been extensively advertised in both our American and German papers. Some good music, both afternoon and evening, was a feature. Every visitor was presented with a nice little plant of Asparagus Sprengeri. The new firm will make a specialty of funeral designs, and decorative work for social functions. The Columbus Refrigerator Company furnished the icebox, counters, and other fittings.

Graf Brothers have had an unusually busy week; especially well have Marie Louise violets sold with them at \$1 a hundred. Both Samuel Graf and James McKellar have had their hands full, as William Graf has been in Chicago all the week buying stock.

Mrs. E. M. Krauss is as fast as possible getting things to rights at her new location number, 109 South High street. She says that she already feels the benefit of being inside the so-called shopping district.

Fred Windmiller made us a flying visit last week, much to the pleasure of his many friends in this city. Mr. Windmiller, who is now with the Cleveland Cut Flower Company, for years had charge of the Livingston Seed Company's greenhouses here.

W. L. Meeks has had an especially good season in all lines of nursery stock which he handles; he began planting out stock two months ago, and the end is not yet in sight.

Gustave Drobisch has been the past week making very large sales of bedding plants at his stand on the Central Market. Potted roses in all hardy varieties are especially in demand.

The trade are all laying plans for the usual great Memorial Day business; but it looks now as if an absence of outdoor stock would very much curtail the usual profits. F. W.

News Notes.

The Munk Floral Company was organized here with a capital of \$20,000 by O. A. Munk, H. M. Munk, Lida P. Munk and Marietta C. Park, of Columbus, as incorporators. As outlined in the incorporation papers the company will build and operate greenhouses, and deal in flowers and plants.

Among the important improvements of the season are those of Sherman F. Stephens at Green Lawo. Mr. Stephens is erecting one extension, 26x50 feet, and another new house, 22x122 feet, which will have for side walls a concrete composed of cinders and Portland cement. While the first cost may be some more than woodwork, the construction, Mr. Stephens thinks, will be more satisfactory, especially as it will be so much more durable.

Mr. Runk, the well-known flower and vegetable grower on the west side of the river just beyond the city limits, is figuring on increasing his glass capacity by the erection of a large house in the near future. B.

CATALOGUES RECEIVED.

HOMMO TEN HAVE, Westerlee, Groningen, Holland.—Price List of Flower and Vegetable Seeds.

W. R. GRAY, Oakland, Va.—Illustrated Catalogue of Roses, Chrysanthemums, Carnations, Dahlias, and other plants.

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Wholesale Prices of Cut Flowers, New York, May 8, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy--special....	10.00 to 20.00	extra	5.00 to 10.00	Carnations	inf'r grades, all colors.....	1.00 to 1.50
	" No. 1	6.00 to 8.00	" No. 2	4.00 to 6.00	STANDARD	(White	1.00 to 2.00
	" No. 3	4.00 to 6.00	" No. 8	1.00 to 3.00	VARIETIES	Pink	1.00 to 2.00
	Bride, Maid fancy--special....	5.00 to 6.00	" extra	3.00 to 4.00	" *FANCY--	White	2.00 to 4.00
	" extra	2.00 to 3.00	" No. 1	1.00 to 2.00	(The highest grades of	Pink	2.00 to 4.00
	" No. 1	1.00 to 2.00	" No. 2	1.00 to 2.00	standard var)	Red	2.00 to 4.00
	Golden Gate	2.00 to 10.00	" Golden Gate	1.00 to 2.00	1 NOVELTIES	Yel. & Var.	2.00 to 4.00
	RICHMOND	1.00 to 3.00	Mme. Abel Chateauy	1.00 to 6.00	FREESIAs, per doz bunches	White	4.00 to 5.00
	ADIANTHUM	.50 to 1.00	"	.50 to 1.00	LILAC, per bunch	Red	.75 to 1.00
	CROWNEANUM	1.00 to 1.50	ASPARAGUS	25.00 to 50.00	LILIES	Yel. & Var.	6.00 to 8.00
	" Plumosa bunches	15.00 to 25.00	" Sprenger, bunches	15.00 to 25.00	LILY OF THE VALLEY	White	1.50 to 3.00
	"	15.00 to 25.00	"	15.00 to 25.00	MIGNONETTE	Yellow	4.00 to 5.00
	CALLAS	6.00 to 8.00	"	15.00 to 25.00	NARCISSUS	Yellow	.50 to 1.00
	CATLEYAS	40.00 to 60.00	"	15.00 to 25.00	ROMAN HYACINTHUS	White	12.00 to 15.00
	CYPRIPEDIUMS	12.00 to 15.00	"	15.00 to 25.00	SMILAX	White	1.00 to 1.50
	DAISIES	1.00 to 3.00	"	15.00 to 25.00	SWEET PEAS, per doz. bunches	White	.50 to 1.00
			"	15.00 to 25.00	TULIPS	White	1.00 to 2.00

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ALL VARIETIES OF CUT FLOWERS IN SEASON

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TELEPHONE, 1462-1463 MADISON SQUARE
CUT FLOWERS AT WHOLESALE



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CONSIGNMENTS SOLICITED

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Consignments of Choice Flowers solicited

Washington, D. C.
Washington, like most other cities, is having a very backward Spring, and the unseasonable weather seems prone to continue. Much inconvenience has been caused by the cold and rain, especially to the growers, some of whom have not yet finished planting carnations.
The supply of flowers has increased somewhat since last week, with the exception of carnations, which still remain scarce. Prices are above the seasonal average. All classes of bedding plants are beginning to sell, geraniums holding their usual place in public favor.
On May 2, the large equestrian statue of General George B. McClellan was unveiled. The entire statue was covered from view of the spectators by two enormous American flags so arranged that at the appointed moment they were withdrawn to either side by invisible wires, leaving the statue in full view. The decorations of the grand stand were of American flags fastened at either end to the rafters, and caught in the centers by miniature garlands or shields. In front of the platform from which President Roosevelt spoke were hung garlands and wreaths. Fred D. Owen arranged the decorations, assisted by Gude Brothers Company. JAS. L. CARBERY.

DAYTON, O.—The florists of Dayton have positively refused to fill any vases in the cemeteries this season, for the following reasons: First, for years the vases have been filled at a loss; second, the Cemetery Association does not give proper care to the plants and the florists get the blame; third, labor is higher than ever before; men who used to work for \$10 and \$12 per week, demand and get \$15 and \$18 per week, so the labor is more expensive for the florist. For these reasons many vases will go unfilled this season. M.

S. S. Pennock=Meehan Co.

The WHOLESALE FLORISTS OF PHILADELPHIA

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**ROSES and
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Stock of **BEAUTIES** of the Choicest
Quality

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Fancy Roses
Carnations
Yellow Marguerites

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Wholesale Prices of Cut Flowers—Per 100

Boston May 6, 1907	Buffalo May 6, 1907	Detroit May 6, 1907	Cincinnati May 6, 1907	Baltimore May 6, 1907	Milwaukee May 4, 1907	Phil'delphia May 6, 1907	Pittsburg May 6, 1907	St. Louis May 6, 1907
20.00 to 25.00	20.00 to 25.00	50.00 to 60.00	..... to 30.00	..... to	A. BEAUTY, fancy—special.....	..... to 25.00	25.00 to 35.00	20.00 to 25.00
10.00 to 20.00	15.00 to 20.00	40.00 to 50.00	..... to 20.00	25.00 to 30.00	..... extra.....	15.00 to 18.00	15.00 to 20.00	10.00 to 15.00
6.00 to 10.00	8.00 to 15.00	30.00 to 40.00	..... to 10.00	12.50 to 20.00	..... No. 1.....	8.00 to 12.50	12.00 to 15.00	6.00 to 8.00
1.00 to 6.00	3.00 to 5.00	20.00 to 30.00	..... to	5.00 to 10.00	..... Onia and ordinary.....	4.00 to 6.00	8.00 to 10.00	3.00 to 4.00
6.00 to 8.00	7.00 to 8.00	3.00 to 10.00	..... to 6.00	..... to 8.00	BRIDE, 'MAID, fancy-special.....	..... No. 1.....	8.00 to 10.00	8.00 to 10.00
2.00 to 6.00	6.00 to 7.00	..... to .....	..... to 5.00	..... to 7.00	..... extra.....	..... No. 2.....	6.00 to 8.00	6.00 to 8.00
1.00 to 2.00	4.00 to 6.00	..... to .....	..... to 2.00	3.00 to 4.00	..... No. 1.....	..... No. 2.....	4.00 to 6.00	4.00 to 5.00
1.00 to 2.00	2.00 to 4.00	..... to .....	..... to 2.00	3.00 to 4.00	..... No. 2.....	..... No. 2.....	4.00 to 5.00	2.00 to 3.00
..... to .....	..... to .....	..... to .....	..... to 2.00	6.00 to 8.00	GOLDEN GATE.....	..... to 3.00	..... to .....	..... to
..... to	3.00 to 7.00	..... to .....	..... to 2.00	6.00 to 8.00	K. A. VICTORIA.....	4.00 to 6.00	4.00 to 10.00	2.00 to 6.00
..... to	3.00 to 6.00	..... to .....	..... to 4.00	4.00 to 8.00	LIBERTY.....	..... to 6.00	4.00 to 10.00	2.00 to 6.00
..... to .....	..... to	2.00 to 8.00	..... to .....	..... to	METEOR.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to	PERLE.....	..... to	4.00 to 10.00	2.00 to 5.00
..... to	3.00 to 6.00	..... to .....	..... to .....	..... to 4.00	ORCHIDS—Cattleyas.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 1.50	..... Inferior grades, all colors.....	..... to .....	..... to .....	..... to
..... to	1.50 to 4.00	..... to .....	..... to .....	..... to 2.00	Standard Varieties.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 2.50	..... White.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 2.50	..... Pink.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 2.50	..... Red.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 2.50	..... Yellow and var.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	Fancy Varieties.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	..... Pink.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	..... Red.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	..... Yellow and var.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	Novelties.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	ASPIANTUM.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	ASPIANTUM, Plum. and Ten.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	Sprengerl bunches.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	CALLAS.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	DALISIES.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	LILIES.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	LILY OF THE VALLEY.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	MIGNONETTE, ordinary.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	..... fancy.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	SMILAX.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	VIOLETS, ordinary.....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to 3.00	..... fancy.....	..... to .....	..... to .....	..... to

Baltimore, Md.

Washington Wins the Cup.
The florist teams of Washington and Baltimore met on the Monarch bowling alleys on Friday, May 3, to roll the last series of games for the Baltimore Gardeners' Club cup, with the result that Washington won the cup with 2346 pins against Baltimore's 2237 for the three games. Philadelphia did not appear, but they had a representative in Dennis T. Connor, who was present in Baltimore on business. A luncheon was served for 40 by Caterer Wolf before and after the games. Speeches were delivered and the cup was repeatedly filled. The only damper on this occasion was the non-appearance of our Philadelphia friends. A number of members of the Gardeners' Club were present and all enjoyed themselves.
Cyrus S. Bradley, proprietor of the Monarch bowling alley, has offered a cup to be bowled for by the Philadelphia, Washington and Baltimore teams.
George Cooke of Washington brought with him several dozens of the new rose—Columbiana—originated by W. S. Clark of that city. It is a dark pink, a good color, much deeper than that of a bridesmaid. The variety, which is a seedling from Mme. Abel Chatenay and Liberty, has an excellent stem and is an exceptionally good keeper.
C. L. S.

St. Paul.

News Notes.
Colberg & Lemke have dissolved partnership. Mr. Colberg is now with Holm & Olson, while Mr. Lemke continues to run the place alone.
C. F. Vogt has been very busy; in connection with the florist business he is handling a heavy line of nursery stock.
A great many florists are making a specialty of landscape work; considerable activity is displayed. One of our daily papers has been devoting a full page to horticultural matters every week, which has worked up considerable enthusiasm.
PAUL.

HUDSON, MASS.—A. M. Pitt of the firm of Pitt & Croucher, died April 21, aged 65 years. He had been in business in Hudson 20 years. Oliver Croucher succeeds to the concern and will continue it as formerly.

BOSTON, MASS.
WELCH BROS.
PROPRIETORS
CITY HALL CUT FLOWER MARKET
226 Devonshire Street.
Kaiserin Carnots Orchids Valley Carnations Violets
Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268

EDWARD REID
Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Bet. Market and Chestnut Streets.
CHOICEST STOCK ALWAYS ON HAND
Telephone: 1-42-26-A.

PHILADELPHIA CUT FLOWER CO.
WHOLESALE FLORISTS
1516-18 SANSON STREET
High Grade Cut Flowers
Open Evenings until 8.

Headquarters in
WESTERN NEW YORK
For Roses,
Carnations
And all kinds of Seasonable Flowers.

WM. F. KASTING
Wholesale Commission Florist
Also dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St. BUFFALO, N. Y.
Give us a trial. We can please you.

CARNATIONS

COOL GROWN, WELL ROOTED CUTTINGS, FOR IMMEDIATE OR LATER DELIVERY
White Perfection (The grandest White of them all). Per 100 \$5.50, per 1000 \$50.00.
Bountiful. Per 100 \$2.75, per 1000 \$25.00.
Echantrea. Per 100 \$2.00, per 1000 \$18.00.
Book orders now. Quality guaranteed. If you don't like them we pay express both ways.
Catalogue Free. Wholesale Cut-Growers and Florists' Supplies 46-47-49 Wabash Ave., Chicago, Ill.
E. F. WINTERSON & CO.

Be your own Commission Man THE FLOWER GROWERS MARKET furnishes the facilities See PERCY JONES, Mgr. 60 Wabash Ave. CHICAGO

THE BUSIEST HOUSE IN CHICAGO J. B. DEAMUD CO. Wholesale Cut Flowers 51 Wabash Av., CHICAGO Consignments Solicited

WIETOR BROS. WHOLESALE GROWERS OF CUT FLOWERS All telegraph and telephone orders given prompt attention. 51 Wabash Ave., CHICAGO

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

CHICAGO ROSE CO. Rose Growers and Commission Dealers of Cut Flowers FLORISTS' SUPPLIES Wire Work our Specialty 56-58 Wabash Ave. Chicago

Zech & Mann Wholesale Growers and Shippers of CUT FLOWERS 51 Wabash Ave., CHICAGO. Room 218. L. D. Phone 324 Central

PETER REINBERG Wholesale Cut Flowers 51 Wabash Ave., CHICAGO, ILL. Headquarters for American Beauty Rose

SINNER BROS. WHOLESALE CUT FLOWERS 60 Wabash Ave., Chicago. Careful attention to all SHIPPING ORDERS.

A. L. RANDALL CO. Western Headquarters for Up-to-Date Florists' Supplies Write for Catalogue No. 19 RANDOLPH ST., - CHICAGO.

GEO. REINBERG Wholesale Grower of Cut Flowers CHOICE AMERICAN BEAUTY ROSES We will take care of your orders at reasonable prices. Prompt attention, 35 Randolph Street, CHICAGO, ILL.

J.A. BUDLONG 37-39 Randolph Street, CHICAGO. Wholesale CUT FLOWERS

Wholesale Prices of Cut Flowers, Chicago, May 7th, 1907 Prices quoted are by the hundred unless otherwise noted

Table with columns for ROSES (American Beauty) and various stem lengths (36-inch to 12-inch) and prices per doz.

Table with columns for CARNATIONS (White, Pink, Bed., Yellow & var., etc.) and prices per 100.

Poehlmann Bros. Co. Wholesale Growers of and Dealers in Cut Flowers. All telegraph and telephone orders given prompt attention. Greenhouses: 35-37 Randolph St. MORTON GROVE, ILL. CHICAGO.

ST. PAUL, MINN. Send us your Orders for delivery in the Northwest, which will have our best attention. L. L. MAY & CO., Florists, St. Paul, Minn.

HOLTON & HUNKEL CO. WHOLESALE FLORISTS and FLORISTS' SUPPLIES Manufacturers of WIRE DESIGNS 457 Milwaukee St., MILWAUKEE, WIS. Phone, Main 874. P. O. Box 103

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES C. C. Pollworth Co. MILWAUKEE, WIS. Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

Chas. W. McKellar ORCHIDS FANCY VALLEY, ROSES, CARNATIONS, and all CUT FLOWERS and GREENS 51 Wabash Ave., Chicago

VAUGHAN & SPERRY Wholesale Florists Valley, Carnations and Roses 58-60 WABASH AVE., CHICAGO.

William Graff of Graff Brothers was in last week from Columbus, Ohio, where he reports business in excellent condition.

F. Lautenschlager, representing Kroeschell Brothers, is about to leave on an extended Eastern trip. Horace Cheeseman returned to headquarters a few days ago at Vaughan's Seed Store from a trip through the South and Southwest and reports an increase of business above 25 per cent. over his last year's trip through the same territory.

The opening of the season, presumably preparing for the picnic between the retail and the wholesale baseball clubs, occurred at Washington Park on Sunday last.

George Asmus is on the sick list this week. P. J. Hauswirth was at Moline, Ill., for a few days, the early part of the week.

Although the new crop of amilax from the South is still soft the J. B. Deamud Company is still prepared to furnish some perfect stock out of storage.

At E. H. Hunt's the call for that little pamphlet entitled "Wise Words," and "About the Most Profitable Thing on Earth," is still going on. Send for it, and you will be repaid.

At Winterson's Seed Store everything appears to be progressing very nicely, the last car load of importations from Holland having been readily disposed of.

Edgar Sanders, who has been suffering from a slight indisposition, is now fully recovered, and is as bright and cheerful as ever.

Recent visitors included: Eli Cross and Mr. Scott of Cunningham & Scott, Grand Rapids, Mich.; A. E. Lutey, Houghton, Mich.; A. L. Glaser, Duquesne, Pa.; and S. Groot of Sluis & Groot, Enkhuizen, Holland. W. K. Wood.

Cincinnati, O. News Items.

During the past week we have been having an unusual amount of cold and gloomy weather. Roses still hold up well, but carnations are very scarce. Business is very good for May, so far.

Tuesday noon C. J. Ohmer left on the Shriner special train for Los Angeles. Postal cards from points along the route tell of snow storms.

Martin Reukauf was in the city doing lots of business during the week. He is very enthusiastic regarding the far Northwest, and says Seattle, Spokane and Portland are the places to live in and make money. "Go West, young man, go West."

I was very much pleased this morning upon picking up the Commercial Tribune to see that the efforts of the S. A. F. O. H. were bearing fruit, and that the United States Express Company, which has been charging \$1 per 100 pounds from Jersey points to New York, had been ordered to reduce same to 60 cents. So much for the Inter-state Commerce Commission. The order of the commission requires the United States Express Company to cease charging \$1 per 100 after the 15th day of June, and directs said company, on or before said date, to put in a 60-cent rate from Chatham and Somerville, N. J., to New York. Now, I hope the powers that be will not rest here, but see to it that reduced rates are given by all express companies doing business in any portion of the United States.

Here is a chance to show the knockers that the S. A. F. O. H. does amount to something, and if they are not already members, they should have pride enough to join the organization. E. G. G.

Indianapolis, Ind. News Notes.

Miss Madge Krauer, formerly with the Little Rock (Ark.) Flower Company, has accepted a position with Bertermann Brothers Company.

The Smith & Young Company is transplanting very large trees at the Cumberland establishment; the outcome is awaited with interest.

The extensive tulip and hyacinth beds in Crown Hill Cemetery, unlike most other flowers this season, have been sheltered by the surrounding thickets and are very beautiful.

The State Florists' Association held its monthly meeting at the State House, May 6. Routine business was followed by discussions on current topics.

E. A. Nelson is sporting a new motor cycle. I. B.

Chicago. News Notes.

The eccentricities produced by the weather bureau last week again broke all previous records, when on Friday a blizzard reached the city accompanied with freezing weather and about an inch of snow. The reports from all parts of Illinois and neighboring States are most discouraging as to the prospective fruit crop; and it can not be hoped that early hardy herbaceous stock, such as peonies, which constitute an important factor in this market, has fared much better. Lilac and other early shrubs have suffered severely.

E. T. Wanzler of Wheaton, Ill., was found last week preparing to grow this Summer one hundred thousand aster plants, some of which for the purpose of extending the season will be grown in hotbeds.

Anton Then will this season replace two carnation houses with roses, including Bride, Bridesmaid, Killarney and Richmond.

Heim Brothers of Blue Island have broken ground for a new house, 40x200 feet, to be devoted to carnations, including several of the new varieties.

Miss Bessie Halliday, bookkeeper for Scheiden & Schoos, has returned from her recent visit to her former home in Texas.

Canger & Gormley have taken the next store to the south of their old stand, which they used in conjunction with it at Easter time.

Work on Fred Weber's two new American Beauty houses at Bowmanville is rapidly nearing completion.

As the height of the mushroom crop draws to a close it is reported not to have been an altogether satisfactory season in this vicinity, though one concern gathered upward of 250 pounds on one day last week.

Superintendent Warden of Lincoln Park has been enjoying a fishing trip in Wisconsin.

MEMORIAL DAY



Hardy Cut **DAGGER** and **FANCY FERNS** \$2.00 per 1,000
 Brilliant **BRONZE** and **GREEN GALAX** \$1.00 per 1000, Lots of 10,000 \$7.50
BOUQUET GREEN \$7.00 per 100 lbs. **LAUREL FESTOONING**, good and full
BOXWOOD 20c per lb. 5c. and 6c. per yd.
LEUCOTHOE SPRAYS \$1.00 per 100 **LAUREL WREATHS** \$3 per doz.
BRANCH LAUREL 50c. per Bunch

Headquarters for all Florists' Supplies, such as Wire Designs, Cut Wire, Letters of all kinds, Immortelles, Cycas Leaves, Sheaves of Wheat, Ribbons, Boxes—Folding, Blue and Corrugated, etc.

TO AVOID DISAPPOINTMENT PLACE YOUR ORDERS NOW

HENRY M. ROBINSON & CO.

L. D. Telephone, Main 2618

8 & 11 Province Street, BOSTON, MASS.



Hanging Baskets

State quality wanted and I will be pleased to quote prices.

WM. E. HIELSCHER

WIRE WORKS

38 MIAMI AVE.

DETROIT, MICH

Fancy or Dagger Ferns



Dagger Ferns, \$1.50 per 1000
 Fancy Ferns, \$1.75 per 1000
 Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
 Boxwood, No. 1 Stock, 50 lb. cases, \$8.50
 Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
 Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
 Southern Smilax, fancy stock, 50 lb. cases \$5.60
 Laurel Branches, 35c. per bundle

Telegraph Office: New Salem, Mass.

Long distance telephone connections

GROWL FERN CO., MILLINGTON, MASS.

The Headquarters for All Florists' Supplies

IS IN

BROOKLYN at 76 COURT ST.

We carry a full line of staple goods, as well as an abundance of

NOVELTIES

In fact we have every requisite used by the retail florist.

WRITE FOR PRICES.

HICKS & CRAWBUCK, Inc., 76 Court St., Brooklyn, N.Y.
 Tel. 3660 Main.

EXTRA FINE FANCY AND DAGGER FERNS

\$2.50 per 1000. Discount on large orders. Leucothoe Sprays, \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE
 Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season
38 & 40 Broadway. Formerly **DETROIT, MICH.**
 Send for our weekly price list on Cut Flowers.

REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery
 New York Agents for Caldwell's, Monros, Ala., Farlor Brand Smilax.

All the advertisements in THE FLORISTS' EXCHANGE are inserted under instructions from the advertisers.



WITTBOLD'S Combination Vase and Plant Stand

Has been used for the past 15 years and has proved itself an invaluable asset to the decorator.

Price \$18.00 per dozen

The Geo. Wittbold Co.
 1657 Buckingham Place
 CHICAGO

CUT FLOWER BOXES

Waterproof corner lock style. The best and dearest cut flower box on the market to-day.

No.	Per 100	1000	No.	Per 100	1000		
0	3x4x20	\$2.00	\$19.00	6	4x3x25	3.75	36.00
2	3x6x18	2.20	20.00	9	5x10x35	6.50	64.00
4	3x5x24	2.75	26.00	11	3x5x30	3.50	32.50

The above boxes are a few of our leading sizes. A complete list of all the sizes we manufacture mailed free on application. Add 50c. for printing on an order for 100 boxes, and 75c. for 200 boxes. No charge for printing on an order of 300 boxes, or over. Sample card board free on application. Terms cash with order.

The LIVINGSTON SEED CO., Columbus, Ohio.



THE BEST WAY to collect an account is to place it with the **National Florists' Board of Trade**

56 Pine St., New York
WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

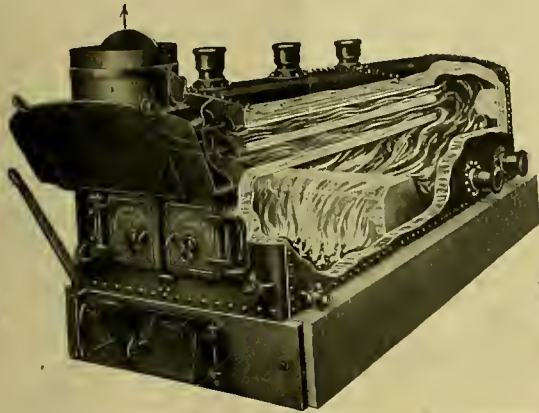
W. J. COWEE, BERLIN, N. Y.

Sample free. For sale by dealers.

SOUTHERN WILD SMILAX
BEAVEN'S FADELESS MOSS
NATURAL SHEET MOSS
E. A. BEAVEN, Evergreen, Ala.

SEE HOW WELL THEY LIKE ME

150 New Establishments with 2,158,000 square feet of glass have installed this boiler in 1906

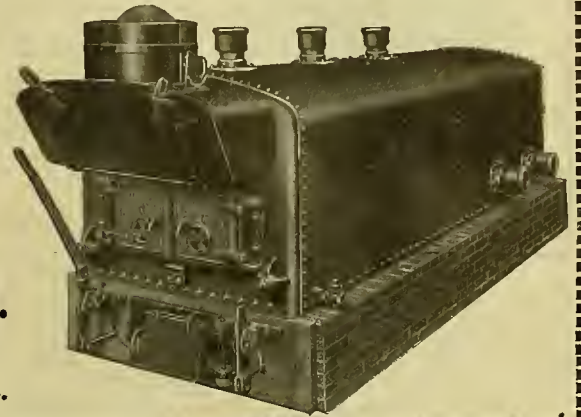


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Get
Acquainted with the
Men who know

Catalogue and Prices on Application.

KROESCHELL BROS. CO.

33 Erie Street,
CHICAGO, - - - ILL.



Albany, N. Y.

Florists' Club Organized.

The Albany Florists' Club held its first annual banquet in the grille room of the Hampton on Monday, April 29, 1907. The function was attended by thirty-four representative florists in Albany and immediate vicinity. The banquet and gathering proved so successful that a permanent organization was effected, which will hold meetings monthly and from time to time conduct events of a social character.

The officers elected for the ensuing year are: President, William C. King; first vice-president, Edward F. Meany; second vice-president, Frank M. Briare; treasurer, William C. Kurth; secretary, Thomas F. Tracy; committee on by-laws and board of trustees, Patrick Hyde, chairman; Henry Barthel, Fred Henkes, Fred Goldring, and Patrick K. Morrissey.

After the members had disposed of the substantial menu speeches were in order. Fred. Henkes, president of the temporary organization which was formed of local florists last Summer, gave a review of the circumstances and incidents of the past year that led up to the banquet and formation of the permanent organization just effected. Mr. Henkes emphasized the fact that Albany is a field well adapted to the organization of a florists' club and gave an interesting account of the flourishing florists' club at Utica which annually holds a ball and a banquet which have now become functions of moment. Frederick Goldring of Slingerlands, the oldest grower in this section at the present time, gave an interesting account of his experience as a grower of flowers during the past thirty-nine years, eleven years in England and twenty-eight years in this country. Mr. Goldring's suggestion was that the club meet once a month for the exchange of ideas and experiences as well as for the purpose of hearing addresses on matters of interest to the craft.

Short addresses on the welfare of the organization were made by Fred. A. Danker, William C. Gloeckner, William C. Kurth, Frank M. Briare, Henry Barthel, Patrick K. Morrissey, Thomas F. Tracy, Edward Tracy, and others who made impromptu responses.

Those present included: Fred. A. Danker, William C. King, William C. Gloeckner, William Hannel, Watervliet; Patrick Hyde, Frank M. Briare, George Russell, Henry Barthel, James Conley, John Murnane, Jr., Frank Keeler, Thomas Snare, Edward F. Meany, William C. Kurth, Louie Marx, John Nealson, John Maloy, James J. Karins, Philadelphia; Edmund S. Hazletine, Thomas F. Tracy, Fred. Henkes, Watervliet; John Boots, Philip Warner, Newtonville; Henry Long, John Henkes, Watervliet; C. J. McDonough, Thomas McAllister, Patrick K. Morrissey, Arthur



The Whilldin Pottery Co. STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate	Price per crate	
1500 2 1/2 in. pots in crate, \$4.38	120 7 in. pots in crate, \$4.20	
1500 2 3/4 " " " 5.25	60 8 " " " 8.00	
1500 2 3/4 " " " 6.00	HAND MADE	
1000 3 " " " 5.30	48 9 in. pots in crate, \$3.60	
800 3 1/2 " " " 4.80	48 10 " " " 4.80	
600 4 " " " 4.50	24 11 " " " 3.60	
420 5 " " " 4.51	24 12 " " " 4.50	
144 8 " " " 8.16	12 14 " " " 4.80	
	6 16 " " " 4.60	

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts., 31 Barclay St., N. Y. City

King, John Haggerty, Henry Latham and John A. Hoye, Jr., and Fred. Goldring.

The committee in charge of the banquet was composed of Patrick Hyde, chairman; William C. Gloeckner and William C. King.

The club will during the Summer make arrangements for holding a clam bake and in addition to holding functions of a social character will endeavor from time to time to carry out measures of benefit to the members.

SAGINAW, MICH.—The Wm. Roethke Floral Company is making active preparations to improve the landscape surrounding their downtown place, corner of Michigan and Adams. The progress of the work is watched with interest. The only drawback to the success of the plan is the vicious habits of the vandals who take fiendish delight in destroying the beautiful or moving the movable. If their rapacity can be curbed the ground on three sides will become a thing of beauty.

....Send for Particulars....
REGARDING

Tobakine Products

"THEY KILL BUGS"

"Flowers and Profits"

is a profitable and interesting booklet.

E. H. HUNT, General Agent
76-78 Wabash Avenue, Chicago, Ill.



THE BEST
Bug Killer and
Bloom Saver

For PROOF
Write to

P. R. PALETHORPE CO.
LOUISVILLE, KY.

Sheep Manure

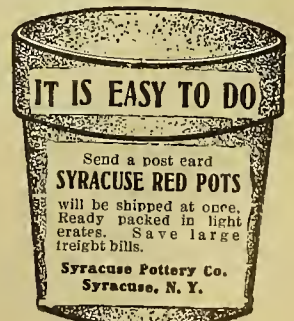
Pulverized, Free from all Adulteration.
In Bag, \$18.00 per Ton.

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Clifton, N. J.

IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.



Send a post card
SYRACUSE RED POTS
will be shipped at once.
Ready packed in light
crates. Save large
freight bills.
Syracuse Pottery Co.
Syracuse, N. Y.



ARE YOU LOOKING FOR TROUBLE?

The kind of trouble that comes with wooden eave plates and the all-cypress house—the kind of trouble that grabs your profits for repairs and then keeps you repairing, repairing and more repairing. If you enjoy that kind of thing and like to spend money that way, then our steel eave and roof bar bracket would last too long, it would let too much light in your house. Some day when you are ready for modern materials and construction, you'll find us ready for you. Your letter will be answered at once.

HITCHINGS and COMPANY

GREENHOUSE DESIGNERS AND BUILDERS. Manufacturers of Heating and Ventilating Apparatus

1170 Broadway, New York



The way interior of a steel eave house looks

St. Louis, Mo.

News Notes.

Joe Marks, representing A. L. Randall Company of Chicago, spent a few days with the trade, in company of Will Smith, an old Milwaukee chum of his.

Wm. F. Adles is back in business again this time with the Foster Floral Company at its new store, 909 Olive street.

Wm. Schray's Sons furnished the decorations for the Tansig golden wedding the past week. This was one of the largest decorations made in this city for a long time. Mr. Tansig is president of the Terminal Railroad Association. Yellow flowers were in great demand on that day.

Oscar Hiele, the South Broadway florist, had his horse and wagon stolen the past week, but the outfit was returned to him the next day with but little damage.

Andrew Meyer, Jr., has again been appointed city forester by Mayor Wells. His last term only lasted one year; this time he will hold office for four years. William Jordan, son of the late J. M. Jordan, is his assistant.

George Ostertag, the present superintendent of public parks, it is said will be retained by the new park commissioner. There are a number of applicants for the position.

The trustees of the Florists' Club held a meeting last week to arrange all details for the club's twentieth anniversary. They have engaged the new Hibernian Hall at Grand and Finney avenues for the night of June 29. This being Saturday night, it will be a stag all the way through. There will be a performance with singing, dancing and speech making, which should keep the crowd until the small hours in the morning; in fact, there will be something doing every minute of the night, and those who do not come will miss the treat of their lives. Notices will be sent every member of the club.

On last Monday night a special howling match was arranged between Messrs. Beyer, Kuehn and Lorenz and Schriener at the De Soto alleys, which resulted in the defeat of Kuehn and Beyer. ST. PATRICK.

New Orleans, La.

News Notes.

At the McDonogh Day celebration by the school children of New Orleans on May 3, large quantities of flowers were used principally of outdoor growth. The designs were nearly all wreaths, the most appropriate design for such an occasion. The mound at the foot of the monument was entirely covered with bouquets.

J. F. Dubois, who is located on Green street adjoining the Carrollton Cemetery, is preparing to build two greenhouses, 100 feet long, with office and smaller greenhouse connecting.

J. A. Newsham took possession of the Half Way House Nurseries on May 1. Mr. Newsham contemplates sinking an artesian well and making other improvements.

C. Holst and Eugene Bordenit, late proprietors of the Half Way Nurseries, left for a week's visit to St. Louis, after which they will return to New Orleans, wind up their business affairs, and sail for Europe to reside there permanently. CRESCENT CITY.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St.,
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

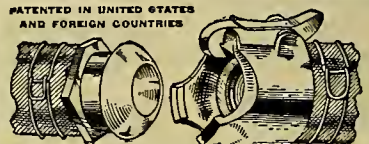
GREENHOUSE GLASS
ALL SIZES
16x24 A. & B. Double a Specialty
C. S. WEBER & Co.,
10 Desbrosses St., New York

FREE HOSE
trial. We send our "Florist" hoses on 60 days trial, if not satisfactory return and we pay charges both ways. Wrought iron pipe lasts longer than steel. Get our prices on Guaranteed wrought iron pipes. Send for Free catalogue "Ksy" boilers, Ventilating apparatus, Tools, Valves and Fittings.
WILLIAM H. KAY, COMPANY,
244 Fulton Street, - - New York City.

All NURSERYMEN, SEED and FLORISTS
wishing to do business with Europe should send for the

"Horticultural Advertiser"
EDITORS OF THE "H. A."
Chilwell Nurseries, Lowdham, Notts
European Agents for THE AMERICAN CARNATION

An elderly gentleman, who was a zealous supporter of total abstinence, was sincerely shocked at his head gardener indulging rather frequently in whisky. "Ah, Duncan, Duncan!" he exclaimed on one occasion, "I am grieved to notice the smell of whisky in your breath again. Now, I am sure you never detect that smell in mine." "That's true, sir," replied Duncan, admiringly. "What dae you tak' to hide it?"



A solid brass casting, made as shown or threaded to fit ordinary hose couplers and faucets. Hose can be coupled and uncoupled in any position with one hand. The washers are stationary and will last years. A half minute saved every time you change hose.

\$3.00 per doz. sets, two pieces.
\$2.25 per dozen females for faucets.
Discount on gross lots.

EMIL GLAUBER,
MONTCLAIR, COLO.

WEATHERED COMPANY.
Builders of Iron and Cypress Greenhouses
Greenhouse Heating and Ventilating Apparatus
P. O. Address, Box 789,
New York City.

SUMMER IN WINTER
BY USING
Standard Greenhouse Boilers
One cent gets our catalog.
GIBLIN & CO., UTICA, N. Y.

FRANK VAN ASSCHE GREENHOUSE BUILDER
Private or Commercial. Iron or Wood.
Factory and Yards: Fulton and Rose Ave. and Dwight St., Jersey City, N. J.

Evans Improved Challenge
Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
Write for catalogue and prices before placing your orders elsewhere.
QUAKER CITY MACHINE CO.
RICHMOND, IND.

Holds Glass Firmly
See the Point of PEERLESS
Glazing Plates are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
214 Chestnut St., Phila., Pa.

Between the All Heart and the Sun Dried our
Greenhouse Material

cannot be surpassed. Our workmanship also cannot be excelled. When you get a greenhouse from us you can be sure it is up-to-date in all respects, and that it will be a good house for many years.


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LAST week we said a lot about our "soaked in" method of priming our Greenhouse Material; now a word on the other painting. Did you know that all white lead which is ground with the oil in pulp form contains about five per cent. moisture, that it is this moisture in the lead that often causes mildew, makes your paint blister and peel off? This is just the point that our chemists have found out beyond all doubt, and our years of experimenting with pulp ground lead and bone-dry ground lead has proven to us that only the bone-dry lead will stand up under greenhouse conditions. Bone-dry lead is simply a lead which is thoroughly kiln-dried, all moisture excluded, then ground as fine as flour before it is mixed with the oil. This lead will then take six to eight gallons of oil to every hundred pounds, against five gallons of pulp ground lead. That means it has a covering power twenty-five per cent. more than other leads. Because it is ground so fine it mixes thoroughly with the oil and covers the wood with an air-tight enamel, thus excluding all moisture—a preventive against mildew, and when properly laid, should not crack or peel off.

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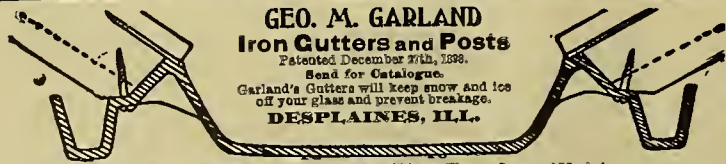
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A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL

Vol. XXIII. No. 20

NEW YORK AND CHICAGO, MAY 18, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who falls to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

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Richmond, Wellesley, Liberty, Bride, Bridesmaid, Bon Silene, Safrano, American Beauty and Mrs. Oliver Ames.

Splendid stock of ASPARAGUS PLUMOSUS NANUS SEEDLINGS,
Seeds saved from my own plants.

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Tuberose

Hand Picked F. O. B. N. Y.

Double Pearl 1st size 4-6 Inch.	100 \$1.00	1000 \$9.50	Single flowering	100 \$1.00	1000 \$7.00
“ “ Medium 3-4 Inch	.50	3.50	Armstrong Everblooming	2.00	15.00

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MRS. FRANCIS KING	100 \$4.50	1000 \$40.00	Vaughan's XXX Florists' Mixture, made from named light and white kinds.....	1.75	\$15.00
Augusta, finest light color..	2.50	20.00	Good Mixed .....	.85	7.00
Brenchleyensis	1.35	11.50	Fine Mixed, all colors.....	1.25	10.00
Ceres, fine pink	1.40	12.00	Childsli, fine mixed.....	2.00	18.00
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Lil. Harrisii, Freesia, French Romans, Paper White Narcissus, Dutch Bulbs

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We will send 1000 our selection, 50 each, 20 kinds for \$18.00 in either Cactus, Decorative or Show, or to include some of all classes, or 500, 25 each of 20 kinds for \$9.00, not less than 500 at this price.

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12 " "	1.25	"	13.00
14 " "	1.50	"	16.00

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NOW IS THE TIME TO SOW

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Mixture of perfect Colors.
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 Cash. Liberal extra count of seeds in all packets.

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Flower Seeds for Greenhouse and Outdoor Planting. All the kinds which florists grow.

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Crimson Scarlet White, Rose, Pink, light Yellow Salmon Orange Copper	Large bulbs measuring 1 1/2 inches and upward,	SINGLE	DOUBLE
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EXCEPTIONALLY FINE ROOTS WITH 2 to 7 EYES

Double White\$1.50 per doz.; \$8.00 per 100
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Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized.
Has never failed to run. Sold by Leading Seedsmen. Practical instructions on "Mushroom Culture" mailed free on application. American Spawn Co., St. Paul, Minn.

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Send for catalogue of Dahlias, Gladioli and Hardy Plants. I handle only the cream of varieties. M. R. S. Winters, Mme.

Dael, Navajo, Dainty, Kriemhilde, etc. My Dahlias have long been celebrated as prize winners.

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IF YOU NEED **Summer-Flowering Bulbs**

German or Japan Iris, write us for prices. We have the stock and can give you satisfaction.

JOHN LEWIS CHILDS, Floral Park, N. Y.

JOHN SCHEEPERS & CO.,
Arnhem, Holland

For Reliable Bulbs and Plants.

DAHLIAS. Field grown leading kinds named for cut flowers, whole roots, \$3.50 per 100.

Mixed, \$3.00 per 100.

CANNAS. 40 leading kinds, named, \$1.50, \$2.00 and \$3.00 per 100.

PETUNIAS. Giant, single and double fringed, Salvia, phlox Geraniums, Pelargoniums, etc. 2 1/2 in. \$2.00 per 100. Cash please.

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East Bridgewater Dahlia Gardens

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Eastern Dahlia King, J. K. Alexander, E. Bridgewater, Mass.

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Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

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NOW READY

Yellow Jersey, Red Jersey and Big Stems, \$1.25 per 1000; 35c. per 100.

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LILIUM AURATUM
GOLDEN RAYED LILY OF JAPAN

Every florist should plant or pot some of this magnificent Lily. We offer good dormant sound bulbs, clean and repacked, at the following close prices.

8 to 9 inch - - \$4 00 per 100
9 to 11 inch - - 7.00 per 100

LILIUM SPECIOSUM RUBRUM
Doz. 100 1000

8 to 9-inch bulbs. \$0 75 \$5 50 \$50 00
9 to 11-inch bulbs. 1 25 8 50 80 00

LILIUM SPECIOSUM MEL-POMENE
Doz. 100 1000

8 to 9-inch bulbs. \$0 75 \$6 00 \$55 00
9 to 11-inch bulbs. 1 25 8 50 80 00

SEASONABLE SURPLUSES DRY CYCAS STEMS

Fresh imported, true long leaf variety, in cases containing about 350 lbs. each; 75 per cent. of the stems 1/2 lb. to 3 lb. each; 25 per cent. 3 to 6 lbs. each. Per 10 lbs., 12 cts. per lb.; 100 lbs., 10 cts. per lb.; whole case, 7 1/2 cts. per lb.

JAPANESE FERN BALLS
5-in., \$2.00 per doz.; \$15.00 per 100

ARTHUR T. BODDINGTON,
342 West 14th Street, New York City.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

BRISTOL, PA.—The crop of Seven Top turnip, now in bloom, has been so seriously injured by the cold weather that the prospects of seed have been reduced to almost nothing.

FLORAL PARK, N. Y.—C. L. Allen, the veteran seedsmen, is on a Western trip. Though considerably past the three score and ten Mr. Allen is still as active and energetic as the youngest "drummer."

ST. PAUL, MINN.—The late Spring has already had its effect on the trade. Last year at this time seedsmen were receiving a great many filling in orders; according to reports none have been received this season so far. The country merchant therefore has not had a very active demand.

KEOKUK, IA.—O. A. Talbott & Company, who do a large wholesale trade in seeds in packets and cartons, as well as in garden and field seeds, say trade has been exceptionally good, notwithstanding that the weather conditions have been more unfavorable than in many years past.

PHILADELPHIA, PA.—Uncle Sam, responding to the city's appeal for aid to solve its backward problem, has sent here enough vegetable and flower seeds to beautify hundreds of premises. Requests for seeds were sent to Washington from the Board of Education about two weeks ago, and several congressmen have responded liberally. Receipts already embrace 150 packages of flower seeds, as well as a huge sack of turnip, cabbage and beet seeds, enough to start a mammoth truck patch.

ATLANTA, GA.—H. G. Hastings & Company say onion seed sales have been unusually heavy in Mississippi and Texas, and most other vegetable seeds also have been in great demand. The one crop upon which the South depends, viz, cotton, will be considerably reduced this season, for the lack of seed. The excessive rains last Winter caused the seeds to rot in the pod. At the present time not a pound of cotton seed is obtainable, and many hundreds of acres that were to be put into cotton will be planted to corn.

LARGE PRIVET

4 to 5 ft. @.....\$50.00 per 1000
5 to 6 ft. @..... 60.00 per 1000
6 to 6 ft. XX..... 90.00 per 1000

Wichurana Hybrids, 2 year 40.00
Plenty of shrubs at low prices.

CANNAS. 4 in. pots, \$6.00 per 100.

ELIZABETH NURSERY CO., Elizabeth, N. J.

RICHMOND, VA.—There is but one opinion among the seed trade in this city, which is, that the business this year has been most satisfactory, and was before the severe frosts that ruined a large acreage of the early planted vegetables making a re-planting necessary, which has reduced the bean supply, as well as the cucumber seed stocks to a comfortable size.

The President of the Seed Trade Association, Henry Wood, is exerting himself to the extent of his capability in urging a large attendance at New York, and the prospect is flattering.

CHARLESTON, S. C.—The damage by frost has been most disastrous here. Cucumbers, beans and early potatoes are a total failure. The second planting of the two latter crops has been general, but the truckers do not anticipate the profit they would have made, as they will have competition from Virginia. The potato crop failure is a heavy blow, as fully seventy-five per cent. of the crops was killed, and those living are in a sickly condition. As an antidote for the losses named, the cabbage crop has been heavy and prices good. The commission men were paying last week at the rate of thirty dollars per ton, in crates, at the depot.

AMERICAN COTTON SEED PROHIBITED.—The following statement from the secretary to the government of India gives the reason why the importation of American cotton seed is prohibited: In the exercise of the powers conferred by the sea-customs act of 1878, the governor-general in council is pleased to prohibit the bringing by sea or by land into British India of American or West Indies cotton seed, except such as has been fumigated to the satisfaction of the customs collector. The reason for the order is to prevent the introduction of boll weevil.

THE SERBIAN TARIFF.—Some changes have recently been made in the tariff rates on commodities imported into Serbia. Those affecting the seed and plant trade are as follows: Clover seeds of all kinds, free; flower seeds, 10 dinars per 100 kilos (one dinar equals 19.3 cents United States currency). On flowers in pots and tubs the duty is 15 dinars; on stems, trees, shrubs, bushes in separate receptacles or otherwise packed, bulbs and tubers, 8 dinars per 10.0 kilos. Vine slips and grafts are admitted free. Machines for sorting seeds and other products, machines for sowing are also free of duty.

IMPORTS OF SEED, ETC.—May 6. —A. H. Ringk & Company, 17 packages flower seeds, etc.; C. S. Villegas, one case plants; L. A. Fennell, two boxes live plants; Ceron, Villegas & Company, 14 boxes plants; Scott & Truxton, nine packages live plants; O. G. Hempstead & Company, six cases palm seeds. May 7. —J. P. Roosa, one case plants; Taft Brothers, 50 sacks seeds; J. Dunn, Jr., 10 packages plants; J. H. Ferdinand, one bushel garden seeds; Rooney & Spence, 20 cases plants; H. H. Berger & Company, seven cases plants; H. Bischoff & Company, eight cases plants; H. F. Darrow, 40 cases plants; C. F. Meyer, 13 cases plants; two tubs laurel trees; McHutchison & Company, 47 cases plants, 34 tubs laurel trees; Maltus & Ware, 22 tubs laurel trees, 32 cases plants, C. B. Richard & Company, 24 cases plants, 490 tubs laurel trees; Jan. Ter Kuile, 11 cases plants; Vaughan's Seed Store, 21 cases plants; Hussa & Company, 24 cases plants; American Express Company, 39 cases plants. May 8. —Paul Reinmann, seven cases hop plants; F. L. Hopkins & Company, 10 bushels seed. May 9. —Missouri Botanical Gardens, seven boxes live plants; Peck & Velsor, 15 packages Jamaica seeds.

EXPORTS OF SEEDS, ETC.—May 7. —Shipped from New York to Lagayra, 34 packages seeds, valued at \$492; May 9. —To Copenhagen, 170 bags grass seed, valued at \$1,600; three packages seed, valued at \$600.

THE FLORISTS' EXCHANGE

CINERARIA

The Cineraria seed offered by us is the best procurable. Immense trusses of the largest flowers are produced. Have been awarded numerous First Prizes.

	1/2 Trade Pkt.	Trade Pkt.
Grandiflora Prizo Dwarf. Mixed.	\$0 60	\$1 00
Medium Tall. Mixed.	60	1 00
James' Giant Strain. Mixed.	60	1 00
Hybrida Choice Mixed.	30	50
Double Mixed.	60	1 00

PRIMULA

FRINGED CHINESE VARIETIES

	1/2 Trade Pkt.	Trade Pkt.
Alba Magnifica. White.	\$0 60	\$1 00
Chiswick Red. Brilliant Red.	60	1 00
Hobart Blue.	60	1 00
Kermesina Splendens. Crimson.	60	1 00
Rosy Morn. Pink.	60	1 00
Stellata. (Sutton's Star). Orig. pkt. \$1.25		
Fern Leaved. Mixed Colors.	60	1 00
Michell's Choice European Mixture contains only the very finest strains, selected from the best strains. Per 1-16 oz. \$2.00.	60	1 00
William's Superb Strain. Mixed.	60	1 00
Double White.	60	1 00
Mixed.	60	1 00

Also a full line of Obolonia Varieties.

CYCAS REVOLUTA
Strong, healthy stems, 25 lbs. \$2.25; \$8.50 Per 160 lbs.

HENRY F. MICHELL CO.
1018 MARKET ST., PHILA.

Send for our wholesale price list.

THE SEED GROWING INDUSTRY IN GEORGIA.—N. L. Willet says the present lack of labor has absolutely paralyzed the seed growing industry in Georgia that before meant many thousands of dollars to the State. It has compelled those who were exploiters and growers to turn their attention to other lines of business. Mr. Willet says with proper labor conditions Richmond County is most favorably situated for the wholesale growing of certain seeds. Among these he mentioned asparagus, cantaloupes, watermelons, mustard, okra, seven-tooth turnips, Southern prize turnips, cat-tail millet, chufas, Spanish peanuts, cow-peas, soja beans, Mexican June corn, the various cotten seeds, appler oats, native rust-proof oats, and he believed also that vetch seed growing might be made profitable. But outside of some cotton seed growing, he says, in a crude, unscientific manner, not one of these things is to-day grown.

NEWPORT, R. I.—Seedmen are now allowed a little resting spell after the hard work of the last three or four weeks in the filling of orders, amounting in the aggregate to fully as much as those of recent years. The demand for vegetable seeds from the farmer out on the Island has increased decidedly in a few years, chiefly because of the uncertainty of the potato crop which has, with but few exceptional seasons, been variously disappointing to those devoting a large acreage to their cultivation. If disease did not attack the crop the prices were so very low at early digging that they barely paid expenses. On the other hand, with general garden truck there is a remunerative market in this city during the four months of the year, when it is easy work to have that kind of material in; besides, Fall River is so near the farmers of one section that it pays them well to ship a large proportion of their produce there. Recently several farmers have erected glass structures for the raising of vegetables and vegetable plants and have met with such success that more will follow in the same line before long.

Melons pay exceedingly well when grown to perfection for the Newport market in Summer. D. M.

CHICO, CAL.—The vast extent of the work being prosecuted at the National Plant Introduction Garden at Chico has been made public by the Chief, and the importance of the institution to the Sacramento Valley may be realized when the report is considered. To date there have been 5,200 varieties of plant and tree growth received at the garden, and these come from every corner of the globe, where special agents of the Department of Agriculture can reach.

In alfalfa, fifty-five varieties have been received, and are now under propagation at the garden. Of clovers, there have been received between eighty and ninety varieties. The Japanese matting

grass plants have been planted in the open, and will be retained until next Winter, when they will be transhipped to other parts of the United States, particularly Texas and the Carolinas.

An important experiment is being carried on with African para grass, and this may prove in time to be of the greatest benefit to certain sections of California. This grass is raised in some sections in preference to alfalfa, and being of a much hardier growth, has proven profitable. It is especially adapted to overflow sections, and in this particular may prove of value to California.

Sulla grass, from the European countries, and a rival of alfalfa, is also being experimented with. A surprising result has been obtained from a Chinese cherry. A scion was sent to the local garden by Explorer Frank Myers, from China, and it was grafted on another cherry tree. Long before there was any sign of fruit on the original tree, this branch bore fruit, and thus afforded the first ripe cherries in California.

In the line of sorghums, 380 varieties have been received, but of these only twenty-five have been used, so radical are the selections. These are doing well, and good results are looked for.

AMERICAN SEED CROPS.—There has been for some little time a general feeling among the Seed Trade, that on the whole the American crop of seeds, of practically all kinds, will turn out to be much less than the average, if not a very short one the coming season; in fact, many of our best authorities anticipate that the year 1908 will see vegetable seeds and many varieties of flower seeds of shorter crops, and consequently commanding much higher prices than in past years. Many varieties of seeds were very scarce this year, notably onion, radish, beet, and cantaloupe melon, of certain kinds; but our seedsmen have managed their seed stocks so diplomatically, that as a whole, these shortages have been comparatively little felt as yet. It is not conducive to a great seed selling season to have even as many radical shortages in standard varieties as there are this present Spring; but our troubles of to-day will be as nothing, if we should have a crop failure this Summer, which, from such indications as it has been possible to obtain thus early, would seem to be at least among the possibilities. Whenever we have a year of short seed crops, or as at the present time several more or less limited yields of seeds following each other for two or more seasons, the one crop about which we are always the most exercised is that of onion. The reports so far received from the great onion seed growing sections are far from re-assuring; on the contrary, are very pessimistic regarding the probable outcome of the crop. From California, the greatest of the onion seed growing states, comes word, that owing to the floods they have had this Spring, fully one-half the acreage has been ruined, and even were it not now too late to again set out the onion bulbs, where are the stock onions coming from? My information from other sections is also very unsatisfactory, many growers reporting that their stock onions have not kept over Winter as well as usual, and even if they had, their stocks saved for seed purposes were much less when stored last Autumn than for many years. The growers, as a whole, have so far refused to name any at all reasonable rates for the coming onion seed crop, many of them saying that they may not have any seed to sell at any price. I heard of one order being accepted by a grower, subject to pro rata delivery, at the following rates which information may help you a little to place the market at this time as regards the growing crop of onion seed for the sales of 1908. These prices were:—Southport Red Globe, \$2.25, large Red Weathersfield, \$2, extra early Flat Red, \$2.25, Yellow Globe Danvers, \$2.25, Southport White Globe, \$2.50, and several other more or less standard varieties at \$2 per pound. I would say here that \$2 per pound is the lowest reliable quotation I have so far heard of for the coming season's onion seed crop of any variety. Whatever the special causes may be in California to make the onion seed crop short for 1908, certain it is that for some years the growers there have been experiencing more trouble with every succeeding season, to get the ample crops of onion seed they used to get years ago. It is now about twenty-five years that California has been able, by its wonderfully great crops of onion seed, to practically control the price in this country; before

that time, the States of New England, especially Connecticut and Massachusetts, were the centers from which the onion seed supply mostly came. The prices in those days varied from \$2 to even \$6 and \$8 per pound, and when the crop allowed first quality onion seed to be sold to planters by the seedsmen, for not exceeding \$5 a pound, both seller and buyer were perfectly satisfied. But times have changed surely; and now if a planter cannot purchase his four or five pounds of onion seed, needed per acre, at not exceeding, say, \$2 a pound at the very most, there is fault finding and dissatisfaction of the very worst kind. In fact, it is not at all uncommon to have planters say to their seedsmen—"Well, if I cannot get my onion seed for \$2 a pound, I will not buy it, but will plant something else." The real facts of the case in this onion seed trouble, which we always have of late years the moment a short crop sends up the prices, are that foolish and unreasonable competition has gradually educated the planter until he expects his onion seed at a price, that, unless it be a year of a great crop, is very much below the cost of production. It would seem to the writer that the conditions among our onion seed growers are fast becoming such, that in future, much higher rates must prevail; this year after year, obtaining prices which are below the cost of production, surely must have an end.

I will, in my next letter, try and give you further information on the seed crop question; of course, it is very early yet to know much about the outcome, but the general feeling in this country at present would seem to indicate, that an average crop of seeds, as a whole, is not expected the coming season. Certain it is that the late and very cold Spring we are having, together with very serious floods, and probably at best a less than average acreage planted, would seem to forecast another year of high prices for seeds.—SEEDS in Horticultural Advertiser, England.

European Notes.

Between the storms, which are continuously intermittent, we dry our clothes and warm our toes by the side of fires that are still needed. The growth of our annual crops is seriously retarded, and even where as, in the case of our extra early radishes, we have succeeded in raising a good supply of plants, the wretched weather, which threatens to repeat the disasters of the past two years, has had such a depressing effect upon the growers that they are going back on their contracts and refuse to transplant. The bounty which the French government pays for the culture of hemp and the enhanced value of this article confirms the growers in their obstinacy. In the meantime, our stocks of all these articles are completely exhausted, and it is too late to make arrangements elsewhere.

The quiet season has now commenced in real earnest; at the same time, a brisk demand for mangel and rape helps us to fill up our leisure profitably.

As regards the latter article, after reaching the top notch it has gone one better and is now out of sight. This will probably affect the price next season, for, with green stuff of all kinds so abundant that it can hardly be given away, much of it will be used for sheep feed, and thus the farmers may easily be induced to allow rape, which was intended to be used for this purpose, to stand for seed. A moderate crop at present prices would be very profitable.

The Congrès Horticole of the Société d'Horticulture, Paris, is to be held in that city on May 24 and 25. Subject No. 4 for discussion is "Are the Plants of Solanum Commersonii violet and potato 'Giant Blue' distinct?" On this subject Messrs. Vilmorin write as follows: "In many trials made with these two varieties no difference worth mentioning could be found." Sutton & Sons, in an elaborate series of experiments, have demonstrated the soundness of this opinion.

EUROPEAN SEEDS.

Notes from Holland.

Our open air exhibition was opened by G. Hasveld, president of the Society for Bulb Culture. In his opening speech he said that our exhibition was perhaps one of the means to give some hints for the way in which the next quinquennial exhibition of the General Society for Bulb Culture at Haarlem could be arranged. Several persons of

Stokes' Standard Seeds.

Write me for advance prices on French and Dutch Bulbs.

Stokes' Seed Store.

219 Market St., PHILADELPHIA

distinction, among them the Commissioner of our Queen in the province of South Holland, attended the opening ceremony or came afterward to view the exhibition, which is arranged in three parts: Holland garden, French garden (Louis XIV style) and English garden. The whole is an example of good arrangement. Nurserymen of Boskoop sent or planted an abundance of their shrubs, and glass houses, purposely built for this occasion, give shelter to *Amaryllis hippeastrum*, *Lilium Harrisii*, *magnolia*, *smilax*, lily of the valley and some new varieties of narcissus and very big and fine seedlings of hyacinths.

The green sales of hyacinths are about at an end for the season. Trade was brisk and the demand very large. Prices were from 25 to 30 per cent. higher than last season's.

Green sales of tulips are going on now, and on account of the very large demand from different countries prices are considerably higher, in some cases 40 to 50 per cent. J. B.

THE DEMAND FOR BULBS.—Writing on the recent bulb show at Sassenheim, Holland, a correspondent of the Horticultural Advertiser, England says: "During the last year or two, the demand for many bulbs, especially tulips, has been fabulous, for in addition to the export trade, large stocks have been required to plant up all the new land which has been developed, and thus the grower has been in clover, while the exporter has had to supply bulbs at prices, fixed in his catalogue which, when he had to purchase supplementary stocks, left him with no margin of profit or with an actual loss. However brilliant this business may have been, our Dutch friends have a very wide open eye to the future, and the growers begin to ask themselves how will things be when the home demand drops off? They also realize that at any rate in England the demand for hyacinths for forcing in pots is not a growing, but rather a diminishing one, while year by year amateurs demand bulbs at lower prices for this culture; in our own recollection the prices paid for hyacinths for potting has gone down 50 per cent. and whereas years ago no collection for this purpose was ordered without a few novelties and expensive varieties, to-day the demand is mainly for all the lowest-priced varieties catalogued.

"No doubt the exporters are quite aware of this, and the idea of the present show is to demonstrate the value of these bulbs for bedding purposes, and the manner in which they should be planted to obtain the best effect.

"The arrangement of colors in the beds was very pleasing, one bed of *Roi des Belges*, with a border of *King of the Yellows*, was especially effective; other good beds were—*Rose à Merveille*, a good bluish hyacinth; *Prince de Ligne*, a very early yellow tulip, *La Remarquable* and *Red Pottebakker* tulips. With these exceptions, the bulk of the bulbs were old and well known varieties."

5000 HOLLYHOCKS

Strong field grown plants from seed of very superior strain.

Per 100
Double, in separate colors. \$5.00
Double, mixed 4.00
Single, mixed 4.00
Packed free for cash with order.

J. T. LOVETT,
LITTLE SILVER, NEW JERSEY

CANNAS Crimson Bedder, a superb Canna; very handsome for bedding, started plants \$2.00 per 100. **King Humbert**, the great Gold Medal Canna; strong pot-bound. 3/4 in. \$10.00 per 100. **English Ivy**, 2 1/2 in.; strong \$2.00 per 100. Cash.

A. CORLIN, ELBERON, N. J.

DREER'S POT-GROWN HARDY PERENNIALS

The following varieties are all growing in pots and can therefore be planted now with perfect success, which is not the case with the ordinary field-grown stock at this late date.

	Per doz	Per 100		Per doz	Per 100		Per doz	Per 100
<i>Acanthus Mollis</i> and <i>Latifolius</i> , 4-in. pots.	\$1.25	\$10.00	<i>Epilobium Angustifolium</i> and <i>Hirsutum</i> , 4-			<i>Hypericum Moserianum</i> , 4-in. pots.	\$1.25	\$8.00
<i>Achillea Eupatorium</i> , <i>Filipendula</i> , 4-in. pots.	.85	6.00	in pots.	\$.85	\$6.00	<i>Iberis Sempervirens</i> , 3-in. pots.	.85	6.00
<i>Millefolium Roseum</i> , 3-in. pots.	.85	6.00	<i>Erigeron</i> in variety, 3-in. pots.	1.00	7.00	<i>Correaefolia</i> , 3-in. pots.	1.25	10.00
<i>Aconitum Fischeri</i> , 3-in. pots.	2.00	15.00	<i>Eryngium Amethystinum</i> and <i>Planum</i> , 4-in.			<i>Iris Sibirica</i> and <i>Alba</i> , 4-in. pots.	1.00	7.00
in variety, 3-in. pots.	1.50	10.00	pots.	1.50	10.00	<i>Orientalis Snow Queen</i> , 4-in. pots.	2.00	15.00
<i>Agrostema Coronaria</i> , 4-in. pots.	.85	6.00	<i>Erigeron</i> in variety, 3-in. pots.	1.00	7.00	<i>Pumila Cyanea</i> and <i>Eburnea</i> , 4-in. pots.	1.50	10.00
<i>Ajuga Reptans Rubra</i> and <i>Genevensis</i> , 3-in.			<i>Eupatorium Ageratoides</i> , 4-in. pots.	.85	6.00	<i>Liatris</i> in variety, 3-in. pots.	.85	6.00
pots.	.85	6.00	<i>Euphorbia Corollata</i> , 3-in. pots.	.75	5.00	<i>Lobelia Cardinalis</i> and <i>Syphilitica</i> , 3-in. pots.	.85	6.00
<i>Anemone</i> , Queen Charlotte and Whirlwind,			<i>Funkia Cœrulea</i> , 4-in. pots.	.75	6.00	<i>Lychnis Chalcedonica Alba</i> , <i>Carnea</i> and <i>Eur-</i>		
3-in. pots.	.85	6.00	<i>Subcordata Grandiflora</i> , 4-in. pots.	1.25	8.00	<i>bra</i> , 3-in. pots.	.85	6.00
<i>Pennsylvanica</i> and <i>Sylvestris</i> , 3-in. pots.	.85	6.00	<i>Undulata Media Picta</i> , 3-in. pots.	.85	6.00	<i>Rubra fl. pl.</i> , 3-in. pots.	2.00	15.00
<i>Aquilegia Canadensis</i> , <i>Cœrulea</i> and <i>Vulgaris</i> ,			<i>Gallardia Grandiflora</i> , 4-in. pots.	.85	6.00	<i>Dioica</i> and <i>Haazeana</i> , 3-in. pots.	.75	6.00
3-in. pots.	.85	6.00	<i>Geranium Sanguineum</i> and <i>Album</i> , 4-in. pots.	.85	6.00	<i>Viscaria Splendens</i> , 4-in. pots.	1.25	8.00
<i>Arabis Alpina</i> , 3-in. pots.	.75	5.00	<i>Geum</i> in variety, 3-in. pots.	1.00	7.00	<i>Lysimachia Clethroides</i> , <i>Ciliata</i> and <i>Punc-</i>		
<i>flore plens</i> , 3-in. pots.	.85	6.00				<i>tata</i> , 4-in. pots.	.85	6.00
<i>Armeris Maritima Splendens</i> and <i>Alba</i> , 3-in.						<i>Lythrum Roseum Superbum</i> , 4-in. pots.	.85	6.00
pots.	.85	6.00				<i>Monarda Didyma</i> and varieties, 4-in. pots.	.85	6.00
<i>Artemises Purshiana</i> and <i>Stellariana</i> , 3-in.						<i>Papaver Orientalis</i> , 4-in. pots.	.85	6.00
pots.	.85	6.00				<i>Nudicaule</i> , 3-in. pots.	.85	6.00
<i>Asphodelus Luteus</i> , 3-in. pots.	1.25	8.00				<i>Penstemon</i> in variety, 3 and 4-in. pots.	1.00	7.00
<i>Hardy Asters</i> (Michaelmas Daisies), in vari-						<i>Physostegia Virginica</i> , <i>Speciosa</i> and <i>Alba</i> ,		
ety, 3-in. pots.	1.00	7.00				3-in. pots.	.85	6.00
<i>Aster Grandiflorus</i> , the finest of all, 3-in.						<i>Pinks</i> , <i>Hardy Garden</i> , in variety 4-in. pots.	.85	6.00
pots.	2.00	15.00				<i>Platycodon Mariæi</i> , <i>Grandiflora</i> , <i>Blue</i> and		
<i>Astilbe Davidi</i> (new), 4-in. pots.	2.50	20.00				<i>White</i> , dormant roots.	.85	6.00
<i>Boltonia Asteroides</i> , 4-in. pots.	.85	6.00				<i>Plumbago Larpenda</i> , 3-in. pots.	1.00	7.00
<i>Latisquama</i> , 4-in. pots.	.85	6.00				<i>Potentillas</i> in variety, 3-in. pots.	1.00	7.00
<i>Calimera Incisa</i> , 4-in. pots.	.85	6.00				<i>Phlox</i> . These are a specialty with us. Send		
<i>Caryopteris Mastacanthus</i> , 3-in. pots.	.85	6.00				for special list of varieties. Heavy, 3-in.		
<i>Campannula Alliarifolia</i> , 3-in. pots.	1.00	7.00				pots.	.75	5.00
<i>Grandis</i> and <i>Grandis Alba</i> , 4-in. pots.	1.25	8.00				<i>Pyrethrum Hybridum Seedlings</i> , 4-in. pots.	1.25	8.00
<i>Latifolia Macrantha</i> , 3-in. pots.	1.00	7.00				<i>Ulliginosum</i> , 4-in. pots.	.85	6.00
<i>Lactiflora</i> , 4-in. pots.	1.00	7.00				<i>Ranunculus Acris fl. pl.</i> , 4-in. pots.	.85	6.00
<i>Medium Single</i> and <i>Double</i> , 4-in. pots.	.85	6.00				<i>Rhexia Virginica</i> , 3-in. pots.	.85	6.00
<i>Calycanthema</i> , 4-in. pots.	.85	6.00				<i>Rudbeckia Golden Glow</i> , 4-in. pots.	.85	6.00
<i>Persicifolia Gigantes</i> , 3-in. pots.	1.50	10.00				<i>Fulgida</i> , <i>Newmani</i> , <i>Sub-Tomentosa</i> , <i>Tri-</i>		
<i>Pyramidalis</i> , 3-in. pots.	.85	6.00				<i>loba</i> , 4-in. pots.	.85	6.00
<i>Espunculoidea</i> , 4-in. pots.	.85	6.00				<i>Purpurea</i> , 3-in. pots.	1.00	7.00
<i>Rotundifolia</i> , 3-in. pots.	1.00	7.00				<i>Salvia Azurea Grandiflora</i> , <i>Argentea</i> and		
<i>Trachelium</i> , 4-in. pots.	1.00	7.00				<i>Pratensis</i> , 4-in. pots.	1.00	7.00
<i>Centaurea Glastifolia</i> , <i>Macrophela</i> and						<i>Sedum Spectabilis</i> , 4-in. pots.	1.00	7.00
<i>Orientalis</i> , 4-in. pots.	1.00	7.00				<i>Senecio Pulcher</i> , 3-in. pots.	1.00	7.00
<i>Cephalaris Alpina</i> , 4-in. pots.	1.25	8.00				<i>Solidago Canadensis</i> , 4-in. pots.	.85	6.00
<i>Chelone Glabra Alba</i> , <i>Lyoni</i> and <i>Obliqua</i> ,						<i>Stalice</i> in variety, 4-in. pots.	.85	6.00
<i>Alba</i> , 4-in. pots.	1.25	8.00				<i>Stokesia Cyanea</i> , 4-in. pots.	.75	5.00
<i>Chrysanthemum Shasta Daisy</i> , 3-in. pots.	.75	5.00				<i>Sweet Williams</i> , 4-in. pots.	.75	5.00
<i>Hardy Pompon</i> , 2 1/4-in. pots.	.60	4.00				<i>Symphitum Asperium Variegatum</i> , 4-in.		
<i>Chrysozonum Virginianum</i> , 3-in. pots.	1.25	8.00				pots.	1.50	10.00
<i>Clematis Davidiana</i> , 3-in. pots.	.85	6.00				<i>Thalictrum</i> in variety, strong plants, 4-in.		
<i>Recta</i> , 3-in. pots.	1.50	12.00				pots.	1.00	7.00
<i>Integrifolia</i> , 3-in. pots.	1.25	8.00				<i>Tricyrtis Hirta</i> , 5-in. pots.	1.25	8.00
<i>Coreopsis Lanceolata Grandiflora</i> , 4-in. pots.	.75	5.00				<i>Trollius Europæus</i> , 3-in. pots.	1.00	7.00
<i>Delphinium Belladonna</i> , 3-in. pots.	2.00	15.00				<i>Tritoma Corallina</i> , strong divisions.	1.50	10.00
<i>Chinensis</i> and <i>Alba</i> , 2-in. pots.	.75	5.00				<i>Obelisque</i> , strong divisions.	1.50	10.00
<i>Dianthus Barbatus</i> (Sweet William), 4-in.						<i>Rufus</i> , strong divisions.	2.00	15.00
pots.	.75	5.00				<i>Tricolor</i> , strong divisions.	2.00	15.00
<i>Deltoidea Alba</i> and <i>Rosa</i> , 3-in. pots.	.85	6.00				<i>Uvaria Grandiflora</i> , strong divisions.	1.00	6.00
<i>Latifolius Atrococcineus Fl. Pl.</i> , 3-in. pots.	1.00	7.00				<i>Veronica Amethystina</i> , 3-in. pots.	1.00	7.00
<i>Napoleon III.</i> , 2 1/4-in. pots.	1.50	10.00				<i>Incana</i> , 3-in. pots.	1.00	7.00
<i>Dictamnus Frazinella Rubra</i> and <i>Alba</i> , 3-in.						<i>Longifolia Subsessilis</i> , 3-in. pots.	1.25	8.00
pots.	1.25	8.00				<i>Maritima</i> , 4-in. pots.	1.00	7.00
<i>Dielytra Formosa</i> , 4-in. pots.	1.00	7.00				<i>Repens</i> and <i>Eupestris</i> , 4-in. pots.	1.00	7.00
<i>Digitalis Gloxiniaeflora</i> , 4-in. pots.	.85	6.00				<i>Spicata</i> , <i>Blue</i> and <i>White</i> , 4-in. pots.	1.00	7.00
<i>Lanata</i> , 3-in. pots.	.85	6.00				<i>Rosa</i> , 3-in. pots.	1.00	7.00
<i>Doronicum Caucasicum</i> and <i>Excelsum</i> , 3-in.						<i>Virginica</i> , 4-in. pots.	1.00	7.00
pots.	1.25	8.00				<i>Viola Fedata</i> , 3-in. pots.	.60	4.00
<i>Echinops Ritro</i> and <i>Rutbenicus</i> , 4-in. pots.	1.50	10.00				<i>Hardy Double Russian</i> , 2 1/4-in. pots.	.60	4.00
			<i>Gypsophila Paniculata</i> , 4-in. pots.	.85	6.00			
			<i>Acutifolia</i> , 3-in. pots.	1.00	7.00			
			<i>Repens</i> , 3-in. pots.	1.00	7.00			
			<i>Hemerocallis</i> in variety, 4-in. pots.	.85	6.00			
			<i>Heuchera Alba Brizoides</i> and <i>Roses</i> , 4-in.					
			pots.	1.00	7.00			
			<i>Helenium Autumnale Superba</i> , 4-in. pots.	1.00	7.00			
			<i>Grandicephalum Striatum</i> , 3-in. pots.	.85	6.00			
			<i>Koopesii</i> , 4-in. pots.	1.00	7.00			
			<i>Pinnilum Magnificum</i> , 4-in. pots.	1.00	7.00			
			<i>Riverton Gem</i> , 4-in. pots.	3.00	20.00			
			<i>Helianthus Davidiana</i> , <i>Daniel Dewar</i> , <i>Mollis</i> ,					
			<i>Multiflorus fl. pl.</i> , <i>Maximus</i> , <i>Meteor</i> , <i>Miss</i>					
			<i>Mellich</i> , <i>Orgyallis</i> , <i>Rigidus Japonicus</i> ,					
			<i>Soliel d'Or</i> , <i>Tomentosum</i> , <i>Woolley Dod</i> , 3					
			and 4-in. pots.	.85	6.00			
			<i>Heliopsis Pitcherianus</i> , <i>Semi Plena</i> and					
			<i>Scaber Major</i> , 4-in. pots.	.85	6.00			



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10,000 Berberis Thunbergii, 18 to 24 in., \$50.00 per 1000. 15,000 Berberis Thunbergii, 15 to 18 in., \$40.00 per 1000.

All are 2 year old transplanted, fine, hushy stock. 2,000 Myrtle, nice plants, \$45.00 per 1000. 8,000 choice Dahlia roots for sale, cheap.

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Ready May 1st	\$0.20 \$1.00
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American Beauty, 3/4 in.	1000
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2000 fine 2 1/2 in. Richmond Rose Plants, all ready to shift, \$30.00 per 1000.

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Cannas, 3 1/2 and 4 in. pot plants, ready to plant. Will do 500 or 1000 in fair proportion from list at \$40.00; or my own selection for \$35.00 per 100.

Chas. Henderson, Shenandoah, Mle. Per 100 Berat, Alsace \$40.00 Gloriosa (or Dwarf) Queen Charlotte, Queen Charlotte, Florence Vaughan, David Harum, Chicago, Souv. D'Antoine Crozy, Duke of Marlborough, Crimson Bedder, Bronze Beauty, Pennsylvania 5.00 Louisiana \$1.60 per dozen; King Humbert, \$2.50 per dozen; Allemania, Austria, Italia, Rosemawr, Chautauqua, Fertinope, Mme. Crozy, Canary Bird, each \$1.00 per dozen

10,000 FERNS Boston, 4 in., 15c.; 3 in., 8c.; 2 1/2 in., 4c. Piarsoni, 6 in., 25c.; 4 in., 16c.; 3 in., 8c.; 2 1/2 in., 4c. Scottii, 4 in., 15c.; 3 in., 10c. Barrowii, 4 in., 20c.; 3 in., 15c. Anna Foeter, 2 1/2 in., 3c. 5000 Verbena, Cabbage, Tomato and Pepper Plants, ready to plant; all transplanted. 50c. per 100. Egg Plants, \$1.00 per 100.

OTHER SEASONABLE STOCK

1000 English Ivy, heavy vines, 3/4 to 4 ft.	\$5.00
1000 Vinca Major, variegated, 3/4 in.	7.00
1000 Vinca Major, variegated, 2 1/2 in.	2.50
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1000 Hydrangea paniculata Grandiflora, 3 year, Sc.; 2 year, Sc.; 1 year, 4c.	
1000 Clematis paniculata Wistaria Blue 4-year old vines	8.00
2000 Hydrangea Quakers and Aparagus Sprengeri, Stokesia Cyanus	2.50
5000 Xanthemum. Ivory, Yellow Bonafon, H. Frick and Nonin, 2 1/2 in.	2.50
Carnations, from flats ready to plant; grown cool. 1000 Helen Goddard, beats Rose Pink Enchantress	6.00
2000 Queen, Boston Market, Gov. Wollcott, Pink a son, Elton and New Day-break, each	2.00
2000 Chas. Henderson, Mlle Berat, dormant Cannas	1.50
1000 Cannas, best mixed, for massing	1.00
Satisfaction guaranteed. Cash or C. O. D.	

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ROSES ON OWN ROOTS 2 YEARS, No 1., AT \$5.00 Per 100

Crimson, White, Yellow, and Pink Ramblers, Dorothy Perkins, Baltimore Belle, Queen of the Prairie, Seven Sisters, Wicherale, Empress of China.

GILBERT COSTICH, ROCHESTER, N. Y.

Vegetable Plants Cabbage, Winningstadt, Sure Head, \$1.25 per 1000. Cauliflower, best early Snowball, \$3.00 per 1000. Tomato, Chalks early, Livingston's New Globe, Stone, \$2.00 per 1000. All plants are strong and stocky and ready to plant out. GUSTAV PITZONKA, Bristol, Pa

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MISSOULA, MONT.—A. E. Oman of Washington, D. C., has been sent here by the federal government for the purpose of looking up a location for an extensive government nursery, to be used as a base of supplies for tree planting for the national forests in Western Montana and Northern Idaho.

CHICO, CAL.—F. W. Power, who has a controlling interest in the Chico Nursery Company, has disposed of his stock in the firm, and will depart in the near future for Oregon, where he will make his future home. F. X. Gouillard, E. Wightman and Ed. Harlan become the new owners of the nursery.

ST. PAUL, MINN.—All of the nurserymen in the State are through delivering and the general report is that this Spring's delivery is the largest in years; up to this writing sales are cashing up quite satisfactorily. City deliveries appear to be harder to close up than those in the country. From general reports stock has been much better, therefore deliveries have been easier to make. **PAUL.**

FOREST PLANTING LEAFLETS.—The Forest Service of the United States Department of Agriculture is distributing a series of useful leaflets on forest trees, in which such subjects as form and size, range, habit and growth, economic uses, methods of propagation, planting, cultivation and care, returns, etc., are briefly dealt with. Among the trees thus treated upon to date are: Hardy Catalpa, box elder, white willow, black walnut, tamarack, usage orange, coffee tree, green ash, yellow poplar (*Liriodendron tulipifera*), Russian mulberry, black cherry, slippery elm, sugar maple, and white oak.

Seasonable Topics.

Florists find the old favorite plant, lemon verbena (*Aloysia citriodora*), a good seller. The fragrance of its leaves is pleasing to every one, and planted in the open ground in Summer it makes a vigorous growth.

With the close of every Winter or the beginning of Spring it is always apparent to every observer how valuable nurse trees are, to protect less hardy sorts or even young trees of their own kind. Even our wild evergreen trees will be almost killed when standing alone in an open situation.

Layering is a favorite method of increasing many trees and shrubs. Where such work is in contemplation it is well to cut down the plants looked to for furnishing the shoots for layering. The vigorous growth that follows is just the kind desired.

Melia Azederach is the China tree, one variety of which, *umbraculifolia*, is a valuable shade tree where freezings are not severe. It has been said the robins become drunk feeding on the fruit when it is fresh and has just ripened.

The following seeds ripen in May or June, and require immediate sowing: *Ulmus fulva* and *U. americana*, *Acer dasycarpum* and *A. rubrum*, *Betula rubra*, *Rhus aromatica* and *Daphne Mezereum*. Any others ripening in Spring may be sown at once also, with good results.

Trumpet vines are excellent subjects to run up live or dead trees. They cling tightly to the surface of the bark, at the same time pushing out shoots that extend at times four feet from the trunks of the trees. Both the native one, *radicans*, and the Chinese, *grandiflora*, are good; the latter is rather the slower grower.

Mistletoe is not confined to any particular tree, although in some localities it seems to prefer certain trees. In New Jersey the sour gum is preferred, then the red maple, oaks in Oregon, while in Virginia and Texas it is found on quite a number of trees, even on the mesquite in Texas.

Mazzard Cherry Stock for Morrello Cherry.

Taking one thing with another there is no cherry more satisfactory than the Early Richmond. It is of dwarf growth, a prolific and regular bearer, and of a hardy nature. In the colder States it thrives where many of the sweet type will not, and this is especially the case when it is worked on the Mazzard stock instead of the Mahaleb. The latter rather dwarfs its growth, and in some cases this may be desirable. On the other hand, the fruit is larger when on the Mazzard stock than when on the Mahaleb. In the Northwest, where some experiments were made, it was found

that seedling Morello cherries gave the Early Richmond the hardest character of any stock.

The time to bud the cherry is about Midsommer; it cannot be left as late as peaches can, because the sap ceases to run earlier in the season than it does in the case of peaches.

Cherries push into growth early in Spring, and as they do not thrive well when the buds have started in advance of planting, the transplanting of them should be one of the earliest tasks of Spring, or else the work should be done early in Autumn.

Japanese Judas Tree Screen, Cercis Japonica.

To Japan and China we are indebted for a great number of the lovely shrubs that grace our lawns, and this is particularly true of those that greet us early in Spring. Think of the forsythia, weigelia, Japanese snowball, *Pyrus japonica* and many others, and we find they are from the countries named. And then to come to the *Cercis japonica*, the subject of our notes, there is another and a most valuable one for early Spring flowering.

Early flowering sorts are the most valued, they do so much to gladden our hearts after the passing of Winter, but in the case of the Japanese Judas tree it would be welcome at any time, being of so much beauty when in bloom. In color the flowers are of a deep rosy pink, exceeding in depth of color our native species, *C. cana-*

A Pine for Barren Soil.

One of our pines, *Pinus Banksiana*, is finding much favor in portions of Europe because of its adaptability for growing in barren soil. This pine is but of small growth, from 10 to 20 feet high, spreading, but making excellent fire wood. It is better than nothing for situations where nothing else would grow. But as there are other pines that will thrive in like soils and which make larger trees, it seems to us at this distance from Europe that such larger growing sorts as *P. rigida* and *P. inops* would be of more value than *Banksiana*. Many of our pines appear to prefer a sandy soil. Besides the *rigida* and *inops*, which are found in the sandy soil of South New Jersey, there is *P. mitis*; and in the South *palustris* and *teda*. The two last named would not thrive in the portions of Europe where *Banksiana* is being planted, but are mentioned as showing that many pines are denizens of barren or sandy soil.

In our country few pines except the white, *P. Strobus*, are being planted. The last named is much sought for for re-forestation and other planting, nurserymen finding a great demand for the seedlings.

In all sections of the country great attention is being paid to forestry matters, and seedlings of useful timber trees will be in demand for many years to come.



Screen of Japanese Judas Tree, *Cercis Japonica*

densis, the flowers of which are of a light pink. What adds to the attractiveness of these Judas trees when in flower is the fact that their bunches of blossoms come from old, hard shoots as well as from those of later growth. Even when they are trees many years old, it is not unusual to see a bunch of flowers appearing on the trunk near the ground, although, of course, the great display is made on the younger shoots.

One of the sights of the neighborhood is a row of the Japanese Judas trees in the grounds of Meehan's Nurseries, Germantown, Pa. When in bloom in Spring the trees are discernible in the public road a half mile or more away. The photograph gives an idea of the appearance of the row and shows how numerous the flowers are that adorn them. The trees are in a portion of the nursery known as the propagating grounds, and are valued chiefly for the seeds they produce every year.

From seeing this row of trees many have been led to consider the planting of a row on their own grounds; they are such a pleasing sight when in flower. As a division line such a row would be highly satisfactory. The row pictured had no care whatever in the way of pruning, but the trees were permitted to grow at will. Besides having no care, other shrubs have been grown near them, one such row, of *Viburnum tomentosum*, showing in the illustration. There would be a far more bushy display had the plants been pruned from year to year, or had they been allowed to grow where other shrubs did not crowd them.

The two Judas trees, *C. japonica* and *C. canadensis*, are the only ones that thrive here, excepting that there is now a white-flowered variety of the *canadensis*. The European one, *C. siliquastrum*, has not proved sufficiently hardy for cultivating north of Washington, D. C.

Magnolias for Forcing.

Spring is the time to pot magnolias intended for forcing next Winter. The plants selected should be vigorous young stock, as bushy as possible, and they should be pruned back well that a good supply of new shoots may follow. No shoots should be entirely cut away, but pruned back only, because the bushier the plant the better it will sell; and as every shoot that starts will bear a flower in all probability a bushy plant is doubly prized.

The best sorts to force, because of their free flowering and the ease with which they can be procured, are *M. Soulangeana* and *M. stellata*. The pink and white flowers of the former and the fragrant white ones of the *stellata* present a beautiful appearance on a plant in a pot; and both of these bloom when the plants are very small. *M. purpurea*, or *obovata* as its proper name is, might also be tried, but as it is naturally a later bloomer than the others mentioned it may not force as tractably as desired.

There is a newer one appearing in collections which will be in demand, called *M. Soulangeana nigra*, a name that seems unfitted for it, as its growth and flowers have no great resemblance to *Soulangeana*, neither is it claimed to be a seedling of that variety. Its flowers are larger and richer in color than those of *M. Soulangeana*, and it blooms later. It is believed to have been introduced from Japan by the Veitch Nurseries some 25 years ago. In appearance of growth this magnolia partakes somewhat of that of *M. purpurea*, its shoots being less stout than those of *M. Soulangeana*, and these two, by the way, are supposed to be its parents.

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WE WOULD LIKE TO FIGURE ON Your Bulb Catalogue FOR SUMMER AND FALL, 1907. We would take great pleasure in being afforded an opportunity to figure on your forthcoming Bulb Catalogue for Summer and Fall, 1907. Our photographers, located at several different points, have given us quite a supply of brand new and valuable photographs, especially taken for this season's work. We can make attractive, taking covers in one, three or four colors, and working under your suggestions, can set up the designs. We have the experience, material and brains to furnish you with a catalogue that will sell your goods. It will not cost you anything to have us give you a quotation. Kindly furnish us complete specifications and our estimate will be promptly forwarded you. Samples of our work will be mailed upon request. A. T. DE LA MARE PTG. & PUB. CO. Ltd. Nos. 2 to 8 Duane St., New York

FISCHER'S GRAND FREESIA PURITY Will be ready for delivery in July. PRICES: 1st grade, \$2.75 per 100; \$22.00 per 1000 2nd grade, \$2.25 per 100; \$18.00 per 1000; 250 at 1000 rates. Limited quantity of MAMMOTH BULBS, at \$4.00 per 100. Cash with order from unknown parties. Rudolph Fischer, SANTA ANITA, LOS ANGELES CO., CAL.

BOXWOOD 6 to 6 in. \$5.00 12 to 15 in. 20.00 18 to 24 in. 40.00 Creeping Roses 4.00 Madam Plantier 4.00 2 1/2 in. pot Roses cheap. Cannas, 4 in. 6.00 Privet, 4 to 6 and 6 to 6 ft. THE ELIZABETH NURSERY CO. ELIZABETH, N. J.

TURNIP SEEDS Write to us for prices by the 100 or 1000 pounds or more. Now is the time to order.

D. Landreth Seed Company BRISTOL, PENNSYLVANIA

ROSES! Brides, Maids and Gates, in good condition benched last August, \$5.00 per 100; \$45.00 per 1000. Verbenas, Mammoth, 2 1/2 in., \$2.50 per 100. Nerebermergia, 2 1/2 in., \$2.50 per 100. Double Sweet Alyssum, 2 in., \$2.00; 2 in., \$2.00 per 100. Cannas - C. Henderson, Mme. Crozy, F. Vaughan, \$7.00 per 100, 4 in. Tomato Plants, Earliana, Stone, Ponderosa, 2 1/2 in. pots, \$2.00 per 100; transplanted, 76c. per 100; \$3.00 per 1000; from seed bed, 60c. per 100; \$3.00 per 1000. Cabbage, transplanted, 60c. per 100; \$4.00 per 1000, Wakefield and Winnigstaad. SMITH & VAN AART, NEWTOWN, PA.

Grafted Roses

We offer this year the following assortment: **Bride, Bridemaid, Hon Siana, Golden Gate, Ivory, Gan. McArthur, Kata Monlon, Kalaarin Augusta Victoria, Killarney, La Detrois, Mme. Carolina Teston, Mme. Koste, Maman, Cochet, Marechal Niel, Richmond, Souv. du President Carnot, Souvenir De Wootton, Tom Field, Uncle John.**
 The above grafted from 2 1/2 inch pots, \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.
The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.

AMERICAN BEAUTY

On own roots, from 2 1/2 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3-inch pots, \$12.00 per 100; \$100.00 per 1,000 April, May and June delivery.

The 1900 rate obtains only when 250 or more of a variety are ordered.

OUR GUARANTEE GOES WITH EVERY PLANT.

A. N. PIERSON, Cromwell, Conn.

We are now taking orders for a grand lot of **CATLEYA TRIANAE**, 400 bulbs to a case, at \$50.00 net cash, per case, which we expect to arrive here some time in June. Will sell cheaper if ordered in quantities. Solicit correspondence. Same established plants of **CATLEYA GIGAS, MENDELI, SCHROEDERAE** and **TRIANAE**, from \$2.00 to \$5.00 per plant.

JOHN DE BUCK,
 Collector of Orchids,
COLLEGE POINT, N. Y.

DRACAENA INDIVISA

Per 100
 18 to 30 in. high\$10.00, \$15.00 and \$20.00
SHASTA DAISY, 3 in. 3.00
COBAEA SCANDENS, 2 in. 2.50
PHLOX, dwarf compacta, 2 in. 2.00
Traffling LANTANAS 3.00
Double PETUNIAS, 4 inches, in bud 4.00
VERBENAS, Mammoth, 4 colors, 2 in. 2.00
CENTAUREA GYMNOCAEPA, (dusty miller) 2 in. 2.00
SALVIA, dwarf and tall, 2 in. 2.00
ZINNIA, fine double, 2 in. 1.00
COSMOS, early dwarf and giant, 2 in. 1.00
ASTERS
 Samples, 5 colors, by mail 40c. per 100; \$3.00 per 1000 by express.
 Cash with order please

GEO. J. HUGHES, Berlin, N. J.

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Just arrived a shipment of **CATLEYA LABIATA** and **DENDROBIUM WARDIANUM.**

Write for prices.
LAGER & HURRELL, Summit, N. J.
 Growers and Importers

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.
Sander, St. Albans, England
 and
235 Broadway, Room 1, New York City

ORCHIDS ORCHIDS

To arrive shortly, **CATLEYA MOSLAE, SPECIOSISSIMA, GIGAS, SANDEAE, TRIANAE, MENDELI, ODONTOGLOSSUM CRISPUM** and others. Prices as low as possible. Write for them.
ORDONEZ, DE NAVE CO., MADISON, N. J.
 8 SAMPSON AV., P. O. BOX 105

Decorative Plant Notes.

GLORIOSAS are perhaps not uncommon, but I rather think it is an uncommon sight to observe them by the hundreds on one place. I do not by that mean to infer that all these were mature plants, because they were not: the greater number were seedlings in flats. Nevertheless it is unusual to see so many in any stage on one place. Those referred to were grown by Arthur Griffin at Sea Verge, R. I., and it was there I saw them the other day. Before my attention was drawn to the hatches of seedlings I observed several in flower, but one lot especially took my eye and that before I was told that it was the choicest product of Mr. Griffin's efforts at the hybridization of these plants. The one referred to is in color a brilliant red for two thirds of each segment of the perianth, with the other third a bright lemon color. The flowers are unusually large and numerous on each plant growing in the pan.

Gloriosas do not present impossibilities to any average grower in their cultivation, and seeing them growing here in the pink of perfection it seemed that they would be well worth the attention of commercial growers, more especially when it is known that their flowers are admirably adapted for choice and elaborate decorations. **Gloriosas** from seed take two years to flower and require in the interval a period of rest, the same as mature tubers do. There are few plants that come so rapidly into bloom after potting as **gloriosas**, but it is important when they are grown with some direct object in view to have good, strong tubers, and have them all alike or as nearly so as possible in each pan. From four to a dozen may be planted in one pan, according to the size of the pan, supported as the stems grow up by wires just stout enough to hold the plant when tied thereto. Stakes would be unsightly, especially if the appearance of the plant is any consideration. The stems being weak and slim in no way detract from the usefulness of the foliage in decorative work; on the contrary I think that in the hands of a skillful manipulator the plant's slimmness would prove more advantageous than otherwise. Flowers on stiff stems are numerous enough, and what is very often wanted is something that will make up effectively and gracefully with as little artificial assistance as possible. The flowers of **gloriosas** are also capable of being used in decorative work when removed from the plant; and when unique effects are desirable the flowers may be turned upside down in the finished work.

AUCUBAS are sometimes propagated and grown for decoration in the form of filled dishes and they have answered the purpose very well; but I am of the opinion that **Dracaena Godseffiana** is much better adapted for such purposes than **Aucuba japonica**, because it is of more graceful habit at all stages of growth more especially in the early stages. The peculiar color of the foliage, which is one of the distinct characteristics of this **dracaena**, resembles that of **Aucuba japonica**, but is in the green more brilliant and spotted with clearer white. This **dracaena**, as is well known, has the other distinct peculiarity of a branching habit, with a tendency to throw numerous suckers from the base, making it for that reason also adaptable for filling baskets and dishes.

Dracaena Godseffiana is easily propagated from wood with leaves attached and from pieces of the branches devoid of leaves; they root freely when placed in the sand over bottom heat in the Winter or early Spring. They will also root during the Summer. The plants are somewhat slow of growth for a time, but after they start to make roots in the soil in the pots they grow rapidly.

DRACAENA INDIVISA is very appropriate for the center of a tub or vase standing outdoors in Summer when something tall and graceful is desired as a center plant. **Geraniums**, especially double scarlet, look well planted next to the **dracaena**, with variegated vincas for trailing vines. **Dracaena indivisa** is also a stunning plant for window boxes in conjunction with bright flowering plants.
 D. M.

WITTBOLD FLORIST

Wholesale Price List

Palms and Ferns

Variety	Size	Each	Dozen	100
Areca Lutescens.....	4		\$3.00	
Assorted Ferns for ferneries				\$3.00
Asparagus Plumosus.....	2	.50	3.00	
" " ".....	3	.75		
" " ".....	4	1.50	12.00	
" " ".....	6	3.00		
Asparagus Sprengeri.....	2		3.00	
" " ".....	3		7.00	
Cibotium Schiedeii.....	6	\$1.00		
Cocos, 3 in a pot.....	4	75c-\$1.00		
Dracaena Fragrans.....	5		5.00	
Dracaena indivisa.....	3		5.00	
" " ".....	6		5.00	
" " 30-34 high 7		.75	9.00	
" " ".....	8		12.00	
Dracaena Terminalis.....	3		2.00	
" " ".....	4	.25	3.00	
Ficus Elastica.....	5	.35	4.00	
Japanese Fern Balls.....			4.00	
Japanese Pines in Japanese jars			4.60	
Latania Borbonica.....	5		5.00	
Nephrolepis Barrowii.....	2	.75	6.00	
Nephrolepis Bostoniensis.....	2	.50	4.00	
" " ".....	3		1.00	8.00
" " ".....	4		1.50	12.00
" " ".....	4	strong	2.00	25.00
" " ".....	6		4.20	
" " Elegatissima.....	6		6.00	
" " ".....	7		9.00	
Nephrolepis Pierstonii.....	7		9.00	
" " ".....	8		12.00	
Nephrolepis Whitmanii.....	2	1.25	10.00	
Phoenix Reclinata, 4 in.....			doz. 3.0	
" " ".....	6 in		doz. 5.0	
Pandanus Ufflii, 5 in.....			doz. 5.0	
" " ".....	6 in		doz. 6.0	

The Geo. Wittbold Co.
 1657 Buckingham Place,
CHICAGO, - - ILL.

FERNS

Assorted, for jardiniere, strong, healthy plants, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.
Pteris Adiantoides, 3 in. pots, \$5.00 per 100.
Cibotium Schiedeii, 6 in. pots, \$1.00 each.

FRANK N. ESKESSEN, Main St., Madison, N. J.

Home Grown Kentias

Write for Price List
JOSEPH HEACOCK CO.
 Wyncote, Pa.

DRACAENA INDIVISA

25c. to \$1.00 each.
Variegated FUNKIAS, out of 3 in. pots, \$5.00 per 100.
CALLA LILIES, in bud or bloom, for Memorial Day, in 5 and 6 in. pots, 35c. each; \$30.00 per 100.
Large MARECHAL NIEL ROSES, \$1.00 each.
K. E. JUUL, Elizabeth, N. J.

DRACAENA INDIVISA

Nice, large stock from 6 in. pots, \$3.00 per doz.; \$20.00 per 100; second size, \$2.00 per doz.; \$15.00 per 100.
GERANIUMS S. A. Nutt, La Favorita, Grant, 8 in. stock, in bud and bloom, \$4.00 per 100; 4 in. in bud and bloom, \$6.00 per 100.
GEORGE H. BENEDICT, YORKVILLE, N. Y.
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IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.
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 THE BEST BOOK FOR THE PLANT GROWER
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MY SPECIALTY
CIBOTIUM SCHIEDEI, King of Ferns; looks, grows, keeps and sells good.
 4 in., 35c. each; \$4.00 per doz.; \$30.00 per 100.
 7 in., \$1.60 each; \$19.00 per doz.; \$150.00 per 100. For larger sizes, prices on application.

BOSTON FERNS
 7 in., worth each \$2.00; now \$12.00 per doz.
ADIANTUM FARLEYENSE
 2 in., \$1.20 per doz.; \$9.00 per 100; \$85.00 per 1000.

ADIANTUM RHODOPHYLLUM, 2 in., \$4.00 per 100.
ADIANTUM LATHAMI, 2 in., \$4.00 per 100.

Fresh, home-grown fern spores always on hand. Write for list.
 Orders booked now for Fern Seedlings for June, July and August delivery. Over one million in stock, \$1.00 per 100; \$8.50 per 1000. Shipped in or out of flats.

J. F. ANDERSON, Short Hills, N. J.

FERNS

Boston, Pieroni, Barrows, Elegantissima, 4 in., 50c.; 5 in., 25c.; 6 in., 50c.; 7 in., 75c.; 8 in., \$1.00, \$1.25; 9 in., \$1.25, \$1.50.
Whitman, 4 in., 85c.; 5 in., 50c.; 6 in., 75c., \$1.00; 7 in., \$1.50, \$2.00; 8 in., \$2.50, \$3.00, \$3.50.
Kentias, 4 in., 25c.; 5 in., 50c.; 6 in., \$1.25, \$1.50; large plants, \$2.00 to \$35.00 each.
Latonia, 2 in., 3c.; 3 in., 6c.; 4 in., 15c.; 5 in., 25c.; 6 in., 50c.

All kinds of bedding plants at reasonable prices.
Hardy Rhododendrons, Azaleas, Dutchman's Pipe Vines, Clematis, etc., Boxwood from 20c. each to \$3.00.

John Bader, MT. TROY, ALLEGHENY, PA.

WHITMAN FERN

2 1/2 in., \$10.00 per 100. **Scottii Ferns, 2 1/2 in., \$5.00 per 100.**
Ampelis Veltchii, dot grown and staked, 4 in. pots, \$10.00 per 100.
Hardy Ivy, 3 branches, 10 to 18 in. in length, 3 in. pots, \$6.00 per 100.
Kentia Forsteriana, 4 in. pots made-up, strong and bushy, \$25.00 per 100. 5 in. pots, made-up strong and bushy, \$50.00 per 100. No order for less than 10 plants accepted.

CHAS. H. CAMPBELL,
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Scottii Ferns

From bench, ready for 6 in. pots, \$20.00 per 100.
LARCHMONT NURSERIES, Larchmont, N. Y.

NEPHROLEPIS

Whitman, 2 1/2 in., \$10.00 per 100.
Boston, 2 1/2 in., \$3.00 per 100.
Henry H. Barrows & Son, Whitman, Mass.

BOSTON FERNS

From bench and 2 in pots \$3.00 per 100; \$25.00 per 1000.
QUIDNICK GREENHOUSES
J. H. CUSHING, Prop., QUIDNICK, ANTHONY, P. O. R. I.

FERNS

For jardiniere, etc., fine, bushy stock, in good assortment, \$3.00 per 100. **Dracaena Indivisa, 6 in., 25 in. high, 35c.; 30 in. high, 50c.; good stock. English Ivy, 4 in., \$1.00 per 100. Egg Plant, 2 1/2 in., \$2.50 per 100. Salvia Bonifra, 2 1/2 in., \$2.50 per 100. Ageratum, blue, 2 1/2 in., \$2.50 per 100. Silver Geranium, Mme. Sallerol, 2 1/2 in., \$2.50 per 100.**
H. WESTON, Hempstead, N. Y.

Splendid Young Rose Stock in the Very Pink of Good Growth!

Novelties ready for immediate delivery; grand sorts that have made a splendid showing the past Winter; see our trade list for full descriptions from the best European raisers—English, Irish, French and German—beside our own fine red bedder, "DEFIANCE" and the pink garden rose "ROSEMARY".

Betty; Lena; Peggy; Mrs. Shean; C'tess of Gosford; G. W. Korshaw; Countess of Derby; Hon. Ina Bingham; C'tess of Annesley; Dr. Wm. Gordon; Grossherzogen Alexandra; Mme. Leon; Leveque Moss; Mrs. E. G. Hill; (Soupert et Notting); Mlle. Simone Beaumez; Mme. Ancelet (Rugosa).

All the above in choice stock at \$35.00 per 100.

A FEW OF THE BEST NOVELTIES OF 1906:

Reine Marg. d'Italie
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All at \$8.00 per 100.

STANDARD VARIETIES IN EXCELLENT STOCK.

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lot	English
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White Cochet	ting
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All at \$2.25 per 100.

In even quantities \$20.00.

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The Charming Lady Gay, at...\$5.00
Frier, at...10.00
Debutante, at...8.00
Leontine Gervais, at...25.00
The following Climbers at \$2.25 per 100,
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Dorothy Perkins Farquhar
Tanus Blum Non plus Ultra
schen Philadelphia
Wiegand's Crim- Rambler
son Rambler Lily Ito

ONE OF THE FINEST COLLECTIONS OF YOUNG H. P.'s IN THE COUNTRY.

Fran Karl Drusehki (White American Beauty), per 100...\$8.00
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The following at \$3.00 per 100,
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Boule de Neige General Jacq
John Hopper Mrs. Sharman
Maurice Bern- Crawford
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FINE STOCK OF FERNS

Piersoni	per 100	per 100
Barrowsli	\$2.50	\$20.00
Boston	2.50	20.00
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Finest of the Scarlet Phloxes, Coquelicot

Nice young pot plants, at per 100.....\$6.00

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2½-inch pots, nice short plants, at per 100.....\$3.00
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Nice stock just established, stand-ard sorts, at per 100.....\$2.00
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A splendid chance to stock up after the scarcity of the season. All the Nutt, Castellane and other fine sorts you may wish.

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Assorted standard varieties, per 100.....\$2.00
The new Coleus, "Sensation," finest of new things, per 100.. 5.00

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Crimson Ramblers strong, ebapely plants with an abundance of flowers. 7-in., 50c., 75c., \$1.00 each.
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Cannas, strong plants, \$10, \$12.50, \$15, \$20 per 100.
Crotons, assorted varieties, \$25, \$35, \$50 per 100.

Hydrangeas, \$20, \$25, \$50, \$75 per 100.
Pertwinkle, extra long, 4-in., \$15, \$18 per 100.
Geraniums, 4-in., all colors, \$8, \$9 per 100.
Coleus, 3-in., \$4, \$4.50 per 100.
Alternanthera, 2½-in., red and yellow, \$4.00 per 100.
Hardy Ivy, 3 and 4 in., \$10, \$12.50, \$15 per 100.

Also a General Assortment of Miscellaneous Bedding and Basket Plants

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P. Major, 2-in., 2c. Aurea Nana, Ro-sea, 2-in., 2c.
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CUPEEA, 2-in., 2c.
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ROOTED CUTTINGS, prepaid per 100.
FUCHSIA, 5 kinds, \$1.25. **AGERATUM**, white, **GURNEY**, **PAULINE**, 60c.
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Antirrhinum, Grand white, pink and yellow, \$3.00 per 1000.
Cash or C. O. D.

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40,000 VERBENA PLANTS IN BUD AND BLOOM

Our selection	\$2.50 per 100; \$20.00 per 1000
Purchaser's Selection	\$3.00 per 100; \$25.00 per 1000
Verbena Cuttings, our selection	75c. per 100; \$6.00 per 1000
Verbena Cuttings, purchaser's selection	90c. per 100; \$8.00 per 1000

GRAFTED ROSES, the Finest and Best Grown

Liberty, Richmond, La France, Killarney	3½ in. pots.....\$18.00 per 100
Bride, Bridesmaid, Golden Gate, Kaiserin	rose pots.....\$10.00 per 100
	3½ in. pots.....\$15.00 per 100

ROSES, Own Roots

Bride, Bridesmaid, Perle	3 in. pots, \$7.00 per 100
La France, American Beauty	3 in. pots, \$9.00 per 100
100 Ivory, 100 Wootton, 100 Bon Silene, 100 Meteor, 100 Marechal Neil, 300 Liberty in 3 in. pots, which we offer at \$5.00 per 100. Good stock.	
200 Golden Gate, in 3 in. pots at.....	\$7.00 per 100

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Mail all inquiries to

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BELGIAN PLANTS, FINEST STOCK, LOWEST PRICES

Order Quick

Quick Delivery

Araucaria excelsa, fine plants, '20.00 per 100 up.	Aspidistras variegated, \$7.00 per 100 leaves. Rubber Plants, (Eucalyptus), \$9.00 per 100. Kentias, Arexas, Latanias, Phoenix, etc., etc., from \$7.00 per 100 up.
Rhododendron Hybrida, 24 named varieties, \$18.00 per 100 up.	Bay Trees, from \$3.00 per pair up.
Aucuba japonica, \$10.00 per 100 up.	Azaleas, Dracenas, etc., etc.
Aspidistras green, \$4.00 per 100 leaves	

F. O. B. Ghent, if unsold on receipt of order. Write for Catalogue.

L. VAN STEENKISTE

HORTICULTURE INTERNATIONALE

1 Dey St., Jersey City, N. J.

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FOUNDED IN 1888



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

Exclusively a Trade Paper.

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

American Carnation Society.

Department of Plant Registration.

By Mrs. Jennie P. Suow.

ANDREW CARNEGIE, a red sport of Harlowarden, a perfect glowing scarlet, good keeper and fine shipper, much freer than Harlowarden and a continuous bloomer with a perfect non-bursting calyx.

This name is used provisionally to be approved or rejected at the next annual meeting of this society.

ALBERT M. HERR, Secretary.

Horticultural Society of New York.

The International Conference on Plant Hardiness and Acclimatization to be held by this society, will take place September 30 and October 1 and 2 in the rooms of the American Institute and the Museum Building of the New York Botanical Garden.

The second day, October 1, will be devoted to some form of pleasure, possibly an excursion to some place of interest in the neighborhood.

As we are about to issue a preliminary program, my committee would be glad if you would send me at once the correct title of any communication that you are prepared to submit to the Conference.

LEONARD BARRON, Secretary.

NATURE STUDY.—The eighth annual exhibition of the Steuben County (N. Y.) Nature Study Workers in Public Schools (H. L. Drummer, manager), will be held at Bath, N. Y., under the auspices of the Agricultural Society, September 24 to 27, 1907, inclusive, Children's Day being on September 25. Prizes are offered as follows: Children's prizes \$1,000; individual work, \$550; grade work, \$450.

The schedule of premiums has been issued by Mr. Drummer. It is both unique and interesting. In addition to an enumeration of the prizes in the various classes there is given "A Talk about Weeds," of an instructive character. A feature of the schedule is formed by the prizes offered for the best and second best essays on a number of topics, collections of drawings and of insects, all to be competed for by school children. Among those contributing special prizes are Peter Henderson & Company, New York; Arthur Cowee, Berlin, N. Y.; Professor Bailey and C. E. Munn of Cornell University.

AMERICAN PEONY SOCIETY.—The next meeting and exhibition of the American Peony Society will be held at the State College of Agriculture, Cornell University, Ithaca, N. Y., on Tuesday and Wednesday, June 18 and 19, 1907.

A. H. FEWKES,
Secretary.

TO OUR ADVERTISERS

We cannot guarantee insertion of or correction on any advertisements received after 5 p. m. on Wednesday.

Bogus Advertisements.

At its last meeting the Florists' Club of Washington, D. C., discussed some unsavory practices which, it seems, are common with particular advertisers in the trade papers, looking to the provision of a remedy for the evils complained of. It was brought out in the discussion of the subject that "money had been sent in response to a tempting advertisement, only to find the articles received totally unlike those offered, and, in some instances, the money was never heard from." One member claimed that he "had sent money with an order for chrysanthemums which he had seen advertised, and heard nothing therefrom for six weeks." When he at last succeeded in receiving a response, he "was notified that the stock had been sold, and, as a compromise, was offered some celery plants!"

Practices such as these are not at all conducive either to confidence or the enlargement of one's business, and would not be carried on by any one having even the smallest smattering of what good business methods are. They are a menace to trade interests, and are sure to react on those imprudent or wicked enough to indulge in them.

The Florists' Exchange has time and again urged its advertisers to keep their offerings up to date. It has decried unauthorized substitution at all times, and has advised that when an advertiser is sold out of the stock desired by his intending customer, the money, if sent, be immediately returned to the sender, accompanied with an explanation of the exact condition of affairs.

To follow this advice is simple, and the benefits resulting from the carrying out of it must be patent to all whose desire it is to be respected, traded with, and who hope to remain in business.

We believe, however, that advertisers are not wholly to blame in every instance of this kind. There can, of course, be no excuse for the man who furnishes stock of a grade below that specified and described in his offerings, and who accepts a purchaser's cash on the understanding that what is advertised will be provided; neither can there be any extenuation of the crime of retaining one's money and neglecting to send its equivalent as ordered. And while the offer to substitute "something just as good" for the stock originally requested may be regarded by some as an evidence of the "pushing" merchant, such substitute stock should never be sent without the consent and concurrence of him who is to receive the same.

Cases may and do arise where advertisers are sold out of particular stock offered prior to the receipt of certain orders for it; and this is a condition which has undoubtedly become very much aggravated through modern (?) trade journal practices. It is not uncommon for one or more of these "enterprising" business bringers to copy from their contemporaries' advertisements, and insert them a week later than the date on which they originally appeared, "without cost and on approval." In the meantime the goods offered have been disposed of through the first and authorized advertisement. We recently heard of a case where the advertisement of a grower of verbenas had been repeated without authority in a trade paper just a year after its first appearance, with the result that when applied to, the advertiser had none of that particular stock for sale at the date of the second appearance of the advertisement.

Nothing but confusion, disappointment, lack of confidence and a complete disruption of business can proceed from such objectionable and illegitimate practices. And the worst part of it is that the blame is unjustly and unwittingly placed on the advertiser, when it belongs elsewhere.

A few strong protests, or perhaps, a damage suit or two, rather than winking at and condoning this particular grade of trade paper enterprise, would prove salutary, and save both advertisers and prospective purchasers much chagrin, cuss words, and financial loss.

As a closing word we repeat: Keep your advertisements thoroughly up to date: sit down hard on the "free" advertisement humbug, which tends to demoralize your trade relations and besmirch unjustly your business reputation; furnish only the grade of goods you offer; don't substitute without authority; return your intending customer's money, and at once, when you cannot supply him with what he orders. In short, conduct your business on the best business principles—if you hope to succeed and stay in it.

Better than riches,
A good name.

Gladiolus America.

H. H. Groff, Simcoe, Ont., sends to the Shiocton (Wis.) News a reply to the letter of Wilbur A. Christy, an extract from which appeared on page 612 of our issue of May 4, 1907. Mr. Groff says:

"My reason for not accepting your kind invitation to write of this useful variety was due to the fact that I had already done so through a Chicago trade paper, and had there met every argument advanced, by a clear statement of facts, which are still awaiting successful contravention. It will not require three columns of your valuable space to detail the actual facts, not one of which is advanced by Mr. Christy in his exhaustive but futile effort to secure credit on presumptive evidence only.

'America' as such was first seen by me in 1906, the first year it was offered for sale, and on blooming I recognized it as No. 119, and Mr. Cowee's No. 769, both selected from my commercial stock from which sales have been made for ten years or more, to growers who have voluntarily stated that they first received 'America' in my stock. Of course, these were regular buyers of my good qualities and therefore the variety was no surprise to them.

"Mr. Banning got many uncultured seedlings from me, and in his system of classification is good he might settle the question so far as he is concerned. He first mentioned the variety to me in 1904 at the St. Louis World's Fair, offering it for sale, but most emphatically declined to send me any of the stock for my inspection. He there stated that he did not know its origin. I wrote him three times on this subject, after my trial, to which he did not reply, for reasons best known to himself.

"In brief reply to the statements by Mr. Christy, I beg to say that I wrote him after my interview with Mr. Banning at St. Louis, and before I had seen 'America' as such, for the purpose of getting the facts Mr. Banning was unable to supply, and my complimentary suggestion that 'Christy' was a more appropriate name than 'Warder,' could in no way be construed as an admission, on my part, that he was the originator as the flower was unknown to me as above stated. I am surprised that Mr. Christy should bring in such flimsy evidence as this in support of his claim, when he knows that it could not possibly be of the slightest value in that regard.

"I have already stated publicly, that on trial, 'America' proved to be identical with the original stock here, and that on every point of comparison, habit of plant growth, form and coloring of the flowers, period of flowering, form and color of the corm and habit of cormel production and productiveness, (2000 to 5000 per cent annually).

"The foregoing detail is known to Mr. Christy, but he chooses to consider it insufficient evidence, and he writes three columns of irrelevant matter, without offering a fraction of the facts that I hereby submit to consideration of your intelligent readers.

Mr. Groff also kindly furnishes us the following summary of the whole matter:

Editor Florists' Exchange:

With the foregoing reply to Mr. Christy's article, prepared by me for Mr. Crawford's paper, I add the following brief summary of the situation for the consideration of your readers.

Mr. Banning, the multiplier, has admitted that he does not know the origin of "America." Christy and Allen, former and present employees of Banning, are no better informed and supply no evidence in fact.

Groff had selected it with hundreds of others just as good many years ago, had it before any of the above parties knew it at all, sold it in mixtures to growers who voluntarily report that they first got it in his stock. He also had some selected under number (my practice for purposes of observation) before he ever saw the variety bloom under its new name.

When the foregoing facts are met by some facts, the support of presumptive evidence is in order, but not before.

On my side we have live facts; the original selections are here and have been for some fifteen years. On the other side, a wish, a futile, fleeting hope, supported by the remarkable argument, my courteous suggestion of 1904, made in reply to his claim and before I had seen the variety—that "Christy" would have been a more appropriate name than "Warder." Such evidence is too ridiculous to be absurd.

"America" will bloom here this season with the original selections made at the same time, and among these hundreds of varieties—will not attract passing notice in contrast, this is why growers of critical experience in good quality have not been unduly excited over the variety when first received, quality being only a comparative essence.

H. H. GROFF.

Another correspondent (M. C.) of the same newspaper comments on the subject as under:

"If Mr. Groff sent it out it is scattered among his customers but they don't know it. If Mr. Christy sent it out he retained the bulbs, and the variety should have been appearing in his collection for five or six years, but he makes no mention of it. It was sent out as a cross between the Childsii and sandavensis. Messrs. Groff and Christy say that it has no Childsii blood in it. My experience makes me think that they are mistaken. The Blanche is a pure Childsii. I have grown it by the thousand and would recognize it anywhere. A year ago I planted nearly 1000 blooming bulbs of the 'America' and when they came into bloom it was the Blanche over again all but the color. I thought it must be a sport of the Blanche. The wonder is that a man of Mr. Groff's experience would ever send out such a grand variety in a lot of mixed stock, especially after taking notice of it and giving it a number."

Still another correspondent (B. F. White) thinks that Mr. Christy has proved his claim to being the originator of *Gladiolus Americanus*. "At any rate, the evidence he has given, and the arguments to support the evidence, cannot be set aside."

He adds: "I was not greatly surprised when I learned that Mr. Groff claimed the credit. Growers of his hybrids, both in Canada and on this side of the line, are disposed to claim everything in sight in gladioli. It would not have surprised me at all if some of them had claimed the 'Princes' as a Groff's hybrid. That would probably have been the case had not the Doctor given it a distinctive name before sending it out." Mr. White then goes on to say:

"As to its being a *gandavensis*-*Childsii* cross, I simply don't believe it. There is nothing about it that shows anything but pure, good, old *gandavensis* blood. I have crossed the *gandavensis* with the *Childsii* ever since the latter was introduced and have grown thousands of that cross, so I am well able to judge. I owe much to the introduction of the *Childsii*, and so does every other breeder of these flowers in this country. With the exception of the Lemoine, every strain or family of gladioli of any note shows abundant evidence of the *Childsii* blood, but I can see no sign of it in *Gladiolus Americanus*."

"Mr. Banning deserves much credit for seeing the value and propagating it largely, and he made a tidy bit of money out of it for which everyone ought to be thankful, but he should come forward with some proof that it is a *gandavensis*-*Childsii* cross, and tell us when, where, and how it originated. Let us have the facts."

OUR READERS' VIEWS

Deception in Advertising.

Editor Florists' Exchange:

In your last issue was mentioned the fact that a member of the Washington Florists' Club had asked if some method could not be devised by which the buyer of stock offered through the medium of the trade papers, would receive protection from misrepresentation as to the quality, etc. The writer having had some experience along the lines referred to, desires to say that it is with regret such things have to be mentioned plainly, but in justice to the customer, and paper which accepts the advertisement in good faith, the practice complained of should be suppressed. The firm or individual, which in glaring type offers stock that cannot be supplied in quality meeting with the buyer's expectations, does inestimable harm; he loses not only the confidence of his customer and destroys prospects of future orders, but works a great injustice to the paper which accepted his offer as bona fide. The trade paper is relied upon, and the firm advertising in it should also be. The blame originates and ends with the advertiser, and he cannot expect success where such deception is practiced. Our honorable profession is one well calculated to elevate and refine, but it cannot do so unassisted by personal effort. Our business career is hinged upon honorable dealing; our word should be our bond. In justice to the trade generally, let the stock sent out be at least as good as represented. By this method we not only gain and hold the confidence of our customers and protect ourselves, but do justice to our valued trade papers which accept the word of the advertiser that he can supply the goods offered. Maintain the confidence of the customer, and last but not least, the trade paper, which in good faith accepts and prints your advertisement. J.

Winter-Flowering Sweet Peas.

Editor Florists' Exchange:

In reply to Mr. Weston's communication in the Florists' Exchange of May 4, I would state that twelve years ago I might have agreed with what he says, but not to-day. The sweet pea Countess Spencer has not produced the sports he names, but all the new varieties obtained from it have been the results of its having been cross-fertilized with mixed pollen. It is a well-known fact that some varieties that have been crossed come, after several generations, the colors wanted. I myself have nine different colors from the Countess Spencer, all of which I have crossed with several of my Christmas flowering sorts, and have obtained good results. Some of the progeny assume the early flowering habit, and they are to-day just as they were the first year. Others retain the late flowering habit; the latter I have sown without adding any other pollen to them, and every year have obtained several early flowering varieties of the colors that I worked for the first year. Many might think that these new sorts are sports, but I have proof that they are the result of hybridization. The same holds true in the case of Gladys Unwin varieties.

Mr. Weston wants me to produce a yellow, a *salvia* blue or a scarlet sweet pea. These colors I think I have already on hand, and if Mr. Weston has a greenhouse suitable for the growing of sweet peas, I will be pleased indeed to send him next Fall seeds of these, and probably others, and he will then be in a position to exhibit the flowers at the Temple Show in 1908.

I do not at all think that I allow my seedlings to

go out of my hands too soon. Every one of them, before leaving my place, has at least been four years in cultivation, and each one, with the exceptions of several stray seeds, will come true.

Mr. Weston seems to be somewhat sceptical of the value of my early flowering sweet peas. All my varieties are adapted to and recommended for forcing under glass, and every florist who has once tried my varieties in the greenhouse will never grow any of the late flowering kinds by that method. Of this I feel sure Mr. Weston himself will be convinced after he has tried my early flowering sweet peas.

Bound Brook, N. J.

ANT. C. ZVOLANER.

P. S.—In response to Mr. Sim's letter in last week's issue of The Florists' Exchange, I would state that I examined the sweet peas which Mr. Weaver calls "sports," and found these independent plants, the same as is seen in any early flowering sweet pea seedling the first year when crossed by the late flowering varieties. My opinion is that what Mr. Weaver has are chance seedlings, having probably been cross-fertilized on the seed farm. Mr. Weaver failed to show me any of the white, flesh or scarlet "sports."

I accept Mr. Sim's generous offer to try my sweet peas along with those of Mr. Eglemann and the Algerian strain in his greenhouses, under the supervision of the Boston Florists and Gardeners' Club, the Massachusetts Horticultural Society or any other florist organization. I will put any of my new varieties in Mr. Sim's hands.

A. C. Z.

CLUB AND SOCIETY DOINGS.

NEW YORK FLORISTS' CLUB.—One of the most interesting meetings the club has had for some time was held on Monday evening, May 15, 1907, in the Hotel Earlington, West Twenty-seventh street. President Totty occupied the chair. The Board of Trustees and the officers recommended a life membership on payment of \$100. As this involves a change of the by-laws, the matter was held over for discussion at the next meeting. Reports of progress were made by the committees on closer relations with the S. A. F. O. H., on the permanent home and the outing, the latter committee announcing that prizes and advertising to the value of \$500 had been secured, assuring the success of this annual event, which takes place on July 2 at Witzel's Grove.

The club being at present without any permanent meeting place, the Board of Trustees were authorized to secure one as early as possible.

S. S. Skidelsky of Philadelphia read his paper on "The Proposed National Flower Show at Chicago in 1908." The paper was listened to very attentively, and Mr. Skidelsky was accorded a rising vote of thanks for what Mr. O'Mara correctly called "a careful and thoughtful analysis of the subject." The paper appears in this issue.

A lively discussion ensued on the holding of flower shows generally, and those in New York in particular. Mr. O'Mara went thoroughly into the matter of New York's exhibitions, pointing out the previous efforts made, the successes, the failures and the disadvantages under which the metropolis labored in comparison with other large cities, so far as the holding of flower shows was concerned. He eulogized the work of the private gardeners in this connection, especially those around Chicago, Philadelphia and Boston, and deprecated the lack of cohesion existing in New York and neighborhood among the trade. It was almost impossible to enlist the sympathy of the New York retailers in any flower show venture. While fully convinced of the value of exhibitions, Mr. O'Mara was under the impression that the real promoting factor in the advancement of horticulture was the market, as there the stock offered was subjected to the most crucial test.

Some of those taking part in the discussion contrasted flower show conditions existing in Europe, particularly in England and Germany, with those in America, to the advantage of the foreign countries. It was also pointed out that New York was rather unfavorably situated so far as daily newspaper exploitation being given to flower shows held here is concerned. It was thought, too, that the amateur interest in exhibitions was not fully catered to. The final outcome of the discussion was the appointment of a committee, consisting of Messrs. O'Mara, Wallace and Secretary Young, to endeavor to secure the co-operation of the Horticultural Society of New York in the matter of holding a flower show, also that the club co-operate with the Chrysanthemum Society of America at its forthcoming exhibition, to be held in this city. Those taking part in the debate were Messrs. Totty, O'Mara, Jaenicke, Guttman, Wheeler, Wallace, Burnett, J. A. Manda, Butterfield, Turner, Weston, Henshaw, Gernecht, Lenker and Marshall, Mr. Wheeler commending the younger members for the interest shown by them in club affairs.

Mr. Traendly moved seconded by John Birnie that the club subscribe \$250 toward the guarantee fund for

the proposed national flower show. This matter will come up for final settlement at the next meeting.

Mr. O'Mara made the suggestion that the club, at some date in the near future, hold a field day in the Botanical Garden, Bronx Park, which proposition was most favorably received, and will, no doubt, be acted upon soon.

An appropriation of \$50 was made to the house committee.

A vote of thanks was passed to the proprietor of the Hotel Earlington who had kindly given the use of the meeting room to the club free of charge; and after partaking of refreshments the meeting adjourned.

ST. LOUIS FLORISTS' CLUB.—One of the largest attended meetings of the florists' club was held last Thursday afternoon in the Burlington building. President Irish and his officers are much pleased at the interest taken. The meeting opened promptly at 2 o'clock with twenty members present. G. Brown was elected to, and Conrad Bergstermann made application for membership. With these two the list will again reach the hundred mark. The trustees reported that they had made all arrangements for entertaining the members in celebration of the twentieth anniversary, on Saturday evening, June 29, at 8 o'clock, in the new Hibernian Hall, Grand and Finney avenues, and that every minute of the night there will be something doing. A motion was made that the trustees be instructed to arrange for the club's annual picnic to be held some time in July, for which the club voted \$50 for expenses. A report of this affair is expected at the June meeting.

The interesting part of the evening came when the question box was opened; it contained nine inquiries. The one most discussed was fumigation. Messrs. Fulgraf and Pring of Shaw's Garden and J. F. Ammann, Edwardsville, leading the discussion. This subject, says President Irish, will again be taken up at the June meeting, and the president will map out an interesting program for that date—June 13, at 2 o'clock.

ST. PATRICK.

LENOX (MASS.) HORTICULTURAL SOCIETY.—The regular meeting of this society was held Saturday, May 4. President Heeremans in the chair. Thomas Proctor was awarded a first class certificate of merit for two very fine plants of *Rehmannia angulata*, grown and shown for the first time at Lenox. This very beautiful half hardy herbaceous perennial comes from Central China. It is very free flowering. The blooms are borne up the stem, and are rosy purple about three inches in diameter, having a rich yellow throat dotted with purple. The individual flowers are large, striking and showy. Seed sown early in the year, the plants will flower the same year. It is a welcome addition for conservatory use. Mr. Proctor was also awarded two certificates of cultural commendation for two well grown plants of *Schizanthus Wisetonensis*, in 10-inch pots, and *Phlox divaricata* in 10-inch pans. The next meeting night will be Saturday, May 18, when important business will be brought before the society.

American Rose Society.

The executive committee of the American Rose Society will meet in executive session at the Hotel Martinique, New York, the latter part of May, and among other things will take the first steps toward preparations for next year's show at Chicago.

There have been a few life members added to the society this Spring, all of which increase its permanent fund.

W. S. Nickerson, Cambridge, Mass., who is a great rose enthusiast, a member of the American Rose Society as well as of the National Rose Society of England, offers three prizes, which created an unusual interest among the English growers. The prizes were of the amount of five pounds each, and were to be awarded to three classes of roses; the first for the best hybrid perpetual rose introduced since 1900; the second to the raiser of the best hybrid tea rose introduced since 1900, and the third to the raiser of the best tea rose introduced since 1900. The Rose Society of England selected men, both in professional and amateur ranks, to the number of sixty, which body was to decide on the awarding of these three prizes, and the result was that prize number one was forwarded to the raiser of Frau Karl Druschki, which received 54 votes out of the total of 55; prize number two went to the raiser of Dean Hole and number three to the raiser of Madame Jules Gravereaux. Such a decision should settle for some time to come which was the best acknowledged new rose of these classes, and this fact will no doubt be received with interest by the American public interested in roses.

BENJAMIN HAMMOND, Secretary.

Fishkill-on-Hudson, N. Y.

THE NATIONAL COUNCIL OF HORTICULTURE has, through James Burdett, Chicago, issued the eleventh instalment of its press service, the subjects dealt with being Valuable Herbaceous Plants, Vines for the Veranda, and a Backyard Garden.

The Proposed National Flower Show.

Read before the New York Florists' Club, by S. S. Skidelsky, Philadelphia, Monday evening, May 13, 1907.

It has been very kind of your Florists' Club, represented by the chairman of its essay committee, Mr. Wallace, to invite me to address you on a subject that it seems to me, is of absorbing interest, not only to the members of our craft having the welfare of horticulture at heart, but to every amateur, to every private gardener, to every man and woman throughout the land whose love for the beautiful and the ornamental in nature can neither be gainsaid nor ignored.

An Epoch-making Event.

The proposed national or international flower show, to be held at Chicago during the month of November, 1908, will unquestionably prove an epoch-making event in the history of horticulture.

And right here the thought occurs to me, that unless we put forth our best efforts and our utmost energies, bearing in mind that upon the success or failure of this first attempt hinges the future of an industry, involving millions of dollars; unless we stand shoulder to shoulder and work for the common good of all, each according to his means and might; unless we do this, I say, we shall have no right to enter the ranks of progressive business men.

It is nearly two years ago, at Washington, when E. G. Hill, the sage of Richmond, Ind., first broached the subject of a national flower show. His observations on the European continent, where such shows are held necessary premium guarantee fund was started. Some-

ried away by the idea, and a subscription list for the thing like \$4,000 was subscribed there and then. Thus the idea of a national flower show—the first show of the kind ever attempted upon the American continent—bids fair to become a successful reality.

I shall not attempt to portray to you the grandeur of the show itself or the magnificent hall, the Coliseum, where it is to be held. Such is not the object of this brief paper; nor indeed am I equipped to go into any details of the sort.

That American enterprise, inspired by the "go ahead" spirit characteristic of our people, will triumph despite all obstacles and despite all predictions to the contrary, is a foregone conclusion with many.

The Mission of the Exhibition.

The national flower show, it may be deplored upon, will not only come to pass, but like any other great work ever attempted by public spirited men for the benefit of a people at large, it is destined to fulfill a mission. It aims to educate our people, to enthuse them, to inspire them with a desire for all that is beautiful in nature, to show them by means of an object lesson how things can be done, how the humble object and the humble cottage of the workingman can be made as attractive in their way as the magnificent grounds surrounding the stately mansion of the millionaire. What the progressive and enterprising florist has attempted and has carried out in a small way in his own town; what public spirited individuals have accomplished by way of spreading the idea of horticulture in their own communities, the national flower show aims to do on a large scale.

element, viewed in the light of pure utilitarianism or commercialism, a national flower show, such as it is intended to hold at Chicago, must, as a matter of course, bear good fruit.

The Results of Combined Effort.

We need but recall the early struggles of the florists of a generation or two ago, men still living in the midst of us, their trials and tribulations long before a Society of American Florists and Ornamental Horticulturists sprung up, long before a Carnation Society made its appearance or a local flower show of any sort was ever thought of, to arrive at the conclusion that the progress we have achieved was due in a large measure, not so much to individual endeavor or to individual enterprise, as to a combination of efforts, having for its aim the benefit of each, individually, and of all as a body.

Whatever arguments one may advance in favor of that hackneyed injunction: "Attend to your own business," etc.; whatever success one may point at as the result of strict attention to one's own affairs, it is a fact beyond dispute that the Society of American Florists and Ornamental Horticulturists is responsible for most of our achievements in the past and, if I may venture a prophesy, for much more that we are sure to accomplish in the future. I will go further and say that the Society of American Florists, as a body composed of earnest, energetic, progressive and intelligent men, is directly responsible for the success of the very fellow, who "can't see what good it will do him to join such a society." What good? Let the history of our society speak for itself. Twenty-five years of energetic work along progressive lines has brought about the results which we see in the greenhouse, at the store, on the highways and byways throughout the land. Our improved products, the cultivation of the button-sized carnation, the measly rose and chrysanthemum, not perfect specimens of their kind, our improved facilities of marketing our products, our modernized business methods, etc., are all due to organized effort, to the Society of American Florists. "What good?" I need but cite the recent victory scored by our society before the Inter-State Commerce Commission—a victory that will compel the United States Express Company to charge reasonable rates and, incidentally, will save dollars to the man who "can't see any good" in our society. Verily "in union there is strength." We all know by experience what it means to give a local flower show; we know how these flower shows, whether financial successes or financial failures, have induced the growers to vie with each other in their efforts to display their best products; how these in turn have induced the dealers to handle the best at prices remunerative to both the growers and themselves; how, furthermore, the flower-buying public has learned to discriminate, to draw the line between the high-grade flower and the semblance of one, not marketable at any price. The demand at all times, as we all know, is for high-grade stock. To the man or woman, to whom all flowers looked alike but a few years ago, nothing but the best appeals to-day. Whence this change, this tremendous advance along progressive lines within but a comparatively short space of time? The answer is easily given: The local flower show, often held under adverse and discouraging conditions, has brought about this result; it has educated the public; it has brought the grower and the dealer together; it has induced the private gardener and the amateur to advance to the front and to improve upon past achievements.

Thanks to these shows we have ceased to dwell within our own shells, to grope in the dark, as it were, each for himself. We have learned by actual experience the lesson of combination, or "community of interests," if I may borrow the expression that has originated somewhere on Wall Street.

What has been accomplished, I repeat, by the progressive florist in a small way, in his own town; what the public spirited individuals have brought about in their own communities; what the florists' clubs have achieved by means of giving occasional flower shows, the promoters of the national flower show aim to accomplish for every florist, nurseryman, gardener and amateur of every city, town and village, in every State in the Union.

It is the aim and object of the national flower show to be held at Chicago, not only to bring forth the best there is in cultivation, both here and abroad, for the inspection of "society folks," but also to inaugurate a campaign of education for the benefit of our people as a whole; to demonstrate, if such a thing be possible, through the public press and by means of circular letters, pamphlets, etc., to the great mass of horny-handed Americans the beauties and wholesome influences of shrubs, flower beds, lawns and trees—in a word, to promote horticulture in all its branches among all the people.

The Outlook.

How often do we hear such remarks as, "horticulture in this country is still in its infancy; that the possibilities for its development are practically unlimited; that much as we have advanced during the past decade



New Store of Winterson Seed Company, Chicago

annually under the auspices of Royal and National Horticultural Societies, as in England and France for example, led him to believe that an enterprise of this sort, undertaken by the Society of American Florists and Ornamental Horticulturists and given under the auspices of the American sovereigns—the people—could not help but prove a success.

And how, I will ask in passing, could it prove otherwise?

As a matter of course, opinions pro and con were freely expressed on all sides. There were those who predicted inevitable failure, basing their predictions upon no other grounds than such as presented themselves to their distorted, pessimistic imaginations. Why, indeed, should a national flower show be thought of at all? Why? Haven't we plenty of local shows of all kinds, they reasoned, that never pay?

"And who would benefit by this national flower show anyway? Men, who have something to sell, of course. It is all nonsense, they concluded, and there is nothing in it."

There were others, however, who took a broader, a much broader view of the situation, whose mental vision was in no wise circumscribed by petty jealousies or selfish motives of one sort or another, who could see at a glance the great possibilities for the advancement of horticulture; who could realize the inestimable opportunities and advantages that would accrue to our interests; who, in brief, took a retrospective view of horticulture, comparing the present with the past and drawing their conclusions as to the future. Kindled by an enthusiasm well worthy of the cause, there soon formed a small circle of men, who was, so to speak, car-

We are all familiar, more or less, with the history of the National Cash Register Company's institution at Dayton, O. We know that Mr. Patterson, the head of that model institution, has worked long and hard to transform a wilderness into a garden spot. We have been told how rowdism that took pleasure in wanton destruction of flower beds and lawns was converted in the end to the gospel of ornamental horticulture; how unsightly cottages in the immediate vicinity of that institution were transformed into beautiful little palaces; how tin cans and rubbish heaps of all sorts disappeared, flower beds and shrubbery taking their place. To the moralist such a transformation bears another lesson, for who will question the benign and wholesome influence of beautiful surroundings upon the mind and character of the child, the youth—our future lawmaker or law-breaker?

He was a wise man indeed, who said: "Tell me your company, and I will tell you who you are." To paraphrase this saying we may put it thus: "Show me your surroundings and I will define your character and social standing in your community."

After all we are but creatures of circumstances. To the one who rises from amidst squalid and filthy surroundings and forces his way through into a world of light, there are hundreds who succumb to the darkness and wretchedness of the nether regions.

If I remember right, it was the late Benjamin Harrison, who, in a speech at one of the Indianapolis chrysanthemum shows, remarked, that "the man who loves flowers, was never known to abuse his wife"—or something to that effect.

But, to return to the subject, stripped of its moral

or two, the future development of horticulture bids fair to surpass our most sanguine expectations." If this be true, as it unquestionably is, is it not high time that we make some effort to hasten the approach of its development? Is it not within our own power to devise some means and ways in order to bring about the results desired more speedily and within our own time? Why wait until Mrs. Jones's infant daughter, playing upon a rubbish heap in that back yard, may some day, when she grows into womanhood and has a home of her own, prefer a canna bed to a bed of tin cans? Why not show to Mrs. Jones herself the striking contrast between the two, the beauty of the one and the unsightly, ugly features of the other. Is it not within the range of possibility that Mrs. Jones may turn the scales in favor of the flower bed?

Aside from the fact that the national flower show is sure to bring dollars and cents into the pockets of the very men who have neither the time nor the patience for "such innovations;" aside from the fact that a show of this kind is sure to benefit our people at large, for no industry, be it the cultivation of sugar beets or shrubbery, was ever known to prove other than beneficial to a community; aside from these obvious facts, we must not overlook the educational, esthetic and moral features of such a flower show—a benefit that can neither be over-estimated, nor can it be estimated by the usual standard of dollars and cents.

After all the future of horticulture, like the future strength and stability of our beloved republic, depends, not so much upon the favored few, able to gratify their whims and desires, as upon the great mass of the American people. The future of horticulture hinges not upon what is being or will be done at Newport, along the Hudson or at Lenox, but upon the general improvement in the conditions, environments and educational standards of our people throughout the great American continent.

Just as soon as the miner in the Pennsylvania coal regions, or the laborer in the over-crowded tenements in our cities, or the farmer in the Dakotas, will deem it a necessity to relieve the squalor and the painful monotony of his daily surroundings by the introduction of a potted plant, a flower or a shrub into his home; just as soon as this comes to pass, as come it will, the future of horticulture will be laid on a solid and most enduring foundation.

Concerted Action Necessary.

And right here I can scarcely refrain from saying a few words (although I am repeating myself) on the need of organization, on the need of concerted action in behalf of a common cause. That Chicago will have the honor as well as the herculean task to hold this first national flower show does not necessarily mean, as some perhaps are prone to think, that this is to be a Chicago affair. Not by any means. While Chicago undertakes the work—and a tremendous work it is—it will depend on the aid and co-operation of the Eastern cities and the Eastern growers. This is certain. It is likewise certain that in order to make a success



Bird's Eye View of Greenhouse Plant of Bertermann Brothers Company at East Washington Street, Indianapolis, Ind.

Photo taken from an adjoining high tower.

of this, our first attempt, there must be no division of forces, no division of interests, no geographical lines drawn. Boston as well as Milwaukee must come to the front and help share the burden of Chicago. "Let us ever remember," said the late President McKinley, "that our interest is in concord, not in conflict." Let us remember this, if we wish to see horticulture upon a plane equal to that of any other great industry in our country.

AMONG THE GROWERS

John Scott, Brooklyn, N. Y.

John Scott, the wholesale plant grower of Flathush, Brooklyn, N. Y., well known as a grower of high-grade decorative plants, has gone into bedding plants very heavily this Spring. From the appearance of his houses at the present time one would scarcely believe, that the week following Easter his whole establishment was about depleted, seeing that he now has every foot of space filled with a choice collection of bedding plants in their several kinds. He has a little over 12,000 can-

nas in the best varieties; 100,000 colens, 25,000 salvias, 6,000 heliotrope, in addition to a house filled with Crimson Rambler and Mme. Norbert Levvasseur roses. These latter will make nice stock for Memorial Day.

In addition to bedding plants, Mr. Scott has gone heavily into the raising of Asparagus plumosus and has 25,000 seedlings in 2 1/4-inch pots; also an immense stock of the popular Marguerite, Queen Alexandra. Gardenias have been one of Mr. Scott's best cultures during the last season. He was very successful with them, and during the holidays was able to furnish lots of flowers with three-foot stems that brought \$1.50 wholesale in the New York market. Notwithstanding the success he had last year, he believes he has a better method for their cultivation for next Winter flowering, and has 20,000 young plants coming along for that purpose.

There are five or six houses filled with Nephrolepis Scottii in sizes ranging from 7 to 8-inch pots, down to smaller stock planted in benches, and by next Fall he will have, without a doubt, as fine a collection of specimen plants of this fern as it is possible to get together. Among his decorative plants are included collections of Pandanus Veitchii and dracaenas of the Lindenii, Mas-sangeana and Sanderiana varieties.

Several new houses have been added to the establishment within the last year, and others are contemplated to be erected during the coming Summer. Evidently Mr. Scott is determined to have one of the largest plant growing establishments in the vicinity of New York, and his close proximity to the city gives him a convenience of delivery probably enjoyed by no other plant grower who is doing business on such a large scale. A new office has lately been added, and is in charge of Miss Jessie Scott, a sister, who arrived from Scotland a short time ago.

Bulbs in Bermuda.

Editor Florists' Exchange:

The accompanying photograph shows one of our Liliun Harrisii fields. We are pleased to say that there was no disease in our fields this year; in fact, in no one else's, so we should have a crop of good bulbs for this season, but not a large one, because very nearly every grower planted selected stock last Fall and destroyed all diseased ones and all of the hybrids that we could see, so we trust to have a good crop of Harrisii this season.

STEPHENS BROS.

The Editor's Song.

How dear to my heart is the steady subscriber, who pays in advance without skipping a year; who takes out his dollar and offers it gladly, and casts around the office a halo of cheer. Who never says "stop it, I cannot afford it" or "getting more papers each day than I read," but always says "send it, the whole outfit likes it—in fact we regard it as a business need." How welcome he is when he steps in the sanctum; how he makes our heart throb; how he makes our eyes dance; we outwardly thank him—we inwardly bless him—the steady subscriber who pays in advance.—Exchange.



One of the L. Harrisii Bulb Fields of Stephens Brothers, Bermuda

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway, J. A. Valentine, Frest. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dayton, O.

W. G. MATTHEWS, FLORIST, 16 West Third Street. Flowers in any arrangement for all occasions for Dayton and vicinity. Personal attention given to all orders. Long distance telephones.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Louisville, Ky.

JACOB SCHULZ, 644 4th Avenue. Personal attention given to out-of-town orders for Louisville and surrounding territory. Have a choice line of seasonable flowers always in stock; delivery facilities perfect.

Indianapolis, Ind.

BERTERMANN BROS. CO. Our facilities for executing orders in an efficient manner are unexcelled. Our shipping territory includes the surrounding states. High grade flowers; expert workmanship.

Edwards' New Enterprise.

We are mailing you a photograph of our new place of business (reproduced herewith) which we opened March 22. The conservatory and show house is of the King Construction Company type and is located on the most prominent corner in this city. We also have a branch in the largest hotel here, the Marlborough-Bleibheim. EDWARDS FLORAL HALL Co.
Atlantic City, N. J.

HORTICULTURAL CRIME.—In the twentieth century we have become so sophisticated as to dye real flowers, and horrible possibilities are opened up by the announcement that even the innocent daffodil is being treated in this fashion, and offered for sale in London shops in a flaming scarlet tint. Once begin a horticultural career of crime, and where will the thing end?—Lady's Pictorial, London.

A Chicago florist is reported as saying that the phrase "Please omit Flowers" associated with funeral notices, causes a loss to the retail trade in that city of \$100,000 annually.

FOR THE RETAILER

For reproduction on this page, we solicit from our readers engaged in the Retail Trade, good, clear photographs of subjects that are of general interest, such as store interiors, designs of different classes, new delivery wagons, etc.

Out of Town Weddings.

Country weddings are always popular this month, and many very pretty affairs have already taken place. The whole country side is clothed with flowering fruit trees and shrubs. Forsythia is about over, but the cherry trees are a mass of beautiful white blossoms; pears and apples will soon follow and after these come the later flowering shrubs—deutzias, Spiraea Van Houttei, bridal wreath, weigelia, syringa, Cornus americana, the common dogwood, and a host of other good material that is inexpensive but effective, and can be obtained without much trouble or expense.

It is a good plan in filling an out of town order of this kind to take a trip two or three days previous to the event and look over the surrounding country for available material. This will often save unnecessary expense both in buying the flowers in the city and paying expressage to get them to their destination. In ad-

—and low receptacles were filled with pansies, sweet peas, arbutus, etc. On the buffet, from which the lunch was served, was placed a low center-piece of lily of the valley. Large palms and bay trees were stood here and there on the piazza, the pots and tubs being covered with branches of hemlock and cherry blossoms. It is a good plan when using blossoms of any kind to have them in water as much as possible, as a very beautiful decoration can be ruined by having a lot of wilted flowers around just at the moment when they should look their best.

Funeral Work.

Some very handsome designs were seen at a prominent funeral last week, in which orchids were used in large quantities. The casket was entirely covered with Cattleya Mossiae, five or six hundred flowers being employed. No green was utilized as an embellishment, smilax and Asparagus plumosus being only used for the groundwork. Among some of the larger designs was a handsome standing cross of cattleyas, which had a low triangular base filled with the same flower. Another cross of about the same size, in which lily of the valley was used, was made very full and white, very few leaves being used in the stemming. The base was done with callas, with a background of kentia leaves.

A large standing wreath was a prominent feature in the chancel; it measured eight feet from the ground and was fully five feet across. Richmond roses and white sweet peas were the flowers employed, about two-



New Store and Conservatory of Edwards Floral Hall Company, Atlantic City, N. J.

dition to this, material obtained on the spot will always be in better condition, packing and shipping having a bad effect, especially in the case of fruit tree blossoms, that stand less handling than other flowers.

At a country wedding a few miles from New York City last week, cherry blossoms were used in great profusion. They were in perfect condition and were most effective. The room in which the ceremony took place was a perfect hower. It was low and old-fashioned, with beams running across the center. At one end of the room was arranged a background of palms; these were interspersed with blossoms tied in loose clusters with large bows of white satin ribbon. A few feet from this stood the Prie Dieu; this had been tastefully decorated with asparagus and white sweet peas. All the flowers used were in water. Tin cornucopias were hung at irregular intervals on the walls, and were filled with large branches of cherry covering the walls completely. Palms were placed in available situations and treated in a similar manner to the walls. The mantels and fire places were also filled with masses of cherry blossoms, brightened with large clusters of Richmond roses full blown, the rich red of the roses being in vivid contrast to the white flowers. This rose was the only color used and was very effective. The trussed beams were also treated with blossoms; they were started at the floor at each side of the room and allowed to meet in the center, forming complete arches of flowers. The other rooms were simply decorated with large howls and vases of Spring flowers—Gladious Blushing Bride, stocks, snapdragon, English wallflower

thirds being roses. The base was formed of Richmond roses. The wreath stood erect from the stand and was very effective from the front.

There was also a handsome wreath of lily of the valley, with a cluster of moss roses; another one of ivy leaves and cattleyas; also several pieces made of gardenias, one being a cross, with a cluster of lily of the valley at the arms. A wreath was made entirely with these flowers, no other green than their own foliage being used. A splendid combination was obtained with Franz Deegen roses and cattleyas. This piece was a pillow, and the only one seen at the funeral. The groundwork was of the rose named with a large cluster of orchids on one side and a long, plume-like spray of lily of the valley. Adiantum Farleyense formed an edging.

A feature of this funeral that impressed me was at the house. The casket rested in the center of a very large room, and although a number of floral pieces were sent to the house, the room was left entirely bare, excepting four large groups of palms, which occupied the corners, and a large cross of orchids, which rested on the casket. The crowding of the funeral designs into the room was entirely done away with.

D. RAYBUN.

Every Progressive Retailer should be represented by his card on this page. It is a sure business bringer.

ASTER SEEDS

There is ample time to sow Asters for general crop. The seeds we offer are 1906 crop and of our own growing. Several of our customers advise us that they germinate a hundred per cent.

	Td. Pkt.	1/2 Oz.	Oz.
Queen of Market, in separate colors, white, light pink, rose, lavender and purple		\$0.10	\$0.15 \$0.50
Snowdrift, early white		.35	1.00 3.00
Daybreak		.25	.40 1.25
Carlson's Branching, separate colors, shell pink, lavender, white and late white		.20	.30 .50
Late Branching, in separate colors, white, shell pink, light pink, bright rose, lavender and purple		.20	.30 .50

Special prices quoted on large quantities.

NATHAN SMITH & SON, Adrian, Mich.

COLEUS

Golden Redder, Crimson Verschaffeltii and 15 fancy bedding varieties, 2 in. pots, \$1.50 per 100; \$15.00 per 1000.

GERANIUMS

Nuti, Buchner, Polteviec, Doyle, 3 in. pots, \$3.00 and \$4.00 per 100; 4 in. pots, \$5.00 per 100.

Funny Plants, small, 60c. per 100; \$5.00 per 1000; bud and bloom, \$1.00 per 100; \$3.00 per 1000.

	2 in.	3 in.
Fuchsias	1.00	1.00
Heliotropes, dark	2.00	3.00
Salvia Bonfire	2.00	3.00
Viburnum, Variegated	2.00	3.00
Ageratum, Gurney & Pauline	1.50	
Lobelia Compacta, Blue	1.50	
Marguerite Carations	2.00	
Asters, Red, White and Blue	1.00	
Phlox, mixed	1.50	
Stocks, mixed, double	1.50	
Verbenas, Red, White and Blue	1.50	
Cannas, 3 in. pots, \$4.00 per 100.		

CASH WITH ORDER.

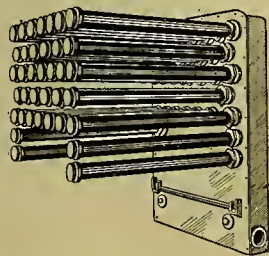
ERNEST HARRIS, DELANSON, N. Y.

GERANIUMS

10,000 S. A. NUTT, 5000 BEAUTE POITEVINE, 5000 RICARD, 5000 JOHN DOYLE, 5000 WHITE. All fine plants; \$7.00 per 100.

COLEUS, red and yellow, VERSCHAFFELTII and GOLDEN BEDDER, \$20.00 per 1000.

A. H. KINNEY,
West 200th St. & Fort Washington Ave.
New York City.



The LOW BOILER

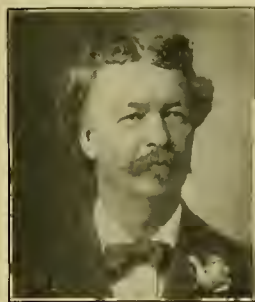
4 ft. high. Can furnish lower if necessary. This boiler is designed and specially adapted for greenhouse service. The form of construction makes it very efficient and economical. Write for prices and booklet. Free Hose Trial, Pipe Fittings, Valves, Etc.

WM. H. KAY CO., 244 Fulton St., NEW YORK

ENGLISH IVY

Out of 4 in. pots, 10c.
Out of 2 in. pots, 2c.
Cash with order.

PAUL BRUMMER, CORONA, N. Y.



IN EVERYBODY'S MOUTH LIKE THE BEE

A PROSPEROUS florist is never idle; do like this busy insect—the bee—take advantage of the great work the never-resting florist, Godfrey Aschmann, and his people have done since Easter, 1,000 of them swarming and enjoying their lives in Aschmann's Greenhouses. "Oh! Aschmann's flowers taste so sweet," the bees say; "we cannot stop; we have a big field to work on, 100,000 of the choicest; every hole and corner full; let us harvest." Secure Bargains now, and for Decoration Day. Please note our lowest prices.

From the lands afar, where the choicest are,
I gather the plants I supply;
Or grow my own, with care unknown,
So the best are the ones you buy.
Then send in your orders and see your trade grow,
None can surpass Aschmann's, wherever you go.

GERANIUMS, from 4 in. pots. S. A. Nutt, double crimson; La Favorita, double white; Md. Thibaud, Gloriosa, double pink; John Doyle, double red. Have eight varieties of the newer sorts, such as E. H. Trego, beautiful variegated crimson, the model of perfection, double. Telegraph, free bloomer, deep orange cerise, double. Mrs. E. Rawson, single, deep rose, free bloomer, immense large flowers. Berthe De Preally, semi-double flowers, of great strong habit, trusses silver rose. Countess d'Harcourt, best double white, large trusses; stands the sun well. Double Grant, immense large flowers. Jean de la Brete, rose carmine, shading to white, camella shaped, large trusses. Marquise de Castellana, beautiful, soft crimson trusses, as large as a hydrangea, semi-double. Above eight varieties, 4 in. pots, 15c. each; \$1.25 per doz.; \$8.00 to \$10.00 per 100.

AGERATUM, dwarf, best blue variety, 4 in. pots, \$7.00 per 100; 2 1/2 in. pots, \$3.00 per 100.

BEGONIA VERNON, finest strain, flowers as dark as blood. Seeds of this beautiful variety picked by myself from specimen plants in Zurich, Switzerland, on my trip to Europe last Summer, 1906, 4 in. pots, \$8.00 per 100; 3 in. pots, \$7.00 per 100.

BEGONIA ERFORDI, the true variety, seeds of my own gathering from specimen plants in Europe last year (1906). This is one of the finest pink varieties in cultivation; 4 in. pots, \$12.00 per 100; 3 in. pots, \$9.00 per 100.

SARLET SAGE or **SALVIA**. This is the genuine Clara Bedman or Bonfire variety of medium tall habit. It is a sight to see them bloom. It looks as if the whole bush is on fire and decorates the finest residences in England, Germany, Paris and Switzerland. Seeds of this novelty Sage collected by myself from specimen plants grown on one of the beautiful landscapes in Switzerland. Have fully 5,000 plants in 4 in. pots to sell, now in bud and bloom, of this fine variety. Price, 4 in. pots, strong plants, \$8.00 per 100; 3 in. pots, \$5.00 per 100.

HELIOTROPES, 4 in. pots, \$7.00 per 100.

NASTURTIUMS, dwarf, all colors, \$7.00 per 100.

FUCHSIAS, mixed, good varieties, 6 to 6 1/2 in. pots, 15c. to 20c. each; 4 in. pots, \$1.20 per doz.

CANNAS, 10 good varieties, 4 in. pots, \$8.00 to \$10.00 per 100.

AMPELOPIS VEITCHII, 4 in. pots staked up, 15c. each.

HONEYUCKLE, 5 in. pots staked up, 15c. each.

COBEA SCANDENS, 4 in. pots staked up, 8c. to 10c. each.

DAISIES, Queen Alexandria and Marguerite (white), 5 1/2 to 6 in. pots, 20c. to 25c. each.

DIELYTRA SPECTABILIS or **BLEEDING HEART**, planted in the Fall in 6 in. pots and plunged outside in cold frames during Winter, growing natural now, large plants, in bud and bloom, 25c. each.

PEUNIA, double, mixed, 4 in. pots, 8c. each, single California Giant, ruffled or blotched, 3 in. pots, \$4.00 per 100. Inimitable or dwarf variegated, 2 1/2 in. pots, \$2.00 per 100.

VERBENAS, all shades, 2 1/2 in. pots, \$3.00 per 100.

SPARGANGUS PLUMOSUS NANUS, 2 1/2 in. pots, \$3.00 per 100.

GODFREY ASCHMANN,
Wholesale Grower and Shipper of Pot Plants,
1012 West Ontario St.,
Philadelphia, Pa.

FOR SALE SURPLUS

5000 Alternanthera
8000 Echeveria
Address
JOHN LAPPE
MASPETH, L. I.
Telephone connection.
PLANT CULTURE
Price, - - - \$1.00.
A. T. De La Mare Ptg. & Pub. Co.

COLEUS, Queen Victoria, Golden Bedder, Verschaffeltii, 2 1/2 in. pots, \$3.00 per 100. Fancy varieties, 2 1/2 in. pots, \$3.50 per 100.

PHLOX DRUMMONDI, 2 1/2 in. pots, \$3.00 per 100.

IVY, English or hardy, 12 in. long, 4 in. pots, \$5.00 per 100. **IVY**, German or Parlor, 2 1/2 in. pots, \$3.00 per 100.

CENTAUREA GYMNOCARPA or **Dusty Miller**, 2 1/2 in. pots, \$3.00 per 100.

CUIBIA or **GIGAR PLANT**, 2 1/2 in. pots, \$3.00 per 100.

LOBELIA, dwarf or trailing, 2 1/2 in. pots, \$3.00 per 100.

SWEET ALYSSUM, Little Gem, have 10-100 of them, 2 1/2 in. pots, \$3.00 per 100.

MARGOLD, Florida, African and Gold Ring, dwarf, 3 in. pots, \$4.00 per 100.

VINCA, variegated or periwinkle, 4 in. pots, \$10.00 per 100. 2 1/2 in. pots, \$5.00 per 100. **Rosea** or **Major**, 2 1/2 to 3 in. pots, \$5.00 per 100.

COSMUS GRANDIFLORA, white, red or pink, three plants in a 3 in. pot, separate colors, \$2.00 per 100.

SALPIGLOSSIS VARIABILIS (Euro-pan), 2 1/2 in. pots, \$2.00 per 100.

SUMMER CHRYSANTHEMUMS, Chameleon, 3 in. pots, \$7.00 per 100.

THUNBERGIA or **BLACK-EYED SUSAN**, 2 1/2 in. pots, \$3.00 per 100.

TOPIALIS, Stone, the best varieties, transplanted in boxes, \$1.00 per 100.

MAURANDYA BARCLAYANA, 2 1/2 in. pots, \$4.00 per 100.

ARAUCARIA ROBUSTA COMPACTA, Spring 1906 importation. Have about 200 of this variety, only specimens, perfect tiers. Adapted for the lawns, front porches, cottages, hotels, etc. 7 in. pots, 4-5 tiers, 5 year old, 20 to 28 in. high, as broad as long, price, \$1.75-\$2.00-\$2.50 to \$3.00 each.

ARAUCARIA GLAUCA, large specimens, 6 year old, 36 to 40 in. high, 36 to 40 in. wide, 5 to 6 tiers, \$3.00-\$4.00-\$6.00 each.

ARAUCARIA, new importation. First consignment about 5,000, now arrived (Saturday, May 4), per steamer Maniton from Antwerp, and thereafter by every steamer up to June 1. Araucaria Excelsa in their original packing, left planted in pots, 3 tiers, 10 to 12 in. high, 50c. larger sizes, 60c.-75c.-\$1.00 to \$1.25 each. Robusta, Compacta and Glauca from \$1.00-\$1.25 to \$1.50 each.

DRACAENA INDIVISA, broad leaves, imported from Belgium, now arriving, 30 to 36 in. high, 8c. to 75c.

COCOS WEDDELIANA, 3 in. pots, 16 to 18 in. high, 15c. to 20c. each.

ASTERS, Enchantress, new, large blooming varieties, 3 in. \$4.00 per 100. Victoria, 8 shades, separate or mixed, \$3.00 per 100.

DON'T FORGET WE LEAD THE WORLD IN MOON VINE!

Watch and be careful; don't buy Morning Glory for Moon Vine.

We grow only the best varieties, A. W. Smith's hybrid or Ipomea Noctiflorum, for which we have during the past 20 years a world wide reputation. We ship every Spring from 20,000 to 25,000 plants to every state and territory in America as far as Mexico, 4 in. pots, nicely staked up, 30 to 36 in. high, \$12.00 per 100; 2 1/2 in. pots, nicely staked up, \$5.00 per 100.

NOTICE!
Above Moon Vine is the earliest variety to existence, blooms freely, in big clusters, pure white; waxy flowers, very fragrant and as big as a saucer.

Cash with order please.
All goods must travel at purchaser's risk.

Washington, D. C.

The Week's News.

During the past week all Washington had cause to rejoice—two Spring days. People hunted up their trowels preparatory to planting the beds; all nature seized the opportunity to rapidly develop leaf and flower. Even the Public Gardener got busy and set men to work bedding in the various parks about the city, but, on the night of May 11, frost reappeared, though not so severe as that which occurred just twenty-four hours earlier one year ago, and which worked havoc for the early planter.

Many of the public parks have beds of pansies in profuse flower which attract much attention, as the varieties include some of the rarest and most distinct strains. Every one is anxious to plant, but decidedly sceptical concerning the weather, and as a direct result, the plant industry is suffering to a noticeable degree. Some of the growers who rely chiefly upon the sale of bedding plants at this season tell woeful tales of disappointment.

The supply of greenhouse flowers is about normal with the exception of carnations which remain scarce and command better prices than usual at this season. There is also a marked scarcity of outside grown lilac, owing to the frost which followed the rapid bud development during the torrid wave in March. Lily of the valley seems to have suffered likewise.

Chevy Chase, one of the most beautiful spots around Washington, made so by the handiwork of some of our best local landscape artists among whom may be mentioned Peter Bisset, John Robertson and others, is particularly attractive at this season. Just inside the District Line, and adjoining Chevy Chase, Md., a real estate development company has started to improve a large tract of land to be known as Chevy Chase, D. C. The improvements so far consist in trimming the natural forests, sowing grass seed, planting varieties of ornamental pines, Arbor vitas, privet hedges, etc. Some of our wealthiest citizens realizing the value of such work, are building magnificent homes there. Many Washington suburbs might profit by following the example here set forth, and greatly improve local conditions.

JAS. L. CAREY.

Buffalo.

News Items.

Wm. F. Kasting has been very busy the past week arranging for the entertaining of the German Choral Society. Buffalonians consider themselves fortunate in having this distinguished society visit our city.

R. E. Boettger expects to add another new house to his range if the weather will ever permit; this has been one of the most backward seasons we have experienced.

Phil. Breitmeyer, Detroit, called on the local trade here on Monday of this week.

Wm. Scott is up and around, and his health is improving rapidly.

Workmen have been at work grading and laying walks around the McKinley monument, which when finished will be one of our beauty spots in the floral-cultural line.

George McClure & Son have been very busy this Spring with their many contracts for tree planting, grading and general outdoor work.
W. H. G.

BEDDING PLANTS

Verbenas	Pots Per 100
Alyssum, Little Gem	3 in. \$2.50
Alternantheras, red and yellow	2 1/2 in. 2.50
Phlox Drummondii	2 1/2 in. 2.50
Ground Ivy	2 1/2 in. 2.50
Kentworth Ivy	2 1/2 in. 1.75
Parlor Ivy	3 in. 3.00
Double Petunias	3 in. 4.00
Single Petunias, Rosy Morn and Giant	2 1/2 in. 2.00
Pelargoniums, \$1.00-\$1.50 per doz.	4-5 in.
Vincas	4 in. 10.00
Begonia Vernon	2 in. 4.00
Begonia, Flowering mixed	2 1/2 in. 2.00
Rex Begonias, \$1.00-\$1.50 per doz.	4-5 in.
Cannas, Austria	3 in. 3.00
J. S. BLOOM,	RIEGELSVILLE, PA.

GRAFTED ROSES

FINE STOCK. READY NOW.

Richmond, \$2.00 per doz., \$14.00 per 100.
 \$120.00 per 1000.
 Killarney, \$2.00 per doz., \$15.00 per 100.
 Etolle De France, \$2.00 per doz., \$18.00 per 100.
 Kaiserin, Carnot, Uncle John, \$2.00 per doz., \$15.00 per 100.
 Bride, Bridesmaid, Golden Gate, Wootton, 2 1/2 in. pots, \$2.00 per doz., \$12.00 per 100.

ROSES OWN ROOTS

Richmond, \$6.00 per 100; \$60.00 per 1000.
 Sunrise, Perle, Sunset, \$5.00 per 100.
 Bride, Bridesmaid, Golden Gate, \$4.00 per 100; \$38.00 per 1000.

CARNATIONS

From pots. Fine, healthy stock.
 Winsor, Helen M. Gould, White Enchantress, \$2.00 per doz.; \$14.00 per 100.
 Robert Craig, Victory, Helen Goddard, \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000.
 Red Lawson, Variegated Lawson, 75c. per doz.; \$5.00 per 100.
 Lady Bountiful, Nolaon Fisher, Enchantress, Dahaim, White Lawson, Mrs. T. W. Lawson, 60c. per doz.; \$4.00 per 100; \$35.00 per 1000.
 Boston Market, Melba, Pink Armazindy, Queen Louise, The Queen, 60c. per doz.; \$3.00 per 100; \$25.00 per 1000.

CANNAS

Strong plants from 2 1/2 in. pots (30 fine named varieties) \$6.00 and \$8.00 per 100.

CHRYSANTHEMUMS

From 2 1/2 in. pots. Fine stock.
 Ben Wells, General Hutton, Lady Cranston, F. S. Vallis, Merstham, red; Merstham, yellow; Mrs. Wm. Duckham, 75c. per doz.; \$5.00 per 100.
 A. J. Balfour, Mrs. G. W. Childs, Alice Byron, Yellow Eaton, 60c. per doz.; \$4.00 per 100.
 Dr. Enguehard, Geo. S. Hall, Meta, Mrs. Coombs, Nagoya, Opah, Robert Halliday, White Bonaffon, Wm. Duckham, 60c. per doz.; \$4.00 per 100; \$35.00 per 1000.
 Autumn Glory, Ada Spaulding, Creme, Cullingfordi, Dorothy Devana, Harry May, H. W. Roman, J. E. Lager, J. H. Troy, Mrs. J. Jones, Mrs. Baer, Major Bonaffon, Mme. Fred Bergmann, Niveus, Timothy Eaton, W. H. Lincoln, 50c. per doz.; \$3.00 per 100.
 Rooted cuttings half price.

SEND FOR CATALOGUE

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Fishkill, N. Y.

BEDDING STOCK

Salvia Splendens and Fireball, 2 in. \$2.50 per 100; 3 in. \$4.00 per 100.
 Begonia, Vernon and Fairy Queen, 2 in. \$2.50 per 100.
 Pectunia, Giant Ruffled, 2 in. \$3.00 per 100.
 Lobelia Speciosa (Trailing) and Crystal Palace Compacta, \$2.50 per 100.
 Alyssum, Little Gem, 2 in. \$2.50 per 100.
 Verbena, Mammoth Flowered mixed, \$2.50 per 100.
 Forget-Me-Not in variety, \$2.50 per 100.
 Cobaea Scandens, 2 1/2 in. \$4.00 per 100.
 Browallia Speciosa Major, 2 in. \$3.00 per 100.
 Alternantheras, Red and Yellow, 2 in. \$2.50 per 100.
 Hardy Pinks, 2 in. \$2.50 per 100.
 Clothilde Souperet Rose, 2 1/2 in. \$3.00 per 100.
 Rose, Kaiserin A. Victoria, 2 1/2 in., strong, \$3.00 per 100; \$25.00 per 1000. Grafted Stock from 3 in. \$8.00 per 100.
 Grevillea Rubusta, 2 1/2 in. 6 to 8 in. high, \$3.00 per 100.
 Nephrolepis Elegantisima, 2 1/2 in. \$3.00 per 100.
 English Ivy, 4 in. pots, 3 to 4 ft. tops, \$10.00 per 100.
 Flowering Begonias, Thurstoni, Metallica, Argentea Guttata, Nitada, Otto Hucker, Rubra, etc., \$3.00 per 100.
 Cobaea Scandens, 2 1/2 in., staked, \$4.00 per 100.

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JAPANESE IRIS

Every florist should have a bed of this beautiful class of Iris. They are perfectly hardy and need little care. The large and magnificent flowers are very useful for cutting. Our collection consists of 25 of the best varieties. Strong clumps: 15c. each, \$1.50 per doz.; \$3.00 for the set of 25 varieties.

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Strong bushy plants raised from our "Gold Medal Strain" sown in July. \$3.00 per 100; \$27.50 per 1000.

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Prices Advertised in these Columns are for

ASPARAGUS

PLUMOSUS NANUS, 2 1/2 in. pots..	Per 100	4.00
" " 3 in. pots ..		8.00
" " 4 in. pots ..		10.00
SPRENGERI, 2 1/2 in. pots.....		3.00
" " 3 in. pots.....		8.00
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MISCELLANEOUS PLANTS

Ready For Immediate Sales

Achyranthea, Emersonii, etc.	2 1/2	\$3.00
Ageratum, White and blue	3	5.00
" Princess Pauline	2 1/2	3.00
Alfentanthera, red and yellow	2 1/2	3.00
Ampelopsis Veltchill, pot grown	3	8.00
Begonia, flowering varieties...	3 1/2	10.00
Begonia, flowering varieties...	2 1/2	4.00
Cuphea Platycentra,	2 1/2	2.00
Cannas, fine Varieties as List.	3 1/2	6.00-8.00
Coleus, all the leading Varieties	2 1/2	3.00
" " " " " "	3	4.00
Dracaena Indivisa, fine stock..	6	25.00
" " " " " "	4	20.00
English Ivy	3 1/2	8.00
Feverfew, double white.....	2 1/2	3.00
Fuchsia, double and single....	3 1/2	7.00
" " " " " "	2 1/2	3.00
Geraniums, double and single.		
Strong	3 1/2	7.00
" Special Color or variety	3 1/2	8.00
Double and single	2 1/2	3.00
" Ivy Leaved	3 1/2	8.00
Heliotrope, light and dark		
varieties	3 1/2	6.00
" " " " " "	2 1/2	3.00
Ivy, German	2 1/2	3.00
Lantana, 12 best varieties....	3	5.00
Moonflower	4	10.00
" " " " " "	2 1/2	4.00
Petunias, single	2 1/2	3.00
Pelargoniums, ass't varieties...	2 1/2	5.00
Salvia, splendens and Bedman...	3 1/2	6.00
" " " " " "	2 1/2	3.00
Smilax,	3	3.50
Tropaeolum, double red and yellow	2 1/2	4.00
Vinca, variegata and elegantissima ..	3 1/2	10.00
" " " " " "	3	5.00
" " " " " "	2 1/2	4.00
Verbenas, Mammoth Strain..	2 1/2	3.00
Violeta, Maria Louise.....	2 1/2	25.00 per 1000

VERBENAS

Best Mammoths, from pots.....\$3.00

BOXWOOD

Bushes per pair, 50c.-75c.-\$1.00-\$1.25-\$1.50. Pyramids, per pair, \$3.00.
 English Ivy, \$2.00 per doz, \$15.00 per 100.

Antirrhinum, variegated for vases, \$1.50 per doz.

Crimson Ramblers and Dorothy Perkins, fine plants well budded, \$12, \$18 and \$24 per doz.

Dracaena Indivisa, 5 1/2 in. pots, \$6.00 per doz.

Asparagna Sprangeri, 3 1/2 in. pots, \$1.25 per doz.; \$10.00 per 100.

Ardalia Grenulata, fine plants for fruiting, 4 1/2 in. pots, \$50 per 100.

Large Boston Ferns, per pair \$12.00 for hall decoration.

Kentia in all sizes, from 50c. up.

Aracaria Excelsa, \$2.00 to \$3.00 each. 8 in. and 9 in. pots.

Fern Balls, 6 in., \$4.00 per doz.; 8 in. \$9.00 per doz.

Bridal Myrtle, 4 in. pots, \$3.00 per doz.; 6 in. pots, \$12.00 per doz.

Phlox Canariensis, 2 ft. 6 in., 10 leaves, \$3 per pair; 2 ft. 10 in., 10 leaves, \$4 per pair; 3 ft., 10 leaves, \$5 per pair; 3 ft. 4 in., 10 leaves, \$6 per pair.

Bay Tree Standards, 4 ft., 8 in. stem, \$12.00 per pair; 4 ft., 8 in. stem, \$15 per pair; 4 ft., 8 in. stem, \$18 per pair.

ANTON SCHULTHEIS,

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SALVIA SPLENDENS, St. Louis and Bonfire.

COLEUS, in eight leading varieties.

AGERATUM, Dwarf Blue.

GERMAN IVY.

RAMBLER ROSES, in pots.

HELIOTROPE, Little Giant.

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Splendens Gigantum Hybrids

This strain has no equal or better, in five true colors, including fringed varieties, twice transplanted from flats \$3.00, from 2 1/2-in. pots \$5.00, from 3-in. pots \$7.00 per 100. Satisfaction guaranteed.

CANNAS

Pres. McKinley, Chas. Henderson, Chicago, Papa, Alphonse Beauvier, Queen Charlotte Egandale, J. D. Cabas, Florence Vaughan, well grown plants from 3-inch pots, \$4.00 per 100.

GERANIUMS

Alphonse Ricard, John Doyle, Castellane, Beauty Putevina, E. G. Nutt, La Favorite, etc., extra well grown plants in bud and bloom from 4-inch pots, \$7.00 per 100.

PAUL MADER,

East Straudsburg, Pa.

GERANIUMS

Nutt, Doyle, 2 inch, \$2.00 per 100; \$18.00 per 1000.

Ricard, Castellane, 2-2 1/2 inch, \$2.00 per 100; \$20.00 per 1000.

Nutt, Ricard, Putevina, Viand, Montmarie, 3 inch, \$4.00 per 100; \$40.00 per 1000.

Rooted Cuttings, \$10.00 per 1000.

Cash with order.

PETER BROWN, Lancaster, Pa.

Plant Notes.

DAHLIAS are good for cutting, are decorative in their growing state; they are interesting in their variability as well as sometimes surprisingly novel in the product resulting from seed saved from plants grown even on the premises the year before.

ANTIRRHINUMS.—Among what are generally termed common flowers there are few more serviceable to florists through the Summer than antirrhinums; in fact a florist possessed of taste and good judgment often makes up a piece composed for the most part of antirrhinums equal to that made up of far more expensive flowers. Antirrhinums do pretty well in any kind of soil, but to get good, long spikes they require to be planted in rich soil.

LOBELIA CARDINALIS stands exposure much better than coleus or achyranthes, and when it is desirable to plant something that will give a color effect somewhat similar to the latter in exposed places Lobelia cardinalis will answer the purpose. The flowers as well as the foliage are red, as the name denotes.

BEGONIAS.—There are few plants with which it is so necessary to be careful that they are hardened off thoroughly before planting in the open ground as begonias. If they are not so hardened they will in all probability blanch and wither in two or three days after planting. They may come up from the root again, but it will take them quite a while to amount to anything. Begonia Veron is dwarf enough to be used in conjunction with alternanthera in formal bedding or in beds of geometrical design. After a week or two exposed to the sun the foliage of the begonias assumes a bronze color in keeping with the effect produced by the other kinds of plants used. Lobelia is also suitable for the same kind of work. There is occasional complaint of it damping off, but I think if Crystal Palace compacta in single plants out of pots are used there will be but little danger of damping. Pyrethrum is another good plant for this kind of work; it will stand shearing just as well as alternanthera, and in color it is such that there is nothing else to equal it, although the yellow alternanthera may be better for general effectiveness.

PHLOX DRUMMONDII.—Among the most satisfactory annuals for bedding purposes is Phlox Drummondii, especially the white. It flowers profusely all through the season and the flowers hold themselves conspicuously over the foliage that at a distance only a blaze of bloom is visible. A great many annuals are either so straggly or remain so short a time in flower that they are undesirable for formal beds, but among those that are otherwise constituted Phlox Drummondii is noteworthy.

NASTURTiums are exceedingly easy of culture and give satisfaction far in excess of what little attention they require would lead one to expect. The tall varieties are excellent for covering objectionable spots in a remarkably short time, and good also for hanging from the edges of tubs or boxes. The dwarf varieties are well adapted for beds or borders. Either grown from seed sown in the greenhouse, or seed sown right in the open ground, they go right ahead to fulfil their mission.

CINERARIAS when well grown are well worth the trouble necessary for their successful cultivation, but like many other things if they are in any way neglected they are almost useless, and seldom pay for the labor expended on them. The most essential point in the culture of cinerarias is to keep them growing uninterruptedly from start to finish, never to let them get potbound until they are in their last or flowering pots. Equally important perhaps is the keeping of them in as cool a temperature as possible when growing on, and in order to do this the plants when in pots should be grown in a cold frame on a bed of ashes, with the sashes sloping to the north.

Two sowings of cineraria seed may be made, the first in the beginning of August or a week later, and the second three or four weeks thereafter. The seed should be sown in shallow pans over a filling of sand, loam and leaf mold in equal parts, pressed firmly. The seed should be scattered thinly over the surface and covered lightly with sand

The Largest Growers of Chrysanthemums in America

Rooted Cuttings from sand Ready April 1

White		Per 100	Yellow		Per 100
Estelle	.....	\$2.00	Yellow Jones	.....	\$2.50
Geo. S. Kahl	.....	2.00	Yellow Eaton	.....	2.50
Mrs. Robinson	2.00	Col. Appleton	2.00
T. Eaton	2.50	Mrs. Geo. Beech	2.50
Mayflower	2.00	Roi d'Italia	2.00
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Ivory	2.50	Percy Plumridge	2.00
Mrs. Swinburne	2.50	Mrs. Bonaffon	2.00
C. Touset	2.00			
Mrs. Jerome Jones	.....	3.00			
Yellow			Pink		
Monrovia	.....	3.00	L. Filkins	.....	2.00
Golden Chadwick	.....	3.00	Pink Ivory	.....	2.50
Yellow Mayflower	.....	2.00	Rosera	.....	2.00
			Lady Harriet	.....	3.00
			Glory of Pacific	.....	2.00
			Wm. Duckham	.....	2.00
			Mrs. Perrin	.....	2.00

Roses from 2 1/2 inch pots

Per 100		Per 1000	Per 100		Per 1000
Brides	.....	\$3.00	Rosalind Orr English	.....	\$30.00
Bridesmaids	.....	3.00	Chatenay	.....	3.00
Richmond	.....	3.00	Uncle John	.....	3.00
Pink (cont'd)		Per 100	Red		Per 100
Mrs. Mary Mann	.....	\$2.50	Intensity	.....	\$2.00
Marie Liger	.....	2.00	Oakland	.....	2.00
Monogram	.....	2.00	Black Hawk	.....	2.00
Cash	.....	2.00			

WIETOR BROS., Wholesale Growers 51 Wabash Ave. CHICAGO of Cut Flowers

and then watered carefully with a fine rose. Place the pans in a cool place immediately and attend carefully to watering until the seedlings are above ground and fit to handle, when they may be potted at once into the smallest size pots obtainable, using soil for the first potting of the same materials and proportions as for the seed. But in subsequent potting, soil composed of two-thirds good fibrous loam and one-third of sand with a sprinkling of sand added will suit them better. For the last potting it will be very beneficial if only a little leaf mold is put into the compost and in its place is afforded well-rotted cow manure without sand.

Early in October, or when there is danger of allowing the plants to remain longer in frames, they should be brought into the greenhouse, still kept cool, but somewhat moist with an occasional aid to the circulation of air by a little fire heat, especially in very damp weather. The temperature at night should not exceed 48 degrees, allowing a rise of about ten degrees with sunlight. When the flower buds appear applications of liquid manure will help the plants; but it should be rather weak, or else use the precaution of watering immediately after with clear water. Cinerarias are subject to greenfly, but the plants will stand fumigating mildly. Tobacco stems scattered among the pots will act as a preventive, also.

BEGONIA ERFFORDI.—There are very few bedding plants that invariably give so much satisfaction to the planter as *Begonia Erffordi*. When small at planting time they do not to all appearance seem to amount to a great deal, but when planted either in beds or borders in fairly rich soil they develop in a remarkably short time into large plants carrying beautiful pink flowers in gorgeous abundance. I am referring, of course, to the true *B. Erffordi*, which is pink. One thing I particularly took notice of in regard to this *Begonia* was that from the time the plants grew to meet one another in the beds until cut down by frost they never looked patchy, being always covered with bloom.

HYBRID CALCOLARIAS.—The cultivation of hybrid *calceolarias* is not difficult, but it is absolutely necessary for the production of good plants to keep them growing without the least check from the time the seedlings are pricked off until they have outlived their usefulness. The seed should be sown in shallow pans filled with soil composed of leaf mold, sand and fibrous turf; the top portion of the soil should be run through a very fine sieve. Before filling, the pans should be provided with ample drainage.

As the seed is very fine no soil is necessary to cover it, but it will be well to water the surface of the soil in the pans before sowing the seed, which may be scattered evenly on the damp surface after the water has drained away sufficiently. Cover the seed pan with glass, and it should be kept covered and the covering removed only when the soil needs watering, which should be done by dipping in a pail or tank

of water, so that there will be no danger of disturbing the seed in course of germination. When the little plants are easily discernible the glass may be removed from the pans, and when the seedlings can be easily handled they should be pricked off into flats, about an inch and a half between the plants. They may remain in the flats until they show signs of crowding, when they will require to be potted into the smallest size pots, using less sand and leaf mold and more fibrous loam with the addition of a reasonable portion of well-rotted cow manure, and continuing to increase the sustaining nature of the potting material with each successive shift.

Calceolarias will not at any stage of their growth take kindly to the full sunlight, but a thick shading is not what they want. Rather place them if possible in a situation where they can have adequate light, such as a northern exposure of a house or frame affords; in fact, a cold frame is just the place for them during a great part of their growing period. A cool temperature is essential to their proper development, just as careful watering is necessary to bring them to perfection. They can be flowered in 6-inch pots, but 7-inch pots will give better results. Liquid manure, when they are beginning to show flower, helps them considerably. When the plants are fully grown they should be placed so that the leaves of one do not touch those of another. Greenfly if allowed to attack them will soon ruin them; the safest preventive is the distribution of tobacco stems liberally around the pots. D. M.

REMOVAL SALE

Here is a chance for cheap Spring Stock.

	Per 100
Geraniums, 4 in	\$7.00
Heliotropes, 4 in	6.50
Ageratum, 4 in	6.50
Salvia Splendens, 3 in \$3.00; 4 in	6.50
Petunias, large, double white, 4 in	8.00
Periwinkle, nice and long, 3 in \$4.00; 4 in	10.00
Hardy Ivy, long, 3 in	3.00
Assorted Begonias, 3 in	3.00
Dracaena Indivisa, 6 in., very cheap	\$2.50 per dozen
Martha Washington Geraniums, 4 in	10.00
Cannas, all varieties, 4 1/2 in.	7.00
Cannas, white 4 in.	7.00
Mignonette, 4 in.	7.00
Asparagus, 4 in	8.00
Honeyuckle Vine, 6 in., large plants	20.00
Verbenas, Alyseum, Phlox, Cigar Plants, Ice Plants, Lobellias, Ground Ivy, Coleus, in ten fancy colors, also Golden Bedder, Daisies, Bachelor Buttons, Forget-me-nots; all of the above are in 3 in. pots and sell at \$2.50 per 100.	
Achyranthes, Artillery, Plants, Ice Plants	
Black-Eyed Susan, Nasturtiums, 3 in pots	\$2.50 per 100.

Please state if with or without pots. Cash with order please.
MRS. JOHN H. CLAUS, 1119 Roy St., Philadelphia, Pa

ALTERNANTHERA

50,000 plants in 2 in. pots.

Paronychoides aurea, nana and variegated color at \$20.00 per 1000; 500 at 1000 rate. No order for less than 500. Ready for delivery May 1. Cash with order.

J. CONDON, Florist, 734 5th AVENUE, BROOKLYN, N. Y.

SURPLUS STOCK

	Per 100	1000		Per 100	1000
Ageratums, 4 best dwf. kinds	\$2.00	\$20.00	Palm, <i>Lantania Borbonica</i> , 4 inch, doz.	\$1.50	\$3.00
Begonia, flowering kinds assorted	2.50	20.00	Palm, <i>Washingtonia Filifera</i> , 2 inch	3.00	25.00
Coleus, assorted 2 inch	1.75	15.00	Rubber Plant, 4 in.	\$2.50, \$3.00 doz.	
Coleus, rooted cuttings asst.	.60	5.00	Ferns, Boston, 2 1/2 inch	3.50	30.00
Fuchsia, asst. kinds	2.00	20.00	Ferns, Piersoni, large sizes, 8 in., 10 in.	12.00	
Jasmine, assorted kinds	2.50	20.00	Ferns, Piersoni, 2 1/2 inch	3.50	30.00
Jasmine, Maid of Orleans, double white	3.00	30.00	Ferns, Scottii, 2 1/2 in.	4.00	35.00
Lantanas, best dwf. bedding kinds	3.00	25.00	Hardy Pinks, assorted 2 in.	2.50	20.00
Hibiscus, assorted kinds	3.00	25.00	Hardy Phlox, assorted field plants, best	3.50	30.00
Moonvines, white 2 inch	4.00	35.00	Honeyuckles, Halliana, Golden Leaf, and Scarlet Trumpet, pot plants	2.50	20.00
Lemon Ponderosa	3.00	20.00			
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Salvia Splendens, 2 1/2 inch	2.00	17.50			
Vinca Variegata, 2 inch	2.00	20.00			

ROSES Everblooming Teas, Climbing Teas, Hybrid Teas, Hardy Climbing, etc., Lady Gay and Baby Rambler

Send in your list of wants for best prices. Terms Cash with order. Liberal treatment.

THE REESER FLORAL CO., Urbana, Ohio

GERANIUMS	100	COLEUS	100
10 Varieties, 3x3 1/2 pots, my selection	\$5.00	10 Varieties <i>Canna</i> , from pots, May 1	5.00
Alternantheras, red and yellow	2.00	Vinca Variegated, 2 1/2 pots	3.00
Asparagus Plumosa, 2 1/2 pots	2.00	Primroses, Assorted, July 1	2.00
Seedsling, May 15	1.25	Asp. Plumosa Seed, New Crop, per 1000	3.00
		Petunias from double seed per 100	3.00

JOS. H. CUNNINGHAM, DELAWARE, O.

200,000 PANSIES

SUPERB STRAIN. READY NOW.

Fine, large Fall Transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you have ever handled. \$1.25 per 100; \$10.00 per 1000. Cash with order.

LEONARD COUSINS, Jr.
CONCORD JUNCTION, MASS.

500,000 Pansies

Finest strain grown for market. The result of over 25 years careful selection.

We grow all our own seed, and for vigor of growth, size and substance of flower, and brilliant and novel colors, this strain is unsurpassed.

A trial order solicited.

Price for full transplanted plants in bloom, \$10.00 per 1000. Larger sizes, \$15.00 and \$20.00 per 1000. Mixed colors by express only. Cash with order please.

I. E. COBURN, 291 Ferry St., EVERETT, Mass.

Hydrangea Otaksa,
Asparagus Sprengeri,
Vinca Variegata, Smilax

Strong, clean stock, out of 2 1/2 in., \$2.50 PER 100.

John C. Hatcher

AMSTERDAM, N. Y.

GERANIUMS

Extra fine 4 in., in bud and bloom \$8.00 and \$10.00 per 100

Salvia, 4 in. \$8.00; 3 in. \$3.50; R. C. 75c. per 100

Alternanthera, 2 1/2 in. \$2.50 per 100

Sweet Alyseum, in bloom, 2 in. \$2.00; R. C. \$1.00 per 100

Vinca Variegata and Major, strong, 3 in. \$8.00 per 100

Canna, Mc Kinley, M. Herat, Austria, Egandale, Crown Prince of Italy, Queen Charlotte, 4 in. \$5.00 per 100

Caladium, 4 in. \$19.00; 6 in. \$20.00; 8 in. \$30.00 per 100

25c. per crate for crating. Cash or C. O. D.

W. J. & M. S. VESEY, Fort Wayne, Ind.

**CLASSIFIED
ADVERTISEMENTS****OASH WITH ORDER.**

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc. For Sale or Rent.

Our charge is 10 cts. per line 7 words to the line, set sold, without display. No advt. accepted for less than thirty cents.

Display advertisements in these columns, 15 cents per line; count 12 lines as to the inch.

[If replies to Help Wanted, Situation Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]

Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care of our Chicago office at 127 E. Berwyn Ave.

**SITUATIONS
WANTED**

SITUATION WANTED—As foreman or head gardener; experienced; best of references. Address, H. K., care The Florists' Exchange.

SITUATION WANTED—By a young man, aged 22; position in flower store; seven years' experience, good references. Address, H. H., care The Florists' Exchange.

SITUATION WANTED—By a young man as foreman of a small rose growing place. References on application. Address, H. T., care The Florists' Exchange.

SITUATION WANTED—By married man, well up in all greenhouse stock, good vegetable grower, highest references. Apply R., 4137 Chestnut street, Philadelphia, Pa.

SITUATION WANTED—By a young, single man in greenhouses. A violet specialist. Please state wages and references in first letter. Address, H. D., care The Florists' Exchange.

SITUATION WANTED—As traveling salesman by an American for a first-class florist supply or plant house. Best of credentials. Address, N. N., care The Florists' Exchange.

SITUATION WANTED—Young man, aged 24, some experience in greenhouse work, would like to get a position as an assistant gardener for outside work in a private place. Address, H. B., care The Florists' Exchange.

SITUATION WANTED—Near New York, as foreman or manager, by first-class grower of roses, carnations, chrysanthemums, Easter stock and general greenhouse stock. A No. 1 propagator. First-class references. Address, W. L. S., care The Florists' Exchange.

SITUATION WANTED—Young man, agriculture school graduate, life experience; gardening, fruit, greenhouse work; like good home. Good habits; can furnish reference; private or commercial. Address, E. B., care The Florists' Exchange.

SITUATION WANTED—By grower with fifteen years' experience in roses, carnations, chrysanthemums, strictly pot and general stock. Can produce results and give good references. Kindly state full particulars and salary. Address, H. O., care The Florists' Exchange.

SITUATION WANTED—Florist and gardener, competent grower of roses, carnations, chrysanthemums and general stock. 20 years' experience, strictly temperate, married, commercial or private; able to take charge. Address, H. Z., care The Florists' Exchange.

SITUATION WANTED—By first-class grower, 20 years' experience; roses, carnations, pot plants, Easter stock; good designer. Strictly sober, honest, industrious; experience in building. Wants position where diligence and ambition are encouraged. No encumbrances. State salary. Address, E. A., care The Florists' Exchange.

SITUATION WANTED—By an American as foreman. Age 30, married, competent to take charge and manage up-to-date place. First class grower of cut flowers and plants for commercial purposes. Open for engagement June 1st. Would prefer a position of trust where a capable, live man is wanted. Address, care Florists' Exchange, H. S. C.

SITUATION WANTED—By young man, Canadian, 23 years of age, 15 years' experience in all branches; growing (wholesale and retail), bedding out, decorating, making up and good salesman; good potter, know how to handle the hose. Position is wanted where there is room for advancement and where good service will be appreciated and paid for. Strictly sober. Address, H. S., care The Florists' Exchange.

Thirty cents is the minimum charge for advertisements on this page.

HELP WANTED

WANTED—A competent rose grower. Good wages, steady position, up-to-date place. Address, G. Van Bochove & Bro., Kalamazoo, Mich.

WANTED—A good, all-around florist for a downtown retail flower store in Chicago. Must come well recommended. Address, E. F., care The Florists' Exchange.

WANTED—Grower of carnations to take charge of section. Wages, \$35.00 per month and board to start with. J. Hansk, 51 Montgomery street, Plainfield, N. J.

WANTED—At once, two experienced rose growers to take charge of sections on large, up-to-date place. Wages, \$15.00 weekly. Address, N. G., care The Florists' Exchange.

WANTED—Man with some experience in rose growing on place of about 12,000 ft. glass. Married man preferred. Address, R. Volght, R. F. D. No. 2, Chatham, N. J.

WANTED—Man for watering general greenhouse stock. Steady work. Wages, \$13.00 per week. Peter Henderson & Company, 390 Arlington avenue, Jersey City, N. J.

WANTED—Two experienced carnation growers, strictly temperate. Send references and state wages expected in first letter. Jas. D. Cockcroft, Dept. G., Northport, L. I., N. Y.

WANTED—Foreman of a place, as partner, with about \$2,000 to rent an established business. Must be a grower of bedding plants, ferns and palms. Address, O. V., 130 14th avenue, Astoria, L. I.

WANTED—A good, all-around florist for a commercial place. Must have good knowledge of general stock; sober, honest and obliging. Good wages. Address, H. E., care The Florists' Exchange.

WANTED—Single young man, experienced in roses, carnations and general greenhouse stock. Swede, Dane or German preferred. Good wages. Address, H. W., care The Florists' Exchange.

WANTED—Experienced rose and carnation growers to take charge of sections. Give references and wages expected in first letter. Lake View Rosa Gardens, Jamestown, N. Y.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets, in the middle West. Married man preferred. State age, nationality, wages, etc. Address, G. H., care The Florists' Exchange.

WANTED—At once, competent man to handle 15,000 ft. commercial glass in first quality flowers and plants. Wages in proportion to ability to produce results. Cottage with garden on premises. C. L. Dole, Lockport, N. Y.

WANTED—A first-class florist; must be sober with push and up-to-date, and capable of taking full charge of a commercial place. One who can command good salary, which we are willing to pay to the right man. State experience, salary expected and when you could commence work. State nationality. Lock Box 67, Geneva, N. Y.

**MISCELLANEOUS
WANTS**

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same in writing. Address, F. W., care The Florists' Exchange.

WANTED TO LEASE—On or about 15th of June, with privilege to buy a commercial place, about \$3,000 to \$5,000 ft. of glass; must have some ground and dwelling within 10 miles of New York City. Address, G. B., care The Florists' Exchange.

FOR SALE OR RENT

FOR SALE—Established florist business near cemetery; two greenhouses, 20x90 ft. and one 20x55 ft.; quarter acre ground; modern, eight-room brick dwelling. Gas, bath, underlaid. E. M. Glad, 1410 City Line, Oak Lane, Philadelphia, Pa.

FOR SALE—Modern greenhouses in town of 18,000; one hour from Philadelphia. Retail trade earning 25 per cent.; takes all can grow. For details and reason for selling, address, G. Z., care The Florists' Exchange.

RARE OPPORTUNITY—For sale at Clifton, N. J., between Passaic and Paterson, florist property, consisting of three greenhouses. Number one and two, 150x10 ft. each; greenhouse Number three, 350x18 1/2 ft. Lord & Burnham construction, hot water heating. Dwelling house of seven rooms and bath; 437x120 ft. of land; 1/2 block running from street to street; uninterupted sun exposure. Whole property, including dwelling house, can be purchased for less than No. 3 greenhouse can be duplicated. Address or apply to J. Walter De Witt, 412 Broad street, Newark, N. J.

STOCK FOR SALE

FUNKIA VARIEGATA, strong clumps, fine, \$6.00 per 100. H. Pladeck, Middle Village, P. O. Elmhurst, N. Y.

SALVIA, 2 in., \$2.00 per 100. Extra strong, ready to shift. Joseph Wood, Spring Valley, N. Y.

FUNKIA VARIEGATA, extra strong stock at \$4.00 per 100, while they last. Order early. H. E. La Page, Stamford, Conn.

GLADIOLI, Groff's Hybrids, May and others. Seed ad of March 23. Send for list. John H. Umpleby, Laka View, N. Y.

SWEET POTATO PLANTS, now ready; Yellow Jersey, Bed Jersey and Big Stems, \$1.25 per 1,000; 35c. per 100. H. Austin, Felton, Del.

FINE, stocky plants of Salvia Bonifera, 40c. per 100; \$3.00 per 1000. Ball of Fira and Scarlet Dragon, \$1.00 per 100. Cash. R. Powell, Florist, White Plains, N. Y.

ROSES, Erbe, Bridesmaid, Ivory, 2 1/4 in., shifted from 2 in., \$3.00 per 100; \$26.00 per 1000. Wm. B. Sands, Lake Roland, Baltimore, Md.

ALLIGATORS: Little live "Gators" for aquariums. Mounted Alligators, natural or upright position, for window display. F. C. Belden Company, West Palm Beach, Fla.

ALTERNANTHERAS, three very best varieties, \$2.50 per 100; \$20.00 per 1000. English Ivy, 4 in., three plants in a pot, nice for cemetery work, \$6.00 per 100. Cash please. Eswell Kemp, 33 Grove street, Vailsburgh, Newark, N. J.

VIOLETS, Campbell, rooted divisions, strong, \$4.00 per 1000. Imperial divisions, \$5.00 per 1000. Asters, all the leading varieties, strong, transplanted plants, 75c. per 100; \$6.00 per 1000. Cash. Paul Thomson, West Hartford, Conn.

Going to retire from business. I have a large stock of everblooming roses in 4-6 and 6 in. pots; a fine stock of geraniums in 4 in. pots; a large assortment of bedding and vase plants. Low prices for good stock. Address, George Walwright, Trenton, N. J.

BABY RAMBLER ROSES, fine dormant stock, one year, \$12.00 per 100; 2-1 1/4 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1,000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

GARDENIAS, in 2 1/4 in. pots, ready for 6 in. \$3.00 per 100. Boston Ferns, 5-5 1/2 and 6 in. pots, 25c., 35c. and 60c., large enough for 6 and 7 in. Scottii ferns, 5 and 5 1/2 in. pots, large enough for 6 and 7 in. pots, 30c. Boston and Scottii ferns, 8 in., \$1.50 each. Carnations, Queen Louise, from soil \$1.00 per 100; \$3.00 per 1000. Dracena Indivisa, 4 in. pots, \$5.00 per 100. Strong rooted cuttings, English Ivy and Vinca Major, 75c. per 100. Heliotrope, 2 1/4 in. pots, \$2.00. Maman Cochet roses, 2 1/4 in. pots, \$3.00 per 100. Chrysanthemums, 2 1/4 in. pots; all best and new varieties, \$2.00 per 100. Hardy Phloxes, nice field clumps, \$3.00 per 100. Cash with order. Brabander & Cornelis, Somerville, N. J.

FOR SALE

FOR SALE—Greenhouse material and hot bed sash, milled from Gulf Cypress to any detail furnished. Oxford pntty, specially made for greenhouse and hot bed sash. V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE—Glass, 16x24, B. quality, double thick, at \$3.35. Glass, 16x24, A. quality, double thick, at \$3.70. This glass is all hand blown. V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

CHARCOAL SCREENINGS.

KEEPS SOIL SWEET. Ask the editor, or send \$1.00 for 100 lb. bag. E. V. Sidell, Poughkeepsie, N. Y.

FOR SALE

250 Sashes, 3x6 (5x8 and 10x12) glass, at \$1.25 each, and a farm-wagon at \$40.00; all in good condition, by F. W. PETERS, 29 West 41st St., Bayonne, N. J. F. W. PETERS, 29 West 41st St., Bayonne, N. J.

**FOR SALE GREENHOUSE
PIPE**

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. KROESCHELL BROS. CO., 33 Erie St., Chicago

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousand feet were erected and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; once better; and is doing a large business all through the season. Address, B. Hippard, Youngstown, O.

FOR SALE

RETURN TUBULAR BOILERS 1-40 H. P. price, \$225.00; 1-100 H. P. price \$250.00. Above boilers have New York City codes, permit and guaranteed and insured for 90 lbs. by Maryland Casualty Co.

PIPE Good serviceable second hand. No Junk with new threads. 2 in. 7c.; 1 1/2 in. 6c.; 1 1/4 in. 4c.; 1 in. 3c.; 3/4 in. 10c.; 3 in. 14c.; 4 in. 18c.; 4 in. cast iron greenhouse 14c. ft. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy working, No. 1 cut 3/4-1 in. \$4.00; No. 2 cut 1/4-1 1/4-2 ins. \$4.00; Armstrong Adjustable No. 2 cut 1/4-1 in. \$4.00; No. 3 cut 1/4-1 1/4-2 ins. \$6.50.

PIPE CUTTERS Saunders, No. 1 cut to 1 in. \$1.00; No. 2 cut to 2 in. \$1.30; No. 3 cut to 3 in. \$3.00; No. 4 cut to 4 in. \$4.50.

STILLSON WRENCHES Grip 1 1/2 in. \$1.10; 1 3/8 in., grip 2 in. \$1.60; 2 1/4 in., grip 2 1/2 in. \$2.25; 3 1/8 in., grip 3 1/2 in. \$4.50.

PIPE VISES Reed's Best Hinged Vise, No. 1 grip 2 in. \$1.75; No. 2 grip 4 in. \$3.60.

50 ft. lengths 1/2 in., guaranteed; 8 1/2 in.; for heavy work, guaranteed; 12 1/2 in.

HOT-BED SASH New; Gulf Cypress, 2 ft. x 6 ft. 80c.; glazed complete \$1.60 per foot. Second hand sash glazed \$1.35, good condition.

GLASS New American, 50 ft. to the box. 10x12 single at \$1.00. 10x12, 12x12 10x16 double \$2.65. 12x14 to 12x20 and 14x14 to 14x20 B double \$2.75. 16x18 and 18x18 B double \$3.30. 16x20 to 18x24 double \$3.26 per box. 8x8, 7x8, 8x10 old, single \$1.50. 8x10 old, single \$1.60. 10x12 second hand ground glass at \$1.50 per box.

MATERIAL AT WHITE PLAINS, N. Y.

From a 4.0 ft. sash house, one year old, consisting of 276 1 1/2 in. Cypress sash, 3 ft. x 6 ft. painted and glazed with 7 x 9 glass at \$1.40 each. 760 ft. sash glazed and 400 ft. ridge, 2 x 6, at 65c. a ft. 240 ft. 2 in. x 8 ft. sash rafters at 16c. each. 1500 ft. 2 in. black pipe, at 7 1/2c. per ft.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

NEW LOGPOST POSTS 20c. each, 2 1/2 to 3 1/2 in. long, 7 ft. long. 7 ft. Locnat Post, 4 in. 60c. each. 8 ft. Locnat Post, 4 in. 80c. each.

**METROPOLITAN
MATERIAL CO.**

Greenhouse Wreckers

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

SURPLUS

Roses, 2 1/2 in. Hybrid Perpetuals, fine condition for planting out, at \$25.00 per 100.

Creepers and Climbers including Crimson Ramblers, at \$20.00 per 1000.

Baby Ramblers, at \$30.00 per 1000.

4 inch pot roses in great variety, at \$10.00 per 1000.

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

Columbus, O.**News Notes.**

There has been no warm weather yet, and business in all lines seems to keep right along steady and good; everyone is comfortably busy, and has been so far the longest Spring on record. It has been a season without rushes, simply a steady run of business from the start. I do not think that the final outcome will be much if any behind last year.

Our recent craftsman Fred Windmiller was in town last week, and informs us that he is making a change, from the Cleveland Cut Flower Company to Madison Miesse's establishment at Lancaster, O. Mr. Miesse's specialty being the forcing of lettuce and tomatoes. Mr. Windmiller would seem to be in just his element.

The absence of the usual number of peddlers on the streets selling cut flowers at this season, has been most favorably commented upon by the craft here; but the high rates lately charged for carnations, which are mostly sold on the streets, have shut off this annoying trade interference.

The Columbus Federation of Women's Clubs has completed its yearly distribution of flower and vegetable seeds to the school children. This season the seeds used were obtained part from the Florists' Club and the remainder from the congressional quota, through our congressman from this district.

The Columbus Floral Company report a very good business indeed for their first week. This new company has a very pretty store, in a good location, and should do a fine trade.

M. B. Faxon has been invited to address some of the teachers and scholars of our public schools on the subject of planting and gardening. The children's gardening movement is gathering daily many friends, and its future is assured; although opinions do differ on the ways and means to be employed. F. W.

New York.
News of the Week.

The meeting of the New York Florists' Club, which took place in the Hotel Earlington on Monday evening, was a very enthusiastic one, and the trend of opinion of the members seems to point to another colossal flower show in New York at some future time. After the meeting, John Birnie chaperoned a party through the plant market at Canal and Washington streets, and those who participated in this jaunt speak of the occasion as one of the most pleasant experiences they have ever had. A carriage conveyed the party from the Hotel Earlington to the market, and it was 5 o'clock on Tuesday morning before all the sidelights of this euporium of New York City had been thoroughly investigated. Included in the party were John Young, John Donaldson and Sidney G. Stark, the latter a gentleman who is thoroughly familiar with the Covent Garden market in London, and he expressed his opinion that for the slick manipulation of flowering plants in boxes and other receptacles, the New Jersey growers, who supply this market, are away ahead of anything they can do in old London. We have an idea that Mr. Stark will convey to the London (England) papers his impressions of the Canal street market, with the view of giving the plant dealers over there a few hints on how they can handle their products with more facility and to better advantage to themselves.

Florists surrounding Greenwood Cemetery have had quite a loss from the frost that occurred on Saturday morning, May 11. A great many geraniums had been planted during the few days previous, and the frost was so severe that a very large number were killed. As the planting in this cemetery is done by contract, the loss to the florists comes rather heavy, as they have to replace everything.

On Sunday morning, May 12, the heavy frost on Long Island, according to reports, did thousands of dollars' worth of damage to farmers; potatoes, beans and tomatoes being ruined entirely. It is also believed that the peach crop is ruined to a large extent, particularly on the south side of the Island, the general opinion being that the crop will be less than half of what it was last year.

Burgevin's Sons, florists, Kingston, N. Y., are sending out nice souvenir postal cards on which is an illustration of their building, also showing their plant and flower display which occupies the two corner windows.

Long Island railroad officials have ordered that this year only, plants, flowers and shrubbery that are native to Long Island shall be used in the decoration of the little parks surrounding some of the stations of that railroad.

Louis G. Reynolds of Dayton, O., founder and president of the Carnation League of America, has been visiting New York. Mr. Reynolds says that the league is constantly growing, and that it is the desire of the organizers to bring about more appropriate observances of all national holidays, including the Fourth of July.

Fleischman, fleuriste extraordinaire, has, in addition to his branches in New York, Chicago, London, Paris and Berlin, opened a new store in the arcade of the United States Express building, corner Rector and Trinity place.

The suggestion of Mr. O'Mara at our last club meeting that we have a field day in the Bronx Park is a good one, and we ought to take it up some time in the near future.

E. W. Fengar of Newark, N. J., has a new range of glass almost completed on his property at Irvington, N. J. The establishment consists of about 36,000 square feet, and he expects to be ready to plant carnations, which are to form his principal crop, early in July.

W. N. Campbell, who for several years has been on the road for Vaughan's Seed Store, has resigned his position and gone to California. Mr. Campbell was held in high esteem by all who knew him, and his co-workers in the store presented him with a beautiful loving cup on Saturday last as a token of their deep regard for him.

Edwin Persson, grower for E. W. Fengar of Newark, N. J., will spend a vacation at his home in Sweden this Summer.

Samuel Henshaw, whom we reported last week as very ill in Smith's infirmary, S. I., is, we are glad to say, slightly

improved, and his relatives have hopes that he will ultimately recover from the illness that has kept him confined to his bed for some weeks.

Mr. De Grout, representative of John Scheepers & Company, left May 15 for a trip through Europe to look after the packing and filling of the orders of the firm's American customers. He will visit the Holland, Belgium, French and German growers, and make arrangements to remove the concern's headquarters, now at Arnhem, to Hillegom, Holland.

John Miesean, florist, Elmhurst, L. I., will sail for Europe some day next month, going to Germany, his fatherland.

Visitors in town this week included S. S. Skidelsky, Philadelphia, who read a very interesting paper before the New York Florists' Club on Monday evening, and S. J. Mitchell, Houston, Texas, who is on his way to Europe where he will visit the more prominent chrysanthemum growers. He sailed on the s. s. Cedric, Friday the 17th.

A. J. Guttman is back from Cuba and reports having had a very enjoyable trip.

FAYETTEVILLE, TENN., May 7.—W. A. Eogland, nurseryman at Flintville, this county, has suffered a very heavy loss on account of the frost and cold weather of this Spring. He had 37,000 cherry trees that he had sold for \$1,500. He will probably save 4,000 out of the number. He also had 50,000 peach trees, and he estimates his loss on these at \$800.

FUCHSIA

Little Beauty, 3, 2 1/2, and 5-in., 6c., 10c., and 15c. each. Mixed, standard varieties, early bloomers, 2 1/2 and 3-in., 4c. and 6c.
Boston Ferns, 2 1/2, 3, 4, 5 and 6-in., 4c., 8c., 12c., and 35c.
Pieroni, 4 and 5 in., 12c. and 25c.
Scottish, 5 in., 25c. and 4 in. 12c.
Dracena Indivisa, 4, 5 and 6-in., 10c., 20c. and 30c.
Barrowsii, 4 in., 15c.
Adiantum Croweanum, 6-in. and 7-in., 50c. and 75c.
Ficus Elastica, 6-in. and 7-in., 50c. and 75c.
English Ivy, 3 in., 4c.
Prices quoted are by the dozen or hundred.

BAUR FLORAL CO., Eric, Pa

COLEUS All Sizes from Sand and Soil.

Verschaffeltii and Golden Bedder, \$6.00 per 100. Very strong rooted cuttings.
Low Bushy from soil, strong. Ready to put out. Fancy select, very brightest mixed \$1.00 per 100.
Giant, many kinds, finest of all Golden \$1.20 per 100.
Verschaffeltii and G. Bedder, \$1.20 per 100.
GERANIUMS Young stocky transplanted Brnanti, \$1.25. F. Blanc, new double white, 8c. each.
Alternanthera, Bushy soil plants. Red Rug, very fine, 80c. per 100. A. Nana, 60c. per 100.

DANIEL K. HERR, Lancaster, Pa.

GERANIUMS

S. A. Nutt, Brnanti, and Assorted colors, 4-in., \$6.00 per 100; 3-in., \$4.50 per 100; Saleroi, \$2.50 per 100.

CHRYSANTHEMUMS

White Shaw, \$3.00 per 100; \$25.00 per 1000. Yellow Bonafon, \$2.50 per 100; \$20.00 per 1000. White Duckham, (new), \$2.00 per doz. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

PANSIES

THE JENNINGS STRAIN.
A few more left; strong plants at \$1 per 100, transplanted, ready to bloom. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn.
Growers of the Finest Pansies

SALVIAS

A fine lot, 6 to 8 in. high, from flats, \$1.50 per 100. Cash with order.

H. M. WOUNDY, NEW CANAAN, CONN.

FUNKIA VARIEGATA

Day Lily, strong pips, \$4.00 per 100. Cash.

C. HORNECKER, Box 31, Springfield, N. J.

DECORATION DAY

Carnations, Brides, Bridesmaids, Richmonds, Wellesleys, American Beauties, Stocks, Sweet Peas, Marguerites, Candytuft, Mignonette, Spiraeas, Lilies, Lily of the Valley, and all seasonable flowers.

HENRY M. ROBINSON & CO.

15 Province Street, 9 Chapman Place
BOSTON, MASS.

TEL. MAIN 2617-2618.

All orders receive prompt attention.

A trial order will convince you.

GERANIUMS --- GERANIUMS

READY MAY 1.
In bud and bloom, S. A. Nutt, La Favorite, Beauty de Poitevine, Mary Hill, A. Ricard, John Doyle, Jean Vlaud, Marquis de Castellane, and other good varieties, 3 1/2 in. pots, \$5.00 per 100.
CANNAS, Florence Vaughan, Charles Handerson, Queen Charlotte, Duke and Egadale, 4 in. pots, \$5.00 per 100.
HELIOTROPE, 2 varieties, 3 1/2 in. pots, \$5.00 per 100.
HELIOTROPE, two varieties, 2 1/2 in. pots, \$2.00 per 100.
VERBENAS, 3 in. pots, \$2.50 per 100.
SINGLE PETUNIAS, large flowering, 3 in. pots, \$2.50 per 100.
PARLOR IVY, 2 1/2 in. pots, \$2.00 per 100.
AGERATUM, dwarf blue, 2 1/2 in. pots, \$2.00 per 100.
VINCA, variegated, 2 1/2 in. pots, \$2.00 per 100.
NASTURTIUMS, in variety, 3 in. pots, \$2.50 per 100.
SALVIA SPLENDENS, 2 1/2 in. pots, \$2.00 per 100.
PARGALONIUM VICTOR, 3 1/2 in. pots, \$7. per 100. Cash with order.
WM. J. CHINNICK, TRENTON, N. J.

A Few Good Things You Want

Cash with Order.
Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100.
Asparagus Sprengerii, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.
Geraniums, S. A. Nutt, John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellane, Poitevine and Vlaud, 2 in. pots, \$3.00 per 100.
Bex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100.
Scotti Ferns, 5 in., 30c. each.
Vinca Vera, 2 in., \$2.00 per 100.
Gladioli, blooming bulbs extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.
Dracena Indivisa, 4 in., \$10.00; 5 in., \$25.00 per 100.
Heliotrope; Coleus, red and yellow; Cigar Plants; Alternanthera, red and yellow; Verbena; Scarlet Sage, Bonfire, 2 in., \$2.00 per 100.
Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s properly packed in good order.

GEO. M. EMMANS, Newton, N. J.

ENGLISH IVY

R. C., 75c.; 2 in., \$2.00.
BEX BEGONIA, 2 in., \$3.00; 4 in., \$8.00. ASPARAGUS SPRENGERII, 2 in., \$2.00 per 100. ARAUCARIAS, 6c. and 75c. each. CANNAS, Austria, \$1.50; America, \$1.50; D. Harum, \$2.00; Pennsylvania, \$1.50; E. Gray, \$3.00; Marborough, \$2.00; Italia, \$1.50; A. Bouvier, \$2.00; C. Henderson, \$2.00; Egadale, \$3.00 per 100.
Will exchange for Enchantress, Boston Market or Guardian Angel Carnations

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Fine stocky plants that will bloom in May. 50c. per 100, \$3.00 per 1000.
Forget-me-nots in bud and bloom, large plants \$2.00 per 100, \$15.00 per 1000.
Wallflowers in bud and bloom, \$3.00 per 100.
Verbenas, Stocks, Ageratus, Salvias, Cigar Plants out of 2 1/2 inch, \$2.00 per 100, \$15.00 per 1000.
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2 1/2 in. pots \$5.00 per 100; \$40.00 per 1000. 5 per cent. discount on all orders received before July 1st accompanied by cash. July and August delivery.

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MAMMOTH VERBENAS, 20 varieties

healthy plants from soil, \$1.00 per 100; \$9.00 per 1000. I have raised these Verbenas from seed, and twice transplanted them making fine stocky plants. None but good stock sent out.
ASTERS, Queen of the Market, white and purple branching, transplanted, all healthy stock, 40c. per 100; \$3.00 per 1000.

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The finest leaf cuttings obtainable
For delivery from May 1st, 2 1/2 in. pots \$12.00 per 100, \$100.00 per 1000.
Order at once.

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300,000 ASTER PLANTS

Queen of the Market, in white, pink and mixed colors; late branching, white, pink, lavender and mixed colors; Ostrich Feather, Ray Aster and Victoria, strong, stocky plants, ready to plant out at \$2.50 per 1000; in 5000 lots, \$2.00 per 1000.
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Sweet Lavender

fine plants, 2 in. pots, 1 year old, 6c.
ASPARAGUS all sold.

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ROSES
BEST COMMERCIAL VARIETIES ONLY

The New Rose "Morton Grove," winner of the Silver Cup at Chicago Flower Show, 1906, for best new rose, will be disseminated in 1908.

	2 1/2-in.	2 1/2-in.
	100	1000
Maids	\$4.50	\$40.00
Brides	4.50	40.00
Gates	4.50	40.00
Uncle John	4.50	40.00
Perle	5.00	
Sunrise	5.00	

Rosalind Orr English	\$5.00	\$15.00
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Richmond, fine stock, 3 1/2 in.	\$8.00;	\$75.00 per 1000.
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Bench Plants, Roses, cut back, 2 years old.
 Uncle John, Perle, Rosalind Orr English, and Sunrise, now ready for limited time, \$5.00 per 100; \$40.00 per 1000. American Beauties \$6.50 per 100; \$60.00 in 1000 lots.

	WHITE			
	R. C. per 100	1000	2 1/2 in. per 100	1000
Robinson	\$2.00	\$17.50	\$2.50	\$22.00
Crawford	2.00	17.50	2.50	22.00
Eaton, Timothy	2.50	22.00	3.00	27.50
Alice Byron	2.50	22.00	3.00	27.50
Touset	4.00	35.00	5.00	45.00
J. Nonin	4.00	35.00	5.00	45.00
Madam Paul Sabat	5.00	45.00	7.00	65.00
Adelia	2.00	17.50	3.00	27.50
Kalb	1.50	13.50	2.50	22.50
Merry Christmas	2.00	17.50	2.50	22.50
White Bonnaffon	2.50	22.50	3.50	30.00

	PINK			
	R. C. per 100	1000	2 1/2 in. per 100	1000
McNiece	\$2.50	\$22.50	\$3.50	\$30.00
Maud Dean	2.50	22.50	3.50	30.00
Dr. Enguehard	2.50	22.50	3.50	30.00
Perrin	2.00	17.50	2.60	22.50
Shaw	2.50	22.50	3.50	30.00
New Rosier (best early pink)	4.00	35.00	5.00	45.00

YELLOW

Col. Appleton	2.50	22.00	3.00	27.50
Bonnaffon	2.00	17.50	2.50	22.50
Golden Wedding	2.75	25.00	3.50	30.00
Yellow Eaton	2.50	22.50	3.00	27.50
Reiman	2.50	22.50	3.50	30.00
Halliday			2.50	22.50
October Sunshine	2.00	17.50	2.50	22.50
Chautauqua Gold	2.50	22.50	3.50	30.00

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12,000 Rooted Cuttings, \$5.00 per 100; \$45.00 per 1000.

FROM HEALTHY STOCK

POEHLMAN BROS. COMPANY

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CARNATIONS FROM POTS
 Robert Craig \$6.00; Enchantress \$2.50; Flamingo \$3.00; Harlowarden \$3.00; Queen \$3.00; Boston Market \$2.50; German Ivy, 2 in., \$2.00; German Ivy, 3 in., \$4.00; Canine, unnamed, 3 in., \$3.00; Canine, unnamed, 4 in., \$4.00; Fantasies, in bud and bloom, 2 1/2 in., \$2.00.
S. G. BENJAMIN, Fishkill, N. Y.

S. J. GODDARD
 Framingham, Mass.
 Rooted Carnation Cuttings a Specialty
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ASPARAGUS
 Robustus, Ideal for pots, pans and vases. Ready for 4 inch pots at \$5.00 per 100. Sample for 10c.
 Plumosa, Deflexa, Sprengeri and Smilax, ready June 15 to October 1.
 Send for price list before placing your orders for this stock.
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 Rooted Cuttings ready May 20.
 Nutt, Buchner, Castellana, Frances, Viaud, Perkins, Jaulin, Poltevine and Ricard. For the lot all varieties at \$10.00 per 1000.
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 Strong, Healthy, Well-Rooted Stock
 Per 100 Per 1000 From pots

Cardinal	2 50	22 50	3 00
Enchantress	2 50	22 50	3 00
Harlowarden	2 00	15 00	2 50
Boston Market	1 50	12 50	2 00

We have about 5000 fine Boston Market from pots
 Cash with Order. Satisfaction guaranteed.
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CHRYSANTHEMUMS ROOTED CUTTINGS
 E. I. Brooks, Autumn Glory, Mrs. Wm. Duckham, from sand, \$2.50 per 100; \$20.00 per 1000. R. Halliday, Geo. S. Kalb, Dr. Enguehard, Appleton, H. Robinson, Newlit, from sand, \$2.00 per 100; \$15.00 per 1000; from soil, \$2.50 per 100; \$20.00 per 1000. Black Hawk, Wm. Duckham, Ivory, pink and white; Polly Rose, Glory of the Pacific, from sand, \$1.50 per 100; \$12.50 per 1000. Cash with order. Samples free.
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100,000 GERANIUMS
 Finest stock in the country; most in bud and bloom. Poltevine, Nutt, D. Grant, Buchner, Ricard, Castellana, etc., heavy, 3 in., \$4.00; 4 in., \$5.00; extra large, \$8.00 per 100. Mme. Salleron Geraniums 3 in., \$3.00 per 100.
DREER'S superb, single, fringed **PETUNIAS** and **VERBENAS**, stroug, 3 in., in bloom, \$3.00 per 100.
COLEUS, strong, 2 in., \$1.75; 3 in., \$2.50 per 100.
LOBELIA, yellow, red and fancy, strong 2 in., \$1.75 per 100; \$10.00 per 1000.
2,500 SALVIA BONIFRE and **SPLENDENS**, large, 2 3/4 and 4 in., \$1.75, \$2.50 and \$4.00 per 100.
CANNAS Black Prince, McKinley, Chas. Henderson, West Virginia, etc., large 3-4 in., \$5.00 per 100. Cash please. All stock guaranteed No. 1 or your money back. Extras added to help pay expressage.
 Standard 2 in. pots \$1.75 per 1000.
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 All the latest and best varieties.

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 Rooted Cuttings
 J. Nonin, J. Jones, White Maud Dean, \$2.00 per 100. Golden Wedding, Yellow Eaton, Timothy Eaton, Dr. Enguehard, \$2.50 per 100. Mrs. Duckham, Wm. Duckham, \$2.00 per 100. 2-in. stock ready June 1; write for prices.
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Looking for a good, late, **Yellow MUM?**
 Invest in
GOLDEN DOME
 There is nothing to equal it. Stock ready now. \$35.00 per 100; \$5.00 per dozen.
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 The following varieties in 4-in. pots, in bud and bloom, in fine condition:
 S. A. Nutt, Beante Poltevine, La Favorite, John Doyle, Bruanti, Mar. Castellana, Tregu, Mms. Buchner, Richard Brett, Ricard, Francis Perkins, Jean Viaud, Double Grant, Mar. De Montmort, and several others, \$6.00 per 100. The selection of sorts to remain with us.
 Cash must accompany all orders.
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 Ready Now—Prompt Delivery.
 Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000.
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CHRYSANTHEMUMS
 From soil and sand. A. No. 1 stock. Major Bonnaffon, Dr. Enguehard, R. Halliday and Pacific, \$1.50 per 100; \$10.00 per 1000. Nonin, \$2.00 per 100. SWEET ALYSSUM, SALVIA, VERBENA, PHLOX DRUMMONDI, from 2-in. pots, in bud and bloom, \$2.00 per 100. BOSTON MARKET CARNATION, 2 1/2 in. pots, \$2.00 per 100. ASPARAGUS PLUMOSUS NANUS, ready for 4-in. pots, \$4.00 per 100. Cash with order please.
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 Bonnaffon, Ivory, Appleton, Enguehard, Robinson, 2 1/4 in., \$2.00 per 100; \$17.50 per 1000. SALVIA and HELIOTROPE, 2 1/4 in., \$2.00 per 100. DORMANT CANNAS, named varieties, \$2.50 per 100; assorted, \$1.50 per 100. Cash with order please.
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 3000 Gen. Grant, 3 in., \$4 per 100.
 5000 Gen. Grant, 4 in., \$6 per 100.
 5000 Nutt, 4 in., \$6 per 100.
 Cannas, 1000, A. Ricard, Queen Charlotte, President McKinley.
 Astara, 5000, 2 1/4 in., separate colors, Semple's. All grown for home trade.
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R. A. ELLIOTT, Morristown, N. J.

JOHN E. HAINES
 The Originator of three varieties:

	100	1000
John E. Haines Carnations	\$6.00	\$50.00
Imperial	12.00	100.00
Pink Imperial	12.00	100.00

 Headquarters at Bethlehem, Pa.
 Orders taken now for field-grown plants at same price as for rooted cuttings.
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 White: EATON, ESTELLE, BONNAFFON ALICE BYRON, IVORY.
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 Rooted cuttings, \$2.00 per 100; \$15.00 per 1000. Cash with order.
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 Novelties and all the standard varieties. NOSHOSMA RIPARIUM, a valuable new Christmas flowering plant. Write for descriptive circular and price list.
CHARLES H. TOTTY, Madison, N. J.

MABELLE
 Grand New Pink Carnation for 1907. A few thousand R. C. and pot plants still left. Order quick. This variety is a money maker.
 Price of rooted cuttings, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000.
 Price of pot plants, 2 1/4 inch, \$3.00 per doz.; \$15.00 per 100.
THE H. WEBER & SONS CO., OAKLAND, MD.

Chrysanthemums
 Rooted Cuttings and Pot Plants. Write for varieties and prices.
THE FLORISTS' EXCHANGE,
 Franklin & St. Paul Sts., BALTIMORE, Md.

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 Fine, stocky plants, in bud and bloom, 4-in. pots. Nutt, Ricard, Viaud, Jery red, \$7.00 per 100.
 MAMMOTH VERBENA, 2 1/4-in., in large bud, \$1.25 per 100; \$10.00 per 1000.
 SALVIA SPLENDENS, 3-in., \$3.00 per 100.
HILL TOP GREENHOUSES
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1877

We Can Fill Orders For

1907

DECORATION DAY

FROM

WE can ship you better quality flowers for less money than you can obtain if you, come to Boston to purchase them, besides saving you the time and expense.

We filled all orders sent us at Easter; can do so now.

75,000 CARNATIONS
30,000 SPIRÆAS
25,000 STOCKS
50,000 ROSES Including 5,000 American Beauty
500,000 HARDY FERNS
HARRISII LILIES, LILY OF THE VALLEY,
SWEET PEAS, PINK POND LILIES,
PÆONIES, and all Seasonable Flowers

ORDERS going a long distance will be packed with greatest care. There is no question about the quality of flowers we send out; they are raised by the most successful growers in the country and always prove profitable to those who purchase them.

WELCH BROS.

226 Devonshire Street,

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BOSTON, MASS.

THE WEEK'S WORK.

Timme's Timely Teachings.

A Belated Season.

An unusually backward Spring, such as the present one undoubtedly is, may have its advantages as looked upon by the nursery concerns, the seedsman, the coal dealer and some other lines of business, but its drawbacks greatly outweigh its advantages when the truck gardener, the retail plant grower and kindred interests are considered. Sowings of the outdoor early vegetables had to be made several times and still the crops look desperately uncertain, their chances of living through the cutting May morning's frost, snow and cutting winds being mighty slim. This means an uncommonly late market for the first output, a short season and also high prices, but hardly sufficiently higher to cover the increase or loss in outlay and labor.

The grower of bedding plants, with his glass protection, fares much better in a late season than the truck farmer. Still he has his grievances, well-founded and manifold. Early stock does not move as rapidly or as soon as was reckoned upon in planning operations. That part of the stock started unusually early for the first onrush of Spring trade, has failed in its purpose and, in some few instances, has completely outgrown its usefulness.

The Care of Stock.

The many failures with seeds by the economical householder and the large class of people who love to raise their own garden plants, may this year, it is believed, greatly increase the sales of plants raised by the professional florists. Should this prove true an all around shortage of stock is likely to prevail before long, though at present the supply, filling the houses to overflowing, seems ample and larger than in previous seasons. Of geraniums there will in all probability not be too many, and good grown stock in this the most important line of bedding stock is already decidedly

scarce, bringing a better price than for years gone by. Some other things, fairly well grown, are also hard to obtain this season, and altogether the outlook for a brisk season, though of necessity a short one, is exceptionally bright.

The raising of ordinary kinds of bedding material is by no means the hardest or most perplexing part in its culture. It is much more difficult to keep salable plants in perfect condition after they have reached that stage. A gradual hardening off and exposure to sunshine and air do much toward fitting them for outdoor quarters, but do not prevent them from becoming overgrown, lanky and undesirable for the purpose they were raised for, unless the space between the plants, necessary for development, is ample and increased from time to time. But even this measure with some kinds of stock fails to keep it in fine condition for any great length of time, the pots drying out too rapidly, the hardening of the roots causing the plants to lose their thrifty appearance; such stock soon goes to utter ruin. Sinking the pots into bench soil, or mulching with some sort of loose material, lessens the labor of watering and helps to keep the plants in good condition.

Watering and Sprinkling.

In Winter the morning hours are the proper time for watering; during hot Summer it is in the evening when the work will do most good. At this the between season of the year the grower of all kinds of stock in pots, trays, benches and frames adheres to a rule much more reliable than any other. It is: "Water whenever a plant needs it, regardless of time or weather conditions; do it thoroughly and not again before the plant needs it again, never waiting, however, until it has become killing dry." It is a good old rule and one not nearly as difficult to follow as is often believed. On the proper performance of this one of the various cultural duties depends more than three-fourths of the success with plants of all kinds, more particularly with those grown for the bedding trade and filling our houses and frames at this moment. Watering should never be neglected or done in a haphazard way, and stock should never be allowed to suf-

fer for the want of this their life element.

The vigor of many kinds of plants may easily be upheld by frequent sprinkling. This and watering, done once a day as heretofore, will now barely suffice. Things dry out amazingly fast and some close watching is necessary to do justice to the needs of potted plants, augmented from day to day as the season advances. Any person unmindful of this fact, rounding out his daily course of watering as practiced earlier in the season, beginning at one end of his allotted area and throwing off his rubber boots at the other, satisfied that now all is well for the day, may find to his dismay that everlasting vigilance at just this time is of greater value than established regularity in the performance of duties connected with the culture of a multifarious lot of potted and bedding plants.

Late Cuttings.

Propagation of some of the leading kinds of florists' stock, when delayed or prolonged into the latter part of Spring, entails a greater amount of attention in care taking than was found to be needful with cuttings struck earlier. Chrysanthemum cuttings and those of some hardy perennials in particular are among those most easily harmed or lost outright at this time through any sort of neglect or forgetfulness in matters essential to successful propagation. Shading, dispensed with in the rooting of some kinds of cuttings in the shorter and cooler days of early Spring, will now be necessary. The right quantity of moisture in the sand and overhead must be maintained by an extra amount of attention to prevent wilting. The flagging or wilting of cuttings, at all seasons an ill-boding occurrence, now means little less than total loss. When cuttings show the least signs of a smart beginning in the forming of roots, it is best to pot them up. This always saves much needless trouble and makes good plants. An airy frame is now the best place for half hardy young stock.

Rust and Leaf Spot.

Stagnant plant growth during the Winter favors the development of fungoid and bacterial diseases and to some extent also the inroads of various kinds

of insects, scale and mealy bug being among the latter. Hard to combat throughout Winter, it is often a matter of surprise to see these plagues totally vanish at the approach of Spring without the least effort on the part of the ever-busy grower. Not in every instance, however, do they disappear entirely with the pulsation of renewed plant life, and the gardener's help is needed in ridding some kinds of stock of one or the other of its tenacious enemies. No better time for the task could probably be chosen than now. Some varieties of chrysanthemums, of roses and carnations, showing traces of rust after being potted up from the propagating bench, must now be seen to. Though there is nothing more certain to revivify a weak and spindly lot of young chrysanthemums than a transfer from crowded and air-stinted greenhouse quarters to clean and roomy cold frames, this measure alone cannot be relied upon as a ready remedy for rust. Recourse must be had to the usual remedies for disorders of this kind in order to forestall future trouble. One ounce of sulphide of potassium to about three gallons of water in two or three applications is most apt to rid plants of rust or leaf spot at this season. The removal of a faded leaf here and there is very light cases is sometimes all that is needed to prevent the spread of fungoid diseases, but would, in severe cases, prove a hopeless task.

A more radical way of distancing all danger from rust and allied disorders is the re-rooting of the clean and rust-free top-growths cutting away the rust-ridden lower part, and thus obtaining an entire new and often also more vigorous plant than was had before. It is a process practiced in the case of coleus, when no other way gives half as good results in freeing the stock of mealy bug. In the case of chrysanthemums, as also in that of coleus and several other kinds of stock, it is not yet too late for the conversion of any unclean batch into a respectable lot of plants. Some few varieties of carnations, badly suffering from bacterial diseases nearly every Winter, although free of them during the Summer, are not easily cured and should be discarded. FRED. W. TIMME.

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A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 WEST 28th STREET, NEW YORK
Telephone: 3559 Madison Square
CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

REVIEW OF THE MARKET

NEW YORK.—The weather has taken a severe turn and warmer conditions are prevailing; as a consequence, cut flowers of all kinds are beginning to accumulate. American Beauty roses are still quite plentiful, and while the prices for the top grades remain fairly firm, a general weakening is felt in the lower grades. Strange to say, there is a supply of mildewed American Beauty reaching the market just now, for which it seems impossible to get any price whatsoever. Of course, this is not to be wondered at, seeing that there is plenty of good, clean stock to be had. The values of Bride and Bridesmaid roses are a trifle weaker, and it is believed that before many days the lowest prices of the season will be in force. It has generally happened that prices have gone all to pieces long before this time in previous years.

Carnations are plentiful enough for all demands, and are still bringing remunerative figures; carnation growers here certainly had an excellent season this year. Lilac is beginning to arrive from Southern New Jersey, and peonies are coming in regularly, although they are not to be seen in any quantities as yet. Traendly & Schenck are offering watsonia this week, a novelty that should meet with favor from retail buyers. Snapdragon of excellent grade is to be seen in several stores, and generally meets with a fair demand. Stocks, sweet peas, lily of the valley, and gardenias are all in full supply, and lilies are a little more plentiful than they have been for a few days.

CHICAGO.—With slight variations the market for the past week has held its own. On one of two days there has been an inclination toward lower prices, but they have not been permanent with good stock though roses of the short-stemmed sorts and carnations, if not of first quality, can be purchased at somewhat lower prices than last week.

Other flowers and green stock are fully holding their own. W. K. W. PHILADELPHIA.—There is an abundant supply of all kinds of flowers this week. The local demand is very poor, but the market is being cleaned up fairly well on shipping business at greatly reduced prices. American Beauty are plentiful, local growers cutting 400 to 500 per day. The best flowers are selling at \$3 to \$4 by the dozen, and at \$17.50 to \$20 per 100. Tea and roses are in abundant supply; \$10 is the best price obtainable for choice stock, very little being sold at that figure; general stock goes for any reasonable offer.

For carnations \$3 to \$4 per 100 is obtained for the very best stock but only on some urgent demand is this price paid; plenty of stock sells at \$1.50 and \$2 per 100. Sweet peas are very plentiful, general stock selling at 50c, and 75c per 100, a few extra choice and scarce colors at \$1 to \$1.50. Antirrhinum majus brings \$1.50 to \$2 per dozen for extra choice, 50c to 75c for general stock. Gardenias go at \$10 to \$12.50 per 100; lily of the valley, \$3 to \$4 per 100, outside valley \$1.00 per 100 with few sales. Cattleys are at \$50 per 100; daisies, \$1 to \$2.50 per 100. Smilax sells at \$18 to \$20 per 100; asparagus, 50c to 75c per string.

DAVID RUST. ST. LOUIS.—The stock of flowers coming in is considerably in excess of the demand, and prices have weakened. Trade among the wholesalers and retailers alike has been very slow, and but the only ones who are busy now are the plantmen who have taken advantage of the fine, warm weather to rid themselves of big piles of orders on hand for planting out. The retailers had to content themselves with a few orders for doctor graduates and funeral work, and the man with the big order had no trouble to make good. All of the past week and this Monday morning, the wholesale market was loaded down with extra fine quality stock in roses, carnations and almost everything else in season. In roses we find a great crop of long American Beauty, which were sold at all the way from \$2 to \$3 per dozen for the best; in the shorter grades from \$1 down to 50c per dozen; shorts, \$2 to \$3 per 100. In other varieties of roses the market is very much glutted at prices that would hardly look well in print. Carnations, too, are down in price, owing to so many coming in, the best

averaging \$3 per 100; in other grades from \$1 to \$2 per 100, quality extra fine. Harrisii and calls go at \$8 per 100, with plenty available. Sweet peas are also becoming more abundant than the demand calls for, selling at from 25c. to 75c. per 100. A lot of outdoor lily of the valley is coming in, also snowballs, peonies, Cape jasmine, Iris and other early blooming stock. In greens everything is to be had now.

ST. PATRICK. BOSTON.—Unsettled weather has continued during the past week and as a consequence there has been little or no improvement in the cut flower trade. Stock is plentiful, and while one day there may be a ready demand the next will see little call for anything. Roses are plentiful and the quality is unsurpassed; American Beauty are now better than they have been this season. Richmond still holds good, and there are some fine grades of Killarney.

Carnations remain in practically the same condition as a week ago—plenty of good flowers of all colors are to be had. Sweet peas are good; there is a great improvement in this flower this season in this market. Pansies are plentiful. Lily of the valley is of excellent quality. Lilies are not very plentiful. Gladioli are now coming in in good shape. Stocks are fine, so is snapdragon. Asparagus, although enough for the demand, is not so plentiful as it generally is. J. W. D.

CINCINNATI.—Saturday morning the thermometer dropped to 42 degrees and fires were necessary. The outlook for the farmer as well as the florist is not very encouraging. In March we had May weather; in April, March weather; and in May, December weather, if it keeps on. Grass seems to be about the only thing that is growing. Carnations that are planted out are turning yellow. Fruits and vegetables are certainly going up in price, as is everything else, barring the florists' perishable stock. This remains the same, and only an extreme scarcity of flowers will boost the price. The past week has been a little on the quiet side, and 6c. is the top notch for Bride and Bridesmaid roses. Extra fancy Richmond reach 14c. Carnations are easing up somewhat, and are selling at 14c., 2c. and 3c. Green goods in the fern line are a little scarce, selling at \$2 to \$2.50 per 1000.

The growers in the flower market are anxiously awaiting warm weather so they can fill their orders for bedding plants. May is the month that the rents come due on stands in this market, and many are renewing for another year, while some will fall out. According to location the stands rent at \$25, \$30 and \$35 per year, so you will see the growers are not overtaxed for a nice place to sell their goods; for one good market pays their rent for a whole year. No other city in the United States has a market like this one; and it is certainly appreciated by most of our florists. E. G. G.

INDIANAPOLIS, IND. — Insufficient supplies of flowers make the florist business a difficult one at present. The weather has been ideal for the production of stock, but it seems that the grower has but little variety to offer. Counter trade is extremely heavy; shipping business also has been good of late.

The cut of carnations is generally engaged several days in advance; as a rule, the quality is below that of former years at this date. The best flowers wholesale at \$4 a hundred; medium grades bring \$2.50 to \$3.

Field violets have had a splendid sale despite their many inferiorities. Sweet neas have proven a mainstay at 50c. to \$1 per hundred.

Roses are depreciating in quality and it is not always possible to be supplied with good Bridesmaid and Bride at \$7 to \$8 a hundred. Richmond is the best rose now to be had, at \$8 to \$10 per hundred. Lily of the valley is sold at \$1 per dozen; it is shipped in at \$4 per hundred. The bedding season has begun in earnest; an unprecedented number of orders is reported booked. Tomlinson Hall market is fairly flooded these days with masses of excellent bedding plants. Much anxiety is felt for Memorial Day stock, as there will be very few field flowers; it is doubtful whether there will be any peonies fit for the market. I. B.

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KALAMAZOO, MICH.—Cold, wintry weather is still with us and even so late as May 10 quite a snow-storm prevailed, followed by severe frost. Undoubtedly the fruit crop of Southwest Michigan will be very short as a large number of fruit trees of all kinds were killed during the last Fall and Winter, and the Spring months have been hard on the living ones. Certainly it makes the "oldest inhabitant" sit down and scratch his head trying to remember just how far back in the forties it was when we had such another season.

Of course this weather and the entire absence of outdoor flowers keep the wholesale prices in good order and most satisfactory to the growers, but the retail trade waits for better weather conditions. The bedding plant trade is probably the greatest sufferer and will likely not be so active as usual this season. Hyacinth and tulip beds are now in full bloom and seem to have stood the Winter well.

Notwithstanding the cold weather the growers mostly have planted carnations out in the field, and so far as I have noticed the plants look as well as usual; early planting suits them without doubt.

Memorial Day prospects for good supplies of flowers look dubious at the present writing, yet two weeks of warm weather will, I think, bring in large stocks of carnations—at least I hope so, as outdoor stock must now be counted out. S. B.

ST. PAUL.—A decided change in the weather has made a vast difference in trade. A few days ago it was so cold that nothing could be done even in planting shrubs; now we have warm weather, in fact, almost warm enough to set out bedding plants. We can expect good business from now on until after Memorial Day.

The cut flower trade has been very quiet, very little doing outside of funeral work, which with some of the dealers has been very heavy. Stock of all reasonable flowers is plentiful, and we can expect a drop in prices, as undoubtedly the fine weather will bring out the street merchants in large numbers.

Orders for Spring plants have been very slow in arriving, although efforts have been made to secure them through Spring price lists, the inclement weather being no doubt responsible for this condition. PAUL.

FIRMS WHO ARE BUILDING.

HOLLISTON, MASS.—J. E. Long has completed an addition to his greenhouse plant on Avon street.

WOBURN, MASS.—James Philbrick, Lexington street, is building a greenhouse 200 feet long and 40 feet wide.

CHANGES IN BUSINESS.

HANCOCK, MICH.—A. M. York, florist, has decided to open a branch floral store at Laurium.

YELLOW SPRINGS, O.—Howard Brown will build a greenhouse here and start in the florist business.

STOCKTON, ME.—Mrs. W. H. Follett will engage in the florist business here, ground having been broken for the erection of an extensive greenhouse.

BETHLEHEM, PA.—Mrs. S. E. Sberer, who formerly had charge of John E. Haines's store, on East Broad street, will open a new floral establishment at 68 Broad street.

COLLEGE PARK, MD.—The trustees of the Agricultural College have authorized the erection of a new greenhouse and laboratory for the horticultural department.

STANFORD, KY.—John Chrisman will begin the erection of greenhouses on the lots recently purchased in the old Fair Ground division, and will be ready for business about June 15.

SPRINGFIELD, MASS.—Lord & Burnham of New York are erecting for H. W. Field a rosehouse 242 by 33 feet, and will build extensions of 35 feet and 25 feet upon two of Mr. Field's present greenhouses.

NEW ORLEANS, LA.—Mrs. Carrie Rehm will continue the florist business for her own account at 832 Canal street, and at St. Charles and Napoleon avenues, this city, she having obtained a judgment of separation of property from her husband, William Rehm.

BUSINESS DIFFICULTIES.

GLOUCESTER, MASS.—Albert B. Tuck, florist, has filed a voluntary petition in bankruptcy. Liabilities \$2744. Assets \$220.

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Wholesale Prices of Cut Flowers, New York, May 15, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	10.00 to 20.00	Inf'r grades, all colors.....	1.00 to 1.50
	" extra.....	5.00 to 10.00	White.....	1.00 to 2.00
	" No. 1.....	6.00 to 8.00	STANDARD Pink.....	1.00 to 2.00
	" No. 2.....	4.00 to 6.00	" Red.....	1.00 to 2.00
	" No. 3.....	1.00 to 3.00	" Yellow & Var.....	1.00 to 2.00
	Bride, Miss fancy-special.....	5.00 to 6.00	*FANCY—	2.00 to 3.00
	" extra.....	3.00 to 4.00	" (The highest)	2.00 to 3.00
	" No. 1.....	2.00 to 3.00	" grades of	2.00 to 3.00
	" No. 2.....	1.00 to 1.50	" standard var)	2.00 to 3.00
	Golden Gate.....	1.00 to 8.00	" NOVELTIES.....	3.00 to 4.00
	RICHMOND.....	2.00 to 10.00	FREESIAS, per doz. bunches.....	.75 to 1.00
	Mme. Abel Chateauy.....	1.00 to 6.00	GARDENIAS, per doz.....	.50 to 2.00
	ADLANTUM.....	.50 to 1.00	LILAC, per bunch.....	.50 to 1.00
	CROWANUM.....	1.00 to 1.50	LILIES.....	6.00 to 8.00
	ASPARAGUS.....	25.00 to 50.00	LILY OF THE VALLEY.....	1.50 to 3.00
	" Plumosus, bunches.....	15.00 to 25.00	MIGNONETTE.....	1.00 to 4.00
	" Sprenger, bunches.....	15.00 to 25.00	NARCISSUS, White.....	.50 to 2.00
	CALLAS.....	6.00 to 8.00	" Yellow.....	.50 to 2.00
	CATLEYAS.....	40.00 to 60.00	ROMAN HYACINTHS.....	.50 to 1.00
	CYPRIPEDIUMS.....	12.00 to 15.00	SWEET PEAS, per doz. bunches.....	1.00 to 2.00
	DAISIES.....	1.00 to 3.00	TULIPS.....	1.00 to 2.00

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New Orleans, La.
News Notes.
Matthew Cook, who a few months since retired from business, left during the past week for a trip to Germany, accompanied by his daughter, Miss Carrie Cook.
J. A. Newsham, Nashville avenue rose gardens and the Half Way House Nurseries, expects in a few days a large consignment of Cattleyas gigas and Mendellii from his collector in South America. Robert Newsham is now in charge of the Nashville avenue rose gardens. I regret to have to report the serious illness of Mrs. Robert Newsham.
Richard Eichling is again with U. J. Virgin at his Canal street gardens.
There is to be seen growing in many New Orleans gardens that interesting tropical plant, Alpina nutans, (shell lily) which the writer does not remember before seeing flowering as profusely as it is this year; this he attributes to the exceeding mildness of the past Winter.

A project has been launched by Major Behrman for the holding of an International Exposition in New Orleans the year of the opening of the Panama Canal, 1915. It is proposed to make horticulture one of its strongest features, which, owing to our salubrious climate, our nearness to the tropics which allows many plants to be grown in the open that cannot be so grown farther north, and the time everyone interested will have to prepare for same, ought to be an easy matter.
CRESCENT CITY.

ALVIN, TEXAS.—The jessamine growers and dealers here are looking forward to a big crop and a big business this season. The season will be about fifteen days earlier than last, and dealers are already getting out quotations.

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Cedar Bark in strips for covering tubs and window boxes, 60c. per bundle

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Philadelphia.

News Notes.
Business among the retail flower stores is generally quiet; nothing of great moment is going on. The large decorators are very busy drawing designs preparatory to the Elk's convention in July. This work will consist mostly of flags and bunting.

S. A. F. O. H. convention matters are going along nicely. The various sub-committees getting together the entertainment fund are doing good work; committee number 10—W. P. Craig, E. C. Dungan and E. J. Fancourt—were seen going around their district on Tuesday in John C. Gracey's auto. The executive committee, who will manage the convention program of our club, will be appointed this week.

Wm. J. Moore has started in this week with the S. S. Pennock-Meehan Company.

The Johnson Seed Company reports a very favorable business; orders are still coming in, many from distant points.

Moore & Simon have done a very large business. Reports received by them from the market gardeners show much damage from recent cold weather; one man lost 15,000 tomatoes, another three acres of string beans. From New Jersey they hear many potato fields had to be replanted.

Godfrey Aschmann, the well known plantsman, believes that the cold, hard winter experienced has affected the plant trade, by delaying orders, all over the country. Mr. Aschmann's experience this year also shows that the present tendency is to purchase the cheaper grades of stock.

The thermometer on Saturday night in this locality went down to 28 degrees, Sunday night to 33 degrees.

D. E. Gorman, Williamsport, Pa., was in town the end of last week. D. R.

Boston.

The Week's News.

The board of trustees of the Massachusetts Horticultural Society met at the country home of General S. M. Weld, the president, at Dedham, on Saturday and spent a very enjoyable afternoon in the Spring garden for which Mr. Weld's place is noted.

The Wahan Rose Conservatories are having an excellent cut of American Beauty roses at the present time, and indications are that they will have a large supply for the Memorial Day trade. N. Allen Lindsey went to New Bedford Monday and talked to the Horticultural Society there on the dahlia, in the growing of which Mr. Lindsey is an expert.

Don't forget the meeting of the Gardeners and Florists' Club on the 21st inst. President Westwood expects a rousing meeting, the subject he has selected being "Summer Bedding."

Wm. J. Thurston is the new manager of the Park street flower market and will enter upon his duties on Monday. J. W. D.

Wholesale Prices of Cut Flowers—Per 100

Boston May 13, 1907	Buffalo May 13, 1907	Detroit May 13, 1907	Cincinnati May 13, 1907	Baltimore May 13, 1907	NAMES AND VARIETIES	Milwaukee May 11, 1907	Phil'delphia May 14, 1907	Pittsburg May 14, 1907	St. Louis May 13, 1907
20.00 to 25.00	20.00 to 25.00	50.00 to 60.00	..... to .....	..... to	A. BEAUTY , fancy-special.....	..... to 25.00	25.00 to 30.00	20.00 to 25.00	15.00 to 20.00
10.00 to 20.00	15.00 to 20.00	40.00 to 50.00	..... to .....	..... to	" extra.....	15.00 to 18.00	15.00 to 20.00	10.50 to 15.00	10.00 to 12.50
4.00 to 10.00	8.00 to 15.00	30.00 to 40.00	..... to .....	..... to	" No. 1.....	8.00 to 12.50	10.00 to 12.00	6.00 to 8.00	6.00 to 8.00
1.00 to 4.00	3.00 to 5.00	20.00 to 30.00	..... to .....	..... to	" Gulls and ordinary.....	4.00 to 6.00	6.00 to 8.00	2.00 to 4.00	3.00 to 5.00
6.00 to 8.00	7.00 to 8.00	3.00 to 10.00	..... to .....	..... to	BRIDE, "MAID , fancy-special.....	..... to 8.00	..... to 10.00	7.00 to 8.00	5.00 to 6.00
4.00 to 6.00	6.00 to 7.00	..... to .....	..... to .....	..... to	" extra.....	..... to 6.00	..... to 8.00	..... to 6.00	4.00 to 5.00
2.00 to 4.00	4.00 to 6.00	..... to .....	..... to .....	..... to	" No. 1.....	..... to 4.00	..... to 6.00	..... to 4.00	2.00 to 3.00
1.00 to 2.00	2.00 to 4.00	..... to .....	..... to .....	..... to	" No. 2.....	..... to 2.00	..... to 4.00	..... to 2.00	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to	GOLDEN GATE.....	..... to 4.00	..... to 6.00	..... to 4.00	..... to 5.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	K. A. VICTORIA.....	..... to 4.00	..... to 6.00	..... to 4.00	..... to 5.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	LIBERTY.....	..... to .....	..... to 4.00	..... to 15.00	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to	METEOR.....	..... to .....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to	PERLE.....	..... to 4.00	..... to 6.00	..... to 4.00	..... to 6.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	ORCHIDS—Cattleyas.....	..... to .....	..... to 50.00	..... to .....	..... to 4.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" Inferior grades, all colors.....	..... to .....	..... to 1.50	..... to .....	..... to 1.50
..... to .....	..... to .....	..... to .....	..... to .....	..... to	Standard Varieties.....	..... to 3.00	..... to 1.50	..... to 2.00	..... to 1.50
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" White.....	..... to 3.00	..... to 1.50	..... to 2.00	..... to 1.50
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" Pink.....	..... to 3.00	..... to 1.50	..... to 2.00	..... to 1.50
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" Red.....	..... to 3.00	..... to 1.50	..... to 2.00	..... to 1.50
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" Yellow and var.....	..... to 3.00	..... to 1.50	..... to 2.00	..... to 1.50
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" White.....	..... to 4.00	..... to 4.00	..... to 3.00	..... to 3.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	Fancy Varieties.....	..... to 4.00	..... to 3.00	..... to 4.00	..... to 3.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" Pink.....	..... to 4.00	..... to 3.00	..... to 4.00	..... to 3.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" Red.....	..... to 4.00	..... to 3.00	..... to 4.00	..... to 3.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" Yellow and var.....	..... to 4.00	..... to 3.00	..... to 4.00	..... to 3.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	Novelties.....	..... to .....	..... to .....	..... to .....	..... to
..... to .....	..... to .....	..... to .....	..... to .....	..... to	ADIANTUM.....	..... to 1.00	..... to 1.00	..... to 1.25	..... to 1.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	ASPARAGUS Plum. and Ten.....	..... to 20.00	..... to 30.00	..... to 50.00	..... to 25.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" Sprenger's bunches.....	..... to 20.00	..... to 30.00	..... to 50.00	..... to 30.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	CALLAS.....	..... to 8.00	..... to 12.50	..... to 8.00	..... to 10.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	DAISIES.....	..... to 8.00	..... to 12.50	..... to 8.00	..... to 10.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	LILIES.....	..... to 10.00	..... to 12.50	..... to 10.00	..... to 12.50
..... to .....	..... to .....	..... to .....	..... to .....	..... to	LILY OF THE VALLEY.....	..... to 3.00	..... to 4.00	..... to 5.00	..... to 4.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	MIGNONETTE , ordinary.....	..... to 2.00	..... to 2.00	..... to 3.00	..... to 2.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	" fancy.....	..... to 3.00	..... to 4.00	..... to 4.00	..... to 5.00
..... to .....	..... to .....	..... to .....	..... to .....	..... to	SMILAX.....	..... to 20.00	..... to 20.00	..... to 25.00	..... to 15.00
..... to to to to to	VIOLETS , ordinary..... to 1.00 to 1.00 to 1.00 to .50
..... to to to to to	" fancy..... to 1.00 to 1.00 to 1.00 to .75

BOSTON, MASS.
WELCH BROS.
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CITY HALL CUT FLOWER MARKET
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Kaiserin Carnots Orchids Valley Carnations Violets
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WHOLESALE FLORISTS
1516-18 SANSON STREET
High Grade Cut Flowers
Open Evenings until 8.

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And all kinds of Seasonable Flowers.
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Supply Catalogue mailed on request. We carry the Largest Stock of Florists' Supplies in the West. Mention the Florists' Exchange when writing.

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Wholesale Florists

Valley, Carnations and Roses

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Be your own Commission Man
THE
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See PERCY JONES, Mgr.
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Wholesale
Grower of **Cut Flowers**
CHOICE AMERICAN BEAUTY ROSES
We will take care of your orders at reasonable
prices. Prompt attention.
35 Randolph Street, CHICAGO, ILL.

J.A. BUDLONG
37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.... WHOLESALE
GROWER of **CUT FLOWERS**

Wholesale Prices of Cut Flowers, Chicago, May 14th, 1907
Prices quoted are by the hundred unless otherwise noted

ROSES
American Beauty

38-inch stems.....per doz.	.....to	8.00
30-inch stems....."	.....to	2.50
24-inch stems....."	.....to	2.00
20-inch stems....."	.....to	1.50
18-inch stems....."	.....to	1.00
12-inch stems....."	.....to	.75
8-inch stems and shorts....."	.....to	.50
Bride Maid, fancy special.....	8.00 to	10.00
" extra.....	.....to	6.00
" No. 1.....	.....to	5.00
" No. 2.....	2.00 to	4.00
Golden Gate.....	2.00 to	8.00
Uncle John.....	2.00 to	8.00
Liberty.....	2.00 to	8.00
Richmond.....	2.00 to	8.00
Killarney.....	2.00 to	8.00
" extra.....	10.00 to	12.00
Paris.....	2.00 to	8.00
Chateaux.....	2.00 to	8.00
Callias.....	2.00 to	10.00
Narc. Single Yellow.....to	1.00
Tulpa, White.....	1.00 to	2.00
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ADRIANTUM.....to	.75 to	1.50
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HARDY PEAS per 1000.....to	2.00 to	2.50
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Chicago.
News Notes.
Jensen & Dekema have received
the stock of W. N. Rudd's seedlings,
168-02-A, the scarlet, and 46-04-B, a
salmon pink which has not received
quite as much prominence though fully
as worthy a production, and have now
planted the entire stock with the ex-
ception of some benches which for ex-
perimental purposes are to be grown in-
side. The plants appear to be in first
class condition and the concern was
fortunate in not starting their field
work earlier, as their neighbors have
suffered the loss of many plants which
were out during the freeze. The Win-
sor is looking well, especially some
benches of inside planted stock. Orders
have already been received for upward
of 10,000 of Rudd's seedlings.
The Illinois State Fair will be held
at Springfield from September 27 to
October 5. The schedule of premiums
is a most liberal and comprehensive one,
some \$2,300 being offered in the flor-
icultural department—the highest amount
offered by any state fair. R. O'Dwyer
is superintendent of floriculture. Some
of the principal prizes are: Collection of
stove and greenhouse plants to cover 200
square feet of space, \$60, \$40, and \$20;
fifty American Beauty, \$50, \$35, and
\$12; twenty-five American Beauty, \$20,
\$15 and \$10; fifty carnations in the
different colors specified in the schedule,
\$6 and \$4; 100 carnations, \$25 and \$10,
dinner table arrangements, \$50, \$30, and

\$20; best floral arrangement, similar
amounts; standing cross, \$25, \$15, and
\$10. The same liberality is seen in all
the prizes offered in the different classes
enumerated. Interested parties should
send to Mr. O'Dwyer for a copy of the
schedule.

The club meeting on Thursday of last
week was one of the most interesting of
the year. Louis Witthold read an en-
tertaining paper on the general treat-
ment of outside hardy and herbaceous
plants, after which the subject was taken
up for discussion by a number of those
present. The subject of a beautiful city
was also handled in an artistic oratori-
cal style by members of the committee
recently appointed to represent the club
on this matter.

It is reported that Calvert & Son of
Lake Forest, after twenty-six years of
successful business, are about to retire.
John Dekema of Jensen & Dekema,
who has been on the Pacific Coast for
his health, has improved so rapidly and
steadily that he has decided to stay
there indefinitely.

With the advent of the Spring sea-
son Foreman Collins is particularly ac-
tive at the Peter Reichberg establishment
where everything appears in fine condi-
tion.

Poehlmann Brothers state that they are
just closing up the best season since they
started in the horticultural line, and ap-
pearances bear out the statement.
A few days ago I visited Leesley
Brothers' nursery of one hundred acres
of trees and shrubs. Everything appear-
ed in good shape notwithstanding the
unfavorable weather. The movable
stock was carefully heeled in and in good
condition to set out.

Wietor Brothers are bringing in some
of the best goods they have produced this
season.

Out at Hinsdale Andrew Benson says
that he never had stock better at Bas-
sett & Washburn's at this time of year,
and he is particularly pleased with the
way the new scarlet carnation has turned
out. WILLIAM K. WOOD.

St. Louis, Mo.
News Notes.
C. Young & Sons Company have
the contract for the planting at Delmar
Garden, which is looked after in person
by William C. Young.
Fred Pape had the contract for plant-
ing the flower beds at Forest Park High-
lands, of which he made a fine job. He
is kept very busy in this line.

George Schriefer, who is with Kuehn,
has the sympathy of a large circle of
friends in the trade in the loss of his
father, who died on Sunday last after a
long spell of sickness.
The Charity Carnival at Delmar Gar-
den the past week sold large quantities
of cut roses, donated by the different
florists throughout the city. As stock
was plentiful, the wholesalers fell into
line and also donated a big lot.

The St. Louis Horticultural Society
has issued its preliminary list for the
Fall flower show to be held in Novem-
ber. The usual Shaw premiums amount-
ing to \$500 are included in the total of
prizes, amounting to \$1,536. Special
prizes will be added to these.

President Irish will map out a pro-
gram for discussion for the next club
meeting that will be interesting to all
in the trade, especially the growers.
This will be on "Fumigation," which is
of great importance.

Frank A. Weber reports that he is at
work on preparations for attending the
annual convention of the American As-
sociation of Nurserymen, which will be
held in Detroit, Mich., June 12 to 14,
and expects a large delegation from here.
The Engelmans Botanical Club had to
postpone its Spring flower show owing
to the backward weather; it is expected
to hold the exhibition some time during
the latter part of this month or the first
week in June. ST. PATRICK.

AUSTIN, TEXAS.—We certainly ap-
preciate the effort you are making to
produce a fine trade paper. Its depart-
ments are always interesting and we can
offer no criticism.

There are two large establishments
here, besides several smaller ones.
The late cold spell has passed, some
hope, and we are now ready for our
busiest season. Business is brisk most
of the time.
Our sweet pea vines outside at pres-
ent are seven feet in height. OLAF OLSSON.

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BOUQUET GREEN \$7.00 per 100 lbs. | **LAUREL FESTOONING**, good and full 5c. and 6c. per yd.
BOXWOOD 20c. per lb. | **LAUREL WREATHS** \$3 per doz
LEUCOTHOE SPRAYS \$1.00 per 100 | **BRANCH LAUREL** 50c. per Bunch

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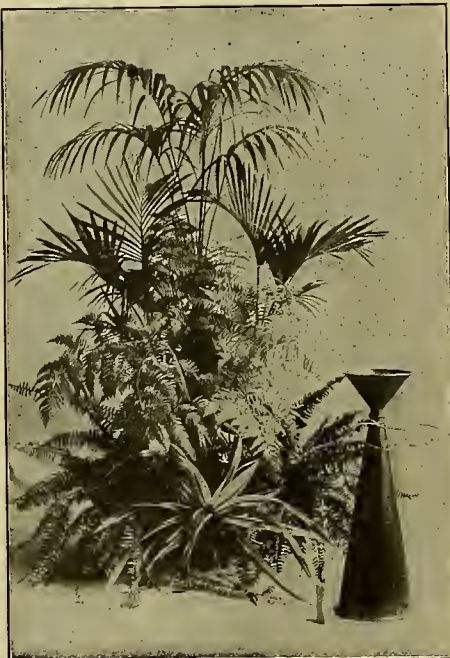
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\$2.50 per 1000. Discount on large orders. Leucothoe Sprays \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

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10,000, \$1.50; 50,000, \$6.25

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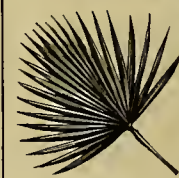
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THE AMERICAN CARNATION Price, \$3.50

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Fancy or Dagger Ferns



Dagger Ferns, \$1.50 per 1000

Fancy Ferns, \$1.75 per 1000

Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
 Boxwood, No. 1 Stock, 50 lb. cases, \$3.50
 Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality
 Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted
 Southern Smilax, fancy stock, 50 lb. cases \$5.50
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Heating.

Growers' Problems Solved by U. G. Scollay.

We tender our apologies to inquirers in this column for delay in furnishing responses, occasioned by the severe illness of Mr. Scollay. We are glad to state that that gentleman has now fully recovered his health and strength, and all questions on heating matters submitted to us will be answered at the earliest opportunity. Ed.]

Kindly tell me how many pipes it takes to heat a small greenhouse 30x11 feet. The heater is a steam boiler. Will the arrangements of the pipes as shown in the accompanying sketch be all right? A night temperature of 50 to 55 degrees in zero weather is desired. A. D.

—If you desire to use a steam heating system it will take six 1 1/2-inch pipes to acquire the temperature you wish. The arrangement as shown on your sketch will do. Personally, I would advise you to adopt a hot water system, as I know you will get better results and a steadier heat in such a small house. The boiler you have, if big enough for steam, should be plenty big enough for hot water. If you follow my advice you can put in three lines of 4-inch cast iron pipe on one side and two lines on the other. If you prefer 2-inch wrought iron pipe, put in eight lines, that is, four lines on each side. One flow and one return of 2-inch size at boiler will do very nicely for hot water. U. G. SCOLLAY.

What horse power will a tubular boiler require to heat 10,000 feet of glass to 55 degrees? The thermometer goes to 10 degrees below zero in severe weather. Houses are without glass in side walls. J. H.

—I would recommend a tubular boiler of not less than twenty-five horse power. U. G. SCOLLAY.

I have a greenhouse, 125x17 feet and 10 or 12 feet high, running southwest. I am about to add 50 feet more to the south end and am anxious to know if my heating plant (hot water) will work well as I have planned it. It is on a hillside sloping southeast; that side of the new part is about 3 feet lower than the other. The boiler room is on the east side near the center of the old house and the floor, about 7 feet below it. Now I suppose to run a 3/4-inch flow pipe into and up near the top of the house, thence through that to the new part, then down to and alongside the west side in about eight 1 1/2-inch pipes, then across the south end (with a drop of about 3 feet) and back on east side to old part, thence outside and alongside the old part and under ground back to the boiler, with a fall in that return of one or two feet. As the ground is quite sloping on that side the drainage would be good. Would I be likely to have any trouble with the flow, or with the return, two or three feet under ground outside, boxed and packed? O. P. R.

—I assume from your letter that your present house is amply taken care of, but am not quite certain whether or not you have sufficient boiler power for the new addition. If you have not the boiler capacity, a serious problem faces you, that in case you do attempt to use it with a 3/4-inch overhead main, it will undoubtedly rob your old house. Your theory of circulation is quite correct, and the job will work as far as the new addition is concerned. I would suggest that instead of running the 3/4-inch main to the near end that you run it to the extreme end of the new section dropping into two coils, one on each side of the house, bringing the return into one return main, thence back to the boiler in the manner you describe. You had better have the return main running back to the boiler the same size as the overhead main. Be sure and vent the flow main at the highest point, and on one of these two coils place a full opening 2-inch gate valve between the overhead main and the header. You will, of course, understand from this that I intend you should connect from the main to each coil with 2-inch. I would advise you to use considerable care in protecting the pipe running outside of the house back to the boiler; this is very important. For my own use I find the Wroloff patent sectional wood covering to answer all purposes. U. G. SCOLLAY.

Can you please inform me how many runs of 2-inch pipe it will take to heat a house 40x100 feet; also please state if second-hand pipe will answer and oblige. J. E. C.

—You do not give the dimensions of your house, but I presume it will be about "standard" either do you designate the temperature you wish.

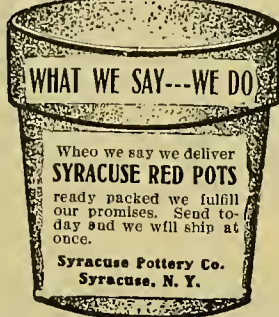
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Packed in small crates, easy to handle

Price per crate	Price per crate	
1600 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.30	
1600 2 3/4 " " " 5.25	60 8 " " " 8.00	
1000 3 " " " 6.00	HAND MADE	
800 3 1/2 " " " 5.00	48 9 in. pots in crate, \$8.60	
800 3 3/4 " " " 5.80	48 10 " " " 4.80	
500 4 " " " 4.50	24 11 " " " 8.00	
320 5 " " " 4.61	24 12 " " " 4.80	
144 6 " " " 8.10	12 14 " " " 4.80	
	6 16 " " " 4.50	

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

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Sheep Manure

Pulverized. Free from all Adulteration. In Bag, \$18.00 per Ton. **ROBERT SIMPSON Clifton N. J.**

Assuming that 55 to 60 degrees will meet your requirements, I would suggest that you place in your house 30 lines of 2-inch pipe; this, of course, is for hot water, (which you also neglect to mention). Second-hand pipe will answer if it is sound and clean. I would advise, however, that you look carefully into the history of the pipe before purchasing, to be sure as to what it has been previously used for. Poor pipe or pipe that has been used for other than steam or water purposes is not cheap at any price. U. G. SCOLLAY.

Two connected houses are to be erected for vegetable plants, each house 20x100 feet, 2 foot of glass on side. To maintain a temperature of 60 degrees at zero what method of heating would you employ, steam or hot water? I should like to retain solid beds; in such case, how would you arrange the pipes? Pa. M. G.

—Either steam or water will answer your requirements very well; however, for a range of glass of this size my

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Dear Sirs.

Please ship mine as follows

- 100 lbs Fumigating Tobacco powder \$3.00
- 100 " Black stuff fine 2.00
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- \$9.00**

Send the powder by freight, the Aphicide by express prepaid. I enclose check for \$9.00. Three or four years ago I had a bag of the Black stuff fine and it was without exception the best tobacco powder I have ever had. Since then I got some stuff from a seed house. I paid more for the article and got left on it. It was worse like sawdust than anything else. Now I am coming back to you. Yours truly C. E. Stevens.

Say, Stevens, we would sure like to know from you and others like you "why you stray away" to folks who don't know tobacco powder from sawdust. We have been telling you and others in a hundred different ways how smart we are in the way of tobacco powder; that we have been in the tobacco powder business for twenty years, and why our tobacco powder should be and is, twenty years **AHEAD OF ALL OTHERS.** Again we ask, why you let the fellows that don't know, skin you, who should know, that the **BLACK STUFF FINE TOBACCO POWDER**, for dusting, at 2c. per pound, in our bag holding 100 pounds, with our name, address and brand on each bag, sold only by us, direct to you, is the **only one. WE WOULD LIKE TO KNOW.**

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We mean a few of you growers who can't yet see anything but wooden houses! Who shut your eyes to our Iron Frame House just because you won't take the time, the trouble to go carefully into the thing and figure it out dollar for dollar. "The wooden house is good enough for you" simply because you don't know how *really faulty it is*; don't know *definitely* what repairs are costing each year. You don't know how long the Iron Frame House is good for, without a cent expended. We can give you some facts that will jolt you pretty badly, but at the end of a few years when you come to figure the thing up, you'll thank your stars that we got after you, and crowded out the old-time wooden house with our thoroughly modern Iron Frame House. Drop us a line today.



Doremus 40 ft. house.

HITCHINGS AND CO.

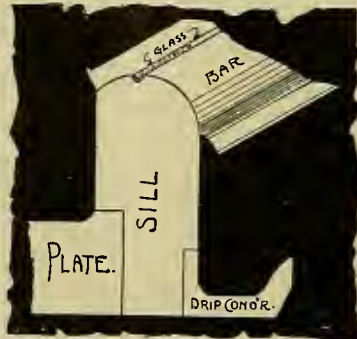
GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



personal opinion is, that the apparatus could be run with less coal in using a hot water system, and possibly less attention. If you decide to use hot water put thirteen runs of 2-inch pipe in each house. Owing to the fact that you are using solid beds you may have difficulty in arranging the pipes to suit you. If you leave a path on each side of each house under the eaves it will simplify matters, as you could then hang five pipes on one side wall, four on the other, and arrange the remaining four in coils of two pipes each, one coil each side of the center bed. I have done many jobs in this way. Of course, you will understand that with this arrangement you will not require the overhead main. I am an advocate of ample boiler power in all cases, and would suggest that you have your boiler of not less than 2,200 feet of 4-inch pipe capacity. Please note that I say 4-inch pipe. I am always careful to mention this, as "capacity in square feet of radiation" does not always hold good. The flow and return connections in your case should equal one 5-inch or two 3 1/2-inch, three 3-inch. If you use steam, place not less than ten 1 1/4-inch pipes in each house. You will require a steam boiler of the same rating in square feet of glass as the hot water boiler above described. Your steam main should start from the boiler 3 1/2-inch and return not less than 2-inch. U. G. SCOLLAY.

Will you please have your heating expert tell us whether or not the 40 h. p. return tubular boiler which we now have, and which is working perfectly satisfactorily, will be large enough to heat the houses as shown on enclosed sketch, which will represent the whole plant, after a proposed addition has been made. We would like to keep the house warm enough for rose growing, and our temperature this Winter has been as low as 20 degrees below zero several times. As you will see by the sketch, there will be two houses, even span, 175x40 feet, 19 feet high at ridge, 5 1/2 feet high at eaves, with two feet of glass under eaves, and all glass in ends of houses. Also one house 80x22 feet, 10 feet high at ridge, 3-span, no glass under eaves on north side, which is 6 feet high, but with 2 feet of glass on south side under eaves and both ends all glass. All houses run east and west, and the land slopes to the south, the boiler being located below grade on the south side of houses. F. M. F.

Mess.
—Candidly I do not think your 40 horse-power boiler would show economical results, even if you did manage to get along with it. The maximum rating of this boiler would be 4,000 square feet of steam capacity, but you understand, of course, that the use of coils entails a much harder pull on a boiler than an equal amount of cast



The above represents our **Concentric Principle** of cutting Sash Bars to fit the gutters and plates.

The Bars Always Fit and no moisture collects at the connections as it does in the beveled cut; and so

Decay Is Prevented All who have used this want it again. Experience is a good teacher.

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REMOVAL Our visiting friends are heartily welcome to call and see our handsome new factory. Transfer to S. West 40th Ave. from any West Side street car and get off at 26th St.

iron radiators, hence it is seldom safe to count on the maximum rating. To maintain a rose growing temperature in your climate and for a range of glass such as you describe you would require a 60 horse-power tubular boiler to do the work in such a way as would be considered satisfactory from a heating standpoint. Personally, I would use no smaller boiler than the above as I know it would be money well invested. Kind-

SAVE TIME AND MONEY OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING, VENTILATING APPARATUS, HOT-BED SASH

Putty--GREENHOUSE GLASS--Points

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ly bear in mind that consideration of the coal pile enters into all my calculations of these matters, also the ability to carry a steady head of steam during the severest weather in the locality in question. U. G. SCOLLAY.



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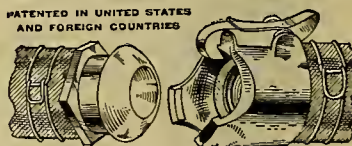
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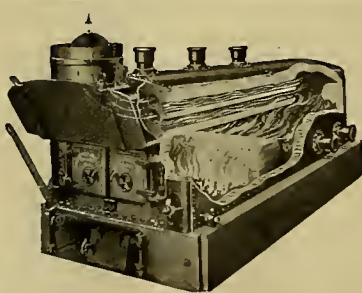
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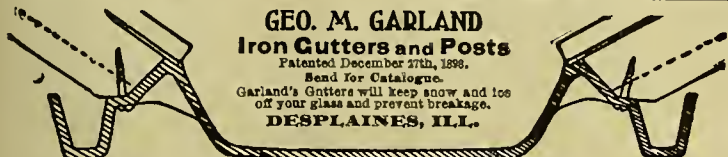
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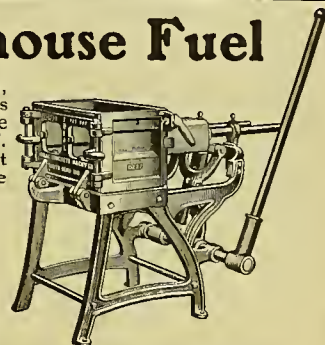
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Vol. XXIII. No. 21

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PERENNIAL FLOWER SEEDS

Calceolarias and Cinerarias, W. & D's selected strain. Sure Crop Mushroom Spawns; English and Pure Culture, Central Park Lawn Grass.

Special prices on application.
WEEBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK

Florists Bulbs

Import Orders Now Booked.

Best Grades Only.

Write For Prices.

W. C. BECKERT,
ALLEGHENY, PA.

ROCHESTER, N. Y., May 20, 1907.

THE FLORISTS' EXCHANGE,
New York City.

Gentlemen: Please stop our regular advertisement running at present, and give us just enough of your valuable space to keep our name before the trade. We are drawing to the close of the most successful season in the florists' department we have had in years, and at the present time, while we have a reasonable quantity of about everything that florists use, we have no surpluses to advertise.

With the present to encourage us, we are "laying pipe" for future business on a bigger scale than ever before.

Yours very truly,
JAMES VICK'S SONS.

PLANT CULTURE PRICE \$1.00

THE BEST BOOK FOR THE PLANT GROWER.

A. T. DE LA MARE FIG. & PUB. CO. LTD., 2-3 DUANE STREET, NEW YORK

Double Sweet Scented CHINESE PEONIES

EXCEPTIONALLY FINE ROOTS WITH 2 to 7 EYES
 Double White \$1.50 per doz.; \$8.00 per 100
 Double Pink 1.25 per doz.; 7.00 per 100
 Double Red 1.25 per doz.; 7.00 per 100
 Double Mixed 1.00 per doz.; 6.00 per 100
 Write for Peony List
JOHNSON SEED CO. 217 Market St. PHILADELPHIA, PA.

Who WANTS BARGAINS? MUST CLEAR OUT

GLOXINIAS, in separate colors, 1 1/2-2 in. \$1.75 \$15.00
GLOXINIAS, mixed, large bulbs 1.50 12.00
CALADIUM ESCULENTUM, 7-10 2.00
DAHLIAS, show and decorative, in fine named sorts, large field-grown, undivided, our choice 5.00
CACTUS DAHLIAS, named sorts, our choice 6.00

SEEDS
ASPARGUS Sprengerii, fresh15 .75
ASPARGUS Plumosa Nanna, greenhouse40 3.00
ASPARGUS Plumosa, open air25 1.75

H. H. BERGER & CO.
 70 Warren St. NEW YORK CITY

DAHLIAS and the DAHLIA MANUAL

An illustrated up-to-date work covering the whole field of Dahlias Culture. Price 35c.
 Send for catalogue of Dahlias, Gladioli and Hardy Plants. I handle only the cream of varieties. M. R. S. Winters, Mme.
 Dael, Navajo, Dainty, Kriemhilde, etc. My Dahlias have long been celebrated as prize winners.
W. W. WILMORE, Dahlia Specialist, Box 382, Denver, Colo.

FISCHER'S GRAND FREESIA PURITY

Will be ready for delivery in July.
PRICES:
 1st grade, \$2.75 per 100; \$22.00 per 1000
 2nd grade, \$2.25 per 100; \$18.00 per 1000;
 250 at 1000 rates.
 Limited quantity of **MAMMOTH BULBS**, at \$4.00 per 100.
 Cash with order from unknown parties.
Rudolph Fischer, SANTA ANITA, LOS ANGELES CO., CAL.

IF YOU NEED Summer-Flowering Bulbs

German or Japan Iris, write us for prices. We have the stock and can give you satisfaction.
JOHN LEWIS CHILDS, Floral Park, N. Y.

East Bridgewater Dahlia Gardens

Not only has the largest, but the finest collection of up-to-date **DAHLIAS**, of any firm in America. Send for free catalog, to the
Eastern Dahlia King, J. K. Alexander, E. Bridgewater, Mass

THE AMERICAN GARNATION
 Price \$3.50. Send for Sample Pages
A. T. DELA MARE PTG. & PUB. CO., Ltd. 2-8 DUANE STREET, NEW YORK

Gentlemen:
 Enclosed you will find our contract for the coming year. We are real glad to say that our advertising in The Florists' Exchange has been the best paying of any of the papers. We are always glad to speak a good word for you.

Respectfully yours,
W. W. RAWSON & CO.,
 Boston, Mass.

200,000 CALLA LILY BULBS --- ÆTHIOPICA

Calla Aethiopica, 10 inches circumference..	100	1000
" " " " " "	9	80
" " " " " "	8	70
" " " " " "	7	60
" " " " " "	6	50
" " " " " "	5	45
" " " " " "	4	35
" " " " " "	3	25
" " " " " "	2.25	15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My first car leaves for the East promptly on June 15. If cash is sent with the order I will prepay the freight, which is 15 per cent. value of the bulbs.
A. MITTING, 17-23 Kennan St., SANTA CRUZ, CAL.

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing **GROFF'S HYBRIDS, NAMED NOVELTIES** of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors. Write for it.
ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM BERLIN, N. Y.

LILIUM AURATUM GOLDEN RAYED LILY OF JAPAN

Every florist should plant or pot some of this magnificent Lily. We offer good dormant sound bulbs, clean and repacked, at the following close prices.
 8 to 9 inch = - \$4.00 per 100
 9 to 11 inch = - 7.00 per 100
LILIUM SPECIOSUM RUBRUM
 Dev 10 10 10
 8 to 9-inch bulbs. \$0.75 \$5.50 \$50 00
 9 to 11-inch bulbs. 1.25 8.50 80 00
LILIUM SPECIOSUM MEL-POMENE
 Dev 100 10 10
 8 to 9-inch bulbs. \$0.75 \$6.00 \$50 00
 9 to 11-inch bulbs. 1.25 8.50 80 00
JAPANESE FERN BALLS
 5-in., \$2.00 per doz.; \$15.00 per 100
ARTHUR T. BODDINGTON,
 342 West 14th Street, New York City.

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.
DAVID HERBERT & SON,
 Successors to L. K. PEACOCK, Inc.
 ATCO N. J.

DAHLIAS. Field grown leading kinds named for cut flowers, whole roots, \$3.50 per 100.
CANNAS. 40 leading kinds, named, \$1.50, \$2.00 and \$3.00 per 100.
PETUNIAS. Giant, single and double fringed, Salvia, phlox, Geraniums, Pelargoniums, Agaratums, Sweet Alyssums, Gem, Maurandias, etc. 2 1/2 in. \$2.00 per 100. Cash please.
SHELLROAD GREENHOUSES, Grange, BALTIMORE, MD.

JOHN SCHEEPERS & CO.,
Arnheim, Holland
 For Reliable Bulbs and Plants.

SWEET POTATO PLANTS

NOW READY
 Yellow Jersey, Red Jersey and Big Stems, \$1.25 per 1000; 35c. per 100.
H. AUSTIN, FELTON, DEL.

VEGETABLE PLANTS

LETTUCE, Grand Rapids, Big Boston. 100 1000
 Boston Market and Tennis Ball
 Ready May 1st \$0.20 \$1.00
PARSLEY, Moss curled25 1.25
BEETS, Eclipse25 1.25
CELERY, White Plume, White Solid, and Celeriac, Giant Prague20 1.25
EGG PLANTS, N. Y. Improved, small for transplanting25 2.00
EGG PLANTS, from 2 in. pots 2.00
PEPPER, Bull Nose and Sweet Mountain25 2.00
TOMATO, Earliana, Early Jewel, Lorrillard and Mayflower30 2.00
 Stone, Perfection and other late kinds20 1.00
CABBAGE, Ready May 10th. Standard and sort in any variety 1.00
R. VINCENT, JR. & SON, White Marsh, Md.

LARGE PRIVET

4 to 5 ft. @..... \$50.00 per 1000
 5 to 6 ft. @..... 60.00 per 1000
 5 to 6 ft. XX..... 90.00 per 1000
Wichurana Hybrida, 2 year 40.00
 Plenty of shrubs at low prices.
CANNAS, 4 in. pots, \$6.00 per 100.
ELIZABETH NURSERY CO., Elizabeth, N. J.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
 Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala. second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

NEW YORK.—The Hotel Astor is the meeting place and headquarters of the American Seed Trade Association, the twenty-fifth annual convention of which takes place June 25-27 next. This hotel is conducted on the European plan only, and accommodations can be secured at prices ranging from \$2.50 up to \$30 per day. The hotel is centrally located, at Times square, only a short distance from the Grand Central station and convenient to the subway and all surface lines. M. H. Duryea of Henry Nungesser & Company; seedsmen, is chairman of the local committee on entertainment, from whom fuller particulars can be obtained.

The coming convention of the American Seed Trade Association promises to be one of more than ordinary interest, both in point of usefulness and in the matter of attendance. The Chicago seedsmen are wide awake—whoever saw a Chicago man asleep? At the present writing they are doubly active in their efforts to show what Chicago can do when the object is a worthy one. During the past week they have been drumming up their forces, and have concluded to charter a Pullman car and come to New York as one united family. Leonard, Vaughan and Charles Hollenbeck have the matter in charge, which is a guarantee of success.

PHILADELPHIA.—It is proposed by the Centenary Firms and Corporations of the United States, of which Burnet Landreth, seedsman, is chairman, he having conceived the organization and held the office since 1889, to hold a reunion dinner, to take place at the Bellevue-Stratford Hotel, this city, Thursday, June 6, 1907. The cost will be \$15, and checks for that amount should be mailed by intending participants to Francis Jordan, Jr., treasurer, 127 North Water street, Philadelphia, Pa. Following the dinner a revised edition of the Memoirs of Centenary Establishments will be published.

As there is only one Association of Centenary Firms in the world, membership in it is a most distinguished possession and it is worthy of note that the two ancient seed houses of Landreth and Thorburn are enrolled among the thirty-one 100-year-old firms in the United States, the former having been established in 1784, the latter in 1802. The oldest firm in the association was established in 1687, and ten others before the Revolutionary War.

GRAND RAPIDS, MICH.—Alfred J. Brown Seed Company report an active Spring business along all lines of garden and field seeds. The bean trade is a specialty, and to go through their establishment is sufficient to show they "know beans." Their apparatus for cleaning and picking is complete. The only hand-work consists in throwing out the poor seeds from an endless belt as it passes in front of the pickers. This work requires one hundred pickers for several months in the year, as the concern grows beans largely as a food product, as well as for the trade.

MEMORIAL DAY

As Memorial Day falls on Thursday, May 30, we respectfully request our advertisers and correspondents to have their "copy" in our hands not later than Wednesday forenoon, May 29. Kindly give this matter your best attention.

ST. JOSEPH, MICH.—In the clover seed case of George Phiscator vs. Dwight C. Rice, recently referred to in this column, the jury found a verdict against the defendant, fixing the damages at \$25, which carries with it court costs for the trial to be assessed against the defendant, of an amount not to exceed the judgment, under the law, so Mr. Rice will be compelled to pay as damages and costs but \$50. The case has turned out fairly satisfactory to Rice Brothers, so they claim, in that the other side will get but \$50 out of them, whereas the plaintiff hoped to get a bonanza. The suit, however, has proved expensive to them, for the Supreme court costs and attorneys' fees will run close to \$1,000.

JACKSON, MICH.—This is fast becoming a seed center along some of the more important lines, viz., beans and cucumbers, the soil being admirably adapted both for the development of types and the production of the crops. Beans are an important and leading industry in this section, and a favored locality for the growing of stock seeds. Many of the largest dealers in our country depend upon this section for their supply, and for a two-fold reason: First, and a highly important one, is the fact that whatever seed is entrusted to the earth, there is always a reasonable promise of for seed purposes is rapidly increasing.

The sample of seed is as fine as that of the best French grown. It is uniform in size, a handsome sample, and the crop is a profitable industry at less prices than the French grown seed.

The Ishell Seed Company are pioneers in this section, and report a good season's trade and satisfactory outlook.

CHICAGO, ILL.—The seedsmen here have the same "regrets" of a backward season as are in evidence all over the country. But the past few days of encouraging warmth has set the buds in operation, and growth along every line is so rapid as to be felt if not seen. This favorable condition has set the gardeners at work with an energy that knows no bounds, and the demand for seeds is all that can be desired.

W. W. Barnard & Company's retail department swarmed with customers, who are now regretting their delay in purchasing. Trade, considering the season, has been very good, both in the jobbing and retail departments.

S. E. Leonard Seed Company voice the same sentiments as all others in the trade: "The excessive cold and disagreeable weather has materially injured business, but not regarding that, our trade has been very satisfactory."

J. C. Vaughan's immense retail department is about as busy a place as one



BARGAINS TO CLEAR

CALADIUM ESCULENTUM

5 to 7 inch, \$1.50 per 100; 7 to 9 inch, \$3.00 per 100; 9 to 11 inch, \$5.00 per 100.

CANNA ROOTS, Per 100 **GLADIOLUS**, Per 100 Per 1000
 Pennsylvania, \$2.00 Childs' Hybrid, \$2.50 \$18.00
 Chas. Henderson, 2.00 Brenchleyensis, 1.60 12.00

CYCAS REVOLUTA STEMS

Just received large importation—long-leaved variety. Pot now for early winter sales. Assorted cases, 1 to 5 lbs., and 5 to 10 lbs. 10 lbs. \$1.00, 100 lbs. \$8.00; 300 lbs. to case, \$22.50.

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

MINNEAPOLIS, MINN.—Northrup, King & Company do not frown upon the slow approach of warm weather; they need not, having had a prosperous season in spite of the backward weather. They realize the fact that the demand for field and garden seeds is increasing faster than the establishments that distribute them.

were only a little more tempting, the English and Irish growers might be tempted to take tulips in hand and see what benefit would be derived from a change of soil and climate. There are several thousands of acres of land in the New Holland district of England which would suit the culture well, and the climate differs very little from that of Holland. The culture of narcissi is already carried on to a very large extent most profitably, and if the spirit of "haste for big returns" can be kept in the background, the industry should become a permanent boom to the district.

The disastrous results which have followed an injudicious use of an improper muck cart at Ollionles, Toulon, and some parts of Holland should act as a salutary warning.

While one feels in a moralizing mood, it may be permissible to remark regarding that golden "creation," the Eldorado potato, that the man through whose instrumentality it was hoomed up to \$350,000 per ton four years ago is not planting so much as one tuber this year. *Sic transit gloria mundi.*—EUROPEAN SEEDS.

HOLLAND BULB CROPS.—Advices from Holland announce that as so far there has been little disease in bulbs generally, the shorter acreage planted out may not cause any serious shortage, provided the demand is not in excess of last year's.

CATALOGUES RECEIVED.

JULIUS ROEHR'S COMPANY, Rutherford, N. J.—Catalogue of Orchids, Stove and Greenhouse Plants, and Select Nursery Stock. This is a well printed and handsomely illustrated catalogue, the enumerations in every department being very complete and comprehensive. Particularly is this so in the case of the Orchids, some 18 pages being devoted to a descriptive list of these. This is followed by interesting lists of Stove and Greenhouse Plants, Palms, Cycads, Ferns, Evergreens and Conifers, Flowering Shrubs, Bay Trees, etc. All the newest and best sorts are included in each class of plants offered. The covers also are very attractive, the front one being a reproduction, in color of a flowering spray of the charming *Dendrobium Phalaenopsis Schrodlerianum*, the back cover showing views in the firm's nurseries, reproduced from photographs. Both the distributor and printer are to be complimented on this excellent production in the way of a catalogue.

SIEBRECHT & SON, New Rochelle, N. Y.—Catalogue of New, Rare and Beautiful Plants. This catalogue, which is excellently printed and profusely illustrated, is exceedingly comprehensive in its offerings of Palms, Orchids, Tropical Greenhouse Plants, Stove and Greenhouse Bulbs and Tubers, Stove and Greenhouse Climbers and Creepers, Succulent Plants, Ferns and Selaginellas, as well as in lists of Azaleas, Rhododendrons, Roses and General Florists' Stock. All the best novelties and plants of recent introduction are included. An interesting part of the catalogue is formed by the illustrations of the firm's city stores, showing the concern's gradual development in the past 40 years, to its present mammoth proportions.

MEMORIAL DAY

As Memorial Day falls on Thursday, May 30, we respectfully request our advertisers and correspondents to have their "copy" in our hands not later than Wednesday forenoon, May 29. Kindly give this matter your best attention.



Departs
get an order
anyway

Decides
to accept
offer

Customer says
cannot give
prices asked

Mentions
goods,
prices, etc.

Talks about
the weather
and crops

Calls on the
customer
all expectancy

Expressions of a Traveler calling for Orders

Read from right to left.

Our readers in the Seed Trade will recognize the photograph as being that of J. J. Comont, the well-known Representative of Messrs. Carter, Dunnet and Beale, London, Eng.

more than an average crop, as failure is more rare there than in any other section of our country. The next important consideration is that types particularly of beans, are more constant than in most other sections. For that reason the leading growers of bean and cucumber seeds look to this locality for their stock seed. The radish here finds a congenial home, and the production

can find outside of a beehive in June. Neither frost nor rain has dampened the ardor of the multitude seeking seeds. Here there need be no question asked as to trade conditions; the crowds of purchasers anticipate the query, as it is difficult to make way to the counters for a supply of seeds, bulbs and plants. The latter department is richly stocked with every variety of ornamental and flowering plant, shrub or vine, suitable for present planting.

Peter Hollenbeck, whose name is a household word in the trade, moves on in the even tenor of his way, having a desirable retail business. He says trade is generally good (his countenance shows it). Also that the onion set business has been exceptionally active, and prices much above the average.

IMPORTS OF SEEDS, ETC.—May 11 and 12.—R. J. Godwin's Sons, 20 packages seed; M. L. Van Dirk, 54 boxes plants; F. B. Vandegrift & Company, two cases live plants; the Wells, Fargo Company, five packages plants; Spingarn Brothers, four cases plants, etc. May 14.—H. Frank Darrow, 31 cases plants, 72 tubs laurel trees; McHutchison & Company, two tubs laurel trees, 60 cases plants; Maltus & Ware, one case plants; Smith & Bolzenthal, 72 tubs laurel trees, 15 cases plants; Jan. Ter Kuile, one case plants; Vaughan's Seed Store, 24 cases plants; Wakem & McLaughlin, six cases plants, 20 tubs laurel trees; Brown Brothers & Company, 98 sacks clover seed; J. B. Gorman, 100 sacks seed; Wakem & McLaughlin, 100 sacks seed; J. L. Hopkins & Company, five packages plants; M. Milletot, two packages plants; Botanical Garden, one case dry plants. May 15.—Maltus & Ware, seven packages plants; Agent Union Pacific R. R., six bushels flower seeds. May 16.—A. Held, three cases orchids. May 17.—A. Held, two boxes plants; Maltus & Ware, 28 cases plants.

ST. PAUL, MINN.—If there is one man happy over the conditions of the weather of the past month, it is L. L. May, who is largely in the nursery business, and such men delight in backward seasons, as it enables them to continue their shipments for a month without danger of injury from a too early start of the buds, prolonging the season vastly. L. L. May & Company have profited largely from the backward season, and their seed trade has also been very satisfactory.

THE BEAN CROP OUTLOOK.—The untimely frosts in the South, which destroyed all the early plantings, drew considerably on the surplus stocks, and the fact of a reduced acreage being planted in some sections, makes the dealers firm in their prices. In fact, some of the larger and more reliable growers now refuse to contract for 1907 crops, at the present prices for 1906 crop. For strictly reliable stocks, prices are more likely to advance than to decline.

European Notes.

The opinion of many meteorologists that the remarkable changes of temperature which we are experiencing are due to earthquakes which abound in divers places, appears to be founded on fact, for simultaneously with the outbreaks of the volcanoes Etna and Stromboli comes a heat wave that is simply killing. As it is accompanied with frequent heavy rains our cities are a fair reproduction of your City of Brotherly Love on a muggy day. Of course, vegetation simply leaps into life and is rapidly making up for lost time. In the south of England sweet peas sown in October and wintered in the open field are in full bloom, while hyacinths and tulips are still at their best in gardens near by.

The prevalence of disease among the latter is assuming serious proportions, and a warm time awaits the ubiquitous Dutchmen when they come round for their accustomed orders. If the prices

NEW CROP FLOWER SEEDS

PANSY

Mitchell's Giant Exhibition

strain is the finest procurable. Produces Gigantic blooms beautifully marked, with plenty of light colors. Trade pkt. 50c.; 75c. per ½ oz.; oz. \$5.00.

Also all other varieties of Pansies.

PRIMULA (Chinese)

Mitchell's Choicest Mixture

containing an assortment of bright colors; flowers very large. ½ trade pkt. 60c.; \$1.00 per trade pkt.; ½ oz. \$2.00

Also all other varieties of Primula.

CINERARIA

Mitchell's Prize Mixture

Dwarf, ½ trade pkt. 60c.; trade pkt. \$1.00
 Medium Tall, ½ trade pkt. 60c.; trade pkt. \$1.00

Also all other varieties of Cineraria.

Send for Our Wholesale Price List.

HENRY F. MITCHELL CO.

1018 Market St., PHILADELPHIA

DREER'S POT-GROWN HARDY PERENNIALS

The following varieties are all growing in pots and can therefore be planted now with perfect success, which is not the case with the ordinary field-grown stock at this late date.

	Per doz.	Per 100
Acanthus Mollis and Latifolius, 4-in. pots.	\$1.25	\$10.00
Achillea Eupatorium, Filipendula, 4-in. pots.	.85	6.00
Millefolium Roseum, 3-in. pots.	.85	6.00
Aconitum Fischeri, 3-in. pots.	2.00	15.00
In variety, 3-in. pots.	1.50	10.00
Agrostema Coronaria, 4-in. pots.	.85	6.00
Ajuga Reptans Eubra and Gensvensis, 3-in. pots.	.85	6.00
Anemone, Quesna Charlotte and Whirlwind, 3-in. pots.	.85	6.00
Pennsylvanica and Sylvestris, 3-in. pots.	.85	6.00
Aquilegia Canadensis, Cœrulea and Vulgaris, 3-in. pots.	.85	6.00
Arabis Alpina, 3-in. pots.	.75	5.00
fers plena, 3-in. pots.	.85	6.00
Armeria Maritima Splendens and Alba, 3-in. pots.	.85	6.00
Artemisia Fuschiana and Stellarisana, 3-in. pots.	.85	6.00
Asphodelus Luteus, 3-in. pots.	1.25	8.00
Hardy Asters (Michaelmas Daisies), in variety, 3-in. pots.	1.00	7.00
Aster Grandiflorus, the finest of all, 3-in. pots.	2.00	15.00
Astilbe Davidi (new), 4-in. pots.	2.50	20.00
Boltonia Asteroides, 4-in. pots.	.85	6.00
Latisquama, 4-in. pots.	.85	6.00
Calimeris Incisa, 4-in. pots.	.85	6.00
Caryopteris Mastacanthus, 3-in. pots.	.85	6.00
Caspanula Allisraefolia, 3-in. pots.	1.00	7.00
Grandis and Grandis Alba, 4-in. pots.	1.25	8.00
Latifolia Macrantha, 3-in. pots.	1.00	7.00
Lactiflora, 4-in. pots.	1.00	7.00
Medium Single and Double, 4-in. pots.	.85	6.00
Calycanthema, 4-in. pots.	.85	6.00
Persicifolia Gigantea, 3-in. pots.	1.50	10.00
Pyramidalis, 3-in. pots.	.85	6.00
Rapunculoides, 4-in. pots.	.85	6.00
Rotundifolia, 3-in. pots.	1.00	7.00
Trachelium, 4-in. pots.	1.00	7.00
Centaurea Glastifolia, Macrophels and Orientalis, 4-in. pots.	1.00	7.00
Cephalaris Alpina, 4-in. pots.	1.25	8.00
Chelone Glabra Alba, Lyonii and Oblia Alba, 4-in. pots.	1.25	8.00
Chrysanthemum Shasta Daisy, 3-in. pots.	.75	6.00
Hardy Pompon, 2 1/4-in. pots.	.60	4.00
Chrysogonum Virginianum, 3-in. pots.	1.25	8.00
Clematis Davidiana, 3-in. pots.	.85	6.00
Recta, 3-in. pots.	1.50	12.00
Integrifolia, 3-in. pots.	1.25	8.00
Coreopsis Lanceolata Grandiflora, 4-in. pots.	.75	5.00
Delphinium Belladonna, 3-in. pots.	2.00	15.00
Chinensis and Alba, 3-in. pots.	.75	5.00
Disanthus Barbatus (Sweet William), 4-in. pots.	.75	6.00
Delroides Alba and Rosea, 3-in. pots.	.85	6.00
Latifolius Atrococcineus Fl. Pl., 3-in. pots.	1.00	7.00
Napoleon III., 2 1/4-in. pots.	1.50	10.00
Dictamnus Praxinella Eubra and Alba, 3-in. pots.	1.25	8.00
Dielytia Formosa, 4-in. pots.	1.00	7.00
Digitalis Gloxiniaeflora, 4-in. pots.	.85	6.00
Lanata, 3-in. pots.	.85	6.00
Doronicum Caucasianum and Excelsum, 3-in. pots.	1.25	8.00
Echinops Eitro and Ruthenicus, 4-in. pots.	1.50	10.00

	Per doz.	Per 100
Epilobium Angustifolium and Hirsutum, 4-in. pots.	\$.85	\$6.00
In variety, 3-in. pots.	1.00	7.00
Eryngium Amethystinum and Planum, 4-in. pots.	1.50	10.00
Erigeron in variety, 3-in. pots.	1.00	7.00
Eupatorium Ageratoides, 4-in. pots.	.85	6.00
Euphorbia Corollata, 3-in. pots.	.75	5.00
Funkia Cœrulea, 4-in. pots.	.75	5.00
Subcordata Grandiflora, 4-in. pots.	1.25	8.00
Undulata Media Picta, 3-in. pots.	.85	6.00
Gaillardia Grandiflora, 4-in. pots.	.85	6.00
Gersanium Sanguineum and Album, 4-in. pots.	.85	6.00
Geum in variety, 3-in. pots.	1.00	7.00

	Per doz.	Per 100
Hypericum Mossianum, 4-in. pots.	\$1.25	\$8.00
Iberis Sempervirens, 3-in. pots.	.85	6.00
Correafolla, 3-in. pots.	1.25	10.00
Iris Sibirica and Alba, 4-in. pots.	1.00	7.00
Orientalis Snow Queen, 4-in. pots.	2.00	15.00
Fumelia Cyanea and Eburnea, 4-in. pots.	1.50	10.00
Liatris in variety, 3-in. pots.	.85	6.00
Lobelia Cardinalis and Syphilitica, 3-in. pots.	.85	6.00
Lychnis Chalcedonica Alba, Carnea and Eubra, 3-in. pots.	.85	6.00
Rubra fl. pl., 3-in. pots.	.85	6.00
Dioica and Haazeana, 3-in. pots.	2.00	15.00
Viscaria Splendens, 4-in. pots.	.75	6.00
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THE PERIODICAL CICADA IN 1907.—The Bureau of Entomology of a United States Department of Agriculture is distributing a circular of inquiry concerning the brood of the periodical cicada or "locust," which will occur in May and June of this year throughout the Southern States east of Texas, except Florida, northward in the Mississippi and Ohio valleys through Missouri to southeastern Iowa, and over most of central and southern Illinois and extreme northwestern Indiana. This brood covers also western Kentucky and more or less of Tennessee, with extension northeastward across the Carolinas into Virginia. A doubtful record is known from the Rio Grande in the region of El Paso, Texas, but no other records have been obtained for this State, and the El Paso record is therefore open to some question. The Bureau of Entomology wishes to obtain a complete record of the distribution of this important brood this year, and therefore a reply card is sent with the circular, on which the information relating to its occurrence in each district may be indicated.

The cicadas or "locusts" will appear between the middle and end of May—later in the northern range of the brood and perhaps a little earlier in the southern range. Records of scattering occurrence after the middle of June may apply to other species of cicadas which occur every year, and in any doubtful case it will be just as well to send specimens for determination. The brood of this year is the largest of the thirteen-year broods of this curious insect.

The periodical cicada is so well known that a general account of it is unnecessary. When it appears in great numbers, it naturally causes considerable alarm and arouses fears for the safety of shade trees and orchards. The actual damage, however, is usually slight, except in the case of newly planted orchards, and even here, by vigorous pruning back after the cicada has disappeared, much of the injury caused by the egg punctures can be obviated.

Ordinary repellent substances, such as kerosene emulsion or carbolic acid solutions, seem to have very little effect in preventing the oviposition of these insects. Some recent experience, however, indicates that trees thoroughly sprayed with Bordeaux mixture or a lime wash are apt to be avoided by the cicada, especially if there are other trees or woods in the neighborhood on which they can oviposit. The most reliable means of protecting nurseries and young orchards is by collecting the insects in bags or umbrellas from the trees in early morning or late evening, when they are somewhat torpid. Such collections should be undertaken at the first appearance of the cicada and repeated each day.

It is hoped that everyone who receives this circular will keep a sharp lookout for swarms of this brood of cicada and assist the Bureau in fixing its range accurately by sending explicit information.

Seasonable Notes.

When evergreens lose their leaders they become of very broad outline for a while, with but little addition to their height. A strong side shoot should be tied to a stake as a leader. It will form one in time; but the perfection of appearance of an evergreen depends on the retention of its original leader.

Some notes on yuccas in an old horticultural magazine, written from Mission Valley, Texas, say that *Yucca gloriosa* flowers there in March. This statement seems a mistake. Here it flowers in October. In England it blooms in July. There is a suspicion the plants are not one and the same thing.

Lawns are best freed of plantains, dandelions and other weeds, by cutting them out with a suitable knife. Taken after a heavy rain, it is not a hard task; in many cases the plants can be pulled out almost, and a good stretch of lawn can be gone over in a day.

At Cornwall, in the south of England, many eucalyptuses are quite hardy, the only place in that country of which this can be said. *E. coccifera* is considered the hardiest, but *cordata*, *urnigera*, *saligna*, *resinifera* and *viminialis* all live out. A specimen of *coccifera* there is 70 feet high. Cornwall is the southernmost part of England.

The American mist tree, *Rhus cotinoides* is a better species than the common one of Europe, *R. cotinus*. The leaves are larger, handsomer and of a pleasing green color, while the growth of the shrub is not so straggling as that of the other. It is still rather uncommon in collections.

Those who see the various forsythias in flower in Spring usually favor the Fortunei, because of its drooping habit. But with good pruning every Spring after it has done blooming, the viridissima can be made into a handsome, bushy specimen.

Clumps of daffodils are better divided occasionally, that the bulbs may become strong. When many are to-

The luxuriance of the foliage and flowers of roses is much advanced by giving the plants liquid manure water when they are growing in Spring. The same objects are obtained by a good mulching of manure in early Winter.

Regarding everblooming roses, almost the opposite system of pruning is required. It is the strong shoots that spring from the base that give the best flowers, so this class of roses require a cutting back to a degree not necessary with those that flower but once.

Planting the Tulip Poplar.

Those interested in forestry matters are giving much attention to the merits of the tulip tree, or tulip poplar, *Liriodendron tulipifera*, its wood being valuable in many ways. The difficulty some meet with in transplanting it need not be if a good pruning be given at the time. Indeed, young plants do not demand this; only those of, say, six feet and over, and in all cases the pruning depends on whether or not the trees are from transplanted blocks. But prune, anyway; nothing is lost by it, and it makes planting safe. But be sure to remember that a tulip tree planted in the North in Autumn will die. Spring is the season to move them, and Spring only.

This tree grows readily from seeds. In the forests where the seeds fall in Autumn numbers of seedlings are to be found in a season or two, showing the seeds germinate well when kept moist from the time of falling. When collecting or purchasing seed of the tulip tree do not expect all the seeds to be sound. They never are. If the half of them are viable it is a good sample; and the same holds true with sugar maple and some other seeds.

JOSEPH MECHAN.

Prunus Pseudo-Cerasus.

The two accompanying pictures are of a form of *Prunus pseudo-cerasus*, the Japanese flowering cherry, a lovely Spring-blooming shrub. One picture depicts the plant itself in full flower; the other, a branch in blossom, showing more in detail what the individual flower is like.

These Japanese flowering cherries are the admiration of the shrubbery during the early part of May, when they are in full bloom; it is astonishing the wealth of blossoms they carry. The flowers expand with the first leaves, in some cases in advance of them; they are large, pink or blush (rosy-pink in the form illustrated), often clustered, and borne on rather long pedicels. Just how really beautiful these cherries are when in flower is somewhat difficult to describe. The best way to find out is to obtain a plant; for although a picture is good in certain respects, and serves a purpose, there is nothing like viewing the natural subject itself.

Glen Cove, L. I.

JOHN F. JOHNSTON.

BOARD OF PARK COMMISSIONERS, Minneapolis Minn.—Twenty-fourth annual report. Through the courtesy of Superintendent Theodore Wirth we have been favored with a copy of this interesting document, which is profusely illustrated. We are pleased to observe the deservedly high encomiums passed on the superintendent's report by President Fred. L. Smith. Jesse E. Northrup, seedsman, is vice-president of the board.



Flowering Branch of a form of *Prunus Pseudo-Cerasus*
 Photo by J. F. Johnston.

gether they all become weak, preventing their flowering. Double flowering ones are more lasting than the singles.

Winter mulch placed around rhododendrons and similar plants, should be taken away in Spring, unless there is room to allow of an increase in the height of the soil, as it brings the roots near the surface, which is not desirable.

Pruning Hybrid Perpetual Roses.

There are two methods of pruning hybrid perpetual roses, both right according to what is desired. Those who wish a large number of flowers do not prune the bushes a great deal, while those who prefer large flowers even if but a few, cut back the shoots leaving but about a fourth of the growth. The shoots of the previous season are those that give the flowers. One-fourth cut away is ample when the shoots are strong. There will then be a nice display of fair-sized flowers.



Form of *Prunus Pseudo-Cerasus*. Blooms Early Part of May; Color, Rosy Pink

Photo by John F. Johnston.

AMONG THE GROWERS

Julius Roehrs Company, Rutherford, N. J.

Elsewhere in this issue will be found a full page illustration, in color, of the flower of that beautiful orchid, *Dendrobium Phalaenopsis Schrederianum*, as grown by the firm of Julius Roehrs Company at Rutherford, N. J. When a firm of orchid importers and plant growers takes this elaborate method of advertising its specialties, it is a sure indication of the great importance to the trade that the orchid industry is assuming, and also well illustrates the business acumen of the concern, which is sparing no effort or expense to be at the head of the procession in the importing, growing and distributing of orchids and other rare plants.

It is now some twenty years since Julius Roehrs, Sr., located at what is known as Carlton Hill, Rutherford, N. J. As his two sons grew up to manhood, and after they had received a thorough training, not only at home under their father, but in England and France at some of the largest establishments, Mr. Roehrs had the business incorporated in 1904, under the title of Julius Roehrs Company, which consists of the elder Mr. Roehrs, Julius Roehrs, Jr., and Edward Roehrs, all of whom are practical plantmen, familiar with every cultural detail, and with business capacity that has been obtained by close study and application, which gives the firm as a whole unusual advantage in the running and maintaining of a strictly up-to-date horticultural establishment. The property of the Julius Roehrs Company embraces fifty acres, about forty of which are devoted to the nursery business, where a magnificent stock of decorative trees, shrubs and plants is being developed.

One of the main specialties of the Roehrs Company is, and always has been, the cultivation and collecting of orchids. The firm has its own collectors out at all times, and is constantly in receipt of new shipments. During the year 1906 a range of glass was built especially for the cultivation of orchids, and nowhere else perhaps can be found so complete a range of glass for orchid culture as is here. The new range consists of six houses, each 150 feet long by 18 feet wide, built of all iron construction, iron and tile benches and equipped with a sprinkling apparatus in order that the paths and every part of the surface underneath the benches can be moistened by the simple turning of a faucet. The orchids grown are chiefly for cut flower purposes, and comprise one house of *Cattleya Mossia*, one house of *C. Gaskelliana*, two houses of *C. Trianae*, one house of *C. gigas* and a house of mixed varieties. We may say here that each of these houses holds 6,000 plants.



Julius Roehrs, Sr.

In addition to this range of glass, there is the old orchid range, comprising fourteen or fifteen houses, which are filled with all that is best in commercial orchids. Here is seen perhaps the finest house of *phalaenopsis* in the country. It is a well-known fact that this Philippine orchid is one of the most difficult to establish, but by the methods employed here of conserving moisture, the culture of *phalaenopsis* has been very successful. We remember seeing this house several years ago when a large importation had newly arrived from the Philippines, and the present condition of the plants fully justifies us in saying that their cultivation has been most successful, and, no doubt, exceedingly profitable, as they have become well established, and flower freely in their season. New importations of *Cattleya Mendelii*, recently arrived from Colombia, and *C. labiata* from Brazil, from

the firm's own collectors, are spread out on the surface of the benches in one house, and show signs of rapidly recuperating from their long journey.

A very interesting feature in one house is a number of seedling *cattleyas* from crosses obtained on the premises, and many good things are expected to come therefrom. Unlike the carnation hybridizer, however, who can see the results of his crossing in a single season, the raiser of *cattleya* seedlings has to wait six or seven years before the plants show flower. Here are also seen immense numbers of *Dendrobium Phalaenopsis*, *ocidiums* in variety; and particularly worth mentioning is a large collection of *Oncidium splendendum*. *Cyripediums* in variety are grown extensively, as also are *lalias*, particularly *L. purpurata*, as well as *Cattleya Schrederiana* and hybrids, among the latter being many very beautiful and valuable forms.

Speaking of the more valuable and rare orchids, there is one here, a pure white *Cattleya Mossia*, and another of the same variety of a light blush tint, which does not show any purple and yellow in the coloring. Both of these, we understand, are of extremely high monetary value.

In a tank underneath the bench of one of the new orchid houses, a school of alligators is being reared.

In addition to orchids many flowering plants are grown on the establishment, among which are gardenias, *Marguerites*, *Begonia Gloire de Lorraine*, camellias, of which a large number are raised, spiræas and roses for pots. Among the Rambler roses the variety *Lady Gay* is considered one of the best in the pinks, its points of excellence over the variety *Dorothy Perkins* being its larger flowers, its deeper color and being, if anything, a little easier to bring into flower. There is a new variety of a very pleasing light pink shade that gives promise of becoming a favorite, the name of which is *Tausend-schön*. The *Crimson Rambler* is still an old standby, and is grown in quantity.

The collection of stove, or warm greenhouse, plants here is a most interesting one, and one in which this firm does a very large and steadily increasing business. Commercially, this class of plants is not known nearly so well as it ought to be, as there are many subjects among them that can be used to great advantage in retail work, and which have a distinctiveness and luxurious effect in a retailer's store window that is not to be secured with any other class of plants. Here are *anthuriums* in many varieties, some of them with their large, noble-looking leaves being almost as decorative when not in flower as they are when in full bloom. A most magnificent subject is *Medinilla magnifica*; this large and ponderous-leaved plant is always decorative; also *Scutellaria mocciniana*, with its scarlet heads of tubular flowers; *Ficus pandurata*, another large-leaved plant, is beginning to find its way into the commercial ranks; *Rhapis flabelliformis*, always decorative, whether in large or small specimens; *crotons* in many varieties, most beautiful in their coloring many of them, and a plant that every florist should handle more of, *Pandanus Veitchii*, also *P. utilis*, the latter likely to become more of a favorite again than it has been for two or three years past. There are also *aspidistras*, plants that will do well either in a warm house or a cool one, and will stand more wear and tear in a store than any other plant known, probably; *dracenas* in all the best commercial varieties, both the wide-leaved and others. Fancy-leaved *caladiums* are also a feature, and among the plants suitable for a stove temperature, we noticed a collection of *ixoras*. While this beautiful flowering plant is not adapted perhaps for commercial purposes, no private collection is complete without it.

Of palms and other decorative plants there is a superb collection, including large specimens of *phenix*, *kentias*, *caryotas*, and *pritchardias*. In ferns, *Cibotium Schiedei* is grown very extensively, and is seen in various sizes. The old Boston fern is still a favorite and is raised in quantity, and of the newer *Nephrolepis Whitmani* is being grown in quite large numbers. For Summer flowering many large plants of *Hydrangea otaksa* are grown in tubs, and are now just beginning to show their buds. *Adiantum Farleyense* is made a specialty of, and is grown in very heavy quantities. Another specialty here is lily of the valley which is forced for cut flowers, and together with the cut flowers of the orchids, is sold through the firm's agent, W. S. Allen, 53 West Twenty-eighth street, New York. We believe we can safely say that Mr. Allen receives a supply of lily of the valley and orchids every day throughout the year from this firm.

The Julius Roehrs Company is also one of the largest, if not the largest, importers of bay trees and trained boxwoods in the United States, and the collection on hand at any time of the year is well worth a visit to the establishment; they are in all sizes and shapes, and in innumerable quantities. As an indication of the extent of the concern's orchid business, we may mention that a Chicago firm that lately entered into the growing of these specialties, received two carloads from the Roehrs Company within the last few days. Edward Roehrs, the junior member of the firm, left on Friday evening last for Chicago to see to the safe delivery of the last carload, and incidentally to sell another carload or two if possible.

House of *Dendrobium Phalaenopsis Schrederianum*

Courtesy Julius Roehrs Company.



JULIUS ROEHRS COMPANY
EXOTIC NURSERIES
RUTHERFORD, N. J.

DENDROBIUM PHALAEOPSIS SCHROEDERIANUM

Cover design of the Julius Roehrs Company 1907 catalogue, made and printed by the A. T. De La Mare Ptg. and Pub. Co., Ltd., Horticultural Printers, Nos. 2 to 8 Duane Street, New York.

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Week's Work, The 707

Boston. Mass. Horticultural Society.

Though not a regular exhibition day at Horticultural Hall, Saturday, May 18, there was brought in a noteworthy display of Spring flowering plants. Chief among the exhibits was a magnificent collection of eighty-one named varieties of tulips, single and double, from R. & J. Farquhar & Company. Hardly less interesting were the displays of bulbous plants, pelargoniums, carnations, and orchids from William Whitman of Brookline (Martin Sullivan, gardener), and of eighty varieties of hardy flowering plants from the Harvard Botanic Garden by Robert Cameron, superintendent. Julius Heurlin of the Blue Hill Nurseries also brought in a large collection of fifty species and varieties of herbaceous plants, and Mrs. E. M. Gill of Medford exhibited a choice assortment of caruations, sweet peas, stocks, and tulips. The exhibition was of so much interest that the committee decided to keep it open the following Sunday. The next exhibition will be the annual Rhododendron show on Saturday, June 8. Much interest is already manifest in the circular announcing the additional special prizes offered for the chrysanthemum show in November. Copies of this list can be obtained on application to the Secretary at Horticultural Hall.

News Notes.

The Arnold Arboretum and park system are very interesting resorts these days on account of the magnificent displays of flowering trees and shrubs. The prunuses are just about past, and the many varieties of flowering crabs are now in their full glory. The most striking variety at the time of writing is Malus Niedzwetzkyana, which is one of the richest colored of all and equally if not more attractive than the variety Halleana, better known as Parkman's variety. Another pretty shrub at present which is too seldom seen is Potheringilla major. The lilacs are just beginning to show color and will be an attraction in a week or ten days. The public garden this year shows a marked change from the Spring displays of former years, and Superintendent Sullivan is to be congratulated on the many improvements he has made, especially in the color effects of the beds of tulips and other bulbous plants. The many friends of P. J. Donoghue sympathize with him in the death of his father which occurred at his home in Natick on Monday. Henry M. Robinson & Company have secured the second floor of the building they occupy at 15 Province street, thus giving them extended room for the handling of florists' supplies. Welch Brothers are prepared to do an extensive Memorial Day trade, their ample floor room and facilities making shipping easy of accomplishment. Philip Breitmeyer, Detroit, was a visitor to the Hub the past week.

Club Meeting.

The Gardeners and Florists' Club meeting on Tuesday was well attended and was a very interesting gathering indeed. Instead of a regular lecture there were short talks by several of the members on interesting topics. W. N. Craig spoke on Spring flowering bulbs and described the methods of planting and the many different varieties of narcissus, tulips, and hyacinths. Frederic J. Rea gave a brief talk on the planting of a herbaceous border, and Thos. H. Westwood described his methods of Summer bedding. Duncan Finlayson, James H. Morton, John W. Duncan and others took part in the discussion that ensued. In answer to an inquiry in the question box as to the best method of keeping over Richmond roses for two years, W. H. Elliott said that those he kept over last year were now doing finely, but did not give first-class blooms until toward Spring. He had expected they would be his best for Christmas, but the young plants were ahead of them at that time, although later they made up for lost time. On the exhibition tables were a fine vase of carnation Alma Ward from Peter Fisher, Trollius japonicus excelsior from Julius Heurlin, which received a report of merit; Gladiolus nanus Peach Blossom from R. & J. Farquhar & Company, which received honorable mention, and new rose White Killarney from the Waban Rose Conservatories which also received honorable mention.

J. W. D.

CANADIAN NEWS

LONDON, ONT.—With the bright, warm days, business is on the rush. There is a large demand for bedding plants; peonies, phlox, hydrangeas and Crimson Rambler roses have sold fairly well and of h. p. roses and clematis the sales are far ahead of those of any previous season.

About two weeks ago the florists and gardeners of London met to try and set prices on bedding plants for the Spring retail trade. The meeting was very well attended and everybody seemed to be greatly in favor of higher prices for bedding stock. The following prices were decided upon: Geraniums, 4 1/2-inch pots, \$1.50 to \$2 per dozen; coleus, 75c. to \$1 per dozen; canna, \$1.50 per dozen; heliotrope and salvia, \$1 to \$1.50 per dozen. All annuals in boxes of 18 or 20 plants to a box, 25c. a box; hanging baskets, for filling a 12-inch basket, \$1; larger baskets charged according to size. Since the meeting some of the gardeners appear to be getting cold feet, as several have gone back to the unprofitable prices of a year ago.

Gammage & Son received their usual large shipment of palms and araucarias from Belgium last week; the stock this year is nothing to be compared with that of a year ago. This year the palms are not as well shaped and the leaves are all more or less marked. It will keep us guessing to get much more than the cost price out of them. F. C.

New Hampshire Notes.

The cold weather is not only retarding the growth of vegetation, but it is seriously interfering with all kinds of business. In the White Mountains May 4, snow fell to the depth of four inches. All of the high mountains are still white and in many of the forests there was a depth of nearly two feet of snow. The last week, May 6 to 11, has been little or no better. There are few florists in northern New Hampshire and this year most of them will look southward for flowers for Memorial Day.

WEST DERRY.—Freeman M. Smith has given up his business and the property goes back to its original owner, R. G. Sawyer. Mr. Sawyer is not in the best of health and is anxiously looking for some young man with a florist's ambition to buy the property.

CONCORD.—Charles H. Barrett, who assumed the business of Frank A. Mann & Company on March 9, is making big improvements in the store. New show cases, counters, and other stock will make the store the best appearing in the State.

BERLIN.—There is only one florist directly north of Mt. Washington.—Mrs. H. E. Smith & Company. Although not a large concern it is educating Berlin people to know what flowers are. The firm consists of Mrs. Smith and Thomas Lee.

LITTLETON.—H. M. Prime is running the houses known as the Parker Greenhouses. There are two of them, each about 300 feet long, and one or two small propagating houses. Mr. Prime raises cucumbers in one house and general stock in the other.

A. R. Smith has two small houses devoted principally to vegetable plants. Next Fall he plans to raise quite a quantity of bulbs—hyacinths, narcissus and tulips.

WEST SWANZEY.—Your correspondent was shown over the private grounds of Denman Thompson (Uncle Josh) May 10. J. P. Butler, the gardener, conducted me through the greenhouses and about the grounds. The houses are small but well arranged; one is devoted to flowers and the other to vegetables. The gardener has a cosy home built at the end of one of the houses. I also met Mr. Thompson who received me very cordially. He is a hearty old gentleman nearly 74 years old, but expects to spend eight weeks next Winter on the stage.

In one of the greenhouses I visited in this State I found that worms were eating the geraniums. I opened one stalk and found it full of white worms about a quarter of an inch in length. They seem to start in the roots, working their way up and then out in the form of a black winged ant. The trouble is doubtless in the soil, and many remedies are being tried. CAROLUS.

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ADIANTUM FARLEYENSE, 2 in., \$1.20 per doz.; \$9.00 per 100; \$85.00 per 1000.
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Good, strong plants, from \$4.00 to \$25.00 per doz.

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"	3	.75		
"	4	1.50		12.00
"	6	3.00		
<i>Asparagus Sprengeri</i>	2		3.00	7.00
<i>Cibotium Schiedel</i>	3			
<i>Cocos</i> , 3 in a pot	4	\$1.00		
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<i>Dracaena Indivisa</i>	3			5.00
"	6		5.00	
"	30-34 high	.75	9.00	
"	8		12.00	
<i>Dracaena Terminalis</i>	3		2.00	
"	4	.25	3.00	
<i>Ficus Elasticus</i>	5	.35	4.00	
Japanese Fern Balls			4.00	
Japanese Pines in Japanese jars			4.00	
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<i>Nephrolepis Bostoniensis</i>	2		.50	4.00
"	3		1.00	8.00
"	4		1.50	12.00
"	4 strong		2.00	25.00
"	6		4.20	
"	7		6.00	
"	7		9.00	
<i>Nephrolepis Pearsoni</i>	7		9.00	
"	8		12.00	
<i>Nephrolepis Whitmani</i>	2		1.25	10.00
<i>Phoenix Reclinata</i> , 4-in.			doz.	3.00
"	5-in.		doz.	5.00
<i>Pandanus Urtilis</i> , 5-in.			doz.	5.00
"	6-in.		doz.	6.00

The Geo. Wittbold Co.

1657 Buckingham Place,
CHICAGO, - - ILL.

Home Grown Kentias

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ORCHIDS

Just arrived, a shipment of **CATTELEYA LABIATA** and **DENDROBIUM WARDIANUM**.
Write for prices.
LAGER & HURRELL, Summit, N. J.
Growers and Importers

THE WEEK'S WORK.

Timme's Timely Teachings.

Boston Ferns.

It is time to make provision for the Summer's bench treatment of Boston ferns with a view to working up a good supply in this line for the coming season.

In selecting a bench for the purpose good light, ample drainage and plenty of overhead ventilation are points first to be considered; thrifty 3-inch stock to start with, and the proper kind of soil to plant it in being next in importance.

Moderation in watering and more especially in the matter of shading prevent flabby, soft growth, a defect so common and so objectionable in ferns of this class.

Maidenhair Ferns.

A partial rest of five or six weeks may not restore bench grown Adiantum cucumatum and its newer varieties to its former vigor, but it is the only means of bringing exhausted stock back to a state of fairly profitable production for another season.

Primulas.

The various types of greenhouse primroses, though excellent holiday stock if raised expressly as such, are good selling plants throughout the long season in which they can be had in bloom.

such be handy. Manure, unless very far from being green, and then only for older plants, should not be used in preparing the soil for primulas.

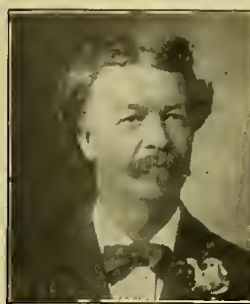
Campanulas.

Seeds of the several varieties of perennial campanulas, found to be the best sorts for field and pot culture among the many under cultivation, should now be sown, as also should those of most other kinds of hardy perennials that admit of being so raised.

Canterbury bells are biennials, raised from seeds and flowering the second year. This is the time to sow the seeds. Whether for outdoor or indoor culture their treatment during the first season is the same.

Cosmos.

Florists who grow cosmos to some extent, having fields of it that yield heavy crops of flowers in Autumn for a convenient market, claim that in spite of its coming so late it very rarely happens that the entire crop is lost by early frosts and that that part of it which is secured in time invariably pays handsomely for the time and labor expended in its culture.



IN EVERYBODY'S MOUTH LIKE THE BEE

A PROSPEROUS florist is never idle; do like this busy insect—the bee—take advantage of the great work the market is doing.

From the lands afar, where the choicest are, I gather the plants I supply; Or grow my own, with care unknown, So the best are the ones you buy.

GERANIUMS for Bedding out. 12 leading varieties, out of 4 in. pots, strong plants \$7.00 per 100.

AGERATUM, dwarf, best blue variety, 4 in. pots, \$7.00 per 100; 2 1/2 in. \$3.00 per 100.

BEGONIA VERNON, finest strain, flowers as dark as blood. Seeds of this beautiful variety picked by myself from the specimen plants in Zurich, Switzerland.

BEGONIA ERFORDI, the true variety, seeds of my own gathering from specimen plants in Zurich, Switzerland.

SCARLET SAGE or SALVIA. This is the genuine Clara Bedman or Bonfire variety of medium tall habit. It is a sight to see them bloom. It looks as if the whole bush is on fire and decorates the finest residences in England, Germany, Paris and Switzerland.

HELIOtropes, 4 in. pots, \$6.00 per 100.

FUCHSIA, mixed, good varieties, 6 to 6 1/2 in. pots, 15c to 20c. each; 4 in. pots, \$1.20 per doz.

CANNAS, 10 good varieties, 4 in. pots, \$8.00 to \$10.00 per 100.

AMPELOPSIS VEITCHII, 4 in. pots staked up, 15c. each.

HONEYSUCKLE, 5 in. pots staked up, 15c. each.

COBEA SCANDENS, 4 in. pots staked up, 5c. to 10c. each.

DAISIES, Queen Alexandria and Marguerite (white), 6 1/2 to 6 in. pots, 20c. to 25c. each.

DIELYTRA SPECTABILIS or BLEEDING HEART, planted in the Fall into 6 in. pots, and plunged outside in cold frames during Winter, growing natural now, large plants, in bud and bloom, 25c. each.

MUSK PLANTS or MIMULUS MOSCHATUS, 2 1/2 in., \$3.00 per 100.

PETUNIA, double, mixed, 4 in. pots, 8c. each, single California giant, ruffled or blotched, 3 in. pots, \$4.00 per 100. Immitable or dwarf variegated, 2 1/2 in. pots, \$3.00 per 100.

VERBENAS, all shades, 2 1/2 in. pots, \$3.00 per 100.

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S. A. PINKSTONE, UTICA, N. Y.

down below the softer part of the cane and be stood in fresh water for at least ten hours. Although water soon revives wilted cosmos flowers it is better not to let it come to that in handling the stock for market.

FRED. W. TIMME. THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

ASPARAGUS PLUMOSUS NANUS, 2 1/2 in. pots, \$3.00 per 100.

COLEUS, Queen Victoria, Golden Bedder, Verschaffeltii, 2 1/2 in. pots, \$3.00 per 100. Fancy varieties, 2 1/2 in. pots, \$3.50 per 100.

PHLOX CHRYMMONDI, 2 1/2 in. pots, \$3.00 per 100.

IVY, English or hardy, 12 in. long, 4 in. pots, \$8.00 per 100. IVY, German or Parlor, 2 1/2 in. pots, \$3.00 per 100.

CENTAUREA OYNOCARPA or Dusty Miller, 2 1/2 in. pots, \$3.00 per 100.

CUMBER or CIGAR PLANT, 2 1/2 in. pots, \$3.00 per 100.

LOBELIA, dwarf or trailing, 2 1/2 in. pots, \$3.00 per 100.

SWEET ALYSSUM, Little Gem, have 10, them, 2 1/2 in. pots, \$3.00 per 100.

MARIGOLD, Florida, Africana and Gold Ring, dwarf, 3 in. pots, \$4.00 per 100.

VINCA, variegated or periwinkle, 2 1/2 in. pots, \$4.00 per 100. Rosea or Major, 2 1/2 to 3 in. pots, \$5.00 per 100.

COSMUS GRANDIFLORA, white, red or pink, three plants in 3 in. pot, separate colors, \$3.00 per 100.

SALPIGLOSSIS VARIABILIS (European), 2 1/2 in. pots, \$3.00 per 100.

SUMMER CHRYSAETHEMUM, Chameleon, 3 in. pots, \$7.00 per 100.

THUNBERGIA or BLACK-EYED SUSAN, 2 1/2 in. pots, \$3.00 per 100.

TOMATOES, Stone, the best varieties, transplanted in boxes, \$1.00 per 100.

MAURANDIA BARCLAYANA, 2 1/2 in. pots, \$4.00 per 100.

ARACARIA ROBUSTA COMPACTA, Spring 1906 importation: Have about 300 of this variety, only specimens, perfect tiers. Asked for the lawn, front porches, cottages, hotels, etc. 7 in. pots, 4-6 tiers, 6 year old, 20 to 28 in. high, as broad as long, price, \$1.75-\$2.00-\$2.50 to \$3.00 each.

ARACARIA ROBUSTA COMPACTA, 6 year old, 36 to 40 in. high, 28 to 40 in. wide, 6 to 6 tiers, \$3.00-\$4.00-\$5.00 each.

ARACARIA, new importation. First consignment about 5,000, now arrived (Saturday, May 4), per steamer Manhattan from Antwerp, and thereafter by every steamer up to June 1. Aracaria Excelsa, in their original packing, left planted in pots, 3 tiers, 10 to 12 in. high, 50c, larger sizes, 60c-70c-\$1.00 to \$1.25 each. Robusta, Compacta and Glauca from \$1.00-\$1.25 to \$1.50 each.

ORACAENA INDIVISA, broad leaves, imported from Belgium, now arriving, 30 to 36 in. high, 60c. to 75c.

COCOS WEDDELIANA, 3 in. pots, 16 to 18 in. high, 15c. to 20c. each.

ASTERIS, Enchantress, new, large blooming varieties, 3 in. 2.00 per 100. Victoria, 8 shades, separate or mixed, \$3.00 per 100.

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Watch and be careful; don't buy Morning glory for Moon Vine.

We grow only the best varieties, A. W. Smith's hybrid or Ipomoea Noctiflorum, for which we have during the past 20 years a world wide reputation. We ship every Spring from 20,000 to 25,000 plants to every state and territory in America as far as Mexico. 4 in. pots, nicely staked up, 20 to 26 in. high, \$12.00 per 100; 2 1/2 in. pots, nicely staked up, \$6.00 per 100.

NOTICE! Above Moon Vine is the earliest variety in existence, blooms freely, in big clusters, pure white; waxy flowers, very fragrant and as big as a saucer.

Cash with order please. All goods must travel at purchaser's risk.

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Healthy, sand-rooted cuttings now ready, \$1.00 per 100, by mail; 500 for \$4.00; 1000 for \$7.00, by express.

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ORCHID SYMBIOSIS.—Symbiosis is a term applied to a very curious association of quite different organisms for mutual benefit, and stands altogether apart from parasitic association by which one organism lives at the expense of another, and gives nothing in return. Of late years, these symbiotic alliances have received a great deal of attention, and have been found to possess an infinitely greater importance than had been dreamt of, especially in connection with beneficent bacteria in the soil, of which we treated in our recent note on soil inoculation.

A very remarkable series of experiments have been made by Professor Noël Bernard of The University, Caen, France, on orchid germination, an illustrated record of which appears on page 292, of the R. H. S. Report of the conference on "Genetics" of 1906. From this paper it is clear that many of the mysterious failures in raising orchids from seed are due to the absence of symbiotic aid afforded by special families of fungi, without whose aid the seeds can do no more than burst their coats and perish. That Professor Bernard's deduction is not a mere theory, but an absolute fact, was demonstrated at the conference by the exhibition of test tubes in which orchid seeds had been sown on jelly not impregnated with the needful fungus, the result being no appreciable germination, while on jelly impregnated with fungus derived from the same genus of orchid, healthy growth was plainly visible. This explains the fact that orchid seeds are often found to germinate freely in the pots and pans occupied by growing plants, and yet fail entirely when sown on soil derived from other sources, and hence devoid of the fungus proper to the tribe.

Different genera of orchids appear to be symbiotically associated with distinct species of fungus, and although misalliances in this connection may lead to growth, the best results are attained when the, so to speak, normal association is brought about. It has been, however, noted that some difference is induced when the fungus other than that peculiar to the parental species is associated with the seed to assist its germination, and the idea is even mooted that this effect may be at the bottom of some types of variation, a most interesting suggestion in connection with a subject regarding which we are so much in the dark. As the needful fungi appear to be present in, and procurable from the soil in which orchids are healthily growing, the essential for germination of their seeds appears to be the use of a portion of such soil for seed culture, taking care to discriminate between the soils of different species or genera in the operation. The paper we have referred to, though brief, is extremely pithy, and we cannot too strongly recommend its perusal to all orchid growers.—C. T. D. in Journal of Horticulture, Eng.

Regarding Rose Bug Remedies

"But even roses have their bugs. Will you consider us hopeless Philistines if we suggest that at last, at last, at last! a way has really been found of 'fixing' that hardened old sinner, the rose bug?"

Such is the edifying statement appearing in the June, 1907, number of the Garden Magazine, New York, among "Opportunities that Beginners are Likely to Miss." In an article on "Insecticides for June Use," in the same issue of the periodical named, occurs the following, with respect to a remedy for chewing insects:

"A much more practical substance (than Paris green) is lead arsenate; it sticks on the foliage longer, but unfortunately it gives the plants the appearance of having had mildew, because lead arsenate is white. However, this objection has recently been overcome in a specially prepared form which has a green color. This costs about twenty cents a pound, which is sufficient to make about ten gallons of solution except, of course, when you are pestered (as you are bound to be, especially if you are on sandy soil) with that arch enemy of flowers, the rose chafer. These arsenate preparation will kill the rose chafer, but they must be used at double the normal strength, and they must be used frequently right on, or in, the flowers."

The foregoing information being so completely at variance with practical experience, we submitted the matter to the Bureau of Entomology at Washington, D. C., and subjoined is the reply of Professor Marlatt, from which it will be seen that our contemporary's statement is decidedly misleading, being at the same time only partially correct. Professor Marlatt says: "I regret to inform you that it is practically impossible to control the rose chafer by means of arsenicals, and especially with arsenate of lead, in the occurrence of this insect on the rose."

In a bulletin distributed by the Division of Entomology it is stated that "The arsenites will kill the beetle, but are not of much value when the insects are abundant, because of the slow action of the poison. The blossoms are entirely destroyed before it takes effect, and the dead are constantly being recruited by others that come from the ground, or fly from neighboring places." The old-fashioned remedy of hand-picking is recommended in the case of rose bushes, also the jarring of the insects from the bushes on to sheets saturated with kerosene, but these methods are tedious and must be practiced daily in early morning or toward sundown to be effective. It is also stated that small orchards, gardens, or vineyards may be protected, at least from the first arriving hordes of the chafers, by planting about them early-flowering plants that particularly attract the beetles. Spiraea, deutzias, andromeda, magnolias, blackberries, and white roses are especially useful as counter-attractives. The beetles swarm on the flowers of these plants, and when thus massed in great numbers, their destruction by the use of collectors or other mechanical means is greatly facilitated. All ground which might serve as a breeding place, and which it is possible so to treat, should be plowed and harrowed early in May for the destruction of the larvae or pupae. The least possible amount of light, sandy soil should be left in sod, only the heaviest land being used for grass.

In a later bulletin on "Insect and Fungous Enemies of the Grape East of the Rocky Mountains," also issued by the Bureau of Entomology, May 10, 1907, occurs the following: "The rose chafer is an exceeding difficult insect to combat successfully. When the insect occurs only in moderate numbers, arsenicals may be reasonably satisfactory; but when it occurs in swarms, the plants are re-infested as fast as the insects are killed. It is possible, however, that a heavy application of arsenate of lead, say 5 to 6 pounds to 50 gallons of water or Bordeaux mixture, will largely protect the vines, and this plan should be tested by vineyardists confronted with this pest. Very thorough applications should be made upon first signs of the insects and repeated as necessary."

From the Report of the Entomological Society of Ontario for 1906, just issued, we take the following extract treating upon the rose chafer:

"It is a remarkable fact that the ordinary insecticides have little or no effect upon this pest, and it will eat blossoms sprayed with Paris green and thrive upon them. Many experiments have been tried and it is found that, where the work is to be done on a large scale, the congregated insects may be repelled by a wash made by adding about three pecks of freshly-slaked lime to a quart of crude carbolic acid in fifty gallons of water. This does not kill the insects, but the smell of the carbolic drives them away.

"Another method is to spray the masses of beetles with half a pound of fish-oil soap in a gallon of water. It is claimed that this will kill about 95 per cent. of the insects. It acts by closing up their breathing apparatus and causing death by suffocation. On a small scale much may be done by beating the insects, in the early morning when they are sluggish, into pans containing a little coal oil and then burning them; or they may be knocked off into an open umbrella and then destroyed. Choice grapes or plants may be protected with netting."

The foregoing authoritative statements, while show-

ing that arsenate of lead will kill the rose chafer, a fact which has been known for years, it is not to be recommended as a complete exterminator of this pest, and that for the "hardened old sinner," gardeners are still waiting for an effectual remedy, and will regard our contemporary's suggestion not only as Philistine, but hopelessly foolish and to a great extent fallacious.

Plant Diseases in Connecticut.

From the report of the botanist, Dr. G. P. Clinton, of the Connecticut Agricultural Experiment Station, just issued, we take the following particulars concerning plant diseases submitted to the station for diagnosis and suggested remedies during the year 1906:

CARNATION SPOT, *Alternaria* SP.—This disease was called to the writer's attention by Mr. Walden of this station, who collected specimens in the greenhouse of S. Perry Beers of Greenfield Hill. Mr. Beers had obtained his carnations already rooted from another greenhouse, where this trouble was also present. In a few cases the disease was severe enough to kill the plants outright, but usually the injury was limited to the leaves dying at their tips or to the whole top of the plant dying as the result of a girdled area beneath. Generally the injured places were of a whitish color having a rather inconspicuous black growth of the fruiting stage of the fungus. The only mention of a similar disease of carnation caused by *Alternaria* that the writer has seen is that made by Mr. Orton in the Yearbook of the United States Department of Agriculture for 1905 (p. 611). Mr. Woods, of the Department of Agriculture, who has made a special study of the fungus, in a recent letter to the writer says:

"The disease is quite serious on the softer-leaved varieties, such as those of the Lawson type, especially the Lawson and the Enchantress. The disease behaves very much like the other *Alternaria* diseases especially the one on the violet, attacking not only the leaves, but the stems, and cutting the plants back very seriously in many cases. In fact, I have seen whole houses of carnations practically stripped of their leaves and losing a large part of the top. Plants grown out of doors, exposed to rain and dew, especially in the night, are very subject to the disease and suffer seriously when the plants are moved into the house. It is, of course, then rather difficult to free the plants of the disease without cutting them back very severely and spraying them thoroughly with scap Bordeaux. The proper treatment is to spray the plants from the time they are set in the field until the time they are moved into the house, keeping the young growth well covered with Bordeaux and continuing the treatment after the plants are in the house until they become well established. If the plants are grown in the house all of the year and the leaves are not allowed to remain wet over night, the disease seldom, if ever, does much injury."

PEONY—ROOT INJURY OR ROT?—In September complaint was received from Southington of a root rot of peonies, which had gradually become quite serious. In writing of this trouble, the grower, H. R. Whitney, said: "When the plants first became established they were very beautiful, but since this disease has come upon them they do not amount to anything, some not even blooming. The first sign noticed is a discoloration of the leaves, turning to a chocolate color, accompanied by wilting, and finally death of the stalk. Sometimes the wilting occurs without any discoloration; the roots seem to rot to pieces at the surface of the ground much after the manner of the rootstock rot of iris (which, by the way, is very prevalent hereabouts, and all our iris beds are seriously affected by it). These peonies were set on a sloping hillside facing the north, and the lowest plants were the first ones affected. The disease has now spread to all. They have always had good care. I am now going to transplant them to higher ground, in fresh soil, and see what this will do."

I am not certain about the cause of this trouble. The specimens sent for examination showed a dry, rather than a wet rot, though possibly this was because they had dried out somewhat. The statement that the iris on his grounds was being injured by a bacterial rot might indicate that the same agent was at work on the peony. An examination of the roots, however, did not lead the writer to the conclusion that bacteria were responsible for the injury, though some bacteria were present in the tissues, and cultures made from the diseased parts usually gave mixed growths of bacteria and fungi. Microscopic examination of the diseased tissues showed that there was present the sterile mycelium of some fungus that looked as if it might be the cause of the trouble. The fungus was peculiar because of numerous roundish, dark reddish brown chlamydospore-like bodies that occurred in the threads. Cultures from this tissue seem to indicate that these were possibly threads of a *Torula* developing under unfavorable conditions. In this case the fungus was apparently only a saprophyte that developed in the tissue after the injury, rather than its cause. A peculiarity of the trouble, at least in the specimens sent for examination, was the sharpness with which the healthy tissue was marked off from the diseased. This may indicate that the trouble was not the result of bacterial or fungous attack, but possibly a Winter injury. Usually the injury was on one side of the root, but in some cases it

extended up into the interior, with white healthy tissue on either side. Mention of this trouble has not been found in the literature of plant diseases, though probably it has not entirely escaped observation before. Further study of injured plants is needed to determine definitely the cause.

PAMPHLETS RECEIVED.

THE NEW AGRICULTURAL-HORTICULTURAL OPUNTIAS; PLANT CREATIONS FOR ARID REGIONS. Issued by Luther Burbank, Santa Rosa, Cal. Illustrated.

While this publication is intended as a descriptive catalogue of the plants with which it deals, for sale by Mr. Burbank, he has also given a host of useful information concerning opuntias in general and the spineless sorts in particular. A history of his work with these plants is provided, as well as cultural instructions, the kinds to cultivate, while part three of the pamphlet is devoted to his "New Creations in Opuntias," "all productions of Burbank's experimental farm." Export public opinion at home and from abroad in which is recognized the "great value of spineless opuntias" is also furnished.

Mr. Burbank says:

"For more than fifty years I have been quite familiar with 'thornless cactus' of many species and varieties. In fact, one of the first pets which I had in earliest childhood was a thornless cactus, one of the beautiful phyllocactus. The phyllocactus and many of the cereus family are also thornless, not a trace to be found on any part of the plants or fruit. Thus the somewhat indefinite popular name of 'thornless cactus' has been used by persons unacquainted with these facts, for be it known that 'thornless cactus' is no more of a novelty than a 'thornless' watermelon. But among the cacti which grow to an immense size with great rapidity and which can be readily cultivated in garden, field or desert no perfectly thornless ones were known and very little interest taken in the cacti of any kind either thorny or thornless as to their agricultural or horticultural value until the work of improvement was taken up on my experiment farms and improved perfectly thornless rapid-growing varieties had been produced and made known within the past few years."

Mr. Burbank points out that the opuntias once were thornless, and "there is no reason why they should not sometimes again revert to a state of partial thornlessness, and this is exactly what they do." He says:

"In the Hawaiian Islands a partially thornless Opuntia is sometimes found, always growing, however, in places absolutely inaccessible to browsing animals. In California, Mexico, Colorado, New Mexico and Texas small patches of half thornless ones are sometimes found almost always in inaccessible crevices among rocks. And on some of the South Sea Islands where vegetation is abundant and browsing animals few, the opuntias having no use for thorns have either reverted back to thornlessness or often the thorns have become hair-like, diminished and perfectly harmless."

Mr. Burbank has devoted some twelve years to the opuntias, securing the best from several parts of the world.

"Many so-called thornless or partly thornless ones were obtained, but not one among the thousands received from all these sources was absolutely free from thorns and spicules and even worse, those which were the most promising in these respects often bore the poorest fruit, were the most unproductive of fruit or produced less fodder or were less hardy than the wild thornless species and varieties. The first work was to select the best of these, cross and raise numerous seedlings, select the best of these and so continue hoping for improvement. One of the first and not unexpected facts of importance to be observed, was that by crossing, the thorns were often increased rather than diminished, but not so with all. Some very few still became even more thornless than their so-called thornless parents, greatly increased size and quality of leaves (paquetes or slabs) and among these, the combination of the best qualities of both parents with surprising productiveness of slabs for feeding. The work is still in progress but on a still larger scale and now the improved opuntias promise to be one of the most important food-producers of this age, some of these new creations grown from the same lot of seed yielding fully ten times as much feed as others under exactly the same conditions."

It is asserted by Mr. Burbank, that the spineless character of his opuntias will remain fixed. He advises that they be fenced from stock; the leaves to be fed to the stock when most needed.

Some of the species and varieties of opuntias which are growing under test in Burbank's collection for comparison and experiment are: *Albispina*, *arbuscula*, *arborescens*, *basilaris*, *bernadina*, *brasilensis*, *camañchica*, *dearmatus*, *Emoryi*, *Engelmanni*, *formidabilis* *frutescens*, *fulgida* (*cholla*), *fragilis*, *galapagana*, *gummosa*, *humifusa laevis*, *leptocaulis*, *lurida*, *missouriensis*, *monacantha*, *macrorhiza*, *nigricans*, *papyracantha*, *phaeacantha*, *Rafinesquii*, *senilis*, *spinosois*, *tricantha*, *ursina* and numerous other species.

Opuntia Tuna Varieties.—*Amarillo*, *blanca*, *cardena* (U. S. 10179), *chavena*, *colorado*, *crystalina*, *grande*, *jarilla*, *morado*, *tapuna*, *xoconorale*, *vulgaris* and about fifty other varieties.

Opuntia Ficus Indica Varieties.—*Anacantha* (U. S. 9352), *Arizona* (white), *Arizona* (yellow), *blanco*, *Bryantiana* (U. S. 3642), *Colorado*, *gymnocarpa* (U. S. 12402), *Hayne*, *inermis*, *Malta* (U. S. 9352), *marisi* (U. S. 9350), *mission*, *monelova*, *Myers*, *Skelley*, *Watson*, (No. 1), *Watson* (No. 2), and numerous others, also *Nopalca*, *Cereus*, *Pilocereus*, *Mammillaria*, *Echinopsis*, *Phyllocactus*, and others, with twelve thousand seedlings and hybrid seedlings from the best, hardy, most nutritious and rapid-growing so-called thornless varieties.

The opuntias differ astonishingly in hardness. Some strains of the common prickly pear (*Opuntia vulgaris*) will grow readily in Alaska and several of the thorny species will endure forty degrees below zero without

injury. The best agricultural and horticultural species and varieties are not quite as hardy as the fig, yet are more so than the orange, lemon, lime or common blue gum (*Eucalyptus globulus*). Old plants are very much harder than the young soft ones. The Tapuna strain of the semi-tropical opuntias is the hardest and bears superior fruit in the greatest profusion and when quite young. The Tapunas seem to be almost as hardy as the fig and will withstand moisture better than most of the others.

OUR READERS' VIEWS

Postal Rates to Canada.

Editor Florists' Exchange:

I notice the paragraph in The Florists' Exchange that after May 7, the price of the paper to Canadian subscribers will be doubled, to cover postage. Of course, we can't blame the publishers, but isn't it up to us Canadian subscribers to make a kick to our postal department? I don't suppose any of us has the slightest idea of the department's reasons for this increase in postal rates. It cannot possibly be financial, for the Government now seems to have more money than it knows what to do with. And so far as Edmonton is concerned, it cannot be to pay for any special postal facilities. We are now a city of nearly 20,000, but we have still to stand in line at a couple of wickets at the Central and the only station to get mail.

Personally, I have written our local member a concise statement of the matter, but I am ready to join in an organized protest if necessary, provided, of course, it only applies to our trade journals, for I am certainly with the Government in any effort it makes to stop a lot of the yellow, trashy papers and fake advertising schemes from across the border, using the mails at a pecuniary disadvantage to the country.

Edmonton, Alberta.

FRED BENNETT.

[The increased rate applies to newspapers of every class that formerly enjoyed pound rates to Canada, the same as in the United States.—Ed.]

A Semi-Centennial Celebration.

Editor Florists' Exchange:

A notable meeting will be held at the Michigan Agricultural College during the last week of May. It may surprise many intelligent people to realize that the first agricultural college in this country was established just 50 years ago. A few far-sighted and patriotic men went out into the woods a few miles from Lansing, Mich., and established the first "Land Grant" college. The undertaking was not popular, for no one at that time believed in the theory that agriculture was worthy of a system of education of its own. A few strong men like Professor Abbot and Dr. Kedzie stayed by the enterprise under great difficulties and hard conditions. The war interfered with the school and farmers were very backward in giving it support. Finally it attracted attention and the Legislature, being unable to kill it off, began to give it grudging support. After the war the funds available from the "Land Grant" were applied in other states and the system was largely copied after that in Michigan. From this humble beginning there has grown a wonderful system of education, which now challenges the old classical method and has been able to meet it successfully upon its own ground. Beginning with one building and three teachers, Michigan has now nearly 50 buildings, over 100 instructors and over 1000 students enrolled.

The fiftieth anniversary will be fittingly celebrated during the entire week. To give a fair idea of the character of the celebration, it may be stated that the baccalaureate sermon will be preached by Dr. Buckingham of the Vermont University. Prof. Benj. Ide Wheeler of the University of California will speak for the West; Prof. Stinson of the Connecticut Agricultural College for the East; Prof. Henry Clay White of Georgia for the South; while Illinois, Michigan, New York and Nebraska and other states will be represented. Secretary James Wilson will speak for the Department of Agriculture and President Roosevelt will discuss the development of agricultural education and show something of its tendencies in influencing public life.

It would be difficult to estimate the material value and power which agricultural education has given to this country during the past 25 years. Not only have these colleges and experiment stations taught material things, that is, how to produce larger crops and how to make more money on the farm, but they have, in another way, helped develop character. Men who have been taught to study crops and methods with something of scientific accuracy have also been taught to study public questions as they never did before. The influence, therefore, of this form of education upon public life has begun to exert itself, and there can be no doubt that during the years to come this influence will continue and that it will in time dominate country neighborhoods and make a great change in the future of this country. It is a notable celebration, marking a period in American history of which all country people should be proud.

H. W. C.

English Horticultural Notes.

SPRING FLOWER SOCIETIES are springing up in many parts of the country. Torquay in Devonshire has had a big Spring flower show for some years, and now the southeastern counties (Sussex, Kent and Surrey) have formed a society; while Huntingdonshire, the second smallest of the counties, has also inaugurated a show. Birmingham has been the seat of a large daffodil and Spring flower exhibition for some years and to-day is regarded as the leading show of its kind, London not excepted. The foundation of shows devoted to early flowers pure and simple is significant of the increase of taste for and knowledge of, the narcissi, tulips, hyacinths, polyanthus and other things.

COMMERCIAL BULB GROWING in Lincolnshire, on the east coast facing Holland, is steadily increasing. The soil here is of a sandy-peaty nature, and the country is low-lying; indeed so like is some of it to the lands of Holland that one division of the shire has been named Holland. In Ireland the industry also progresses, and Sir Josslyn Gore-Booth, Baronet, has inaugurated bulb growing in the far west of Ireland at Sligo, in order to afford employment to the people there. The bulbs and their flowers are all very excellent, proving that quite as good material can be cultivated there as in the land of the Dutchman.

It is early yet to speak of the novelties in narcissi, but there are some gems upon the horizon. The parks are now (April 20) very gay. Thousands of daffodils and tulips are planted in the grass, while the beds are filled with hyacinths and tulips. A very telling mixture frequently seen is furnished by *Narcissus Sir Watkin* and dark blue hyacinths. The tulips flower later than the hyacinths, but the varieties of the latter that are relied on comprise *Gigantea*, pink; *Grandeur a Merveille*, creamy white; *Czar Peter* and *Grand Maitre*, light blues; *King of the Blues*, dark; *alba superbissima*, white. These are mostly in beds of one sort; sometimes a red and a white are mixed; and red, white and light blue is also favored.

HYBRIDISATION CONFERENCE REPORT.

The report of the International Conference on Genetics, about which The Florists' Exchange kept its readers acquainted last Autumn, has been published. It forms a bulky, well-printed and profusely illustrated volume, and the charge to Non-Fellows of the Royal Horticultural Society (London) is 15 shillings. There are many excellent papers by Americans, and doubtless the Editor of this journal will avail himself of them so far as space allows.

THE NEW ROSE TAUSENSCHON, shown by Wm. Paul & Son, Waltham Cross, received an award on April 24. It is a climbing decorative variety, with huge clusters of deep ruby-crimson flowers, each flower fully two inches in diameter. These last well for three weeks and fade off to a light pink. It seems like a cross between a *Wichuriana* and a red tea rose. The variety (climbing decorative) *Waltham Bride*, with a profusion of creamy clusters, is very beautiful and it sells fast.

The hybrid scented pelargonium, *Clarinda* (Cannell, Swanley), is also a magnificent success.

J. HARRISON DICK.

THE DAHIA NEWS for May, 1907, announces the following special prizes for the forthcoming dahlia exhibition to be held in Boston, Mass., conjointly by the New England Dahlia Society and the Massachusetts Horticultural Society on September 4 and 5 next:

DREER'S PRIZES.—First, \$5 for the best twelve flowers of the dahlia *Fire Rain*; second, \$3 for the second best twelve flowers of the same variety. By Henry A. Dreer, 714 Chestnut street, Philadelphia, Pa.

MICHELL PRIZE.—\$5 for the best twelve blooms of the dahlia *Mrs. Roosevelt*. Offered by Henry F. Michell Company, 1018 Market street, Philadelphia, Pa.

BRECK PRIZE.—\$5, selection left to the society to be announced later. Offered by Joseph Breck & Sons, North Market street, Boston, Mass.

BURPEE PRIZE.—\$5, selection left to the society, to be announced later. Offered by W. Atlee Burpee & Co., Philadelphia, Pa.

RAWSON PRIZE.—\$5 for the largest single bloom of a decorative dahlia (name attached). This prize can only be completed for by dahlia growers who do not make a business of either selling roots or flowers. Offered by W. W. Rawson & Company, Boston, Mass.

Dahlia news from foreign countries, and articles on "Growing Dahlias for Exhibition," and "Cactus Dahlias," as well as interesting cultural notes form features of the current issue of the periodical. Secretary Fuld, Boston, states the membership is now 150 and is steadily growing. The society is but six months old.

Memorial Day.

As Memorial Day falls on Thursday, May 30, we respectfully request our advertisers and correspondents to have their "copy" in our hands not later than Wednesday forenoon, May 29. Kindly give this matter your best attention.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO. Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dayton, O.

W. G. MATTHEWS, FLOREST, 16 West Third Street. Flowers in any arrangement for all occasions for Dayton and vicinity. Personal attention given to all orders. Long distance telephones.

Dallas, Texas.

LANG, THE FLOREST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Louisville, Ky.

JACOB SCHULZ, 644 4th Avenue. Personal attention given to out-of-town orders for Louisville and surrounding territory. Have a choice line of seasonable flowers always in stock; delivery facilities perfect.

Indianapolis, Ind.

BERTERMANN BROS. CO. Our facilities for executing orders in an efficient manner are unexcelled. Our shipping territory includes the surrounding states. High grade flowers; expert workmanship.

Canterbury Bells.

The Canterbury bell is Campanula medium, and it is probably the most popular of the whole group of campanulas as well as being one of the oldest. It is said to have been named Canterbury bell by Gerard, from growing plentifully in the woods about Canterbury, England. Canterbury bells are hardy biennials, and are extremely showy in shrubberies or mixed borders. Of Canterbury bells there is now a large group of very fine varieties, both double and single, in various shades of color. There is also a very interesting race of Canterbury bells called "cup and saucer," or as named botanically calycanthema. Here the calyx is colored and broadened out, forming the "saucer." Seed sown in the open border during May, June or July will furnish good plants for next season's flowering. Canterbury bells bloom well as pot plants in the greenhouse.

Glen Cove, L. I.

JOHN F. JOHNSTON.

FOR THE RETAILER

For reproduction on this page, we solicit from our readers engaged in the Retail Trade, good, clear photographs of subjects that are of general interest, such as store interiors, designs of different classes, new delivery wagons, etc.

An Elaborate Wedding Decoration.

A wedding decoration at one of the prominent Fifth avenue hotels was perhaps the most talked about affair among the New York retail florists last week; and there has been much speculation as to how much money the fortunate florist got. The papers put it as high as five thousand dollars.

Large quantities of orchids and American Beauty roses were used, and it was no doubt a very costly affair. The reception room was the scene of the ceremony. One end of it was banked with palms; there was no set canopy, but two marble columns were utilized. A wire was stretched from column to column, from this were suspended strings of Asparagus plumosus, forming a curtain of green. This was divided in the center and tied back to either column with broad

and forming an arbor under which the guests were seated. The tables were decorated in red and white, representing the Japanese colors, the flowers employed being white sweet peas and scarlet carnations.

Funeral Work.

The retailers have been unusually busy this week with funeral work, and many fine examples have been turned out. A casket cover of white lilac is particularly worthy of notice. It was made in the form of a loose pall, and besides covering the entire casket it extended to the floor, some three or four feet, the coffin being raised to that height. A beautiful cross rested on the casket imbedded in the lilac. This cross was made of Richmond roses stemmed quite short, so that the outlines were sharp and clear.

Another fine effect was obtained with a large flat bunch of American Beauty roses over which rested a loosely made wreath of gardenias; no frame was employed, the gardenias being tied loosely together.

Prepared Magnolia grandiflora leaves also made up extremely well. The leaves are prepared, or preserved, and are to be obtained in a rich dark green and bronze. The wreath that attracted my attention was made of the green leaves, in crescent form, with a large cluster of cypress leaves arranged at the widest part of the wreath, and tied with wide, purple ribbon. No flowers were used in this arrangement.

Lavender centaureas were used in making a large cross. These flowers seem particularly adapted for funeral work, as they retain their freshness for a long time. White centaureas, with a cluster of cactleys and gardenias, formed a very beautiful wreath; this was tied with pale mauve ribbon. D. RAYBUN.

Continental Notes.

CRASSULA LYCOPODIODES.—This fresh-looking apparently tender plant, a native of South Africa, where it is found growing on dry stony ground, is being recommended by F. Fobe in a Continental gardening journal as being every suitable as a carpet bedding plant. Its name describes its appearance which is more that of a lycopodium than a crassula, and at first sight it might be taken as belonging to that genus. The plant is a good subject for employment in jardinières, in the same manner as lycopodiums, and as a pot plant, or planted out in sunny dry situations in conservatories it would be quite at home. The propagation of the plant from cuttings is easy, and a one year old plant will afford several hundreds of them. There are two other varieties of the plant which form a less dense growth of shoots, and whose leaves are of a greyish green tint.

ACACIA MOTTEANA (syn. *A. Podalyriæfolia*).—The chief merit which this plant possesses is its continuous flowering for a period of from three to four months, and in this particular it has no equal among acacias—the greatly valued *A. dealbata* scarcely remains in bloom for one month. The flowering season is from the middle of November till the end of March, and it is one of the prettiest flowers of the Winter season. The blooms are globular, lightly arranged on the spikes, and sessile. The value of the plant for cut bloom for export was well appreciated by M. Winter, of Bordighera, otherwise that cute nurseryman would not have been so strenuous in keeping it as his monopoly for so many years.—Horticultural Trade Journal, Eng.

CYANIDE OF SODIUM VS. CYANIDE OF POTASH.—Writing to the Florida Agriculturist on the subject of "Fumigation for the Destruction of Insect Pests," Professor Massey has the following to say on the comparative values of cyanide of sodium and cyanide of potash.

"The usual method has been to develop hydrocyanic gas by dropping cyanide of potash into sulphuric acid in a closed house. But lately there has been an effort made to show that cyanide of potash may be more economically replaced by the cyanide of sodium. When a nurseryman is told that 100 kilograms of cyanide of sodium will produce as much hydrocyanic gas as 132 kilograms of cyanide of potash, he is apt to at once jump at the conclusion that the sodium cyanide can be used as a cheap substitute for the potassium salt. But a test will prove that the actual amount of the gas liberated is less than the amount of gas released by the potassium cyanide, because when the sodium salt is treated with sulphuric acid, a residue forms consisting partly of solidified sulphate of soda and partly of undecomposed cyanide of soda.

"On the other hand, the residue left from the use of potassium cyanide is not a solidified mass of useless material, but crumbles to a powder. This powder is not a valueless article to the cultivator, like the sodium sulphate, but is the potassium sulphate that commands a high price as a fertilizer. This fact that the residue from the potash salt is a valuable fertilizer will of itself do away with all claims made for the superior economy of the sodium cyanide, even if the claims for a larger production of gas had to be granted, for the residue resulting from the use of the sodium cyanide is a perfectly worthless article to the cultivator, while the residue from the potash salt is sulphate of potassium in a readily available form that would command on the market over \$2.50 per 100 pounds as a fertilizer. From this we see how important it is for the grower to study all the actual facts in connection with the process."



The Canterbury Bell Makes an Excellent Pot Plant
Photo by John F. Johnston.

sashes of white silk ribbon. From this were suspended sprays and clusters of Cattleya Mossiae in reckless profusion. From the center of this arrangement was hung a large aluminum wedding bell tastefully decorated with lily of the valley and gardenias; the interior of the bell was illuminated with small electric lights, lightly veiled with asparagus and sprays of white orchids. The aisle posts were connected with white satin ribbon, the posts being wound with asparagus and finished off with bouquets of white sweet peas. The Prie Dieu was decorated with asparagus and cactleys.

Vases of flowers—American Beauty, Bride, Richmond and Mme. Abel Chateau roses—were the only decoration that was employed in the other rooms of the suite.

Luncheon and Dinner Decorations.

Society entertainments in the form of luncheons and dinners are about over so far as New York is concerned, and the Newport season will not open for a month or six weeks. But the hotels and restaurants are still busy, and some large affairs have taken place during the week. A dinner given in honor of a distinguished visitor was rather unique. The room was converted into a Japanese Summer house, the walls and ceiling being latticed with bamboo. Wistaria (artificial) covered the ceiling, hanging in graceful festoons from the lattice work. The walls of the room were almost entirely covered with branches of double flowering cherry and almond, so arranged as to look like the natural tree, some of the branches extending into the room

ROSE PLANTS

From 2 1/2 inch Pots. Ready for Shipment.

Table listing various rose plants like Richmond, Bride, Uncle John, etc., with prices per hundred or thousand.

Killarney 2 inch pots Grafted Stock. \$12.50 per Hundred

BENCH PLANTS

One year old plants

American Beauty, \$10.00 per 100; \$75.00 per 1000. Bridesmaid, Bride, Chatenay, Uncle John, Ivory, Sunrise, Liberty and Perle, \$5.00 per 100; \$40.00 per 1000

Peter Reinberg, No. 51 Wabash Avenue, Chicago

Grafted Roses

We offer this year the following assortment: Bride, Bridesmaid, Bon Silens, Golden Gata, Ivory, Gen. McArthur, Kata Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Mme. Caroline Testout, Mma. Koate, Maman Cochet, Marechal Niel, Richmond, Souv. du President Carnot, Souvenir De Wootton, Tom Field, Uncle John. The above grafted from 2 1/2 inch pots, \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1000. The Baby Rambler, \$2.50 per doz.; \$15.00 per 100.

AMERICAN BEAUTY

On own roots, from 2 1/2 inch pots, \$3.00 per 100; \$75.00 per 1,000; 3-inch pots, \$12.00 per 100; \$100.00 per 1,000 April, May and June delivery.

The 1000 rate obtains only when 250 or more of a variety are ordered.

OUR GUARANTEE GOES WITH EVERY PLANT.

A. N. PIERSON, Cromwell, Conn.

LOOK HERE

Grafted rose plants, 2 1/2 and 3 in. pots, \$12.00 per 100; \$100.00 per 1000. Brides, Bridesmaids, Killarney, Richmond.

Brides, Bridesmaids, own roots, 3 in., \$5.00 per 100; \$50.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE BRIDGEPORT, CONN.

ROSES ON OWN ROOTS 2 YEARS, No. 1,

AT \$5.00 Per 100

Crimson, White, Yellow, and Pink Ramblers, Dorothy Perkins, Baltimore Belle, Queen of the Prairie, Seven Sisters, Wichuriana, Empress of China.

GILBERT COSTICH, ROCHESTER, N. Y.

ROSES

American Beauty, 3 1/2 in., \$80.00 per 1000. Bridesmaid and Bride, 3 1/2 in., \$45.00 per 1000. Carnation Crusader, 2 1/2 in., \$27.50 per 1000. Carnation Boston Market, 2 1/2 in., \$27.50 per 1000. Cash or C. O. D. unless known.

BRANT & NOE FLORAL COMPANY, W. Peterson & N. 48th Ave., Chicago, Ill.

ROSES

Strong, Healthy Plants—Cash with order

Table with columns for plant names (Beauty, Richmond, Bride, Bridesmaid) and prices per 100 and 1000 plants.

ALFRED P. SMITH Madison, N. J.

GRAFTED ROSES

On Best English Manetti Stock

3 in. pots; A No. 1 plants.

Table listing plants like Chatenay, Wellesley, Richmond, Kaiserin, Moulton with prices per 100.

Table listing plants like Richmond, Killarney, Kaiserin, Wellesley, Brides, Maids with prices per 100.

S. J. REUTER WESTERLY, R. I.

ROSES

Brides, Maids and Gates, in good condition, benched last August, \$5.00 per 100; \$45.00 per 1000. Verbenas, Mammoth, 3 1/2 in., \$2.60 per 100. Nierembergia, 2 1/2 in., \$2.50 per 100. Double Sweet Alyssum, 3 in., \$3.00; 2 in., \$2.00 per 100. Cannas—C. Henderson, Mme. Crezy, F. Vanghan, \$7.00 per 100. 4 in. Tomato Plants, Earliana, Stone, Ponderosa, 2 1/2 in. pots, \$2.00 per 100; transplanted, 75c. per 100; \$3.00 per 1000; from seed bed, 60c. per 100; \$3.00 per 1000. Cabbage, transplanted, 60c. per 100; \$4.00 per 1000, Wakefield and Winnigstadt.

SMITH & VAN AART, NEWTOWN, PA.

KAISERIN ROSES

2 1/2 in. pots \$3.50 per 100; \$30.00 per 1000. 3 in. \$6.00 per 100. Carnations all sold.

E. H. PYE, Upper Nyack, N. Y.

Roses Fine Healthy Stock

6000 Brides and Bridesmaid, grafted, 3 1/2 in., \$12.00 per 100. 2000 Brides, Bridesmaids, Killarney, Chatenay, Gates, Ivory, Richmond, own roots, 3 1/2 in., \$8.00 per 100.

P. R. QUINLAN, Syracuse, N. Y.

PANSIES

Fine stocky plants that will bloom in May, 50c. per 100, \$3.00 per 1000.

Forget-me-nots in bud and bloom, large plants \$2.00 per 100, \$15.00 per 1000.

Wallflowers in bud and bloom, \$3.00 per 100.

Verbenas, Stocks, Ageraliums, Salvia, Cigar Plants out of 2 1/2 inch, \$2.00 per 100, \$15.00 per 1000.

Cabbage Plants E. J. Wakefield, \$1.25 per 1000.

J. C. Schmidt, Bristol, Pa.

ROSES

FOOD REQUIREMENTS OF HYBRID CLIMBING ROSES.—A recent part of the Journal de la Societe Nationale d'Horticulture de France contains a paper by M. G. Truffaut on the food requirements of hybrid climbing roses. The author chose for his various experiments the sturdy and well-known rose Madame Ulrich Brunner, and with the assistance of M. Cochet-Cochet and other growers was able to work on a large scale. The results obtained by the various food-constituents are summarized as follows: The mixture of nitrates and phosphoric acid produced very fine growth, extra large flowers, early, and well colored. Complete manured poor in potash yielded excellent results, even in soils rich in nitrogen and in phosphoric acid. Roses should be grown in clayey or in clayey-siliceous soils, not over rich in humus. I advise, says M. Truffaut, for manuring roses in the open ground in Autumn, a little cow manure, and in Spring to spread on each square metre (rather over 3 feet) 50 grammes of precipitated bone phosphate, 30 grammes of burnt horn, 10 grammes of dried meat, 10 grammes of dried blood (1 gramme=15.4324 grains). The whole to be forked in. Then, after June 15, the plants should be watered with a solution of 1 gramme per litre (1 litre=35.2154 oz.) of the following mixture: 50 per cent phosphate of ammonia and 50 per cent nitrate of ammonia; this gives 23 per cent of nitrogen and 22 per cent of phosphoric acid. By following these directions, by appropriate pruning, and leaving a moderate number of flowering shoots, bloom will be maintained until November, the flowers being large and fragrant, the stems firm and branching, the foliage dark green and shining, thick, and resisting rust and mildew.—Gardener's Chronicle, Eng.

ASTERS

Samples, 5 colors, by mail 40c. per 100; \$3.00 per 1000 by express.

Table listing various alyssum and phlox plants with prices per 100.

Cash with order please

GEO. J. HUGHES, Berlin, N. J.

BEDDING PLANTS

Table listing various bedding plants like Verbena, Alyssum, Alternanthera, Phlox, etc., with prices per 100.

COLEUS All Sizes from Sand and Soil.

Verschoffeltii and Golden Bedder, \$6.00 per 100. Very strong rooted cuttings. Low Baby from soil, strong. Ready to put out. Fancy, select, very brightest mixed \$1.00 per 100. Giant, many kinds, finest of all Coleus \$1.20 per 100. Verschoffeltii and G. Bedder, \$1.20 per 100. Verschoffeltii. Young stocky transplanted Brunati, GERANIUMS—Buehner, Ricard, Doyle, Perkins, 100, \$1.25. F. Blanc, new double white, 6c. each. Alternanthera, Bushy soil plants, Red Rug, very fine, 60c. per 100. A. Nana, 60c. per 100.

DANIEL K. HERR, Lancaster, Pa.

PANSIES

THE JENNINGS STRAIN. A few more left; strong plants at \$1 per 100, transplanted, ready to bloom. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn. Growers of the Finest Pansies

ALTERNANTHERA

F. Major, 2-in., 2c. Aurea Nana, Rosa, 2-in., 2c. AGEATUM, white, Pauline Gurney, 2-in., 2c. CENTAUREA GYMNOCARPA, Dusty Miller, 2-in. 2c. COLEUS, 2-in., 2c. CUPHEA, 2-in., 2c. DUSTY MILLER, strong 2 in., 2c. ELEGANTISSIMA FERNS, 2-in., 3c. HELIOTROPE, dark, 2-in., 2c. ROOTED CUTTINGS, prepaid per 100. FUCHSIA, 5 kinds, \$1.25. AGEATUM, white, GUNNEY, PAULINE, 60c. VINCA VARIEGATA, 90c. SALVIA BONFIRE, SILVERSPOT, SPLENDENS, 90c. ALTERNANTHERA, 3 kinds, 50c. HELIOTROPE, 3 kinds, \$1.00. FLOWERING BEGONIAS, 8 kinds, \$1.25. PARROT IVY, 75c.; DOUBLE PETUNIAS, 10 kinds, \$1.00; COLEUS, 10 kinds, 50c. SWANSONA ALBA, \$1.00. PARIS DAISY white and yellow, \$1.00. ALEXANDRA, \$1.25. Antirrhinum, Grand white, pink and yellow, \$3.00 per 1000. Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

COLEUS

Golden Bedder, Crimson Verschoffeltii and 15 fancy bedding varieties, 2 in. pots, \$1.50 per 100; \$15.00 per 1000.

GERANIUMS

Nutt, Buchner, Poitevine, Doyle, 3 in. pots, \$3.00 and \$4.00 per 100; 4 in. pots, \$6.00 per 100. Pansy Plants, small, 60c. per 100; \$6.00 per 1000; bud and bloom, \$1.00 per 100; \$8.00 per 1000.

Table listing various plants like Fuchsias, Heliotropes, Salvia, Vinca, Ageratum, etc., with prices per 100.

CASH WITH ORDER.

ERNEST HARRIS, DELANSON, N. Y.

ENGLISH IVY

R. C., 75c.; 2 in., \$2.00.

BEX BEGONIA, 2 in., \$3.00; 4 in., \$8.00. ASPARAGUS SPENGERI, 2 in., \$2.00 per 100. ABAUCARIAS, 60c. and 75c. each. CANNAS, Austria, \$1.50; America, \$1.50; D. Harum, \$2.00; Pennsylvania, \$1.50; E. Gray, \$3.00. Marborough, \$2.00; Italia, \$1.50; A. Bonvier, \$2.00; C. Handerson, \$2.00; Egsdale, \$1.00 per 100. Will exchange for Enohantressa, Boston Market or Guardian Angel Carnations

J. H. DANN & SONS, WESTFIELD, N. Y.

FOR SALE

5000 Alternanthera 8000 Echeveria

Address JOHN LAPPE MASPETH L. I.

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POINSETTIAS

2 1/2 in. pots, \$5.00 per 100; \$40.00 per 1000. 5 per cent discount on all orders received before July 1st accompanied by cash. July and August delivery.

S. N. PENTECOST, 1790-1810 EAST 101st ST., CLEVELAND, OHIO

Sweet Lavender

fine plants, 2 in. pots, 1 year old, 6c. ASPARAGUS all sold.

R. C. HANFORD, Norwalk, Conn.

A RECORD TO BE PROUD OF

The Florists' Hall Association has paid 1,040 losses amounting to \$102,000.00 For particulars address,

JOHN G. ESLER, Saddle River N. J.

CLUB AND SOCIETY DOINGS.

THE COLUMBUS FLORISTS' CLUB held its May meeting Tuesday evening the 14th, in the Brent building. President Sherman F. Stephens was in the chair, and every other officer was on hand, besides a large gathering of members. The ladies were also well represented. The committee reported that they had practically selected Buckeye Lake for the outing, and that so much interest had already been manifested, that the filling of two special cars seemed assured even now. While the date of the picnic has not yet been decided upon, it will probably be in July. M. B. Faxon, for the seed committee, made a partial report, showing that up to the present time over three thousand children have been supplied with seeds for the school and home gardening work. President Stephens told of his visit to one of our largest schools, and how greatly interested all the scholars were in the work.

At this meeting, the showing of plants and flowers being the last one of the season, the members took pride in making an especially good display. The committee, Messrs. Jacob Reichert, Albert Hills, William F. Metzmaier, Charles Buëbler, and John Brust, awarded the following point prizes: For a very finely grown Bridesmaid rose, in a six-inch pot, and in bloom, John Williams received twenty points. I. D. Siebert exhibited a well-grown specimen of *Pandanus utilis*, which received fifteen points. Mrs. John Williams, for a very nicely grown Tarrytown fern, which was perhaps the choicest exhibit made, received fifteen points, also honorable mention. So much have these displays added to the pleasure of the meetings, that they will likely become a permanent part of our club evenings. After the routine business had been transacted, a very pleasing program of music and singing was arranged, and rendered by the visiting ladies, which was greatly enjoyed.

I. D. Siebert, on behalf of The Fifth Avenue Floral Company, invited the club to visit and hold the next meeting at their greenhouses, on Monday evening, June 3.

The entire craft agree that our Memorial Day business will be of record proportions. F. W.

NEWPORT (R. I.) HORTICULTURAL SOCIETY.—A regular meeting of this society was held last Tuesday evening, President Butterton in the chair. The committee on special premiums, composed of John T. Allan, Alex. MacLellan, David McIntosh and the president, reported having organized and made satisfactory progress. Col. A. R. McMahon, from the committee on the memorial for the late Congressman Adams, reported that the committee had completed its work and the contributions forwarded to Professor Wheeler. The president announced the appointment of Alexander MacLellan, John T. Allan, and Daniel Coughlin as judges for the June exhibition. The work of the inspector recently here in search of the gypsy moth came up for discussion and the unanimous expression of opinion was that the men did the work of examination thoroughly with the result that no sign of the moth was apparent nearer Newport than Bristol.

If the weather conditions do not change radically in the near future steps will be taken at the next meeting for the postponement of the rose show to a later date than that announced. D. M.

THE NASSAU COUNTY HORTICULTURAL SOCIETY met on May 8, 1907, President Mackenzie in the chair. The plans for the flower show to be held in the Fall were talked over. Mrs. Paul Dana has promised books valued at \$20, as a prize. Rickards Brothers of New York have offered \$10. W. H. Browne of Glen Cove, has given \$5 as a prize for the best dabbias shown in October. J. F. Johnston spoke on "The Best Time to Plant Evergreens." Mr. Mackenzie showed Richmond roses, Mr. Cleres American Beauty and carnations were exhibited by H. Matz and Felix Mense, besides exhibits by other members.

The meeting hour has been changed from three to seven thirty o'clock.

THE MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY held its regular meeting on May 17, President W. Kennedy in the chair. The discussion of the evening was on the chrysanthemum show, which will be held on October 31 and November 1, probably in the Lyceum, Red Bank, N. J.

Wm. Turner exhibited some grand carnations, among others, Robert Craig, with 2½-foot stems. He also exhibited seedling melons which weighed nine pounds—a really grand melon. He has three melon houses, and ripe melons can be seen there at any time of the year. He prefers his own seedling to any other variety, especially for winter forcing. The outlook for the Fall show is even better than last year. B.

Spring Show at Los Angeles.

The Spring flower show of the Southern California Horticultural Society was held in a large skating rink from the first to the fifth of the month inclusive. The place was an ideal one—large and roomy, and the roof being largely of glass gave plenty of light during the day, while hundreds of electric bulbs and two arc lights furnished a flood of light during the evening. There were few exhibitors, and the display of flowers was the smallest seen at any show the society has yet held. No premiums were offered, and as a matter of course there was no competition. The management seemed to think it best to issue but a single admission ticket to all members of the society, not even extending the courtesy to their wives, the result being to bring down the wrath of the membership upon the heads of the directors. Those of us who have been accustomed to all the privileges of such organizations have been led to wonder why this "penny wise and pound foolish" policy was adopted. Edward H. Rust, proprietor of Palm Nurseries, and Dietrich & Hnston had fine collections of palms, araucarias and other decorative plants, both for the house and garden. The Rust collection was all properly labeled which added to its value to prospective planters. Howard & Smith occupied one



Cosmos

Photo by G. H. Hale.
See Timme's Timely Teachings in this issue.

entire end of the rink with their exhibit. They are giving the people of Southern California an object lesson in what may be done with bamboos, both from an artistic and utilitarian point of view. A unique idea of his firm, and one that there was money in, was hundreds of tiny hanging baskets about two inches across and an inch deep, containing a small begonia of the Vernon type in flower which sold about as fast as they could hand them out while the supply lasted.

Rising & Dunscomb had a fine exhibit of field-grown carnations, and the Whittlesey Floral Company a fine lot of cover-grown flowers. Their Prosperity measured over four inches in diameter. A beautiful exhibit was that of the Signal Hill Floral Company; it was entirely of yellow flowers—*Coreopsis lanceolata*, yellow centaureas and *Leptosyne maritima*, a native plant of great beauty. The wonder is that this plant has not been introduced to the trade and brought into cultivation long ago. The flowers are two inches in diameter, of a lemon color, borne on stems a foot or more long. At first sight they may easily be mistaken for yellow single flowering dabbias.

Theodore Payne exhibited some fine specimens of *Philocereus senilis*, and echinocactus, some one-year seedlings of the latter about the size of a walnut, did not show character. The plant thief was abroad and stole most of these small plants. Mr. Payne's exhibit of wild flowers was very fine, and being named was all the more interesting. The most attractive in the collection were two varieties of *Pentstemon*—*spectabilis* and *astranthifolius*—*Gillia achillaeifolia*, *Antirrhinum coarctatum*, *Phacelia Whitlavia*, *Audibertia grandiflora*, *Bloomeria aurea*, which resembles the flowers of *Scilla peruviana*, though yellow in color, *Collinsia bicolor*, and *Abronia umbellata*. This last named plant covers acres of sandy waste along our coast. Mr. Payne is the only seedsman on this coast who makes a specialty of native flower seeds and plants.

T. Lambert, Sierra Madre, had a fine collection of sweet peas and Spanish iris, all of which were named to the satisfaction of those who care to know the identity of varieties, and are guided thereby in future planting.

John Lewis Childs had on exhibition from his South Pasadena garden some fine blooms of the different varieties of amaryllis which are very popular on this coast where they can be grown without protection during the Winter season, and because of that fact multiply rapidly. He also showed a number of the new dwarf Phoenix Roebeleni. P. D. BARNHARDT.

Our London Letter.

By A. Hemsley.

RAMBLER ROSES.—We are still getting additions to this popular class of roses, among the latest being a German variety named *Tausendschön*, flowers larger than those of most of the type and of a pleasing shade of rose pink. It appears to be very free, and the large clusters of bloom last remarkably well, the petals drying off on the plant instead of falling off. *Hiawatha* is evidently going to prove useful for early work. J. Green, (Hobbies, Ltd.) has shown it in grand condition. *Lady Gay*, on tall standards with drooping clusters of bloom, has been grand. The old *Crimson Rambler*, however, still holds its own. Messrs. T. Rochford & Sons were obtaining 25 shillings each for some trained umbrella shape and well-flowered. Those grown erect and reaching from five to eight feet high are much in demand; they are used for the decoration of balls, staircases, etc. Where tall palms were formerly employed these roses now take their place; or sometimes they are over-topped with tall thin plants of *Cocos flexuosa*.

Among the dwarf polyantha roses we have *Aennchen Müller*; this was well shown recently by Messrs. W. Paul & Son. The flowers are of a pleasing shade of deep pink with petals curled; not by any means a florists' flower, but most effective for decorations.

CARNATIONS.—Nothing very remarkable has come forward recently. *Crimson Glow*, as shown by Messrs. Cutbush & Sons, appears to be of great promise. Compared with the President it is certainly an improvement. Robert Craig has been splendidly shown by the same firm, the pot plants being remarkably vigorous and the bright flowers of large size. *Jessica* was also well shown and gained an award of merit; this is the largest of the striped varieties I have seen.

FUCHSIAS.—In the market we get very few of the newer varieties that prove useful. Such sorts as *Ballet Girl*, *Royal Purple*, *Gertrude Pearson*, *Lady Heytesbury*, *Avalanche*, and other old sorts still remain favorites. Standards of these are now much in demand, especially for garden work; standing above dwarfier subjects they are very effective.

I find H. J. Jones has gone in for all the new hybrids of the triphylla type, and as seen in young plants they appear very promising. The foliage of many of them is very effective, and some of them come into flower quite early. Fuchsias are certainly coming to the front again, and anyone introducing improved varieties would find a ready sale for them.

PELARGONIUMS.—The show varieties of these, which were so popular a few years ago, find but little favor at the present time, yet no doubt they will soon be wanted again. As an instance I may say that while it is difficult to clear really good show varieties in the market at 12 shillings a dozen, Ivy-leaved Galilee, in well flowered plants, sell readily at 18 shillings. These from Mr. Mott are remarkably fine. Zonals are also much in demand, and we are getting good supplies of beautifully flowered plants, chiefly of the semi-double varieties, but I have not yet noted anything specially new or novel.

METROSIDEROS FLORIBUNDA.—This old plant is now a favorite and as shown by Messrs. H. Low & Company it is certainly useful; the flowers last so well, besides being most effective.

SCHIZANTHUS WISETONENSIS is another plant receiving much attention, and has been considerably improved since its first introduction.

NARCISSUS.—We continue to get further improvement in the large trumpet daffodils, and those which we had a year or two ago sustain their high quality. I have before me blooms of *King Alfred* and *King's Norton*. The latter is a trifle larger, but the first named is very rich in color and has a perfect trumpet, and it has proved as free as *Emperor*, which has long taken the lead as a yellow for market. H. J. Veitch and Van Waveren's *Giant* are other promising sorts. The poetic ornata type has received great attention. W. T. Ware's introduction, *Miss Willmott*, which recently received an award of merit, is decidedly the finest thing we have seen. The flowers are of great size, perfect in form, and have a richly colored cup. The value of new narcissus may be estimated by the price of this variety which is put up at £30 per bulb.

Poughkeepsie, N. Y.

There are a good many florists in this city. Those doing a general plant and cut flower business are W. G. Salford, Murphy & Shaumburg and M. J. Lynch, who each has an attractive store on Main street.

A. S. Fricker has a store in connection with his cut flower producing plant further out, at 635 Main street. The remainder identified with the trade here are all violet growers.

While there are a good many violets raised in Poughkeepsie all the growers yield the palm to Rhinebeck as the greatest violet producing district on the Hudson. Yet one of the most extensive establishments, where violets are exclusively grown, is that of B. Willig here, which is conceded to be the finest on the Hudson River. Mr. Willig has been growing violets for the past fourteen years. He has a model establishment consisting of four iron frame greenhouses of the Hitchings construction now in their second year. Each house is 251 x 38 feet. There are five 5-foot beds running the entire length of each house. These beds contain approximately 50,000 flowering Marie Louise violets—no other variety is grown. The plants are grown with some exceptions in solid beds about 2½ feet high. About 12 to 14 inches of the top soil is removed annually before planting the new crop which are all usually in their flowering position each year by July 4. Once every three years the entire soil is removed. As an experiment, the past season Mr. Willig has planted each alternate bench in one house on an ordinary raised bed with board bottom, using about six inches of soil. To stand at the end of one of these long houses and look down the full length of the beds, the difference in favor of the raised or board bottom benches could be seen at a glance. The plants on the raised benches looked rich and luxuriant while those on the raised solid beds in 2½ feet of soil looked a little less robust and of a paler green color.

The preparation of the soil for these benches is quite an important matter in successful violet culture. The soil used each season has undergone a two years' preparation before it ever enters the greenhouses. Soil preparation, watering, and temperature are the most important matters to be studied. A night temperature of not over 45 degrees is aimed at during coldest weather. Some ventilation is given daily the entire winter through. Rain and damp weather is more to be feared than cold. Side ventilation is given in wet weather, as the ridge ventilators open at the apex and rain entering would be harmful to the plants.

One point of interest is that Mrs. Willig and four well-trained girls attend to the entire house culture of the violets after the soil is brought in and the plants set where they have to grow and bloom. Mr. Willig attends to the soil preparation, fringing and shipping and all matters on the outside.

The week preceding Easter there were gathered from these four greenhouses 185,000 violets and for many weeks prior to and subsequent to that time the output varied but little.

The violet grower's occupation is no easy job. To pick and grade, bunch and pack that number of blooms weekly is no small task. Early and late trains have to be met so that in busy seasons six hours' rest is about as much as one gets when operating a violet producing plant of this capacity.

The packing of the flowers is also an art in itself. Deep corrugated boxes are used of sufficient depth to allow of two tiers of bunches. Those in the first tier are placed stems upward; over these is placed a rack of very light wooden material, with a leg on each corner to prevent it from pressing on the lower tier of benches. Through the openings in this rack the stems of the top tier are placed. These stems fit in between the upturned stems of the lower tier and as a matter of fact the entire shipment is in this way dovetailed. Only two tiers are used in largest shipments. Boxes are made to hold 500, 1000, 1500 and so on up to 2,500, with racks to fit. The braces of the racks prevent the violets slipping in any way, as well as preventing crushing. This system of packing is the invention of Mrs. Willig. The greater part of one house is de-

voted to propagation which begins usually in January and is kept up until late in the Spring. The girls are all adepts at this work. Each one uses a scissors in removing the runners. No pulling or tearing of the plant would be tolerated by any of these growers. The cuttings are rooted in the ordinary way on a propagating bed, and when rooted are transplanted in rows about two inches apart on beds specially prepared for that purpose. Here they remain until they are ready to transplant to the flowering benches. Pots are never used. The successful violet growers have no time to study ancient history; there are no dead men or mummies in their ranks.

J. M.

Newport, R. I.

News and Trade Notes.

As Memorial Day draws nearer the indications point to a larger business than in former years in plants and flowers. These indications are in the shape of a goodly number of orders already in the hands of florists for the placing of plants and flowers on graves and plots on that day.

For a week or two the cut flower business was rather quiet, but it has picked up wonderfully in the last few days, probably by reason of the fact that there are a number of recent arrivals of the class to which regular supplies of flowers appear in the light of necessity. After Memorial Day there will be a decided change in business conditions here, and there is no doubt but the growers in other sections will soon after feel the force of it in the number of orders they will receive from the florists who will open their stores on the avenue before that day.

It is understood that several florists are making arrangements to open early this year. Joseph Leikens has everything already fixed for an early opening. Mr. Smythe is here so often now that doubtless the matter has had his attention in detail.

Mr. and Mrs. Carl Jurgens, Jr., have returned from a visit to the Jamestown Exposition where they enjoyed themselves immensely.

J. Warren Spaulding of the J. M. Hodgson Company visited Newport last week and gave attention to urgent business of the firm.

Stock for bedding looks remarkably vigorous in the premises of dealers and private gardeners alike at this time, but there seems to be a shortage in some lines which will have to be made up from outside sources. It is very hard to tell accurately in advance the number of any one kind to be planted here, because minds change quickly and sometimes at the last moment upsetting the most carefully made guesses and calculations.

In the early Spring it was thought begonias might be in extraordinary demand for bedding this Summer, with the result that some growers sowed an abnormal quantity of seed; but the advance orders so far are no more than ordinary, which has caused one or two of the growers to cease working on begonias in the way of re-planting and potting. Now if the demand comes on good and hard those with a lot of stock, jammed in unshapely masses in flats, will not feel the benefit of it. English ivy is now in brisk demand in good size plants for planting outdoors immediately; there is a considerable quantity of the stock grown here but not nearly sufficient for the local market.

Many craftsmen in Newport, including the writer, were grieved exceedingly by the news of the serious illness of Samuel Henshaw, and the announcement last week that an improvement in his condition was noticeable was gratifying indeed. Mr. Henshaw impressed all with whom he came in contact while in Newport by his genial and kindly personality as well as with the feeling that he was a noble specimen of the best type of horticulturist. While calmly viewing some of the places here it was pleasing to note that Mr. Henshaw criticised nothing, but where any opening appeared for a word of approval he was ready to utter it, especially if the matter concerned a young man or a man working under difficulties. Mr. Henshaw is the kind of man the world is the better of because of his living in it, and it is hoped that he will be enabled to stay with us all quite a while yet.

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Middletown on rather exposed ground making the stock grown thereon especially valuable for planting finally in likewise exposed places. Mr. Vanicek of these nurseries is thinning out his stock to an amazing extent these days; frequently his teams can be seen heavily laden on the way to the depot, or to the grounds of private residences. D. M.

RALEIGH, N. C.—Last week, in the First Presbyterian Church, Miss Emily Clara Steinmetz, oldest daughter of the well known florist, H. Steinmetz, was married to Dr. Guy Alexander Roberts. The church decorations were especially artistic and attractive. Around the pulpit rostrum and extending to the side entrance of the church were great stands of palms, ferns and choice flowers. The arrangement about the pulpit rostrum was in luxuriance, the conservatory lower effect being beautiful. In profusion were great palms, Boston and Piersoni ferns, American Beauty roses, Lilium

longiflorum, carnations, flowering spiraeas and smilax. There were festoons of smilax and ferns above the rostrum and pendant from the chandeliers at the front of the church. The steps of the pulpit rostrum were in white, banked with magnolia leaves.

The bride, who is a brunette, carried a bouquet of orchids, with a show of lily of the valley. The bouquet of the maid of honor, Miss Matilda Steinmetz, sister of the bride, was composed of Bride roses and violets. After the wedding, Dr. and Mrs. Roberts left for Washington, Philadelphia, New York and other points North for a two weeks' honeymoon trip, after which they will return to Raleigh to reside. Both are popular young people and the profusion of the most lovely wedding gifts attest the love and esteem of friends. Dr. Roberts is the assistant Professor of Zoology and Anatomy at the A. and M. College and has a host of friends, as has also his charming bride.

GERANIUMS—GERANIUMS

READY MAY 1.
In bud and bloom. S. A. Nutt, La Favorite, Beauty de Poitevine, Mary Hill, A. Ricard, John Doyle, Jean Vlaud, Marquis de Castellane, and other good varieties. 3½ in. pots, \$3.00 per 100.
CANNAS, Florence Vaughan, Charles Henderson, Queen Charlotte, Duke and Egandale, 4 in. pots, \$5.00 per 100
HELIOTROPE, 2 varieties, 3½ in. pots, \$5.00 per 100.
HELIOTROPE, two varieties, 2½ in. pots, \$2.00 per 100.
VERBENAS, 3 in. pots, \$2.50 per 100.
SINGLE PETUNIAS, large flowering, 3 in. pots, \$2.50 per 100.
PARLOR IVY, 2½ in. pots, \$2.00 per 100.
AGERATUM, dwarf blue, 2½ in. pots, \$2.00 per 100.
VINCA, variegated, 2½ in. pots, \$2.00 per 100.
NASTURTIUMS, in variety, 3 in. pots, \$2.50 per 100.
SALVIA SPLENDENS, 2½ in. pots, \$2.00 per 100
PELAGONIUM VICTOR, 3½ in. pots, \$7. per 100. Cash with order.

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GERANIUMS GERANIUMS

The following varieties in 4-in. pots, in bud and bloom, in fine condition:
S. A. Nutt, Beauté Poitevine, La Favorite, John Doyle, Bruanti, Mx. Castellans, Trego, Mme. Buchner, Richard Brett, Ricard, Francis Perkins, Jean Vlaud, Double Grant, Mar. De Montmort, and several others, \$6.00 per 100. The selection of sorts to remain with us.
Cash must accompany all orders.

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MAMMOTH VERBENA, 2½ in., in large bud, \$1.25 per 100; \$10.00 per 1000.
SALVIA SPLENDENS, 3 in., \$3.00 per 100.
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Little Beauty, 3, 2½ and 6 in., 6, 7 and 12c. Mixed standard varieties, early bloomers, 3 in., 6c.
FERNS, Boston, 2½, 3, 4, 5 and 6 in., 4c., 8c., 12c., 25c. and 26c.; Pierosii, 4 and 5 in., 12c. and 25c.; Scottii, 6 in., 25c.; Barrowsii, 3, 4 and 6 in., 12c., 18c. and 35c.
VINCA MAJOR, 3 in., 6c. and 8c.; 4 in., 8c. and 10c.
POINSETTIAS, June delivery, 2½ in., \$5.00 per 100; \$45.00 per 1000; 3 in., \$7.00 per 100, \$65.00 per 1000.
Dracaena Indivisa, 4, 5 and 6 in., 10c., 20c. and 25c.
Adiantum Croweanum, 6 in. and 7 in., 60c. and 75c.
Ficus Elastica, 6 in. and 7 in., 50c. and 75c.
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Oculata, dark eyes	.30	.50
Sanguinea, blood red	.40	.75
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Fringed mixed colors	.30	.50
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MEMORIAL DAY

As Memorial Day falls on Thursday, May 30, we respectfully request our advertisers and correspondents to have their "copy" in our hands not later than Wednesday forenoon, May 29. Kindly give this matter your best attention.

BOXWOOD

Bushes per pair, 60c., 75c., \$1.00, \$1.25 and \$1.50. Pyramids per pair \$3.00.
English Ivy, \$2.00 per doz., \$15.00 per 100.
Anthericum, variegated for vases, \$1.50 per doz.
Aspidistras, green, \$12.00 per doz. In 6 in. pots; \$18.00 per doz. in 6½ in. pots.
Latanias or Livistona Sinensis, 7 in. pots, \$15.00 per doz.; 8 in. pots, \$18.00 per doz.
Dracaena Indivisa, 5½ in. pots, \$4.00 and \$6.00 per doz.
Crimson Ramblers and Dorothy Perkins, fine plants in bloom, \$12.00, \$18.00 and \$24.00 per doz., 6½ in., 7 in. and 8 in. pots.
Dracaena Fragrans, 6 in. pots, \$6.00 per doz.
Asparagus Sprengeri, 3½ in. pots, \$1.25 per doz., \$10.00 per 100.
Ardisia Crenulata, fine plants for fruiting, 4½ in. pots, \$50.00 per 100.
Kentias, 60c. up to \$15.00 all sizes. Combinations, \$3.50 to \$10.00 each.
Arnuccaria Excelsa, \$2.00 to \$3.00 each, 3 in. and 3 in. pots.
Arnuccaria Glauca, \$3.00 per doz., 3 tiers. Compacta, \$10.00 per doz., 3 tiers.
Arnuccaria Plumosa, 1 ft. high, \$12.00 per doz. Small Araucarias, \$6.00 and \$9.00 per doz.
Fern Balls, 6 in., \$4.00 per doz.; 8 in., \$9.00 per doz.
Bridal Myrtle, 4 in. pots \$2.00 per doz.; 6 in. pots, \$12.00 per doz.

Phoenix Canariensis, 2 ft. 6 in., 10 leaves, \$3.00 per pair; 3 ft. 10 in., 10 leaves, \$4.00 per pair; 3 ft. 4 in., 10 leaves, \$5.00 per pair; 3 ft. 4 in., 10 leaves, \$6.00 per pair.
Bay Trees, standards, 4 ft. 8 in. stem, \$5.00, \$10.00, \$12.00, \$15.00 and \$18.00 per pair. Pyramids, \$12.00 and \$13.00 per pair, 7 ft. to 8 ft. high.
Nephrolepis Whitmani, 6½ in. pots, \$12.00 per doz.
Hydrangeas, pink and blue assorted, \$6.00, \$9.00, \$12.00, \$15.00 and \$18.00 per doz., 6½ in., 7 in. and 8 in. pots.
Geraniums, red and white assorted, \$3.00 per 100.
Baby Ramblers, 4½ in. and 5 in. pots in bloom, \$25.00 and \$35.00 per 100.
Transplanted Asters, Perfection, Queen of the Market in four colors, \$4.00 per 100; \$35.00 per 1000.
Begonia Rex, per doz., \$2.00.
Chrysanthemums, from 2½ in. and 3 in. pots, \$6.00 per 100, assorted varieties, \$45.00 per 1000. Wm. Lager, Roi d'Italie, Robert Halliday, Mrs. Robinson, J. Jones, white; John K. Shaw, Col. Appleton, Glory of the Pacific, Golden Wonder, Mrs. Beucheler, Alice Byron, Ben Wells, Oakland, Mrs. Weeks, Mrs. Carrington, White Bonaffon, Fred. Peels; White Eaton, Dr. Enguehard, Dr. Gallo-way; Pompos, Rosinaate, Rhoda, Pink Pompon, Dawn, Tennessee Edna, Regulus, Model of Perfection.

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Ageratum, 4 best dwf. kinds	Per 100	1000	Palm, Latania Borbonica, 4 inch, doz.	Per 100	1000
Begonias, flowering kinds assorted	\$2 00	\$20 00	Palm, Washingtonia Filifera, 2 inch	\$1.50	\$8.00
Coleus, assorted 2 inch	2 50	20 00	Rubber Plants, 4 in.	\$2.50,	3 00
Coleus, rooted cuttings asst.	1 75	15 00	Ferns, Boston, 2½ inch	\$3.00 doz.	3 50
Fuchsias, asst. kinds	50	5 00	Ferns, Piersoni, large sizes,	\$8.00, \$10.00	12 00
Jasmine, assorted kinds	2 50	20 00	Ferns, Piersoni, 2½ inch	3 50	30 00
Jasmine, Maid of Orleans, double white	3 00	30 00	Ferns, Scottii, 2½ in.	4 00	35 00
Lantanas, best dwf. bedding kinds	3 00	25 00	Hardy Pinx, assorted 2 in.	2 50	20 00
Hibiscus, assorted kinds	3 00	25 00	Hardy Phlox, assorted field plants, best	3 50	30 00
Moonvines, white 2 inch	4 00	35 00	Honeysuckles, Haleana, Golden Leaf, and Scarlet Trumpet, pot plants	2 50	20 00
Lemon Ponderosa	3 00	30 00			
Orange Otsheite	3 00	30 00			
Salvia Splendens, 2½ inch	2 00	17 50			
Vinca Variegata, 2 inch	2 00	20 00			

ROSES Everblooming Teas, Climbing Teas, Hybrid Teas, Hardy Climbing, etc., Lady Gay and Baby Rambler

Send in your list of wants for best prices. Terms Cash with order. Liberal treatment.

THE REESER FLORAL CO., Urbana, Ohio

PLANT CULTURE

THE BEST BOOK FOR THE PLANT GROWER PRICE \$1.00
A. T. DE LA MARE PTG. & PUB. CO. LTD., 2-8 DUANE STREET, NEW YORK

Geraniums

From 3½ inch pots. 500 S. A. NUTT; QUEEN OF THE WEST, single scarlet, excellent bedder. Good Stock.

H. D. ROHRER,

Box 344, LANCASTER, PA.

100,000 GERANIUMS

Finest stock in the country; most in bud and bloom. Poitevine, Nutt, Buchner, Ricard, Castellane, etc., heavy, 3 in., \$4.00; 4 in., \$5.00; 4 in., extra large, \$6.00 per 100. Mme. Sallerol Geraniums, 3 in., \$3.00 per 100. D. Grant, strong, 3 in. \$3.50 per 100; 4 in., \$4.50 per 100.
Dreer's superb, single fringed Petunias strong, 3 in. in bloom, \$3.00 per 100.
Coleus, yellow, red and fancy, strong, 2 in., \$1.75 per 100; \$16.00 per 1000.
25,000 Salvia Bonfire and Splendens, large, 2, 3 and 4 in., \$1.75, \$2.50 and \$4.00 per 100.
Surplus Pots, Standard, 2 in., 3 in., 4 in., and 5 in., at \$2.00, \$3.00, \$5.00 and \$10.00 per 1000, packed.
Cash please. All stock guaranteed No. 1 or your money back. Extras added to help pay expressage.
Standard 2 in. pots, \$1.75 per 1000.
WM. S. HERZOG, MORRIS PLAINS, N. J.

GERANIUMS

S. A. Nutt, Bruanti, and Assorted colors, 4-in., \$6.00 per 100; 3-in., \$4.50 per 100; Sallerol, \$2.50 per 100.

CHRYSANthemUMS

White Shaw, \$3.00 per 100; \$25.00 per 1000. Yellow Bonaffon, \$2.50 per 100; \$20.00 per 1000. White Dreckham, (new), \$2.00 per doz. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

GERANIUMS

S. A. Nutt, A. Ricard, Frances Perkins, Beauté Poitevine. Extra fine 4 in. in bud and bloom \$3.00 and \$10.00 per 100. Salvia 4 in., \$3.00; 3 in., \$3.50; R. C. 75c. per 100. Alternanthera, 2½ in., \$2.50 per 100. Sweet Alyssum, in bloom, 2 in., \$2.50; R. C. \$1.00 per 100. Vinca Variiegata and Major, strong, 3 in., \$8.00 per 100. Cannas, McKinley, M. Berat, Austria, Egandale, Crown Prince of Italy, Queen Charlotte, 4 in., \$5.00 per 100. Caladium, 4 in., \$10.00; 6 in., \$20.00; 6 in., \$30.00 per 100. 26c. per crate for crating. Cash or C. O. D.

W. J. & M. S. VESEY, Fort Wayne Ind.

GERANIUMS

S. A. Nutt, La Favorite and assorted, in bud and bloom, 3 in., \$4.00 per 100; 4 in., \$6.00 per 100.
DRACAENA INDIVISA, 6 in. pot plants, \$2.00 per doz. Cash with Order.

GEORGE H. BENEDICT, YORKVILLE, N. Y.

GERANIUMS

3 in., \$2.50 per 100; 4 in., \$5.00 per 100. BOSTON FERNS, fine, 3 in., \$6.00 per 100. CHRYSANthemUMS, 2½ in., \$2.00 per 100; Bonaffon, \$1.25 per 100. SALVIA and HELIOTROPE, 2½ in., \$2.00 per 100. CANNAS, \$1.60 per 100. Cash with order please.

W. H. PARSIL, R. F. D. No. 8, Chatham, N. J.

GERANIUMS

3000 Gen. Grant, 3 in., \$4 per 100. 5000 Gen. Grant, 4 in., \$6 per 100. 5000 Nutt, 4 in., \$6 per 100.
Cannas, 1000, A. Ricard, Queen Charlotte, President McKinley.
Asters, 5000, 2½ in., separate colors, Sample's. All grown for home trade.
A. No I stock
R. A. ELLIOTT, Morristown, N. J.

GERANIUMS

RICARD, POITEVINE, VLAUD, DOYLE, 3 in., bushy plants, \$4.00 per 100. Rooted cuttings, \$10.00 per 1000. Cash with order.
PETER BROWN, Lancaster, Pa.

BEDDING STOCK

Salvia Splendens and Bonfire, 2 in., \$2.50 per 100; 3 in. \$4.00 per 100.
 Begonia, Vernon and Fairy Queen, 2 in. \$2.50 per 100.
 Fetunia, Mixed Seedlings, 2 in. \$3.00 per 100.
 Lobelia Speciosa (Trailing) and Crystal Palace Compacta, \$2.50 per 100.
 Alyssum, Little Gem, 2 in. \$2.50 per 100.
 Verbena, Mammoth Flowered mixed, \$2.50 per 100.
 Forget-Me-Not's in variety, \$2.50 per 100.
 Cobaea Scandens, 2 1/2 in. \$4.00 per 100.
 Browallia Speciosa Major, 2 in. \$3.00 per 100.
 Alternantheras, Red and Yellow, 2 in. \$2.50 per 100.
 Hardy Pinks, 2 in. \$2.50 per 100.
 Clothilde Souper Rose, 2 1/2 in. \$3.00 per 100.
 Rose, Kaiserin A. Victoria, 2 1/2 in., strong, \$3.00 per 100; \$25.00 per 1000. Grafted Stock from 3 in. \$8.00 per 100.
 Grevillea Robusta, 2 1/2 in. 6 to 8 in. high, \$3.00 per 100.
 Nephrolepis Elegantiissima, 2 1/2 in. \$2.50 per 100.
 English Ivy, 4 in. pots, 3 to 4 ft. tops, \$4.00 per 100.
 Flowering Begonias, Thurstoni, Metallica, Argentea Guttata, Nitida, Otto Hucker, Rubra, etc., \$3.00 per 100.
 Cobaea Scandens, 2 1/2 in., staked, \$4.00 per 100.

The STORRS & HARRISON CO.,
 PAINESVILLE, OHIO.

40,000 VERBENA PLANTS IN BUD AND BLOOM

Our Selection \$2.50 per 100; \$20.00 per 1000
 Purchaser's Selection \$3.00 per 100; \$25.00 per 1000
GRAFTED ROSES, the Finest and Best Crown
 Liberty, Richmond, La France, Killarney... 3 1/2 in. pots... \$18.00 per 100
 Bride, Bridesmaid, Golden Gate, Kaiserin { 3 1/2 in. pots... 15.00 per 100
 { rose pots..... 10.00 per 100

ROSES, Own Roots

Bride, Bridesmaid, Perle..... 3 in. pots, \$7.00 per 100
 La France, American Beauty..... 3 in. pots, \$9.00 per 100
 100 Ivory, 100 Wootton, 100 Bon Silence, 100 Meteor, 100 Marshal Niel, 300 Liberty in 3 in. pots, which we offer at \$5.00 per 100. Good stock.
 200 Golden Gate, in 3 in. pots at..... \$7.00 per 100

THE DILLON GREENHOUSE MANUFACTURING PLANT FOR RENT OR SALE.
 Mail all inquiries to

J. L. DILLON, BLOOMSBURG, PA.

BELGIAN PLANTS, FINEST STOCK, LOWEST PRICES

Order Quick Quick Delivery

Araucaria excelsa, fine plants, \$20.00 per 100 up.
 Rhododendron Hybrids, 24 named varieties, \$18.00 per 100 up.
 Aucuba japonica, \$10.00 per 100 up.
 Aspidistras green, \$4.00 per 100 leaves.
 Aspidistras variegated, \$7.00 per 100 leaves.
 Rubber Plants, (Ficus elastica). \$9.00 per 100.
 Kentias, Arcas, Latanias, Phoenix, etc., etc. from \$7.00 per 100 up.
 Bay Trees, from \$3.00 per pair up.
 Azaleas, Dracenas, etc., etc.

F. O. B. Ghent, if unsold on receipt of order. Write for Catalogue.

L. VAN STEENKISTE

HORTICULTURE INTERNATIONALE 1 Dey St., Jersey City, N. J.

GERANIUMS

COLEUS

10 Varieties, my selection, 3-3 1/2 in pot \$5.00
 Alternanthera, red and yellow..... 2.00
 Asparagus Sprengeri, 2 1/2-in. pot..... 2.00
 Asparagus Plumosus Seedlings..... 1.25
 Asparagus Plumosus, 2 1/2 in. pot July 1, 2.00
 12 Varieties, my selection from pots. \$5.00
 2000 Smilax, July 1, 2 in. pots..... 1.50
 Chinese Primrose, July 1..... 2.00
 Obconica Alba and Rosa..... 2.00
 Forbesi..... 2.00

CASH

DELAWARE, O.

JOS. H. CUNNINGHAM,

ASPARAGUS

GERANIUMS

Robustus, Ideal for pots, pans and vases. Ready for 4 inch pots at \$5.00 per 100. Sample for 10c.

Rooted Cuttings ready May 20.

Plumose, Deflexus, Sprengeri and Smilax, ready June 15 to October 1. Send for price list before placing your orders for this stock.

Nutt, Buchner, Castellane, Francis Viand, Perkins, Janlin, Poltevine and Elcard. For the lot all varieties at \$10.00 per 1000. Send for price list for later deliveries.

ALBERT M. HERR,

LANCASTER, PA.

PLEASE STOP MY ADVERTISEMENT AND SEND BILL TO DATE. I AM WELL PLEASED WITH THE RESULTS.

VIOLET CULTURE

WILLIAM F. HALSEY, SOUTHAMPTON, N. Y.

Price, \$1 50 Postpaid

A. T. De La Mare Ptg. & Co. Ltd., New York

St. Louis, Mo.

News Notes.

We have with us this week Martin Reukauf, of H. Bayersdorfer & Company, Philadelphia; he is around booming the S. A. P. O. H. meeting, which takes place in his town this year, and we have promised him a good, big delegation.

The force at the wholesale houses had a strenuous time the past week taking care of the large shipments of outdoor stock that came in. At Kuehn's the boss has to help owing to the absence of George Schriefer. The stock here was large and of extra good quality. The shipments of Ammann, Edwardsville, Bell Miller and A. C. Canfield, Springfield, Ill., and Swan Peterson were large. The Kirkwood shippers loaded up Smith & Company with sweet peas and carnations; and Wilcox of Council Bluffs sent lots of Bride and Bridesmaid roses. Augemuller's shipments from Heller Brothers and Buckbee were expensive, but with all of them prices were low. Berning, too, had large shipments from his consignors, especially those of Dunford and Jablonsky.

For the funeral of the late Mrs. Hauser, wife of Daniel Hauser, president of the Globe-Democrat Publishing Company, the past week, the west end florists had a large amount of work, Miss Newman having the family order. It was stated by the daily press that nearly \$2,000 worth of flowers were sent from the local and out of town florists.

Chairman Smith of the trustees of the Florists' Club reports that all arrangements are now completed for the club's twentieth celebration, which will take place June 29, Saturday night. Notices of the doings will be sent to the members in time, so make no engagements for that night or you will miss a good time.

C. Young & Sons Company have had a very busy Spring season in plants, bulbs and seeds. Their mail order business is very large. The cut flower department, too, has had plenty to do in funeral work.

Messrs. Kuehn, Beneke and Ellison will wind up their bowling season with the city league next week, and it is said that other florists will form a team to roll in the Desoto Summer League commencing June 15. St. PATRICK.

EL PASO, ILL.—The El Paso Carnation Company has purchased the one-half block on which their greenhouses are situated from Mrs. Charles Bingner.

CYCLAMEN

Splendens Giganteum Hybrids

This strain has no equal or better, in five true colors, including fringed varieties, twice transplanted from flats \$3.00, from 2 1/2-in. pots \$5.00, from 3-in. pots \$7.00 per 100. Satisfaction guaranteed.

CANNAS

Pres. McKinley, Chas. Henderson, Chicago, Papa, Alphonse Bouvier, Queen Charlotte Egandale, J. D. Cabos, Florence Vaughan, well grown plants from 3-inch pots, \$4.00 per 100.

GERANIUMS

Alphonse Ricard, John Doyle, Castellane, Beauty Poltevine, E. G. Hill, Jean Viand, Mme. Jaubin, S. A. Nutt, La Favorite, etc., extra well grown plants in bud and bloom from 4-inch pots, \$7.00 per 100.

PAUL MADER, Pa.
 East Straudsburg, Pa.

We are now taking orders for a grand lot of **CATTLEYA TRIANAE**, 400 bulbs to a case, at \$5.00 net cash, per case, which we expect to arrive here some time in June. Will sell cheaper if ordered in quantities. Solicit correspondence. Same established plants of **CATTLEYA GIGAS, MENDELII, SCHROEDERAE** and **TRIANAE**; from \$2.00 to \$5.00 per plant.

JOHN DE BUCK,
 Collector of Orchids,
COLLEGE POINT, N. Y.

New Orleans, La.

News Notes.

At the last meeting of the New Orleans Horticultural Society, May 16, Harry Pnpworth, president of the Metairie Ridge Nursery Company, brought a plant of the new Nephrolepis Amerpohli, which was greatly admired for its refined beauty, and which created a discussion of the wonderful sports which the old Nephrolepis exaltata has given the horticultural world since the appearance of N. bostoniensis a few years back. The opinion was expressed that the limit has about been reached, although experts say that the sport from Anna Foster which C. Pble has is even finer than N. Amerpohli, although apparently not quite so strong a grower. James A. Newsham also brought a flower of Cattleya Downina from his last importation. Mr. Newsham, who is an old-time orchid collector and enthusiast, explained the history, habitat and cultivation of this magnificent member of the orchid family. It was reported that the society's secretary, C. R. Panter, had been dangerously ill, but happily was on the mend.

J. H. Menard was found busy the past week moving some large specimen washingtonias and phenix, from one private place to another.

Cassia corymbosa, which usually flowers in the Fall here, is at the present time in full bloom, literally a mass of rich golden blossoms. This is attributed to the dry Spring having ripened the wood which had not been touched this Winter. Another attractive plant which the mild Winter spared to us and which is blooming well at the present, is Solanum Wendlandii. This probably is one of the most attractive half hardy vines grown in the South, and undoubtedly the most beautiful member of the solanum family. CRESCENT CITY.

Washington, D. C.

News Notes.

Beginning with May 15 Washington is to have each year thereafter on the same date what is to be known as Firemen's Day. Chief Belt declares his intention to see that the grave of every fireman is kept green. The decorations this year consisted of twenty, two-inch wreaths, filled with galax and studded with roses, carnations and asparagus. The pieces were especially prepared by Gude Bros. & Co.

The more seasonable weather has caused an increase generally in the sale of plants, likewise in the production of cut flowers, but the demand has lessened and prices have gone down to those which usually prevail at this season. Of carnations there is an oversupply, owing to light demand; prices have fallen correspondingly. Such conditions bid fair to prevail until Memorial Day. Owing to the backwardness of the season, indications now point to a supply that will about equal the demand on May 30, as hardy flowers such as peonies and roses, most of which are then gone, or have to be cut and held back, will come in about on time.

Considerable hail fell on Sunday evening, but so far as has been learned, no damage was done other than to a few outside plants.

Wm. F. Gude was warmly congratulated on Tuesday of last week upon his selection as a director of the Chamber of Commerce of Washington. Mr. Gude received 267 votes, the largest number polled by any candidate. J. L. C.

EAST CAMBRIDGE, MASS.—W. A. Pritchard lost all four fingers of his right hand while working in the corn mill at the Cambridge Manufacturing Company on Monday morning, May 13, 1907. Mr. Pritchard's hand was caught in the rolls, and before help could reach him, the fingers had been taken off by the machinery.

Mr. Pritchard is very well known in Cambridge, having conducted a very successful business as a florist for a number of years past, and his large circle of friends greatly regret to learn of his injury.

IOLA, KAN.—J. W. Primer, Nevada, Mo., is now the proprietor of the old Harmon greenhouse plant. He has set out 3,500 carnation plants to meet the demand for that flower.

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER.

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or Other Wants; also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line 7 words to the line, set solid, without display. No advt. accepted for less than thirty cents.

Display advertisements in these columns, 15 cents per line; contain 12 lines space to the inch.

[If replies to Help Wanted, Situation Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]

Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—By a young man as foreman of a small rose growing place. References on application. Address H. T., care The Florists' Exchange.

SITUATION WANTED—By two men, gardeners, and a general greenhouse man. Single; best of references. Address, E. F., care The Florists' Exchange.

SITUATION WANTED—By a seedsman who is fitted to give satisfaction in any department, and is not afraid of hard work. Full particulars by addressing, A. B., care The Florists' Exchange.

SITUATION WANTED—By thoroughly practical experienced foreman, on a good private place. Highest references and full particulars on application to E. M., care The Florists' Exchange.

SITUATION WANTED—As foreman by first-class outflower grower. Roses my specialty. A No. 1 references; only first-class place wanted. Address, E. K., care The Florists' Exchange.

SITUATION WANTED—As working foreman, good grower of roses, carnations etc. First-class references, long experience. Northeast preferred. Address, E. W., care The Florists' Exchange.

SITUATION WANTED—By thoroughly reliable, practical man, position as head gardener on private place, 23 years' experience in England and America. Address, Wm. J. Potter, Niagara Falls, Ont.

SITUATION WANTED—As outside foreman on park or cemetery, by an American, 36, single. Capable of handling men, experienced gardener, and can work from a blue print. Address Edw. Raymond, 9 Felton St., Cambridge, Mass.

SITUATION WANTED—Florist and a gardener, competent grower of roses, carnations, chrysanthemums and general stock; 15 years' experience. Strictly temperate; young, single, German, commercial or private. Address, E. X., care The Florists' Exchange.

SITUATION WANTED—By young man, 32 years old, as foreman of nursery or park. Good all-around experience. Good at construction work and planting. Total abstainer. A hustler. Good treatment and good wages expected. References. Address, Landscape, care The Florists' Exchange.

SITUATION WANTED—By a good all-around greenhouse man, German, married, with small family; has a number of years' experience in carnations and chrysanthemums. Also good grower of pot plants; disengaged. Address, June 12, Address, D. G., care The Florists' Exchange.

SITUATION WANTED—By grower with fifteen years' experience in roses, carnations, chrysanthemums and pot and general stock. Can produce results and give good references. Kindly state full particulars and salary. Address, H. O., care The Florists' Exchange.

SITUATION WANTED—By an American as foreman. Age 30, married, competent to take charge and manage up-to-date place. First-class references. Specialties all plants for commercial purposes. Open for engagement June 1st. Would prefer a position of trust where a capable, live man is wanted. Address, care Florists' Exchange, H. S. C.

SITUATION WANTED—As working foreman, head gardener or superintendent. Twenty years all-around experience. Good grower of roses and other cut flowers, pot plants and nursery stock. Good landscape engineer. Total abstainer. Good worker. State wages; wages must be good. Massachusetts or Connecticut preferred. Address, Eastern, care The Florists' Exchange.

SITUATION WANTED—As foreman on a first-class place. Twenty years' all-around experience with roses and other cut flowers; also pot plants and nursery stock. Good landscape gardener; wages \$1200 a year and house. Total abstainer. A hustler. Good references. Vicinity of Boston preferred. Must have full charge of place. Address, Nurseryman, care The Florists' Exchange.

HELP WANTED

WANTED—Married man for section of roses, \$15.00 per week. Address, E. D., care The Florists' Exchange.

WANTED—A good, all-around greenhouse man, quick in potting. Highest wages and steady work for the right man. Hugo Book, Worcester, Mass.

WANTED—On large, up-to-date place, two young men with some experience in rose houses. Address, with references, E. E., care The Florists' Exchange.

WANTED—Two bright young men for Rose houses, steady position, \$50.00 per month, reference in first letter. Address, J., care The Florists' Exchange.

WANTED—A good man for taking charge of store and superintend hotel and decoration work. Address, I. H. Eisenberg, 440 Albert St., Long Island City, N. Y.

WANTED—A second man on commercial place, must be temperate, married, and would prefer one about 55 years old. Wages \$12.00 per week. Address, Harvey B. Greene, Lowell, Mass.

WANTED—Experienced rose and carnation growers to take charge of sections. Give references and wages expected in first letter. Lake View Rose Gardens, Jamestown, N. Y.

WANTED—At once, a florist of general flower and plant experience. 12,000 ft. commercial glass. Married man preferred. Cottage with garden. C. L. Dole, Lockport, N. Y.

WANTED—Experienced florist for general greenhouse work. Must be quick and willing to do anything. Wages \$12.00 per week. Frank McGowan, 228 Sunset Avenue, Utica, N. Y.

WANTED—By 1st of June, a good, steady, all-around florist; must understand growing roses and carnations; none but a first-class grower need apply. C. A. Schaefer, York, Pa.

WANTED—A good, all-around florist for a downtown retail flower store in Chicago. Must come well recommended. Address, E. F., care The Florists' Exchange.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets, in the middle West. Married man preferred. State age, nationality, wages, etc. Address, G. H., care The Florists' Exchange.

WANTED—A rose grower, wages, \$45.00 per month and one dollar for each full Sunday and full holiday worked. Twelve days' vacation with pay each year. Answer, giving age, nationality and experience, sending references. Benjamin Dorrance, Dorrance, Pa.

WANTED—Grower who is thoroughly familiar with the growing of Pandanus, Dracaena and a general large line of stove plants, with commercial experience. A good position for an active man who understands his business. Address, giving references, Henry A. Dreer, Riverton, N. J.

WANTED—Gardener to take interest in a modern greenhouse establishment of about 100 thousand square feet of glass. Must be able to invest from twenty to twenty-five thousand dollars. Correspondents must give some assurance of their reliability and business standing to insure prompt reply. Address, E. C., care The Florists' Exchange.

WANTED—A first-class florist; must be sober with push and up-to-date, and capable of taking full charge of a commercial place. One who can command good salary, which we are willing to pay to the right man. State experience, salary expected and when you could commence work. State nationality. Lock Box 67, Geneva, N. Y.

MISCELLANEOUS WANTS

BEAN POLES wanted, 500. State price. John Lewis Childs, Floral Park, N. Y.

WANTED—Catalogues with trade prices on beans, peas, etc. Jas. W. Grubb, seed grower for the trade, New Castle, Va.

WANTED—A copy of "Economic Plants," a author, John Smith. Address, P. D. Barnhart, 443 Euclid Avenue, Los Angeles, Cal.

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WANTED TO LEASE—On or about 15th of June, with privilege to buy, a commercial place, about 3,000 to 15,000 sq. ft. of glass; must have some ground and dwelling within 10 miles of New York City. Address, G. B., care The Florists' Exchange.

WANTED

Area Lutescens made up, bushy, 3, 4, 5, and 6 feet (natural position without pot), packed in cases, not crates, F. O. B., New York. Address, ALBERT LANGWIRTH, Dominguez, 17, Cerro, HAVANNA, CUBA.

FOR SALE OR RENT

FOR SALE—\$500 will buy greenhouses with 5,000 ft. of glass. For particulars inquire E. Y., care The Florists' Exchange.

Going to retire from business. I have a large stock of overblooming roses in 4-6 and 6 in. pots; a fine stock of geraniums in 4 in. pots; a large assortment of bedding and vase plants. Low prices for good stock. Address, George Wainwright, Trenton, N. J.

FOR SALE—Retiring from business, \$3000.00 buys about 6,000 sq. ft. of greenhouses with stock, in a lively Massachusetts town. 35 miles from Boston. A grand opening. Address, E. H., care The Florists' Exchange.

FOR SALE—Established florist business near cemetery; two greenhouses, 20x30 ft. and one 20x55 ft.; quarter acre ground; modern eight-room brick dwelling. Gas, bath, underdrained. E. M. Pallant, 1410 City Line, Oak Lane, Philadelphia, Pa.

FOR SALE—Two greenhouses, 190 x 20, one propagating house, 90 feet, 800 hot bed sashes, two market wagons, one horse. The greenhouses are stocked with carnations and bedding plants. Three family dwelling house, three acres of land; all improvements built last year; barn, tools, etc. The place is situated in the best district of Greater New York, trolley passing the door. A. Sauerwald, Juniper Avenue, Maspeth, L. I.

STOCK FOR SALE

SALVIAS all sold. R. Powell, White Plains, N. Y.

FUNKIA VARIEGATA, strong clumps, fine, \$6.00 per 100. H. Pladeck, Middle Village, P. O. Elmhurst, N. Y.

SALVIA 2 in., \$2.00 per 100. Extra strong, ready to shift. Joseph Wood, Springs Valley, N. Y.

FUNKIA VARIEGATA, extra strong stock at \$4.00 per 100 while they last. Order early, H. E. Le Page, Stamford, Conn.

GLADIOLI, Groff's Hybrids, May and others. Seed ad of March 23. Send for list. John H. Umpleby, Lake View, N. Y.

SWEET POTATO PLANTS, now ready; Yellow Jersey, Red Jersey and Big Stems, \$1.25 per 1,000; 35c. per 100. H. Austin, Felton, Del.

1500 AMERICAN BEAUTY PLANTS in 4 in. pots, at \$10.00 per 100; \$60.00 per 1000. Address, John Klotzmann, Madison, N. J.

ROSES, Bride, Bridesmaid, Ivory, 2 1/2 in., shifted from 2 in., \$3.00 per 100; \$26.00 per 1000. Wm. B. Sands, Lake Roland, Baltimore, Md.

EUONYMUS RADICANS VARIEGATA, 2,000 strong, two year plants. Cypripedium insignie, 65 strong, clean plants, in 7 in. pots. This stock can be bought cheap by any one taking the lot. Frank E. Witney, Fishkill-on-Hudson, N. Y.

ALTERNANTHERAS, three very best varieties, \$2.50 per 100; \$20.00 per 1000. English Ivy, 4 in., three plants in a pot, nice for cemetery work, \$6.00 per 100. Cash please. Eswell Kemp, 33 Grove street, Valhaurgh, Newark, N. J.

VIOLETS, Campbell, rooted divisions, strong, \$4.00 per 1000. Imperial divisions, \$5.00 per 1000. Asters, all the leading varieties, strong, transplanted plants, 7c. per 100; \$6.00 per 1000. Cash. Paul Thomson, West Hartford, Conn.

BABY RAMBLER ROSES, fine dormant stock, one year, \$12.00 per 100; 2 1/4 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1,000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

GARDENIAS, in 2 1/2 in. pots, ready for 8 in., \$3.00 per 100. Boston ferns, 5-5 1/2 and 6 in. pots, 25c., 35c. and 60c., large enough for 6 and 7 in. Scottell ferns, 5 and 5 1/2 in. pots, large enough for 6 and 7 in. pots, 30c. Boston and Scottell ferns, 8 in., \$1.00 each. Carnations, Queen Louise, from soil \$1.00 per 100; \$8.00 per 1000. Dracaena Indivisa, 4 in. pots, \$5.00 per 100. Strong rooted cuttings, English Ivy and Vinca Major, 75c. per 100. Heliotrope, 2 1/2 in. pots, \$2.00. Mamam Cochet roses, 2 1/2 in. pots, \$3.00 per 100. Chrysanthemums, 2 1/2 in. pots; all best and new varieties, \$2.00 per 100. Hardy Phloxes, nice field clumps, \$3.00 per 100, Cash with order. Brabander & Cornelis, Somerville, N. J.

Thirty cents is the minimum charge for advertisements on this page.

FOR SALE

FOR SALE—Greenhouse material and hot bed sash, milled from Gulf Cypress to any detail furnished. Made in U.S.A., specially made for greenhouse and hot bed sash. Y. E. Selch, 1429 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE—A complete, up-to-date greenhouse, 100 x 20, Furnam steam boiler, patent ventilator, cypress frame. Taken down ready for shipment. Price, \$500. Address, W. E. Ingalls, Bridgton, Me.

FOR SALE—A good twin, sectional cast iron boiler, has been used very little for hot water purposes. Will heat 10,000 feet of glass. It is a bargain for any one who wants a good heater. P. M. De Witt, Bridgewater, Bucks Co., Pa.

CHARCOAL SCREENINGS.

KEEPS SOIL SWEET.
Ask the editor, or send \$1.00 for 100 lb. bag. E. V. Sidell, Poughkeepsie, N. Y.

FOR SALE—Four greenhouses, to be taken down; possession to be given the first of July. One building is 30 x 140; one 15 x 140; two are 19 x 90 ft. long, with two hot water boilers and piping for the same. Property formerly owned by A. V. D. Snyder. Inquire of Andrew Van Orden, Ridgewood, N. J.

FOR SALE—Greenhouse to be removed. It is 90 x 20, has double thick French glass, 12 x 12. Giblin's Little Giant hot water heater, with all pipes, expansion tanks, etc. complete, and Hitching's ventilators in two sections. Mrs. E. S. Concklin, opposite Harlem Station, Amenia, Dutchess Co., N. Y.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousands feet were erected, and at present an shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing a large business all through the season. Address, E. Hippard, Youngstown, O.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. **KROESCHELL BROS. CO., 33 Erie St. Chicago**

FOR SALE

RETURN TUBULAR BOILERS 1-40 H. P. price, \$225.00; 1-100 H. P. price \$260.00. Above boilers have New York City police permit and guaranteed and insured 90 lbs. by Maryland Casualty Co.

PIPE Good serviceable second hand. No Junk, with new heads. 2 in. 7c.; 2 1/2 in. 14c.; 3 in. 18c.; 3 1/2 in. 21c.; 4 in. 24c.; 4 1/2 in. 27c.; 5 in. 30c.; 5 1/2 in. 33c.; 6 in. 36c. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy work—No. 2 cuts 1 1/2 in. \$4.00; No. 1 cuts 1 1/4 in. \$3.00; No. 3 cuts 1 1/2 in. \$4.00; No. 4 cuts 1 1/4 in. \$3.00; No. 5 cuts 1 1/2 in. \$4.00; No. 6 cuts 1 1/4 in. \$3.00.

PIPE CUTTERS Saunders, No. 1 cuts to 1 in. \$1.00; No. 2 cuts to 2 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed. 12 in. in. grips 2 in. \$1.60; 24 in. grips 2 1/2 in. \$2.25; 36 in. grips 3 1/2 in. \$4.50.

PIPE VISES Beed's Best Hinged Vise, No. 1 30.00; No. 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in. guaranteed; 3/4c.; 5/8c.; for heavy work, guaranteed; 12 1/2c.

HOT-BED SASH New; Gulf Cypress, 3 ft. x 6 ft. 80c.; glassed complete, 50c. per ft. Second hand sash \$1.25, good condition.

GLASS New American, 50 ft. to the box. 10x12 single at \$1.90, 10x12, 12x12 10x16 double \$2.62, 12x12 to 12x20 and 14x14 to 14x20 double \$2.78, 16x18 and 18x18 double \$3.00, 18x20 to 18 x 24 double \$3.25 per box. 8x8, 7x9, 8x10 old, single \$1.50, 8 x 10 old, single \$1.75, 10x14 second hand ground glass at \$1.60 per box.

MATERIAL AT WHITE PLAINS, N. Y.
From a 400 ft. sash house, one year old, consisting of 275 1 1/2 in. Cypress sash, 3 ft. x 8 ft. painted and glazed with 7 x 9 glass at \$1.40 each, 750 ft. side plate and 400 ft. ridge, 2 x 8, at 6 1/2c. ft. 240 2 in. x 3 in. 8 ft. sash rafters at 15c. each, 1600 ft. 2 in. black pipe, at 7 1/2c. per ft.
Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

NEW LOCUST POSTS 20c. each, 2 1/2 to 3 1/2 in. 7 ft. long, 4 ft. Locust Posts, 4 in. 60c. each, 8 ft. Locust Posts, 4 in. 60c. each.

METROPOLITAN MATERIAL CO.

Greenhouse Wreckers
1395-1408 Metropolitan Avenue, BROOKLYN, N.Y.

New York.

Lecture on Water Lilies.

On Saturday, May 18, at the Botanical Garden, Bronx Park, George V. Nash delivered an interesting lecture on "Water Lilies and other Aquatic Plants; their Relation to Horticulture."

News Notes.

Next Thursday is Memorial Day, and so far as New York and vicinity are concerned, there is evidently going to be a much larger supply of outdoor flowers for this occasion than has been the case for several years.

There is being placed on the market a device, in the shape of an electric fountain, that will, no doubt, appeal to such retail dealers as like to have a nice display during the Summer months.

Carnation growers have, in the main, gotten their stock planted outdoors by this time, and the season would seem to be a particularly good one for the young plants, as the continued cool weather will give them a chance to get well established before the hot days arrive, if by any chance we are to have any of these this year.

Wm. Tricker, who for some time has been located at Lyndonville, Vt., is now in charge of landscape work at West Side Park, Jersey City.

Visitors in town this week included Philip Breitmeyer, Detroit, Mich., accompanied by the secretary of the Park Board of that city, M. T. Hurlburt, and John Gibson, Newport, R. I.

The schedule for the seventh Summer exhibition of the New York Horticultural Society has been issued, and copies of same may be obtained from Secretary Leonard Barron, 55 Liberty street, this city.

The stated meeting of the society for the election of the members and such other routine business as may be brought before it, will be held in the lecture hall of the Museum Building, New York Bot-

anical Garden, on Wednesday, June 12, 1907, at 3:30 p. m. The council meeting will be held in the director's office, New York Botanical Garden, on Wednesday, June 12, 1907, at 2:30 p. m.

Arrangements are progressing favorably for an international conference on Plant Hardiness and Acclimatization, which will be held under the direction of this society, on September 30, and October 1 and 2 of this year, probably in the rooms of the American Institute and the Museum Building of the New York Botanical Garden.

It is intended to publish the full report of the proceedings in book form as Volume II of the Memoirs. N. L. Britton, H. A. Siebrecht, Patrick O'Mara, and Leonard Barron, are the committee in charge.

The fifteenth Annandale Rose Show will be held Wednesday and Thursday, June 12 and 13. The schedule of prizes has been issued by John W. Bain, secretary, Red Hook, N. Y.

At the last club meeting there was no vocal music nor a "talk on Cuba," as had been announced in a trade paper whose local correspondent dreams the most of his "news," and whose "prophecies," plethoric in number, are as unreliable as those of the average weather man.

Charles E. Robinson, late of the F. R. Pierson Company of Tarrytown, N. Y., has within the past few days joined the ranks of the Peekskill florists.

Dean Ferris has a few nice greenhouses as well as a small nursery of herbaceous plants. He grows carnations and a general line of bedding plants.

Lemuel Haines has a fine lot of pansies and geraniums that were selling like the proverbial hot cakes.

The names of E. McCord and Sidney Smith, listed as florists here, were unknown to all members of the craft your correspondent came in contact with.

GERANIUMS, VINCA VARIEGATA AND COLEUS

Table listing prices for Geraniums, Vinca Variegata, and Coleus in various sizes and quantities.

B. F. BARR & COMPANY, Keystone Nurseries, Lancaster, Pa.

GRAFTED ROSES

FINE STOCK. READY NOW.

Table listing prices for various grafted roses like Richmond, Killarney, and Etolle De France.

ROSES OWN ROOTS

Table listing prices for roses own roots like Richmond, Bride, and Bridesemaid.

CARNATIONS

Table listing prices for carnations from pots, including Winsor, Robert Craig, and Nelson Fisher.

CANNAS

Strong plants from 3 1/2 in. pots (30 fine named varieties) \$6.00 and \$8.00 per 100.

CHRYSANTHEMUMS

Table listing prices for chrysanthemums from 2 1/2 in. pots, including Ben Wells, Mrs. G. W. Childs, and Autumn Glory.

SEND FOR CATALOGUE

WOOD BROS., Fishkill, N. Y.

RIGHT HERE IN CONNECTICUT

Pot Grown Herbaceous Plants

Table listing prices for various herbaceous plants like Achillea, Alyssum, and Chrysanthemum.

HARDY ROSES

Extra Fine Stock (Low Budded).

Table listing prices for hardy roses like Ulrich Brunner, Mrs. John Laing, and Margaret Dickson.

NORTH END NURSERIES

Chester F. Brainard, Prop. Maple Street, Thompsonville, Conn.

WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses Greenhouse Heating and Ventilating Apparatus

P. O. Address, Box 789, New York City.

BRIDGETON, ME.—W. E. Ingalls has been burned out and gone out of business. He is offering his dismantled greenhouse for sale.

ASPARAGUS

Table listing prices for asparagus varieties like Plumosus Nanus and Sprengeri.

MISCELLANEOUS PLANTS

Ready For Immediate Sales

Large table listing prices for various miscellaneous plants like Achyranthes, Ageratum, and Geraniums.

VERBENAS

Best Mammoth, from pots \$3.00

Own Root ROSES 1 and 2 Year

Strongly rooted, well ripened young plants from early summer propagation, in prime condition.

2 1/2-in., \$2.50 100; \$22.50 1000; Brabant, Bride, Bridesmaid, Ivory, Kruger, Marie Van Houtte, Queen's Scarlet, Wichuriana, Baby Rambler.

THE LEEDLE FLORAL COMPANY

SPRINGFIELD-OHIO

ALTERNANTHERAS

In boxes, red and yellow, strong plants, \$2.00 per 100.

FRED HOLDERER, 257 Flushing Av., Astoria, L. I., N. Y.

Advertise in The Florists' Exchange and be sure of results.

Quantities of BLUE OTAKSA HYDRANGEAS FOR SALE

Beautiful Specimens 8 or 9 years old in Ivy green half-barrels, \$15.00, \$18.00, \$20.00 and \$25.00 per pair, according to size.

THE F. E. CONINE NURSERY CO., STRATFORD, CONN.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE

The Largest Growers of Chrysanthemums in America

Rooted Cuttings out of sand.

White		Per 100
October Frost, finest early white	.....	\$7.00
Estella	.....	1.50
Geo. S. Kalb	.....	1.50
Mrs. Robinson	.....	1.50
T. Eaton	.....	2.00
Mayflower	.....	1.50
Wanamaker	.....	1.50
Ivory	.....	2.00
Mrs. Swinburne	.....	2.00
C. Touset	.....	1.50
Mrs. Jerome Jones	.....	2.00
Polly Rose	.....	1.50
J. Nonin	.....	2.00
Yellow		
Monrovia	.....	2.50
Golden Chadwick	.....	3.00
Yellow Maydower	.....	1.50

		Per 100
Yellow Jones	.....	2.00
Yellow Eaton	.....	2.00
Col. Appleton	.....	1.50
Mrs. Geo. Beech	.....	2.00
Roi d'Italia	.....	1.50
Chas. Cronin	.....	2.00
Percy Plumridge	.....	1.50
Mad. Bonnaffon	.....	1.50
Oct. Sunshine	.....	1.50
Mourner	.....	1.50
Golden Beauty	.....	3.00

Pink		Per 100
L. Filkins	.....	1.50
Pink Ivory	.....	2.00
Rosier	.....	2.00
Lady Harriet	.....	2.00
Glory of Pacific	.....	1.50
Wm. Duckham	.....	1.50
Mrs. Perrin	.....	1.50

Roses from 2 1/2 inch pots

	Per 100	Per 1000	Per 100	Per 1000
Brides	.....\$3.00	\$25.00	Rosalind Orr English	..... \$4.00 \$30.00
Bridesmaids	..... 3.00	25.00	Chatenay	..... 3.00 25.00
Richmond	..... 3.00	25.00	Uncle John	..... 3.00 25.00

Pink(cont'd)		Per 100	Red	
Mrs. Mary Mann	.....	2.00		
Marie Liger	.....	1.50		
Monogram	.....	1.50		
Cash	.....	1.50		
Dr. Enguehard	.....	1.50	Intensity	..... 1.50
M. F. Plant	.....	1.50	Oakland	..... 1.50
J. K. Shaw	.....	1.50	Black Hawk	..... 1.50
V. Morel	.....	1.50		

WIETOR BROS., Wholesale Growers of Cut Flowers **51 Wabash Ave. CHICAGO**

Plant Notes.

ASPARAGUS DUCHENT is a valuable plant when grown, either for its use as a decorative plant or for cutting from, and it is exceedingly well suited for private greenhouses. It is of a vigorous, climbing habit, with striking shiny green foliage.

THE ALPINIAS are pretty plants and **A. Sanderæ**, which is of recent introduction, is especially handsome, the leaves being about five inches long and tapering in a novel manner at both ends. The color of the foliage is a deep but bright green with broad stripes of white, close together, from the mid rib to the margin.

BOUGAINVILLEA GLABRA WILLIAM K. HARRIS is destined to be extensively grown for purposes for which other varieties have but seldom been used. The foliage is beautifully spotted with creamy white, the spots in such numbers that it is a question, as the plant is sometimes seen, which color predominates.

PTERIS CHILDSII is one of the most beautiful if not the best pteris in cultivation; it is a very robust grower, with large fronds and the pinnae markedly dentated and undulated. This variety does not produce spores—a fact that will militate against it becoming very plentiful for some time to come.

FIGUS BANDURATA seems to be increasing constantly in the estimation of plant growers and buyers alike. This plant is not only unique and very decorative in appearance, but it also possesses a constitution that enables it to get along in a thrifty condition under unfavorable circumstances.

Chrysanthemums

Rooted Cuttings
J. Nonin, J. Jones, White Maid Dean, \$3.00 per 100. **Golden Wedding, Yellow Eaton, Timothy Eaton, Dr. Enguehard,** \$2.50 per 100. **Mrs. Duckham, Wm. Duckham,** \$2.00 per 100. 2-in. stock ready June 1; write for prices.
R. ENGLMAN & SON, Pittsfield, Mass.

CHRYSANTHEMUMS

Jerame Jones, Enguehard, Shaw, Touset, Nonin, Willowbrook, Pacific, Appleton, Intensity, Byron, R. C., \$2.00 per 100. **Strong 2 1/2 in. Jerome Jones,** \$3.00 per 100.
Clifford Burton DAHLIA ROOTS, \$6.00 per 100.

THE FLORISTS' EXCHANGE,
 Franklin & St. Paul Sts., BALTIMORE, Md.

Hydrangea Otaksa,
Asparagus Sprengeri,
Vinca Variegata, Smilax
 Strong, clean stock, out of 2 1/2 in.,
\$2.50 PER 100.

John C. Hatcher
 AMSTERDAM, N. Y.

Spring Bedding Plants

Crimson Ramblers strong, shapely plants with an abundance of flowers. 7-in., 50c., 75c., \$1.00 each.
Baby Ramblers, 5-in., 20c., 25c., each; 6-in., 35c., 50c. each.
Cannas, strong plants, \$10, \$12.50, \$15, \$20 per 100.
Crotons, assorted varieties, \$25, \$35, \$50 per 100.

Hydrangeas, \$20, \$25, \$50, \$75 per 100.
Periwinkle, extra long, 4-in., \$15, \$18 per 100.
Geraniums, 4-in., all colors, \$8, \$9 per 100.
Coleus, 3-in., \$4, \$4.50 per 100.
Alternanthera, 2 1/2-in., red and yellow, \$4.00 per 100.
Hardy Ivy, 3 and 4 in., \$10, \$12.50, \$15 per 100.

Also a General Assortment of Miscellaneous Bedding and Basket Plants

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA.

1608-1618 Ludlow St.

CHRYSANTHEMUMS

WHITE.
 Early—Polly Rose, Willowbrook, White Shaw.
 Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka.
 Late—Mrs. McArthur, Chadwick, Adelia.
PINK.
 Early—Glory of the Pacific.
 Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, A. J. Balfour, William H. Duckham, Dr. Enguehard.
 Late—Maud Dean, The Harriott.

YELLOW.
 Early—Monrovia.
 Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham.
 Late—Golden Wedding, Major Bonnaffon, H. W. Reiman.
RED.
 Merstham's Red, Cullingford, Matchless.
 Rooted Cuttings, \$2.00 per 100; \$16.00 per 1000.

NEWER VARIETIES
 From 2 1/2 in. pots, \$6.00 per 100. Rooted Cuttings, \$4.00 per 100.
Beatrice May, mid-season white.
Mrs. James Marshall, mid-season pink.
Mayor Weaver, mid-season pink.
Mrs. Swinburne, late white.
Jeanne Nonin, late white.
Early Snow, early white.
Rosier, early pink.
Old Gold, late yellow.
October Frost, early white.
A. N. PIERSON, Cromwell, Conn.

CHRYSANTHEMUMS CARNATIONS and ROSES

Novelties and all the standard varieties. **MOSCHOSMA RIPARIUM,** a valuable new Christmas flowering plant. Write for descriptive circular and price list.
CHARLES H. TOTT, Madison, N. J.

GOVERNOR HERRICK

The new single violet; fine, strong, healthy plants, from 2-in. pots, price, \$4.00 per 100; \$35.00 per 1000.
Henry A. Molatsch & Son, P. O. Box 44, Nauvoo, N. Y.

CHRYSANTHEMUMS ROOTED CUTTINGS

10,000 Ivory, 5000 Alice Byron, 1000 each T. Eaton, Enguehard Whilldin, M. Mann, M. Dean, C. Touset, Robt. Halliday, Cremona, M. Bonnaffon, Yellow Jones and Glory of the Pacific, \$2.00 per 100; \$16.00 per 1000. Cash with order or C. O. D.

WM. SWAYNE, Box 226, Kennett Square, Pa.

CHRYSANTHEMUMS ROOTED CUTTINGS

E. I. Brooks, Autumn Glory, Mrs. Wm. Duckham, from sand, \$2.50 per 100; \$20.00 per 1000. **R. Halliday, Geo. S. Kalb, Dr. Enguehard, Appleton, M. Robinson, Newitt,** from sand, \$2.00 per 100; \$15.00 per 1000; from soil, \$2.50 per 100; \$20.00 per 1000. **Black Hawk, Wm. Duckham, Ivory,** pink and white; **Polly Rose, Glory of the Pacific,** from sand, \$1.50 per 100; \$12.50 per 1000. Cash with order. Samples free.

ALFRED FUNKE, Baldwin Road, Hempstead, L. I.

HARDY ENGLISH IVY

4 to 5 feet high, 4 inch pots, well branched, \$15.00 per 100. Cash.

JOHN RECK & SON
 BRIDGEPORT, CONN.

MAMMOTH VERBENAS

In bud, 20 varieties, large, strong, healthy plants, from soil, \$1.00 per 100; \$9.00 per 1000. None but the best. Satisfaction guaranteed.
BEGONIA VERNON, fine plants, 2 1/2 in. pots, \$2.00 per 100.
S. A. PINKSTONE, 20-22 Philip St., UTICA, N. Y.

SALVIAS

A fine lot, 6 to 8 in. high, from flats, \$1.50 per 100. Cash with order.
H. M. WOUNDY, NEW CANAAN, CONN.

REMOVAL SALE

Here is a chance for cheap Spring Stock.
 Geraniums, 4 in. Per 100 \$8.50
 Heliotrope, 4 in. 6.50
 Ageratum, 4 in. 8.50
 Salvia Splendens, 4 in. 6.50
 Petunias, large, double white, 4 in. 8.00
 Periwinkle, nice and long, 4 in. 10.00
 Hardy Ivy, long, 3 in. 3.00
 Assorted Begonias, 3 in. 3.00
 Cannas, all varieties, 4 1/2 in. 5.00
 Daisies, white, 4 in. 7.00
 Mignonette, 4 in. 8.00
 Asparagus, 3 in. 8.00
 Honeysuckle Vines, 6 in., large plants, 16.00
 Verbenas, Alyseum, Phlox, Cigar Plants, Ice Plants, Lobelias, Ground Ivy, Coleus, in ten fancy colors, also Golden Buzzer, Daisies, Bachelor Buttons, Forget-me-nots; all of the above are in 3 in. pots and sell at \$2.50 per 100.
 Achyranthes, Artillery Plants, Ice Plants, Black-Eyed Susan, Nasturtiums, 3 in. pots. Please state if with or without pots. Cash with order, please.
MRS. JOHN H. CLAUS, 1119 Roy St., Philadelphia, Pa.

ALTERNANTHERA

50,000 plants in 2 in. pots.
Paronychoides aurea, nana and versicolor at \$20.00 per 1000; 500 at 1000 rate. No order for less than 500. Ready for delivery May 1. Cash with order.

J. CONDON, Florist,
 734 5th AVENUE, BROOKLYN, N. Y.

300,000 ASTER PLANTS Queen of the Marthy ket, in white, pink and mixed colors; late branching, white, pink, lavender and mixed colors; Ostrich Feather, Ray Aster and Victoria, strong, stocky plants, ready to plant out at \$2.50 per 1000; in 5000 lots, \$2.00 per 1000.
Gustav Pitzonka, Bristol, Pa.

The American Carnation

Price, \$3.50
A.T. DeLa Mare Ptg. & Pub. Co., 2 Duane St., New York.

THE NEW CARNATION AFTERGLOW

WE beg to announce that we will offer to the trade, the coming season of 1907 and 1908, the new carnation Afterglow, a variety of sterling merit, which is destined to be grown as universally as the Lawson in its time, as it has done exceedingly well wherever it has been tried—in all different sections of the country—the Far East, West and Middle States—and all report it as an "Ideal" commercial variety, grand in every way. It has won the S. A. F. Silver Medal, for the best flower or plant, at the Monthly Exhibition of the Cincinnati Florists' Society in 1906, and scored 91 points at quite a number of exhibitions held in different cities in the United States. It has never failed to score wherever shown. It has scored the highest of any seedlings at the exhibition of the American Carnation Society, held at Toronto in 1907, after reaching there twenty-four hours late from Framingham, Mass. In color it is everything that the name implies—a bright rosy cerise. In stem it excels any commercial variety now extant, not excepting Enchantress, being somewhat longer and always rigid. Never weak, in habit it is very vigorous, "a Grower's Delight," as it recuperates very readily after planting from the field; also from the sand. It loses no time in getting to work.

Orders now booked, to be filled in rotation for well-grown, well-rooted cuttings, at \$2.00 per dozen; \$12.00 per 100; \$100.00 per 1000

"Afterglow has been grown for the past season by the undersigned and offered by them."

WILLIAM NICHOLSON,
Framingham, Maas.

DAILEDOUZE BROS.,
Flatbush, Brooklyn, N. Y.

THE E. G. HILL CO.,
Richmond, Ind.

R. WITTERSTAETTER, (Originator)
Sta. F., Cincinnati, Ohio.

California Plant Notes.

FUCHSIA PROCUMBENS.—As a basket plant or for window box culture the graceful trailing *Fuchsia procumbens* is one of the most desirable. The interesting little flowers are followed by large bright red fruit. The plant when not in bloom has a close resemblance to *Muhlenbeckia complexa*. Grown with *Asparagus Sprengeri*, it is very effective.

PASSIFLORA RACEMOSA is one of our most vigorous climbers. It began flowering several weeks ago, and at present is gorgeous with its brilliant scarlet flowers. It endures our sunlight to perfection.

I have met with a fine specimen of *P. quadrangularis* which covers a Southern California house. It is the only member of the family that blooms from early Spring until late in the Fall, but does not set any fruit.

P. laurifolia is also a vigorous grower, but will not flourish in sunshine.

P. edulis is a strong grower, producing a profusion of bloom, not very attractive, but followed by fruit in abundance which has an agreeable taste and odor. The seeds are so numerous that little pulp is found within the hard shell, yet children delight in eating what little there is.

THE TACSONIAS are also pretty, of vigorous growth and clean, dark green foliage. They do fairly well in Southern California, while around San Francisco they are of the most luxuriant growth; indeed, no home about the bay city seems complete without one or two varieties. Some varieties of these plants are preyed upon by a black caterpillar which devastates the foliage, while others are immune from its attacks.

KOCHIA SCOPARIA, while beautiful in form and foliage, is too short-lived to be of any value in this part of the country, unless it be to satisfy the curiosity of an enthusiastic amateur.

At this writing, May 10, *Grevillea robusta* is in full bloom, and a gorgeous sight it is to see a tree or a row of them. When swayed by the wind they look like a great torch, all aflame with their orange-colored flowers, which are without petals. As street trees they are desirable, but the flowering buds stand so little frost, that in the lowlands the tree is seldom seen at its best.

FOR STEEP BANKS and terraces, *Lippia repens* and *Mesembryanthemum subcompressum* are the most valuable plants we have, for the reason that they require very little water during our rainless Summers. The latter when in bloom is of the most dazzling brightness, the stems growing ten to twenty feet in length.

ONE OF THE FINEST subtropical large shrubs or small trees for high, dry elevations is *Wigandia urens*. A specimen in Hollywood is a foot in diameter at the base, with a spread of top of fifteen feet. The foliage, which is large and of a most beautiful shade of green, quite distinct in that respect from any other plant we grow here, is covered with sharp, stiff hairs, as though a protection to the plant. The flowers are of a dark purple color, borne on one-sided spikes a foot or more long.

P. D. B.

COLEUS

VERSCHAFFELTII, Golden Queen, Golden Bedder, Fire Brand, Queen Victoria, fancy Coleus in variety, 2 in. pots, \$2.00 per 100; \$15.00 per 1000.

VERSCHAFFELTII, Golden Queen, Golden Bedder, 3 in. pots, \$3.00 per 100.

SALVIA, AGERATUM, HELIOTROPE, 2 in. pots, \$2.00 per 100; \$15.00 per 1000.

BOUVARDEA (Humboldtii *Corymbiflora*), from 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000.

The 1000 rate obtains only when 250 or more of a variety are ordered.

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Price, \$6.00 per 100; \$50.00 per 1000
A discount of 5% for cash with order.

CARNATIONS 2 in pots, \$3.00 per 100; \$25.00 per 1000. **Cannas** 3 in., \$4.00; 4 in. at \$5.00. **Alternantheras**, \$2.00 per 100. **F. Begonia, Ageratum, Des-ly Miller, English Geraniums**, at \$2.50 per 100; 3 in. **Vinca**, variegated, 4c. to 5c.; **Asparagus Sprengeri**, 4-in. at 8c. 4 in. **Geraniums**, white, pink, salmon, scarlet and red, at \$5.00 per 100. 2 in. **Boston Ferns**, at 3c. 2 in. 5c.; 4 in., 8c. 2 in. **Barrowsii Ferns**, at 4c. 2 in. **Scottii**, at 3c., 3 in., 5c. 2 in. **Tarrytown**, at 10c.; 2 in., 5c. 2 in. **Pieroni**, at 3c.

CARNATIONS FROM POTS
Robert Craig \$6.00; Enchantress \$3.50; Flam-ingo \$3.00; Harlowarden \$3.00; Queen \$3.00; Boston Market \$2.50; German Ivy, 2 in., \$2.00; German Ivy, 3 in., \$4.00; Cannas, unnamed, 3 in., \$3.00; Cannas, unnamed, 4 in., \$4.00; Pan-sties, in bud and bloom, 2 in., \$2.00.

S. G. BENJAMIN, Fishkill, N. Y.

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CARNATION SPECIALISTS

674 W. Foster Ave., CHICAGO.

S. J. GODDARD
Framingham, Mass.

Rooted Carnation Cuttings a Specialty.
Correspondence Solicited.

CARNATIONS ROOTED CUTTINGS
Ready Now—Prompt Delivery.
Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000.
F. DORNER & SONS CO., La Fayette, Ind.

CARNATIONS
Strong, Healthy, Well-Rooted Stock
Per 100 Per 1000 From pots
Cardinal 2 50 22 50 3 00
Enchantress .. 2 50 22 50
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Boston Market 1 50 12 50 2 00
We have about 5000 fine Boston Market from pots
Cash with Order. Satisfaction guaranteed.
SMITH & CANNETT, Geneva, N. Y.

MABELLE
Grand New Pink Carnation for 1907. A few thousand R. C. and pot plants still left. Order quick. This variety is a money maker.
Price of rooted cuttings, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000.
Price of pot plants, 2 1/2 inch, \$3.00 per doz.; \$15.00 per 100.
THE H. WEBER & SONS CO., OAKLAND, MD.

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The Originator of three varieties:
John E. Haines Carnations..... \$ 6.00 \$ 50.00
Imperial " 12.00 100.00
Pink Imperial " 12.00 100.00
Headquarters at Bethlehem, Pa.
Orders taken now for field-grown plants at same price as for rooted cuttings.
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All the latest and best varieties.

Begonia Gloire De Lorraine
The finest leaf cuttings obtainable
For delivery from May 1st, 2 1/2 in. pots \$12.00 per 100, \$100.00 per 1000.
Order at once.
JULIUS ROEHR'S COMPANY
Exotic Nurseries, Rutherford, N. J.

Commercial Violet Culture
PRICE, \$1.50
THE FLORISTS' EXCHANGE, 2-8 Duane St., New York.

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SALVIA SPLENDENS, St. Louis and Bonfire.
COLEUS, in eight leading varieties.
AGERATUM, Dwarf Blue.
GERMAN IVY.
RAMBLER ROSES, in pots.
HELIOTROPE, Little Giant.

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A Few Good Things You Want

Cash with Order.
Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in. \$5.00 per 100.
Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in. \$5.00 per 100.
Geraniums, S. A. Nutt, John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; 3 in. \$5.00 per 100. Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellane, Poltevine and Viand, 2 in. pots, \$3.00 per 100; 3 in. \$5.00 per 100.
Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100.
Scottii Ferns, 5 in., 30c. each.
Vinca Var., 2 in., \$2.00 per 100.
Gladolus, blooming bulbs extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.
Dracaena Indivisa, 4 in. \$10.00; 5 in. \$25.00 per 100.
Heliotrope: **Coleus**, red and yellow; **Cigar Plants**; **Alternanthera**, red and yellow; **Verbena**; **Scarlet Sage**, **Bonfire**, 2 in. \$2.00 per 100.
Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s properly packed in good order.
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VICTORY Has Made Good.

IMPERIAL and PINK IMPERIAL CARNATIONS.
You cannot afford to be without these two excellent varieties.
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REVIEW OF THE MARKET

NEW YORK.—The cut flower trade is exceedingly quiet just now; stock of all commercial flowers is coming in in plenty, and the demand, excepting for funeral work, is quite slow. Bride and Bridesmaid roses, together with American Beauty, are being offered in lots at prices that would seemingly tempt buyers to speculate. Slips of the tea roses, including all grades from extras down, are offered at \$2 and \$3 per 100, and the No. 2 grades alone, when they can be cleared in quantity, are let go at about 50c per 100. American Beauty are so plentiful that the street men are handling them in quantities, and this means that the flowers can be purchased at about \$10 per 100.

Carnations continue plentiful, and prices, if anything, are weaker than they were a week ago. There is quite a stock of antirrhinum coming in just now, much of it with stems two and three feet long, for which it is difficult to get more than 60c or 75c per dozen.

Home-grown lilac is beginning to reach the market in quantities, and while on Saturday last there was not enough to go around and prices were exceedingly good, since then the supply has been augmented to such an extent that it is a difficult proposition to get rid of it even when offered at from 25c to 50c per bunch. Tulips and narcissus are not nearly so much in evidence as they have been for many weeks, but sweet peas continue plentiful and clear out at some figure or other.

There is a steady supply of lilacs coming in, and from 60c. to 75c. per dozen is about the ruling price for them. Cattleyas are not over-plentiful just now, though indications point to a rather heavy supply in the near future, which will, no doubt, continue through the Summer months.

PHILADELPHIA.—There have not been quite so many flowers so far this week, except of the poorer quality of tea roses which are very plentiful. A very large quantity of stock was sold to the street men on Saturday last; third grade tea roses went at very low prices. One street man bought 20,000 flowers.

This week American Beauty are selling at \$15 to \$25 per 100 for the best grades. For teas the best price for some choice stock is \$8 per 100.

A few choice carnations have sold at \$3 to \$4 per 100, but the general stock is offered at very low prices. Lily of the valley is plentiful and sells at \$3 to \$4 per 100. Antirrhinum majus, \$1.50 per dozen for choice stock; Spanish iris, blue and yellow, \$2 to \$3 per 100. Outdoor local narcissus realize \$1 to \$2.50 per 100; sweet peas, 50c. to \$1 per 100, with supply abundant. Cattleyas bring \$50 to \$60 per 100 and the price is getting much firmer; daisies fetch \$1 to \$1.50 per 100. Queen Alexandra being in good demand. Stocks sell at \$2 to \$3 per 100; peonies, Southern stock, \$5 to \$6 per 100, \$8 being obtained for a few choice flowers.

DAVID RUST.

INDIANAPOLIS.—A greater variety and supply of flowers have made business more satisfactory the past week. General counter trade and funeral work are brisk, but decorating is almost at a standstill. Fleur de lis and snowballs, both excellent for effective work, are on hand in any quantity; the combination is seen often in the store windows.

The weather is anything but propitious for bedding as frosty temperature prevails. Orders are being booked in heavy numbers for this line of stock and it is certain that several kinds are not sufficient for the demand.

Field violets are still being sold by the store men at 15c. to 25c. per bunch. Outdoor lily of the valley has begun to arrive, selling at \$1 to \$2 per hundred. The carnation shortage has not relaxed; good ones are scarce at \$3 to \$4 per hundred. Summer roses, La France, Souvenir du President Carnet and Kaiserin Augusta Victoria have been added to the list. Select ones wholesale at \$3 per hundred; seconds and thirds as low as \$2 per hundred. American Beauty are not what they should be, going at \$5 to \$35 per hundred.

Sweet peas, ten-week stocks, candytuft, nasturtiums, swainsona and daisies are on hand in abundance. I. B.

CINCINNATI.—Business has been very quiet the past week, with plenty of good stock coming in; consequently prices have amounted to very little, as the goods had to be sold. The outlook for Memorial Day is not very flattering, still there will probably be enough stock to fill orders. Peonies are just coming in, but the big crop will miss May 30. Carnations will be off crop, too, with quite a number of the growers.

Trade in the flower market is not flourishing, the bedding season being very backward, and, of course, this is what the market gardeners look forward to.

E. G. G.

CHICAGO.—The past week has brought what might be termed the first good Spring weather Chicago has enjoyed this season, and with it stock along pretty much all lines has been in plentiful supply, especially roses. Cape jessamine are appearing in goodly numbers and of a quality somewhat better than has been seen for some years. Peonies from Southern growers are coming in but not in as large numbers as usual, owing to the fact of the army worm having destroyed many of the buds; furthermore owing to the increased demand for peony roots it is not likely as many blooms of this favorite flower will be seen in this market the present season.

Indications point to a reasonably good supply of standard items for Memorial Day, some dealers already having booked good sized orders for that occasion. W. K. W.

BOSTON.—All kinds of cut flowers are plentiful and hard to move. This state of affairs has continued for the past week and growers of all kinds of flowers are alike affected. The better grades of roses sell for \$6 and \$8, but in quantities the small grades bring from 1/2c. up. American Beauty remain in about the same condition; fairly good prices are realized for the long stemmed grades but the shorts almost go begging. Carnations, like roses, are coming in all too plentiful and are hard to move. Sweet peas sell fairly well but there are quantities of poor grades in the market. Lily of the valley holds its own. Lilies sell at from \$2 to \$6—not a big price for these flowers. Gladiolus bring \$4 and \$6. Narcissus poeticus and red tulips are the principal outdoor bulbous stock to be seen, and they sell at from 50c. to \$1. Lilacs have not yet come in.

NEW BEDFORD, MASS.—Prospects for a good Memorial Day trade are bright. Flowers from outdoors will be scarce; not much lilac will be in bloom the weather having been so backward this Spring. Tulips this year will be just right; in other words they have generally gone by at this period. Carnations will be quite scarce for this time of the year, and some of the growers will have a hard tussle to get their ten-week stocks in on time, also candytuft. Roses will be quite plentiful, they are almost as cheap as carnations. There will be plenty of geraniums, pansies, daisies, forget-me-not, etc. to help out; these are all in full bloom now, and are very nice for planting in the cemetery.

Some of the growers are getting ready to plant out their young carnation stock; the weather is rather cool as yet. HORTICO.

ST. LOUIS.—In reviewing the market this Monday morning we find conditions about the same they were all of the past week, and prices even lower than ever. The fact of the matter is that there is entirely too much stock consigned to this market. At the present time even the Chicago wholesalers are trying to unload their surplus here. Then trade among the retailers has been very quiet the past two weeks, hardly anything doing outside of funeral work and a wedding decoration for the Memorial Day next week will probably change the market somewhat, but not much, as Spring outdoor flowers are just beginning to come in, and these, with the regular consignments, will again swell the market to its utmost.

Carnations are selling cheap, and plenty of all varieties are coming in, with prices at from \$1.50 to \$2 for the

THE METAIRIE RIDGE NURSERY COMPANY LTD.
 NEW ORLEANS, LA.
 GROWERS OF CHOICE CUT FLOWERS
 Roses, Carnations, Orchids, Etc.

We are fully prepared to fill orders for shipping by Steamers and Express all through the Southern States.

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Is the cost of a one inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

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Is the cost of the *one cent stamp* required to mail 369,200 circulars, exclusive of the great additional cost of paper, printing, addressing, etc.

The advertisements in *The Florists' Exchange* are *ALWAYS* read. The circular generally goes into the waste basket, *without being read.*

\$46⁸⁰\$140⁴⁰\$280⁸⁰\$3692⁰⁰

best; \$3 per 100 for specials in Enchantress.

In roses everything in all grades and kinds is in the market. Bride and Bridesmaid are most plentiful, with the price for the very best not over \$5 per 100; others run along the same lines. Extra fine, long American Beauty are selling as low as \$2.50 to \$3 per dozen, with plenty left over that generally go to waste; medium and short grades are sold at one's own price.

Sweet peas are having a good call; in fact, sell better than any other flower in the market at the present time; 50c. to \$1 per 100 is the price. Lily of the valley is of extra good quality, but the demand is slow, at \$3 per 100. Harrisil lilies and callas have been very plentiful of late; \$6 and \$8 in 100 lots, \$1 a single dozen, are the prices obtained. Peonies are selling well at \$4 per 100; white especially have a good demand.

Fancy ferns have been scarce; those coming in are very poor, still the wholesalers ask \$4 per 1000 for them.

Spring weather has at last come to us, and the greenhouse men are fast unloading their big pile of orders for planting out. The weather is not any too warm, but all danger of frost is past, so that outside work can from now go on uninterruptedly.

ST. PATRICK.

FIRMS WHO ARE BUILDING.

FAIRHAVEN, MASS.—Peter Murray is erecting a greenhouse, 200 x 30 feet. H.

NEW BEDFORD, MASS.—Wm. Livezey is building a carnation house, 50 x 22 feet.

SPRINGFIELD, MASS.—Ed. Richards, Sunny Dell Greenhouses, is making an addition to his plant, 100x30 feet.

PAOLA, KAN.—The Sunnyside Greenhouse is to be enlarged and remodeled in general in a short time and will be under the management of Carl Hagemeyer, who is now located at Colorado Springs, Colorado.

CHANGES IN BUSINESS.

WESTMINSTER, CONN.—Charles M. Allen will engage in the business of raising vegetables and flowers here.

CATONSVILLE, MD.—Frederick Seidlich has purchased an acre of ground on Ingleside avenue, and will erect several greenhouses on the property.

SPOKANE, WASH.—F. X. Scully has gone to Wallace to open a flower store in that city. Mr. Scully's store will be a branch of the H. M. Sanders flower store of Spokane. No location for the new business has yet been selected.

WOONSOCKET, R. I.—Jonas Brook is now proprietor of the Summit street greenhouses, he having purchased them from Thomas H. Greene, the former proprietor. Mr. Green will devote his attention to the Woonsocket Napping Machinery Company, of which he is an official.

DAVENPORT, IA.—This city is soon to have a big cucumber industry. James W. Davis of Morrison, Ill., has purchased the greenhouses of the Allison-Pope Company for that purpose and will establish a plant this Spring.

The greenhouses were purchased for \$1,400 and the land on which they are located of Mrs. Charles Dannacher for approximately \$10,000. There are about eight acres of land connected with the greenhouses and Mr. Davis will use all of this in the growing of cucumbers. He also intends to enlarge the greenhouses and will secure more land on which to raise cucumbers and tomatoes, the two vegetables which he will grow in large quantities.

Mr. Davis now has a plant capitalized at \$30,000 located at Morrison, Ill., and another capitalized at \$25,000 at Aurora, Ill. He has decided, however, that Davenport is a good place for such an industry and hence has secured what his states is an ideal location for his business.

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Consignments Solicited.

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ORCHIDS AT ALL SEASONS
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Wholesale Florists
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Open every Morning at Six o'clock for the Sale of Cut Flowers.
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Always Ready to Receive Fine Stock
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114 West 28th Street
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Violets, Roses, Carnations, Orchids
Established 1888.

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Consignments of first class stock solicited.
Prompt returns.
THE SQUARE DEAL
Guaranteed to all who trade here.
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THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
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Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	10.00 to 15.00	extra.....	5.00 to 10.00	Carnations	1st grades, all colors.....	1.00 to 1.50
	" No. 1.....	6.00 to 8.00	" No. 2.....	4.00 to 6.00	STANDARD	White.....	1.00 to 2.00
	" No. 3.....	1.00 to 3.00	Bride, Maid fancy-special.....	3.00 to 5.00	VARITIES	Pink.....	1.00 to 2.00
	extra.....	2.00 to 3.00	" extra.....	2.00 to 3.00	*FANCY—	Red.....	1.00 to 2.00
	" No. 1.....	1.00 to 2.00	" No. 1.....	.50 to 1.00	(*The highest grades of standard var)	Yel. & Var.....	1.00 to 2.00
	" No. 2.....	1.00 to 2.00	Golden Gate.....	1.00 to 6.00	NOVELTIES	White.....	2.00 to 3.00
	RICHMOND.....	2.00 to 10.00	Richmond.....	2.00 to 10.00	FREEBIAS, per doz. bunches.....	Pink.....	2.00 to 3.00
	Mme. Abel Chateauy.....	1.00 to 6.00	ADANTUM.....	.50 to 1.00	GARDENIAS, per doz.....	Red.....	2.00 to 3.00
	CROWNANUM.....	1.00 to 1.50	ASPARAGUS.....	25.00 to 50.00	LILAC, per bunch.....	Yel. & Var.....	3.00 to 8.00
	Plumosa bunches.....	15.00 to 25.00	" Sprengeri, bunches.....	15.00 to 25.00	LILIES.....	White.....	2.00 to 3.00
	CALLAS.....	6.00 to 8.00			LILY OF THE VALLEY.....	Yel. & Var.....	2.00 to 4.00
	CATTLEYS.....	40.00 to 60.00			MIGNONETTE.....	White.....	1.00 to 2.00
	CYPRIDIUMS.....	12.50 to 15.00			NARCISSUS, White.....	Yellow.....	.50 to 1.00
	DAISIES.....	1.00 to 3.00			ROMAN HYACINTHS.....		to
					SMILAX.....		12.00 to 15.00
					SWEET PEAS, per doz. bunches.....		.75 to 1.50
					TULIPS.....		1.00 to 2.00

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Shipments of Plants made to any part of the country. A trial order solicited.
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Los Angeles, Cal.
Trade News.

W. Haerle, Hollywood, has brought the pineapple experiment range of houses which he will devote to roses, orchids, and lily of the valley for the local cut flower trade. The range of glass is in two sections, each 75 x 100 feet, of the short span type. They will be heated by steam. Henry W. Turner, late superintendent of the Whittlesey carnation houses, is manager, which is a guarantee of success. The name of this new establishment will be El Reah Nursery. The Kuapper family, recently from Philadelphia, Pa., have moved their flower store from Spring street to 2001 Pico Heights.

The Germain Seed Company has set an example in window decoration that other seedsmen could follow with profit. Its large store windows are a pleasure to see. The stock for sale is beautifully arranged; and instead of one arrangement for the whole season, every week a new one appears, artistic in effect and attractive in appearance. The method is sure to bring its reward in increased sales, as well as educating the public in the nomenclature of seeds, plants, and bulbs.

Cut worms—the smooth, fat, light green-colored sort that do their work at night—are doing a great deal of damage to the cabbage crop of Orange county. They eat their way into the heads, leaving tunnels as large as a lead pencil. The orange groves of Riverside county are also infested with this pest, as much as twenty-five per cent of the crop in some orchards being rendered unfit for sale. They also ascend the trees, devouring the newly set fruit and young foliage. Truly, the way of the fruit grower and gardener in California is quite as hard as is that of his brother on the Atlantic Coast. P. D. BARNHAET.

S. S. Pennock-Meehan Co.

The WHOLESALE FLORISTS OF PHILADELPHIA

Store closes at 8 P. M. 1608 to 1618 LUDLOW STREET

MEMORIAL DAY

As Paeonies will not be plentiful, we advise our customers to buy the cheaper grades of Roses at \$3.00 per 100, in lots of 500.

Cedar Bark in strips for covering tubs and window boxes, 60c. per bundle

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Carnations, Roses, Peonies, Cape Jessamine, Gladioli, In any quantity.

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Philadelphia. The Week's News.

The continued cold weather is keeping everyone on the anxious bench. The thermometer was down to 36 degrees on Monday night; there was a severe thunderstorm around this section on Sunday night and in some localities considerable hail fell. No damage is reported nearby, but reports from Chester County are to the effect that some glass was broken near Oxford; detailed accounts have not come in yet.

The Lord & Burnham Company and Adolf Farenwald, Hillside, Pa., have now satisfactorily adjusted matters in regard to the rose house that fell in on Mr. Farenwald's place early in February last. The house was built by Mr. Farenwald from plans and material supplied by the Lord & Burnham Company. Immediately after the accident that firm sent men to rebuild the house. It was among the first of the trussed houses supplied by this concern, and a weakness was found in that bolts at the ridge had pulled out. In the reconstruction this was remedied. The house being rebuilt the question of damages came up. Mr. Farenwald claimed \$1 per rose plant as representing his receipts from February 4 to the time of throwing out the plants. The matter was submitted to arbitration; Robert Simpson, Clifton, N. J., represented Lord & Burnham Company and John Burton, this city, represented Mr. Farenwald. The result was that Farenwald was awarded \$3,750 being at the rate of 46c. per plant.

W. E. McKissick being alive to business got a lot of cotton balls up from the South last week, as the Cotton Association held a convention here; he sold these readily to the retailers at \$5 per 100.

The Leo Niessen Company are handling a fine lot of flowers of Lælia purpurata.

S. S. Pennock, as president of the Florists' Club, has appointed the executive committee to manage the S. A. F. convention affairs and a meeting of the committee was held on Thursday. DAVID RUST.

WEST HOMESTEAD, PA.—The house of A. A. Bisner, a florist of Baldwin township, was robbed recently. The burglar got away with \$108 and a bundle of clothing, but dropped the bundle after being chased along the country road a mile by John Thomas, aged 64, one of Bisner's employes. Thomas gave chase in his night clothes.

KENNETT SQUARE, PA.—The Dingee & Conard Company, of West Grove, Pa., has been engaged by Mrs. Howard Gould to lay out one of the finest rose gardens in the world on her property at Lynchburg.

You'd better be an Is-Was, than a Has-Wasser; and as for a Not-Yet-But-Soon, why he is always one.—The Philistine.

Wholesale Prices of Cut Flowers—Per 100

Table with columns for Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburg, and St. Louis. Rows list various flower varieties like Beauty, Golden Gate, Liberty, etc., with prices per 100.

BOSTON, MASS. WELCH BROS. PROPRIETORS CITY HALL CUT FLOWER MARKET 226 Devonshire Street.

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PHILADELPHIA CUT FLOWER CO. WHOLESALE FLORISTS 1516-18 SANSON STREET High Grade Cut Flowers

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Wholesale Cut Flowers and Florists' Supplies.
 Shipping Orders Our Specialty.
 Do you receive our Weekly Cut Flower Price List? IF NOT WRITE US.
The Leading Florists' Supply House of the West.
 Supply Catalogue mailed on request. We carry the Largest Stock of Florists' Supplies in the W

Be your own Commission Man
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J. B. DEAMUD CO.
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 Up-to-Date Florists' Supplies
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 CHOICE AMERICAN BEAUTY ROSES
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 FANCY VALLEY, ROSES, CARNATIONS,
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 Valley, Carnations and Roses
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J.A. BUDLONG
 37-39 Randolph Street, CHICAGO.
 Roses and Carnations WHOLESALE
 A Specialty.... GROWER OF **CUT FLOWERS**

Wholesale Prices of Cut Flowers, Chicago, May 21st, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES American Beauty

36-inch stems..... per doz.	..... to 8.00
30-inch stems..... "	..... to 2.50
24-inch stems..... "	..... to 2.00
20-inch stems..... "	..... to 1.50
18-inch stems..... "	..... to 1.00
12-inch stems..... "	..... to .75
8-inch stems and shorts "	..... to .50
Bride Maid, fancy special.....	8.00 to 10.00
" extra.....	..... to 6.00
" No. 1.....	..... to 5.00
" No. 2.....	2.00 to 4.00
Golden Gate.....	2.00 to 8.00
Uncle John.....	2.00 to 8.00
Liberty.....	2.00 to 8.00
Richmond.....	2.00 to 8.00
Killarney.....	2.00 to 8.00
" extra.....	10.00 to 12.00
Perle.....	2.00 to 8.00
Obanaday.....	2.00 to 8.00
Callas.....	8.00 to 10.00
Narc. Single Yellow.....	..... to 1.00
Tulpa, White.....	1.00 to 2.00
" Yellow.....	1.00 to 2.00
Mignonette.....	2.00 to 6.00
FORGET-ME-NOT.....	..... to .50

CARNATIONS

STANDARD } White.....	1.00 to 2.00
VARIETIES } Pink.....	1.00 to 2.00
} Red.....	1.00 to 2.00
} Yellow & var....	1.00 to 2.00
*FANCY } White.....	2.00 to 3.00
(The high- } Pink.....	2.00 to 3.00
est grades } Red.....	2.00 to 3.00
of Sta'd var.) } Yellow & var....	2.00 to 3.00
NOVELTIES.....	..... to 3.00
ADIANTUM.....	.75 to 1.50
ASPARAGUS Plum. & Ten.....	.85 to .50
" Sprenger, hunches.....	12.00 to 18.00
LILIES Longidormum.....	12.00 to 18.00
HARRIS.....	..... to 50.00
Orchids—Cattleyas.....	..... to 50.00
SMILAX.....	10.00 to 20.00
LILY OF THE VALLEY.....	2.00 to 4.00
VIOLETS.....	.50 to 1.00
HARRY FERNS per 1000.....	2.00 to 8.00
GALLA.....	1.00 to 1.25
JONGUILA.....	2.00 to 3.00
SWEET PEAR.....	.50 to 1.00
SNAPDRAGON.....	4.00 to 8.00
..... to
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Poehlmann Bros. Co.
 Wholesale Growers of
 and Dealers in **Cut Flowers.**
 All telegraph and telephone orders given prompt attention.
 Greenhouses: 35-37 Randolph St.,
 MORTON GROVE, ILL. CHICAGO.

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 Send us your Orders for delivery in the Northwest, which will have our best attention.
L. L. MAY & CO.,
 Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.
 WHOLESALE FLORISTS
 and FLORISTS' SUPPLIES
 Manufacturers of WIRE DESIGNS
 457 Milwaukee St., MILWAUKEE, WIS.
 'Phone, Main 874. P. O. Box 103

WHOLESALE CUT FLOWERS
 and FLORISTS' SUPPLIES
C. C. Pollworth Co.
 MILWAUKEE, WIS.

Your Money is well spent when you
 advertise in
THE FLORISTS' EXCHANGE

Chicago.

News Notes.
 Ed. Assa, who recently returned from a five weeks' siege in the hospital, is hard at work, and the opticians who prophesied the loss of his eye are surprised at his rapid recovery.

H. F. Halle's new North Side store, at the corner of Sheridan road and Halstead street, is rapidly nearing completion, and will be ready for business before Memorial Day.

Quite extensive alterations are going on at Klunder's, including the installation of a balcony in the rear of the store which will give considerable more floor space.

A week ago last Saturday evening, as John Degnan, of the Winterson Seed Store was returning to his home, he was assaulted by two colored men, robbed of thirteen or fourteen dollars from his vest pocket, struck in the face, knocked down, cut in the back of the head, presumably with a razor, and generally used up according to hold-up rules; however, he is now on deck, smiling as ever.

The trade will generally regret the departure of L. H. Winterson and Mrs. Winterson for the Pacific Coast, where they intend to make their future home. Mr. Winterson has for several years been connected with the E. F. Winterson Company, of which his brother is at the head, has served as secretary of the Chicago Florists' Club, and with Mrs. Winterson has freely participated in all of the social festivities connected with the florist organizations. After a visit to an elder brother in Tacoma, Seattle will be Mr. Winterson's home, where in combination with Chicago capitalists he will represent a different line of business.

Poehlmann Brothers' stock is in excellent condition for Memorial Day.
 A. L. Randall, after a return from his fruit farm in Michigan, is satisfied that the frost did not hit him as hard as reported.

In the flower market the different craftsmen are looking forward to a successful Memorial Day, many orders having been placed in advance.

Edward Roehrs, Lutherford, N. J., was last week in Ravenswood overlooking the establishment of the new houses which George Reinberg, is to put into orchids. Foreman Arnold is much pleased with the condition of the stock as it arrived and prophesies a successful crop for the coming year.

Mr. Dickinson, of the E. H. Hunt Company, says prospects were never better for Memorial Day, and Mr. Lynch coincides.

Wieland & Risch are justly proud of the daily stock delivered at their office from their glass in Evanston.

Foreman Pesineker, of the Wietor Brothers' establishment, reports the most successful season, especially on their line of young stock.

George Collins, at Peter Reinberg's houses, claims to be better prepared for the coming holiday than ever before.

J. A. Budlong has an excellent crop of Bride and Bridesmaid roses, ready for next week, and Phil. Schupp says they are the best they ever had.

C. W. McKellar is well prepared to meet the trade with all demands for cattleyas and gardenias, of which he makes a specialty.

Zech & Mann are looking for a heavy Memorial Day business, many orders having been received in advance.

The J. B. Deamud Company is still prepared to fill all orders for fresh ferns from their new stock.

Kennicott Brothers Company are well located in their new quarters, and after some slight alterations believe they will have one of the best stores in the city.

On Sunday, May 19, The Chicago Florists' Base Ball Club, under the management of W. P. Kyle, were challenged to play a game with the Poehlmann Brothers greenhouse men, which was accepted.

Mr. Kyle and his players proceeded to Morton Grove, where instead of finding the greenhouse men as their opponents they found a hired bunch of professionals, most of whom the oldest residents of Morton Grove had never before seen. Mr. Kyle's team was trimmed by a score of 8 to 1. If Billy is going to play professionals he had better get a professional team.

Kennicott Bros. Company are handling a good line of peonies, but are not getting as good a supply from their Southern growers as usual, owing to the fact that the army worm has eaten into many of the buds.

E. C. Amling reports a big demand for sweet peas, of which he has been receiving large supplies.

E. F. Winterson Company received last week the first new crop ferns of the season, which find a ready sale; storage ferns being generally poor.
 W. K. Wood.

Indianapolis, Ind.

News Items.
 Thomas Hart has about ten frames of lily of the valley which are yielding an excellent profit.

The several show windows filled with high-grade hydrangeas, bespeak J. A. Peterson's activity in this market last week.

The Smith & Young Company is adding a six-inch well to its Cumberland establishment.

S. S. Skidelsky's paper on the proposed national flower show, read before the New York Florists' Club, has again shown his clever ability as a writer. The reference to the late President Harrison's remark at one of the Indianapolis flower shows "He who loves flowers will never beat his wife" is but one instance of the excellent thought with which the essay is filled.

Edward Bertermann is visiting in Chicago.

W. H. Elverson was a visitor this week.
 I. B.

ALEXANDRIA, VA.—Constant Ponné, a florist, whose home is at 2012 Duke street, was injured last week by being thrown from a wagon in which he was driving. The horse ran away and overturned the vehicle. Mr. Ponné was picked up unconscious and was removed to the Alexandria hospital, where it was found that he had escaped with a cut on the forehead. Later he was conveyed to his home.

MEMORIAL DAY

NEW CROP DAGGER and FANCY FERNS \$2.00 per 1,000

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| Brilliant BRONZE and GREEN GALAX | \$1.00 per 1000, Lots of 10,000 \$7.50 |
| BOUQUET GREEN | \$7.00 per 100 lbs. |
| BOXWOOD | 20c. per lb. |
| CUT BOXWOOD | 18c per lb. |
| LEUCOTHOE SPRAYS | \$1.00 per 100 |
| LAUREL FESTOONING, good and full | 5c. and 6c. per yd. |
| LAUREL WREATHS | \$3 per doz |
| BRANCH LAUREL | 50c. per Bunch |

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HENRY M. ROBINSON & CO.

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Cultural Directions

Are leaflets written by practical men especially for the use of amateur customers. If you have a counter trade, either in plants, seeds, flowers or bulbs, you should have a supply of these leaflets on hand to present to your customers when they seek cultural information about their purchases.

(The leaflets embrace over forty subjects.) We can supply them at \$2.50 per 1000, or 500 for \$1.50 and can make a reduction of those prices on large quantities. At a small extra cost we can put your imprint on each leaflet. Try a thousand and see what a help they are in selling goods.

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Combination Vase

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Has been used for the past 15 years and has proved itself an invaluable asset to the decorator.

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EXTRA FINE FANCY AND DAGGER FERNS
\$2.50 per 1000. Discount on large orders. Leucothoe Sprays \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

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Incorporated
Let us have your standing order for Ferns; we will make Price right all through the season
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Send for our weekly price list on Cut Flowers.

THE BEST WAY to collect an account is to place it with the **National Florists' Board of Trade**
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WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

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in all varieties
Also Moss, Fibre, Needle Pines, Pice Coocs, Uva Grasses, etc.
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This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

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PLANT CULTURE
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Fancy or Dagger Ferns



- Dagger Ferns, \$2.00 per 1000
- Fancy Ferns, \$2.00 per 1000
- Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
- Boxwood, No. 1 Stock, 50 lb. cases, \$8.50.
- Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality.
- Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted.
- Southern Smilax, fancy stock, 50 lb. cases \$5.50.
- Laurel Branches, 35c. per bundle.

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Prices Advertised in these Columns are for **THE TRADE ONLY**—When Writing Please Mention **THE FLORISTS' EXCHANGE.**

Heating.

Growers' Problems Solved by U. G. Scollay.

I have one 2-inch hot water pipe running 190 feet under a table where it enters the bottom of a manifold of five 1 1/2-inch, falling at this point back to the boiler. Can the 2-inch (starting 10 feet from the manifold) be raised overhead and fall into the top of the manifold? The flow is mostly on the uphill system; expansion tank being higher than the proposed raised 2-inch. M. Penna.

Your proposed method of connecting some additional surface for a new extension to your present house from the present 2-inch main would work, but I would strongly advise you to rearrange the whole thing, so that you may obtain the results you should get from the coal you burn. You now have about 950 lineal feet of 1 1/2-inch pipe, supplied by a 2-inch flow main. Personally, I would not think of using less than a 2 1/2-inch main for this amount of surface, and in considering the length of your house, 190 feet, I would more likely use 3-inch. Certainly in preparing to add more surface to the present amount I would use a 3-inch overhead main direct from the boiler. The present 2-inch flow I would disconnect from the top of the boiler and connect to the re-return at the bottom, using the 2-inch line as a return from your new addition. You may disconnect this 2-inch line from the present coil and plug the header, or leave it as it is at that point, placing a tee in it for return from the new addition. Either plan will be satisfactory in its operation. U. G. SCOLLAY.

I am using a 40 h.p. steam boiler for heating my greenhouse plant, but it is hardly sufficient. Would it be advisable to use a cast-iron sectional boiler to help out if the water level in both is the same? New York. F. M.

Your inquiry is a somewhat peculiar one, and I will only reply to it from my own standpoint of experience. On three different occasions I have had cast-iron boilers connected with horizontal and upright tubular boilers. In not one of these cases was my experience at all satisfactory. I tried all sorts and conditions of wiring and used various expedients in the way of piping in my efforts to secure anything like a set water line but always failed. Personally, I would not advise you to attempt such an experiment. Possibly some of the subscribers for The Florists' Exchange have had experience in this line somewhat different from mine, but I can hardly believe such to be the case. U. G. SCOLLAY.

Please explain the trouble with my heating plant, as I am unable to heat my new greenhouse properly. The main building is 80x26 1/2 feet, with addition at rear, 20x19 feet, all 15 feet high, 3 1/2 feet concrete walls and 3 1/2 feet glass, both sides. Potting shed and boiler pit are in rear of greenhouse; forcing house, 18x20 feet, south of potting shed; forcing house, 5 feet on south side and 12 feet on north side. I have five flows and seven returns under the benches; pipes, 3/4 inches, inside measure; have five open expansion tanks in east end of greenhouse; two flows and two returns, 3/4-inch pipe and one open tank in forcing house. I am obliged to cut off the heat from the forcing house in order to heat the main building. I have model five-sectional hot water heater in pit boiler, rated to heat 1,700 feet in 4-inch pipe. When mercury showed 4 degrees above zero outside, the thermometer only registered 40 degrees above zero in the forcing house, and in east end of greenhouse; 48 degrees, north end. The boiler is in pit, 7 feet below flow pipe; chimney, 12x12 inches inside and 24 feet high; smoke pipe, 12 inches. I have a fine draft. Must I put in more pipe or buy a larger boiler? H. Pa.

Assuming that you desire 60 to 65 degrees in the 35x26 1/2-foot house, I would say that you will require two additional lines of 4-inch pipe (3/4-inch inside diameter) to obtain these temperatures in zero weather. The forcing house is about right as to the amount of heating surface. The boiler you have is probably rated for 1,700 square feet of "radiating surface," but that does not always mean exactly that it will take care of a greenhouse with all its particular requirements. When a florist purchases a boiler from any one who is not a manufacturer, he should be careful to get a guarantee, or, probably, better

**SOUTHERN WILD SMILAX
BEAVEN'S FADELESS MOSS
NATURAL SHEET MOSS
E. A. BEAVEN, Evergreen, Ala.**



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Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

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STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate	Price per crate	
1600 2 1/2 in. pots in crate, \$4.28	120 7 in. pots in crate, \$4.28	
1500 2 1/4 " " " 6.28	60 8 " " " 8.00	
1500 2 1/4 " " " 6.40	HAND MADE	
1000 3 " " " 5.00	48 9 in. pots in crate, \$4.80	
800 3 1/4 " " " 5.80	48 10 " " " 4.80	
800 4 " " " 4.50	24 11 " " " 8.60	
820 5 " " " 4.61	24 12 " " " 4.80	
144 8 " " " 8.18	12 14 " " " 4.80	
	8 18 " " " 4.60	

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.
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**TOBACCO DUST OR SAW DUST
WHICH??**

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New York
Dear Sirs-

Please ship me as follows

100 lbs Fumigating Tobacco powder	\$3.00
100 " Black stuff fine	2.00
144 sheets Apliedide	3.50
10 Fumigating plates	.50
	<u>\$9.00</u>

Send the powder by freight, the Apliedide by express prepaid. I enclose check for \$9.00
Three or four years ago I had a bag of the Black stuff fine and it was without exception the best tobacco powder I have ever had. Since then I got some stuff from a seedhouse. I paid more for the article and got left on it. It was worse like sawdust than anything else. Now I am coming back to you.

Yours truly
C. E. Stevens.

Say, Stevens, we would sure like to know from you and others like you "why you stray away" to folks who don't know tobacco powder from sawdust. We have been telling you and others in a hundred different ways how smart we are in the way of tobacco powder; that we have been in the tobacco powder business for twenty years, and why our tobacco powder should be and is, twenty years **AHEAD OF ALL OTHERS.** Again we ask, why you let the fellows that don't know, skin you, who should know, that the **BLACK STUFF FINE TOBACCO POWDER**, for dusting, at 2c. per pound, in our bag holding 100 pounds, with our name, address and brand on each bag, sold only by us, direct to you, is the **only one. WE WOULD LIKE TO KNOW.**

THE H. A. STOOHOFF COMPANY,
116 West Street, New York, N. Y.

Sheep Manure

Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton N. J.

IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

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You know just as well as we do that a wide house takes half the amount for sides; no more roof and a good deal less framing than two narrow houses covering the same space; that you actually save nothing in the end, but lose by building narrow houses. Besides all this, think of the proven out economy in heating and the splendid, rightly tempered ventilation you get. There's not a better house made than our 40 foot Iron Frame one. We know it will save you money. Write us today, tomorrow you'll be too busy.



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GREENHOUSE DESIGNERS AND BUILDERS.
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still, assure himself of the capacity of the boiler in square feet of glass to a certain temperature. I would not care to run the boiler you mention on more than 1,500 feet of 4-inch pipe and then only under the most favorable conditions. Your boiler is doing all that it is capable of doing and that means expense to you—in coal for instance. No boiler running up to its full "rated capacity" is doing economical work. Your sketch leads me to suppose that you take all your connections from the boiler to the main house, with one flow and return main. It is wrong for you to carry too much pipe for the size of the main. If you follow out my suggestion as to additional pipe, I would recommend the following: Put one extra pipe under the north and one under the south bench of the 26½-foot house. Arrange your boiler so that you can take off two flows and two returns for ¾-inch pipe, and allow one set to take care of the pipe under the north bench, and four of the pipes under the center bench, also carry the forcing house. This is absolutely necessary unless you run mains of proper size to feed the whole job, but that will be both expensive to you and will complicate the work somewhat. I think if you add the two pipes in the large house and make connections as direct, that your present boiler will work better and more heat be obtained; but for sure economy you need a new boiler.
U. G. SCOLLAY.



ALL HEART SUN DRIED CYPRESS

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TO BE
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Private or Commercial. Iron or Wood.
Factory and Yards: Fulton and Rose Ave. and Dwight St., Jersey City, N. J.

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Elsie—Grandma, did you ever have a garden?
Grandma—Not that I know of, dear.
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D) Firmly
See the Point **AF**
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Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
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BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

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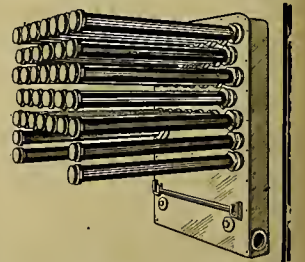
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Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



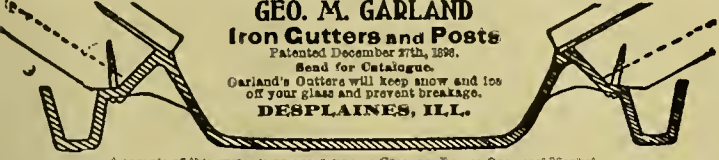
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4 ft. high. Can furnish lower if necessary. This boiler is designed and especially adapted for greenhouse service. The form of construction makes it very efficient and economical. Write for prices and booklet. Free Hose Trial, Pipe Fittings, Valves, Etc.

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PIERSON U-BAR CO. Send for Catalog
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Iron Gutters and Posts
 Patented December 27th, 1898.
Send for Catalogue.
 Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.
A sample of this gutter is on exhibition at Chicago Flower Show and Garden Winter

THE JENNINGS IMPROVED IRON GUTTER
 PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.
SEND FOR CIRCULARS
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 IS THE ONLY PERFECT HOT WATER BOILER
 Made in 15 sizes heating 6,000 to 50,000 square feet glass to 60° at 15 below zero.
Prices and Catalogues on application.
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 OUR GULF CYPRESS

GREENHOUSE MATERIAL
 CUT AND SPLICED, REQUIRE NO MECHANICS
 LET US ESTIMATE ON YOUR HEATING, VENTILATING APPARATUS, HOT-BED SASH
 Putty--**GREENHOUSE GLASS**--Points
 AT WHOLESALE
S. JACOBS & SONS,
 GREENHOUSE CONSTRUCTION MATERIAL
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EVERYBODY IS TALKING
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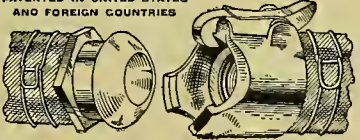
WE have just passed through an unusually severe winter and you are apt to forget the many sleepless nights you spent worrying about the temperature of that No. so and so house.

Or the many zero nights that you spent in the boiler pit; maybe you did not have to do the stoking and firing, but **you** certainly had to do the worrying and pay the coal bills.

Now keep the vows you made on those trying occasions, **And Send for me.** I have solved the problem for others, I can do it for you; and remember, I will come recommended by some of the most prominent commercial florists and gardeners in the East, "Personal friends of yours."

Wm. H. Lutton, Heating Engineer
 WEST SIDE AVE. STATION, JERSEY CITY, N. J.

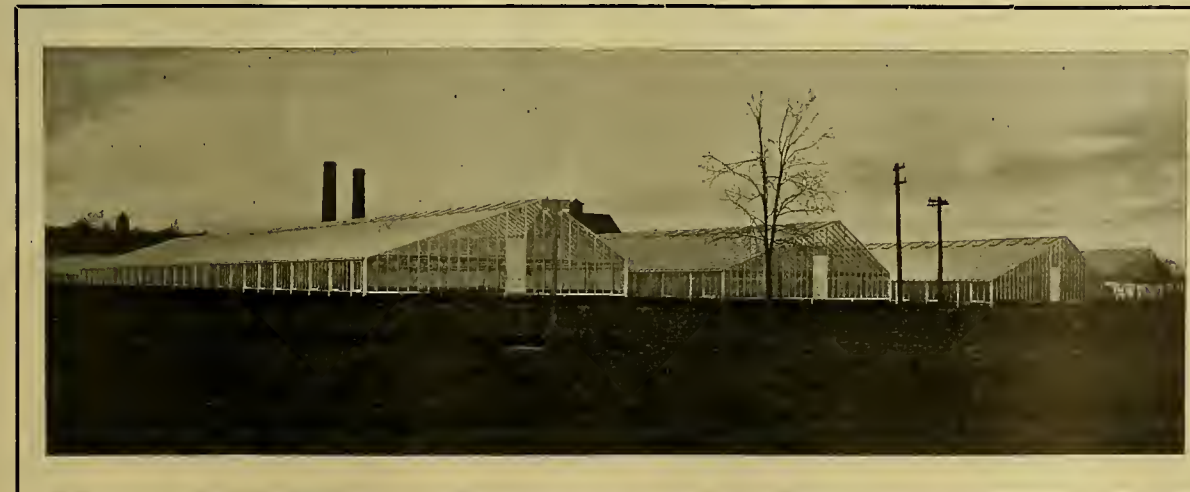
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 ALL SIZES
 16x24 A. & B. Double a Specialty
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IF you are going to build a greenhouse consult the pioneers in the manufacture of the stock. Cypress sash bars 32 feet or longer.

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WHOLESALE TRADE LIST

Ageratum Princess Pauline, Inimitable, Blue Perfection; **Heliotrope**, Cupheas, Ipomoea, heavenly blue; variegated **Periwinkle**, **Cobaea Scandens**, **Parlor Ivy**, **Lobellias**, dwarf; **Snapdragon**, giant white; **Nasturtiums**, **Saxifraga Sarmentosa**, **Bouvardia Humboldtii**; **Shasta Daisies** 3 varieties; **Stokesia Cyanus**, Night blooming **Jasmine**, **Hydrangeas**, **Thos. Hogg**, **Otakas**; **Verbenas**, **Petunias**, **Howard's Star**, and **Rosy Morn**. The above nice plants from 2 1/2 in. pots, 50c. per doz., \$3.00 per 100.

Anthericum Vitatum, **Salvia**, Ball of Fire; **Fuchsias**, in variety; **Heliotrope**, variegated **Geraniums**, Mrs. Parker, **Rose Geraniums**, **Clematis Poniculata**, **Swainsona Alba**. **Moonvine**, the true white large flowering variety; **Yellow Daisy**, **Etoile d'Or**, **Feverfew**, **Little Gem**, **Ageratum**, Inimitable. Strong plants from 3 in. pots, \$4.00 per 100.

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Seedlings From Flats, **Asparagus Sprengeri**, **Dracaena Indivisa**, **Shasta Daisies**, **Ageratum**, Blue Perfection; **Marguerite Carnations** for Summer blooming \$1.00 per 100.

Clematis, large flowering varieties, fine, healthy 2 year-old plants; home grown; **Jackmanni**, **Henryi**, \$3.00 per doz.

Clematis Poniculata, 4 in. pots, \$1.50 per doz.; \$10.00 per 100.

Ampelopsis Veltchii, 3 in. \$5.00 per 100.

Hardy Scotch Pinks, clumps from open ground, 5 varieties, \$1.00 per doz.; nice young plants, \$3.00 per 100.

Asparagus Plumosus, and **Sprengeri**, fine plants, 5 in. pots, \$2.00 per doz.

Passiflora Coerulea and **Pifordii**, **Mammoth Beanty**, a hardy variety, 4 in. pots, \$1.00 per doz.; 3 in. pots 75c. per doz.

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Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your requirements.

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Sash opening apparatus and all kinds of greenhouse structural material.



The STANDARD VENTILATING MACHINERY

The original machine with self oiling cups; the most powerful, least complicated very compact, with ease of operation.

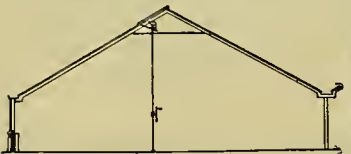
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The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

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Manufacturers of IRON FRAME GREENHOUSES
Re-enforcing for Concrete "Post and Board" Walls. Ventilating Machinery, Iron Fittings, Iron Purlins and Gutters for wood houses, etc., etc.
Send for catalogue and designs.



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That we manufacture Steam and Hot Water Boilers.
That we contract for and erect Heating Apparatus.
That we make a specialty of curing defective apparatus.
That our staff of Heating Engineers is reliable and competent.
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That it will pay you to get our suggestions and estimates.

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WHAT do you gain by buying your materials of one firm, boiler of another, ventilating of a third, and so on, until you have literally built your house in installments?

Now, suppose a number of these installments go wrong, or are not thoroughly satisfactory to you—you must thresh each one out with each separate firm; each firm transacting business in a different way—all that bother, all that annoyance—and then you don't get what you want in the end! The following is a strong statement and we are prepared to back it up: The firms who only furnish materials and don't do erecting, don't know the erecting faults of their materials. How can they? The firm who sells you a boiler for your greenhouse—unless that boiler was made for greenhouse heating, it won't heat your greenhouse economically. This greenhouse business is a business in itself. Its requirements are so severe, it cannot be carried as a side line by any firm and that firm give you the expert information, or furnish you the best thing for the best place in your greenhouse. Every time a house is erected our construction expert sizes it up for weak points. These weak points are immediately taken up by the factory, and the next house the man buys is minus those weak points. You see we do admit that our houses can be improved, but we don't admit that any other firm is making as many and as rapid improvements, or has the factory or equipment to do this greenhouse business, as we have.

What do you know about our Semi-Iron House? The New Truss house? That Iron Frame construction? Send for catalog.

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Greenhouse Designers and Manufacturers.
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REMEMBER, Memorial Day is Coming

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Metal Wreaths and other appropriate metal designs.
Magnolia, Ruscus, Laurel and Moss Wreaths, all sizes.
Loose Magnolia and Laurel leaves, green or bronze, very handy to make up special designs.
Immortelles, all colors. Moss Pillows. Our renowned Wheat Sheaves. Cycas Leaves and Wreaths.
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IS SURE TO BRING RESULTS

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

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

Vol. XXIII. No. 22

NEW YORK AND CHICAGO, JUNE 1, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

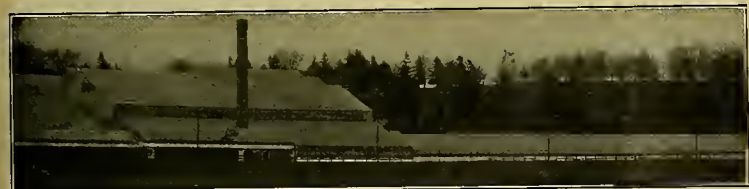
There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Echantrees and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Echantrees is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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



FOR

JUNE WEDDINGS

Asparagus Plumosus Nanus

CUT STRINGS, 50c. EACH

W. H. ELLIOTT, Brighton, Mass.

ASPARAGUS PLUMOSUS NANUS

Fresh greenhouse grown seed of highest vitality

Per 1000, \$4.00; 5000 for \$17.50; 10000 for \$30.00

RUSTIC HANGING BASKETS

Each.....	9-inch \$0.85	11-inch \$1.00	12-inch \$1.25	14-inch \$1.50
Dozen.....	9.50	11.00	13.00	16.00

CANE STAKES

6-8 feet, 100 for \$1.00; per 1000 \$6.00

Lil. Harrisii, Freesia, French Romans, Paper White Narcissus, Dutch Bulbs

Special Import Fall List ready; ask for it

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CHICAGO, 84 Randolph St.

Greenhouses, Western Springs

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DAHLIA PLANTS

We offer a collection of standard sorts that is second to none in the country, as far as covering the field of distinct useful varieties and novelties, running in price from \$2.00 per 100 to 50 cts. each.

We will send 1000 our selection, 50 each, 20 kinds for \$18.00 in either Cactus, Decorative or Show, or to include some of all classes, or 500, 25 each of 20 kinds for \$3.00, not less than 500 at this price.

DIGITALIS, mixed, strong, from 2 in. pots.....	100 2.00
FUCHSIAS, strong stock, from 2 in. pots, in ten good varieties.....	2.50 20.00
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HARDY CHRYSANTHEMUMS, large flowering or Aster varieties, \$3.00 per 100, \$25.00 per 1000.

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AGERATUM, Stella Gurney... \$2.00 18.00
Inimitable, Giant Blue..... 3.00 25.00

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PARLOR IVY, Senecio Scandens.....	100 2.00
SMILAX, good stock.....	2.00 18.00
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Mixed all colors.....	1.50 15.00

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GERANIUMS, standard varieties and novelties for \$2.00 per 100 up to 75c. each. We will send one thousand in twenty varieties. Our selection single and double for \$18.00.

Caesar Franck, Beautiful soft crimson Ivy Geraniums, 1905 Novelty, 25c. each, \$15.00 per doz., \$10.00 per 100.

Alliance, the handsome semi-double hybrid between an Ivy and a Zonal color of the Col. Baden-Powell, strong robust grower, \$1.50 per doz.; \$10.00 per 100.

Special offer for a short time. To introduce the newer varieties and to give an opportunity to have them thoroughly tested we will for a short time send one each of 100 varieties of the 1905 and 1906 novelties, our selection for \$10.00 cash. This collection will include those of such noted introducers as Bruant, Lemoine, Rozain-Bouchajat and H. Cannell & Sons and represent one of the finest collections of geranium novelties ever offered in this country. Do not ask us to send less than 100 at this price. If you haven't our Geranium Catalogue send for it.

All stock is in A No. 1 condition and from 2 in. pots, unless otherwise stated.

Our wholesale catalogue to the trade only.

Visitors always welcome.

Cash With Order.

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Hanging Baskets

10 in Bowl \$1.10 Doz. \$11.00
 12 " " 1.25 " 13.00
 14 " " 1.50 " 16.00

BAMBOO CANES

Fresh from Cane Brakes \$6.00 1000

Raffia for tying purposes 14c. lb., 100 lbs. \$12.00.

Verbena Baskets, No. 2, 4 x 10 x 3 in. 100, \$2.00
 No. 3, 6 x 11 x 3 in. 100, \$2.25

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

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Are today The Choicest Primulas grown in America. The seeds are raised for us exclusively by an English grower who has the reputation of producing The Finest Primroses in Great Britain.

NOW IS THE TIME TO SOW

Pure White, Brilliant Pink, Deep Blue, Chiswick Red, Crimson, Salmon, Christmas Red and Superior Mixture at 50c. per 100 seeds or \$4.00 per 1000

OUR SEED IS STRONG IN GERMINATION

W. W. RAWSON & CO.
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Beautifully illustrated catalog, colored plate, etc., describing GROFF'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors. Write for it.

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Send for prices.
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 best possible grade, in cases of 1000 and 3000 pips each, at \$12.00 per 1000.

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 Everything of the highest grade.

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For Immediate Sowing

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GLADIOLUS BULBS

IN VARIETY AND MIXTURE.

Our trade list mailed on application.
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Commercial Violet Culture
 Price, \$1.50

The Florists' Exchange, 2-8 Duane St. New York,

JAMES VICK'S SONS, Seedsmen
 Rochester, N. Y., May 2-th, 1907.

Florists' Exchange, New York City.
 Gentlemen: In our letter of last week we hinted at plans for increasing our rapidly growing Wholesale Department. One of the lines along which we are working is the Fall Bulb Trade in which we are making a special feature of Import Prices on orders which are sent to us now.

For Quality our stock cannot be surpassed. The truth of this statement is supported by the fact that our Bulb business has nearly doubled in three years. If this does not show that our customers are pleased with our bulbs, we do not know what would.

If any of your readers want rock-bottom import prices we invite them to send us a list of their wants and get our quotations, or else drop us a postal for our Import Bulb List. Yours very truly,

JAMES VICK'S SONS.

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CHINESE PRIMROSE. Finest grown, large flowering, fringed, single and double. 15 varieties, mixed, 500 seeds, \$1.00; half pkt., 50c.

CEREBRIA. Finest, large flowering, dwarf, mixed, 1000 seeds, 50c.

GIANT PANSY. The best large-flowering varieties, critically selected, 5000 seeds, \$1.00; half pkt., 50c.; 500 seeds of Giant Mme. Perret pansy added to every \$1.00 pkt. of Giant Pansy.

PELUSIA OBOCNICA GRAND. Giant flowering mixed, 1000 seeds, 50c. Cash. Liberal extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa
 The Home of Primroses.

Giant Cinerarias

Mixture of perfect Colors
 Dwarf Hybrids } Each separate
 Semi-Dwarf Hybrids } Tr. Pkt. \$0.50
 O. V. ZANGEN, Seedsman, HOBOKEN N. J.
 5 Tr. Pkts. \$2.50

LILY BULBS, Sound and Plump

AURATUM 8 x 9-130 to the case—\$6.00 per Case.
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 Melpomene or Rubrum 8x9-125 to the case \$5.50 per Case.

FUNKIA VARIEGATA

\$3.00 per 100, \$25.00 per 1000. Strong, Divided Shoots.

Stumpp & Walter Co

50 BARCLAY STREET. NEW YORK

BARGAINS—NEED ROOM

CALADIUM ESCULENTUM, 5-7 per 100, \$1.00.
 CALADIUM ESCULENTUM, 7-9 per 100, \$2.50.
 CALADIUM ESCULENTUM, 9-11 per 100, \$4.50
 TUBEROUS ROOTED BEGONIAS, single, in 7 separate colors, extra fine, \$2.00 per 100.

CANNAS, extra selected stock, 2 to 4 eyes:
 Allemania, Austria, Burbank, Robusta, per 100 \$1.00.
 Martha Washington, Florence Vaughan, C. Henderson, Sec. Chabanne, Mile, Berat, Paul Marquant, Explorateur Crampbel, per 100, \$1.50.
 Coronet, America, Queen Charlotte, Egandale, President Carnot, per 100, \$2.00.

Extra fine dormant ROSES in the leading varieties on hand.

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FOR IMMEDIATE DELIVERY.

Per 100 Per 1000
 Kentia Belmoreana\$0.75 \$ 6.50
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 Dracaena Indivisa, \$2.00 per lb., per oz. 15c.
 Asparagus plumosus nanus, greenhouse grown, 75c. per 100 seeds, \$1.00 per 250 seeds, \$3.00 per 1000 seeds.
 Asparagus Sprengeri, 10c. per 100 seeds, 50c. per 1000 seeds,
 ARTHUR T. BODDINGTON,
 342 W. 14th Street, New York City

ASTER SEEDS

There is ample time to sow Asters for general crop. The seeds we offer are 1906 crop and of our own growing. Several of our customers advise us that they germinate a hundred per cent.

Queen of Market, in separate colors, white, light pink, rose, lavender and purple\$0.10 \$0.15 \$0.50
 Sunndrift, early white..... .35 1.00 3.00
 Daybreak25 .40 1.25
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 Late Branching, in separate colors, white, shell pink, light pink, bright rose, lavender and purple. .20 .30 .80
 Special prices quoted on large quantities.

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Lambert's Pure Culture Mushroom Spawn. Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized. Has never failed to run. Sold by Leading Seedsmen. Practical instructions on "Mushroom Culture" mailed free on application. American Spawna Co. St. Paul, Minn.

The American Carnation Price \$3.50
 A.T. DeLa Mare Pfg. & Pub. Co., 2 Duane St., New York

C. C. Morse & Co.
 SEED GROWERS
 171-173 Clay St., San Francisco, Cal.
 ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
 Warehouses, Santa Clara. Farms and Farm Headquarters, Carnadero, near Gilroy

ROEMER'S SUPERB PRIZE PANSIES
 The finest strain of Pansies in the World. Introducing and Grower of all the leading Novelties Highest Award International Exhibition Düsseldorf, 1906. Catalogue free on application.
 FRED. ROEMER, Seed Grower, Quedlinburg, Germany.

PERENNIAL FLOWER SEEDS
 Calceolarias and Cinerarias, W. & O's selected strain. Sure Crop Mushroom Spawns; English and Pure Culture, Central Park Lawn Grass.
 Special prices on application.
 WEEBER & DON, Seed Merchants
 114 Chambers Street, NEW YORK

BURPEE'S SEEDS

PHILADELPHIA
 Blue List of Wholesale Prices mailed only to those who plant for profit

ASPARAGUS PLUMOSUS NANUS (Greenhouse Grown) FINE PLUMP SEED \$5.00 per 1000 ESTABLISHED 1824
 Bridgeman's Seed Warehouse
 Rickards Bros., Props.
 37 EAST 19TH ST. Near Broadway NEW YORK CITY
 Telephone: 426 Gramercy

Choice Pansy Seed a Specialty
 Ask for price list and testimonials received from American nurserymen.
 V. FROMHOLD & COMPANY
 Pansy Seed Growers,
 Naumburg On Saale, Prov. Saxony, Germany

Sago Palm Stems

(CYCAS REVOLUTA)

We Have All Sizes—Stote What You Want
10 lbs. \$1.00; 25 lbs. \$2.00; 100 lbs. \$7.50; per case
(300 lbs.) \$21.00.
Single Tuberos Begonias, Large bulbs, separate
colors, per 100 \$1.75, per 1000, \$15.00.
Double Pearl Tuberoses, write for prices.
Highest Quality French and Dutch Bulbs.
Now is the time to book your orders.

JOHNSON SEED CO. 217 Market St.
PHILADELPHIA, PA.

Unexcelled for TABLE DECORATION, Ter-
rish centers, Windowboxes.



TRUE BRAZILIAN fancy leaved
CALADIUMS

(Not to be confounded with homegrown stock.)

We offer the **Trus Brazil** imported
stock in rarest named sorts, colors bril-
liant rose, fiery copper, transparent
white, violet shades, every bulb strong
with fine center shoot, each 30 cts., per
dozen, \$3.25; per 100, \$25.00.
"Try a few, GET something distinct
and NEW."

SEEDS FOR PRESENT SOWING

Asparagus plumosus nanus	100	1000
(True Greenhouse)	.....	\$0.40 \$3.00
Asparagus plumosus nsus		
Lathagus grown	.....	.25 1.75
Asparagus Sprenger, fresh		
crop	.....	.15 .75
Primula sinensis fimbriata, fresh		.75 .75
Pure white		
Pure white, yellow eye		
Fiery red		
Beautiful Rose	.....	.25 2.00
True blue		
Yellow or salmon		

PALM SEEDS

Areca lutescens	.....	.75 6.00
Kentia Belmoreana	.....	.65 5.00
Kentia Forsteriana, very rare	.....	.75 6.00
Phoenix rupicola	.....	.85 7.00
Phoenix Beclinata	.....	.40 3.00
Phoenix Canariensis	.....	.30 2.00

Our new Fall price list for all BULBS,
roots, etc. is out. A postal will bring
it.

H. H. BERGER & CO.

70 Warren St. NEW YORK CITY

FISCHER'S GRAND FREESIA PURITY

Will be ready for delivery in July.

PRICES:

1st grade, \$2.75 per 100; \$22.00 per 1000
2nd grade, \$2.25 per 100; \$18.00 per 1000;
250 at 1000 rates.

All orders up to 1000, sent free by mail.
Limited quantity of **MAMMOTH BULBS**,
at \$4.00 per 100.

Cash with order from unknown parties.

Rudolph Fischer,
SANTA ANITA, LOS ANGELES CO., CAL.

JOHN SCHEEPERS & CO.,

Arnhem, Holland

For Reliable Bulbs and Plants.

Florists Bulbs

Import Orders Now Booked.

Best Grades Only.
Write For Prices.

W. C. BECKERT,
ALLEGHENY, PA.

DAHLIAS and the DAHLIA MANUAL



An illustrated
up-to-date
work covering
the whole field
of Dahlia Cul-
ture. Price
35c.

Send for cat-
alogue of Dah-
lias, Gladioli
and Hardy
Plants. I handle
only the
cream of var-
ieties. M. r. s.
Winters, Mme.

Dael, Navajo, Dainty, Kriemhilde, etc.
My Dahlias have long been celebrated
as prize winners.

W. W. WILMORE, Dahlia
Specialist, Box 382, Denver, Colo.

ESTABLISHED 1900

POAT BROS.

BULB GROWERS

ETTRICKS, VA.

NARCISSI DAFFODILS
TULIPS IRIS, ETC.

Send For Catalogue.

All Bulb Growers

should not fail to send for our

"Special Bulb Offer"

It will be sure to in-
terest you. Address

HUBERT BULB CO.
R. F. D., No. 2 PORTSMOUTH, VA.

DAHLIAS. Field grown leading kinds
named for cut flowers,
whole roots, \$3.50 per 100.
40 leading kinds, named,
\$1.50, \$2.00 and \$3.00 per 100.
Giant single and double
fringed, salviae, phlox
Geraniums, Pelargonium,
Ageratum, Sweet Alyssum, Gem, Mauran-
die, etc. 2 1/2 in. \$2.00 per 100. Cash please.

SHELLROAD GREENHOUSES, Grange, BALTIMORE, MD.

TURNIP SEEDS

Write to us for prices by the
100 or 1000 pounds or more.
Now is the time to order.

D. Landreth Seed Company
BRISTOL, PENNSYLVANIA

LILIUM AURATUM

GOLDEN RAYED LILY OF JAPAN

Every florist should plant or pot
some of this magnificent Lily. We
offer good dormant, sound bulbs,
clean and repacked, at the follow-
ing close prices.

8 to 9 inch, \$4 00 per 100
9 to 11 inch, 7 00 per 100

LILIUM SPECIOSUM RUBRUM
Doz. 100 1000

8 to 9-inch bulbs \$0 75 \$5 50 \$50 00
9 to 11-inch bulbs 1 25 8 50 80 00

LILIUM SPECIOSUM MELPOMENE
Doz. 100 1000

8 to 9-inch bulbs \$0 75 \$5 00 \$55 00
9 to 11-inch bulbs 1 25 8 50 80 00

JAPANESE FERN BALLS
5-in., \$2.00 per doz.; \$15.00 per 100.

ARTHUR T. BODDINGTON
342 West 14th Street, New York City

East Bridgewater Dahlia Gardens

Not only has the largest, but the finest
collection of up-to-date **DAHLIAS**,
of any firm in America. Send for free
catalog, to the

Eastern Dahlia King, J. K. Alexander,
E. Bridgewater, Mass

DAHLIAS

Now is the time to place your order for
Bulbs which will insure you getting named
varieties in any quantity; delivery to be
made tble fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. PEACOCK, Inc.
ATCO N. J.

IF YOU NEED Summer-Flowering Bulbs

German or Japan Iris,
write us for prices. We have the stock and can
give you satisfaction.

JOHN LEWIS CHILDS, Floral Park, N. Y.

PALM SEED

Sabal Palmetto, the hardest of all tall
growing palms, 30c. per 100 or \$2.50 per
1000. The same from 2 in. pots, four
leaves \$3.00 per 100. *Lantana Borbonica*,
4 in. pots, \$5.00 per 100, showing charac-
ter leaves; 3 in., \$5.00 per 100; 2 1/2 in. pots,
\$3.00 per 100; *Chammarops Excelsa*, 2 1/2 in.
pots, \$3.00 per 100; 3 in. pots, \$5.00 per 100,
showing character leaves.

E. M. WICHERS & COMPANY, Gretna, La.

BROUGHT THE LARGEST RETURNS

We would ask you now to drop
our advertisement. Two-thirds of
the returns we have received have
come from **The Florists' Exchange**.

ELLSWORTH BROWN & CO.

Please take out my advertise-
ment, as I am all sold out. Your
paper did the best of the lot.
Yours truly,
Samuel Whitton,
Hill Top Greenhouses, Utica, N. Y.

Advertise in **The Florists' Ex-
change** and be sure of results.

DAHLIAS

2 inch pots, 30 or 40 varieties, at
\$25.00 per 1000. Not less than five of
a kind at thousand rates.

ELIZABETH NURSERY CO., Elizabeth, N. J.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va.,
president; C. S. Burge, Toledo, O., first
vice-president; G. B. McVay, Birming-
ham, Ala., second vice-president; C. E.
Kendel, Cleveland, O., secretary and
treasurer; J. H. Ford, Ravenna, O., as-
sistant secretary.

AMERICAN SEED TRADE ASSOCIATION.

—The Hotel Astor, Times Square,
Broadway, between 44th and 45th
streets, New York, has been selected as
the headquarters for the twenty-fifth an-
nual convention of the association. Rates
are \$2.50 per day, one in a room, and
upward, for lodging. There are several
other hotels nearby, where rooms can
be had for \$1 or \$1.50 per day and up-
ward. There are eating houses in the
vicinity without number. The program
is shorter than some have been, but it
was deemed advisable to allow plenty
of time for the discussion of important
committee reports that will be presented
this year. Special attention is called
to the proposed changes in the by-laws,
one of which directly affects every mem-
ber. Special railroad rates were asked
for, but refused on account of the regu-
lar low rates that prevail in many East-
ern States. Rates may, however, be se-
cured in connection with the James-
town Exposition. C. E. KENDEL,
Secretary.

The following is the program of papers
to be read: "Reminiscences of the
Seed Trade," by F. W. Bruggerhof of
J. M. Thorburn & Company, New York;
"What the Department of Agriculture is
Doing for the Seed Trade," by Dr. B. T.
Galloway, Chief of Bureau of Plant In-
dustry, United States Department of
Agriculture; "History of the American
Seed Trade Association," by S. F. Wil-
lard of Comstock, Ferris & Company,
Wethersfield, Conn.; "The Congressional
Seed Distribution," by Alexander Forbes
of Peter Henderson & Company, New
York; "The Twentieth Century Seed
Catalogue," by J. Horace McFarland,
Harrisburg, Pa.; "Is it Advisable to
Offer Discounts from Catalogue Prices?"
by Walter P. Stokes, Philadelphia, Pa.

There will also be extended reports
of committees on seed adulteration, seed
legislation, and Government seed distri-
bution.

The changes in the by-laws include the
addition to Article 1, section 1, of the
following words: "If the personnel of
a firm or corporation is changed, mem-
bership can be continued only by unani-
mous vote of the Membership Commit-
tee." And section 3 of the same article
now reads: "Each member shall pay an
annual assessment of ten dollars, which
shall be due at the commencement of
each year."

The opening session begins at 10 a. m.,
Tuesday, June 25, 1907.

Following are the officers and commit-
tees for 1907: President, Henry W.
Wood, Richmond, Va.; first vice-presi-
dent, C. S. Burge, Toledo, O.; second
vice-president, G. B. McVay, Birming-
ham, Ala.; secretary-treasurer, C. E.
Kendel, Cleveland, O. Executive Com-
mittee.—W. H. Grenell, chairman,
Pierrepont Manor, New York; J. C.
Robinson, Waterloo, Neb.; Burnet Lan-
dreth, Bristol, Pa.; Carl C. Cropp, Chi-
cago, Ill.; M. H. Duryea, New York
City. Membership Committee.—Albert
McCullough, Cincinnati, Ohio; W. A.
Burpee, Philadelphia, Pa.; Chas. N.
Page, Des Moines, Ia. Committee on
Entertainment.—Marshall H. Duryea,
chairman; Alexander Forbes, A. L. Don,
Watson S. Woodruff, O. W. F. Randolph,
John Lewis Childs, C. L. Allen and Wil-
liam Jacot.

PHILADELPHIA, PA.—To-day (Sat-
urday, June 1) W. Atlee Burpee, ac-
companied by Mrs. Burpee and their
two sons, sail for London, England.

200,000 CALLA LILY BULBS --- ÆTHIOPICA



Calla Aethiopica, 10 inches circumference.	100	1000
" " " " " "	9	90
" " " " " "	8	80
" " " " " "	7	70
" " " " " "	6	60
" " " " " "	5	50
" " " " " "	4	40
" " " " " "	3	30

The above Bulbs are all warranted to be free from dis-
ease, and safe arrival is guaranteed. My first car leaves
for the East promptly on June 15. If cash is sent with
the order I will prepay the freight, which is 15 per cent.
value of the bulbs.

A. MITTING, 17-23 Kennan St., SANTA CRUZ, CAL.

PLANT CULTURE
THE BEST BOOK FOR THE PLANT GROWER PRICE \$1.00
A. T. DE LA MARE PTG. & PUB. CO. LTD., 2-8 DUANE STREET, NEW YORK

Prices Advertised in these Columns are for

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE

APPRAISERS' DECISION ON IRIS ROOTS.
 —In the protest of F. B. Vandegriff & Company against the assessment of duty by the collector of customs at the port of Chicago, before Board 3, May 13, 1907, the merchandise, which was classified as nursery stock under paragraph 252, tariff act of 1897, was claimed to be free of duty under paragraph 656 as bulbs and bulbous roots not edible and not otherwise provided for, the protest was overruled, and the following opinion handed down by General Appraiser Waite: "The goods are invoiced as 10,000 dry orris roots, and were returned by the appraiser as live iris plants. * * * In a supplemental report the appraiser states that the merchandise was found upon examination to be roots of the Florentine iris which had germinated and produced sprouts from 6 to 10 inches in length; and he further states, 'the original invoice description of these roots or plants seems to have been erroneous, as they could not be dry orris roots and have germinated in transit!'"

"The importers have not seen fit to introduce any evidence. While the Florentine iris is one of the varieties of iris-yielding orris root ('Iris,' International Encyclopædia), the board can not find upon the record before it that the importation is commercial orris root; neither can it say that the roots in question are not bulbs or bulbous roots, cultivated for their flowers, and dutiable as assessed, or at least at the same rate under the provision in paragraph 251 of the act for bulbs, bulbous roots, or corms which are cultivated for their flowers."

CHICAGO.—Peter Hollenbeck is fulfilling his citizen's duties by serving a term on the Grand Jury.

Leonard Vaughan and Charles Hollenbeck, who have been selected as a committee on transportation, are desirous of hearing from parties west of Chicago who would join the delegation here and travel with them to New York to attend the meeting of the American Seed Trade Association next month. It is hoped that a sufficient number may go to warrant the engaging of a special car.

Vaughan's Seed Store reports that their correspondents in San Francisco complain of a dull trade, owing to the strike.

At Winterson's Seed Store, as they approach the close of the second month of their existence as a concern, the man-

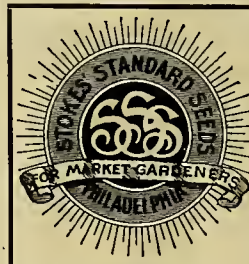
agement express themselves as much pleased with the success which has been meted out to them. W. K. W.

European Notes.

Le Roi est Mort; Vive le Roi. That is just how we feel, Mr. Editor. The season is dead, and in a few days our balance (or the lack of it) will reveal the best and the worst. One thing is certain, there will be very few millionaires, and yet almost all are agreed that the demand has, on the whole, been good; but prices have in many cases been simply ruinous.

The expected boom in clover seeds has not materialized and many of the heavy seed merchants are much discouraged. The bankruptcy of R. David & Company, Mark Lane, London, is announced to-day. Contrary to expectation the list of creditors contains only one name from your side, and only for a trifling amount.

The exhibition of the Royal Horticultural Society on May 14 brought W. J. James out of his retirement, and a more magnificent display of his giant form of *Calceolaria hybrida* has never before been seen. The award of the committee was singularly inadequate. Carters were equally badly treated over a grand display of cinerarias. The award of the



BARGAINS TO CLEAR

CALADIUM ESCULENTUM
 5 to 7 inch, \$1.50 per 100; 7 to 9 inch, \$3.00 per 100; 9 to 11 inch, \$5.00 per 100.
CANNA ROOTS, Per 100 **GLADIOLUS, Per 100 Per 1000**
 Pennsylvania, \$2.00 **Chilidal Hybrid, \$2.50 \$18.00**
 Chas. Henderson, 2.00 **Brenchloyensis, 1.50 12.00**

CYCAS REVOLUTA STEMS
 Just received large importation—long-leaved variety. Pot now for early winter sales. Assorted cases, 1 to 5 lbs., and 5 to 10 lbs. 10 lbs. \$1.00, 100 lbs. \$8.00; 800 lbs. to case, \$22.60.

Stokes Seed Store
 219 MARKET ST., PHILADELPHIA.

those of Low, Veitch, Rivers, and Rochford. It is hoped that an invitation will be issued by Sutton & Sons.

At the congress of this same body to be held in Paris from the 15th to the 17th of July, one of the subjects for discussion is: "The English have started a campaign against giving discounts to

now been superseded by better forms and larger fruits. Probably Sutton & Sons, of Reading, England, have done more than any other one firm in bringing up the hothouse melon to its high standard of today.

During the past ten years considerable space has been devoted to the cultivation of forcing melons in this country; that is, in private establishments. We here have the advantage of our cousins across the Atlantic in forcing this one of the best of all fruits. With care and space at command, ripe melons can be produced all through the Winter months, which cannot be accomplished on the other side, at least in England.

The accompanying illustration shows a seedling melon, raised by me two years ago, from a cross of Sutton's Royal Favorite with Sutton's A 1. It has proved superior to either of its parents, is a robust grower, and a capital variety for Winter forcing, having free setting qualities. I have tested it with Sutton's latest introductions of last season, such as Ringleader, Superb and Superlative, and am convinced that I must hold on to the seedling, as I can get better results from it than from any other variety that I have tested.

Probably a few remarks on the cultivation of melons may be of interest. Melons need careful treatment, whether grown in Summer or Winter; but as they are more liable to go wrong during the short days than at any other time, I shall confine my remarks to the Winter treatment.

In the first place, they must not get a check at any stage of their growth. Keep a night temperature of about 70 degrees, with a rise of ten degrees during the day. This is about a happy temperature for melons. Have the house well charged with moisture until the fruit commences to ripen, when a drier atmosphere is beneficial to bring up the flavor. Some may think that by growing melons through the short days the fruits are deficient in flavor. Yes, if the plants have received a check; but by maintaining the proper temperature, being very careful with airing, watering, etc., the flavor is equal to that of the Summer fruits, only the forced ones will not be quite as large. By confining the roots somewhat, say, on a raised bench, with two feet of soil and five inches deep, with proper feeding a good crop of melons will be produced. Manure water is good for the plants after the fruit is set, that from the cow barn being preferred. A little nitrate of soda afforded, say, a couple of times, will help swell the fruit, using about a tablespoonful of soda to three gallons of water. The compost for melons does not require much manure, but sod that has been laid up for a month or so, with a liberal amount of cow manure put on in layers; then, use the sod leaving out the manure. The plant will do better than with the manure. I find this makes an ideal compost, adding a little bone meal and wood ashes. Of course, a great deal depends on the house for the Winter forcing of melons; a small house is decidedly the best for this purpose, then it is an easy matter to keep up the desired temperature.

By following along the lines mentioned there should be no difficulty in having ripe melons for Christmas and New Year, and onward. One should figure on about three months from the time the seed is sown to the obtaining of the ripe fruit. WM. TURNER.



Turner's Seedling Forcing Melon
 (Sutton's Royal Favorite X Sutton's A 1)

gold medal to James Douglas's superb collection of auriculars was a little incongruous when the relative importance of the different articles is taken into consideration.

Sweet peas of the original type were well to the fore. Breadmore had a few of the newer kinds in fine shape; Mrs. Collier was particularly good.

A mild excitement still prevails respecting the Winter-flowering strains and in the Horticultural Advertiser appears a long letter from Ant. C. Zvolanek containing all that is worth knowing about the strain—except the name of the vetch.

One pleasant result of the *entente cordiale* at present existing between England and France is an excursion to London of the Fédération Nationale des Syndicats Horticoles de France from May 28 to June 1. Beginning with the Temple show of the R. H. S. visits will be paid to the principal horticultural establishments near London, including

gentlemen's gardeners. They have done this in the name of the dignity of the gardener. How can we carry out the same idea in France? This should put fresh courage into the gallant Captain of Bloomsdale in his campaign against graft in your country. He has the sympathy of every right-minded man.

EUROPEAN SEEDS.

Melons for Forcing.

The melon has been cultivated for generations. It is a native of the hot parts of Asia. Seed was first brought by missionaries from Asia into Rome; afterward it was introduced into France in 1495, then into England. But as with all other fruit, vast improvements have been made on the melon. Take, for instance, twenty years ago, when the standard varieties of hothouse melons were Colston Basset, Victory of Bath, Gilbert's Green Flesh, Eastnor Castle, Beechwood and a few others. Those varieties have

NEW CROP
FLOWER SEEDS

PANSY

Michell's Giant Exhibition

strain is the finest procurable. Produces Gigantic blooms beautifully marked, with plenty of light colors. Trade pkt. 50c.; 75c. per 1/2 oz.; oz \$5.00.

Also all other varieties of Pansies.

PRIMULA (Chinese)

Michell's Choicest Mixture

containing an assortment of bright colors; flowers very large. 1/2 trade pkt. 60c.; \$1.00 per trade pkt.; 1-16 oz. \$2.00.

Also all other varieties of Primula.

CINERARIA

Michell's Prize Mixture

Dwarf, 1/2 trade pkt. 60c.; trade pkt. \$1.00.

Medium Tall, 1/2 trade pkt. 60c.; trade pkt. \$1.00.

Also all other varieties of Cineraria. Send for Our Wholesale Price List.

HENRY F. MICHELL CO.

1018 Market St., PHILADELPHIA

June 1, 1907

HOLLAND BULB NOTES.—Last Saturday, Sunday and Monday we had such hot weather that hyacinths and tulips suffered very much. The temperature was 124 degrees (Fahr.) in the sun and 88 degrees in the shade. Many kinds of hyacinths burned yellow or brown and tulips, not planted in first quality ground, perished. In several kinds of tulips has appeared "stam fire," a disease not infecting the bulb, but causing an early death, so that the bulbs do not grow up to the standard. J. B.

IMPORTS OF SEEDS, ETC.—May 18 and 19.—P. O. Meanch, seven crates orchids. May 20.—Maltus & Ware, 42 cases plants; P. B. Vandegrift & Company, three bushels plants, one case plants.

EXPORTS OF SEEDS, ETC.—Shipped from New York to Havana, five packages seed, valued at \$145; to London, nine bags seed, valued at \$231.

CATALOGUES RECEIVED.

NIMMO & BLAIR. Dunedin, New Zealand. Illustrated Catalogue of Seeds, Bulbs, Plants, Implements, etc.

WOOD BROTHERS, Fishkill, N. Y.—Trade List of Roses, Cannas, Carnations, Chrysanthemums, and Miscellaneous Plants, Spring, 1907.

STEPHEN HOYT'S SONS COMPANY, New Canaan, Conn.—Illustrated Catalogue of Fruit and Ornamental Trees, Flowering Shrubs, Small Fruits, Evergreens, Roses, etc.

THE BEAUTIFYING OF COUNTRY HOMES. Siebrecht & Son, New Rochelle, N. Y.—This is the title of a handsomely gotten up catalogue, which contains an enumeration and descriptions as well as many very beautiful illustrations, of subjects suitable for the purpose indicated by the title of the pamphlet. There are comprehensive offerings of Evergreens, Hedge Plants, Deciduous Trees, and Trees of Drooping Habit, Flowering Shrubs, Fruit Trees, Roses and Miscellaneous Plants, the whole forming an interesting document, presented in the best style of the printer's art.

GRAFTED ROSES

On Best English Manetti Stock

3 in. pots; A No. 1 plants.

Chatenay	Wellesley	Richmond	Kaiserin	Moulton
.....
Own roots, from grafted stock, 3 in. pots.				
Moulton	.....	.....	.....	.....
Richmond	Killarney	Kaiserin	Wellesley	Brides
.....
Maids	.....	.....	.....	.....

S. J. REUTER WESTERLY, R. I.

ROSES

Strong, Healthy Plants—Cash with order

	2 1/2 in. pots	4 in. pots
Beauty	Per 100	Per 100
Richmond	3.50	30.00
Brides	3.00	25.00
Bridesmaid	3.00	25.00

ALFRED P. SMITH Madison, N. J.

BABY COCHETS, KAISERIN,
Rambler, in Tepitz, Hermosa, Richmond, Garnet
bloom, 2 1/2 in. La France, etc., 2 1/2 in. Testout, etc., 3 in.

THE LEEDLE FLORAL COMPANY
SPRINGFIELD-OHIO

KAISERIN ROSES

2 1/2 in. pots \$3.50 per 100; \$30.00 per 1000.
3 in. \$6.00 per 100.
Carnations all sold.
E. H. PYE, Upper Nyack, N. Y.

Your Money is well spent when you advertise in
THE FLORISTS' EXCHANGE

ROSE PLANTS

From 2 1/2 inch Pots. Ready for Shipment.

Richmond	.....	\$2.50 per hundred	Liberty	.....	\$4.00 per hundred
Bridesmaid	.....	.....	Perle	.....	\$3.00 per thousand
Uncle John	.....	.....	Sunrise	.....	\$5.00 per hundred
Chatenay	.....	\$22.50 per thousand		.....	\$40.00 per thousand
Brides	.....	.....		.....	.....
Ivory	.....	.....		.....	.....

Killarney 2 inch pots Grafted Stock. \$12.50 per Hundred

BENCH PLANTS

One year old plants

American Beauty, \$10.00 per 100 ; \$75.00 per 1000
Bridesmaid, Bride, Chatenay, Uncle John, Ivory, Sunrise, Liberty and Perle, \$5.00 per 100 ; \$40.00 per 1000

Peter Reinberg, No. 51 Wabash Avenue, Chicago

WE WOULD LIKE TO FIGURE ON

Your Bulb Catalogue

FOR SUMMER AND FALL, 1907

¶ We would take great pleasure in being afforded an opportunity to figure on your forthcoming Bulb Catalogue for Summer and Fall, 1907. ¶ Our photographers, located at several different points, have given us quite a supply of brand new and valuable photographs, especially taken for this season's work. ¶ We can make attractive, taking covers in one, three or four colors, and, working under your suggestions, can get up the designs. ¶ We have the experience, material and brains to furnish you with a catalogue that will sell your goods. ¶ It will not cost you anything to have us give you a quotation. ¶ Kindly furnish us complete specifications and our estimate will be promptly forwarded you. ¶ Samples of our work will be mailed upon request.

A. T. DE LA MARE PTG. & PUB. CO. Ltd.
Nos. 2 to 8 Duane St., New York

HERBACEOUS PERENNIALS

Achilles, the Pearl	Per doz.	Per 100	Helleborus, Multiflorus Maximus	Per doz.	Per 100
Agrostemma, Coronaria.....	.....	.....	Helleborus, Scaber Major.....	.....	.....
Aquilegia, Cerulea.....	.....	.....	Hibiscus, Moschutos, Crimson Eye.....	.....	.....
Artemisia, Abrotanum.....	.....	.....	Papaver Orientale, 4 inch pots.....	.....	.....
Purshiana, Stelleriana.....	.....	.....	Lilistis, Pycnostachya.....	.....	.....
Arabis, Alpina.....	.....	.....	Monarda, Piperita.....	.....	.....
Boltonia, Asteroides.....	.....	.....	Myosotis, Palustris Semperflorens.....	.....	.....
Campanula, Grossecki, Functata.....	.....	.....	Hypericum Mosaicum, 2 1/2 in. pots.....	.....	.....
Ranunculus, Mastacanthus.....	.....	.....	Physostegia, Virgatica.....	.....	.....
Caryopteris, Roses.....	.....	.....	Rudbeckia, Golden Glow Newmanii.....	.....	.....
Digitaria, Gloxiniflora.....	.....	.....	Salvia, Azurea Grandiflora.....	.....	.....
White, Purple Rose.....	.....	.....	Sedum, Acre.....	.....	.....
Eupatorium, Ageratoides, Celestium.....	.....	.....	Tritoma, Pfitzeri.....	.....	.....

Chrysanthemum Stock, 2 1/4 in. Pots

PINK	Per 100	WHITE	Per 100
A. J. Esclair	.....	Ivory	.....
Dr. Boguehard	.....	Mad. Berzmann	.....
Glory of the Pacific	.....	Alice Byron	.....
Maud Dean	.....	Mrs. H. Robinson	.....
Mrs. Coombs	.....	Polly Rose	.....
Pink Ivory	.....	Timothy Eaton	.....
	.....	White Dean	.....
YELLOW	Per 100		.....
Col. D. Appleton
Oct. Sunshine
McGowan
Gold Mine
Yel. Estee
Major Boonsfloo

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Grafted rose plants, 2 1/2 and 3 in. pots, \$12.00 per 100; \$100.00 per 1000. Brides, Bridesmaids, Killarney, Richmond.
Brides, Bridesmaids, own roots, 3 in., \$6.00 per 100; \$50.00 per 1000.

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Roses Fine Healthy Stock

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American Beauty, 3 1/2 in.	\$80.00
Bridesmaid and Bride, 3 1/2 in.	46.00
Carnation Crusader, 2 1/2 in.	27.50
Carnation Boston Market, 2 1/2 in.	27.50

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On best English Manetti, 2 1/2 to 3 1/2 in. pots, \$10.00 and \$12.50 per 100.
MONTROSE GREENHOUSES, MONTROSE, MASS.

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R. C., 75c; 2 in., \$2.00.
REX BEGONIA, 2 in., \$3.00; 4 in., \$8.00. **ASPARAGUS SPRENGERI,** 2 \$2.00 per 100. **ABAUCAERIAS,** 60c. and 75c. each. **CANNAS,** Austria, \$1.50; America, \$1.50; D. Harum, \$2.00; Pennsylvania, \$1.50; E. Gray, \$3.90 Marlborough, \$2.00; Italia, \$1.60; A. Bouvier, \$2.00; C. Henderson, \$2.00; Egandale, \$3.00 per 100.

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Hydrangea Otaksa,

Asparagus Sprengeri,
Vinca Variegata, Smilax
Strong, clean stock, out of 2 1/4 in.,
\$2.50 PER 100.

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AMSTERDAM, N. Y.

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Wellesley & Chatenay
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Much superior to the old BABY RAMBLER in color and growth. A beautiful soft pink, semi-double blooming in large clusters, perfectly hardy and the best new bedding rose yet introduced. We have only a few thousand to offer. **STRONG PLANTS 2½ IN. POTS AT \$15.00 PER 100.**

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ARISTOLOCHIA SIPHO

Strong, \$25.00 per 100.

Double Flowering ALMOND, 3 to 4 ft., \$15.00 per 100. Oriental PLANE, 2 to 2½ in., \$125.00 per 100. Send list of wants for prices. Ask for catalogue.

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ROSES : CANNAS

The season for planting **Roses** and **Cannas** is at hand. Be sure and send for our catalogue to-day. Fine assortment.

THE CONARD & JONES COMPANY,
WEST GROVE, PA.

FOR SALE

4400 RICHMOND PLANTS, out of 3½ inch pots.

1500 KILLARNEY PLANTS, out of 3½ inch pots.

2000 MRS. J. P. MORGAN PLANTS, out of 2¼ inch pots.

These are fine plants. Propagated for our own use. Sold because of change in planting plans. Prices: 3½ in. size, 8c. each, 2¼ in. size, 5c. each. Cash with order please.

BENJAMIN DORRANCE, Rose Grower,
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10,000 Berberis Thunbergii, 18 to 24 in., \$50.00 per 1000.
15,000 Berberis Thunbergii, 15 to 18 in., \$40.00 per 1000.
All are 2 year old transplanted, fine, bushy stock. 2,000 Myrtle, nice plants, \$45.00 per 1000. 8,000 choice Dahlia roots for sale, cheap.

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Hardy Nursery Stock, such as H. P. Roses, Rhododendrons, Azaleas, Clematis, Boxwood, Choice Evergreens, Peonies, etc.
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If you have a counter trade, either in plants, seeds, flowers or bulbs, you should have a supply of these leaflets on hand to present to your customers when they seek cultural information about their purchases.

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I had very good results from my advertisement in your paper.

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Conducted by Joseph Meehan.

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Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Sesger, Rochester, N. Y., secretary; C. L. Yacca, Rochester, N. Y., treasurer.

PLANT FOR NAME.—Rex.—The name of your specimen is *Cercis japonica*, the Japanese Judas tree. It can be increased from soft wood cuttings, but as the bushes seed freely when but a few feet high and seeds grow readily, rarely any other method of propagation is attempted. J. M.

GRAFTING MAGNOLIAS ON THE TULIP TREE.—Can any species of magnolia be grafted on the tulip tree? REX.

—It is probable magnolias could be grafted on the tulip tree, but as the *M. tripetala* is easily raised from seeds and it is a good stock for all other kinds, it is much used for that purpose. *M. acuminata* is also used, but as it makes fewer fibers than *M. tripetala* it does not transplant as well. J. M.

CAMPHOR INDUSTRY.—Secretary James Wilson of the Department of Agriculture, in a recent address delivered before the American Club of Pittsburg, declared that the United States was successfully experimenting in the production of camphor. He said, in part: "For years the Department has been distributing camphor tree seed and thousands of trees are now growing throughout the South and in the Pacific Coast States. Two years ago a serious effort was made to develop the manufacture of camphor from these trees. By improvements in manufacturing processes satisfactory results have been accomplished and a large manufacturing concern is now building up a camphor grove of 2,000 acres in Florida, from which it hopes to make its camphor. This firm uses more than \$500,000 worth of camphor every year.

A Japanese newspaper states that the Tokyo government has on foot a project for the extensive planting of forests of camphor trees. The demand for camphor increases, having now reached over 10,500,000 pounds annually, and it will not be long until it reaches 13,000,000 pounds, says the Japanese authority.

EVERGREEN SEEDLINGS.—A decision adverse to the government was rendered by the United States Circuit Court, Southern District of New York, on May 14, 1907, in the case of the United States against P. Ouwerkerk. The view of the court is that "Species of the laurel (*Aucuba japonica* and *Kalmia latifolia*) and of the rhododendron (*Rhododendron ponticum*), which retain their verdure throughout the year, are 'evergreens' within the meaning of paragraph 252, tariff act of 1897; and under said paragraph seedlings of these plants are dutiable as 'evergreen seedlings' rather than as 'nursery stock.'"

The case relates to three varieties of plants, designated as *Aucuba japonica* or Japanese laurel, *Rhododendron ponticum*, and *Kalmia latifolia* or American laurel, which the board held dutiable under the provision of "evergreen seedling" in paragraph 252, tariff act of 1897, rather than as "nursery stock" under the same paragraph, as classified by the collector. The government's contention as stated in the petition is that the board was in error in holding that the word "evergreens" as applied to plants covers not only those commonly known as "evergreens" but also other plants which retain their verdure through all seasons, among which are the rhododendrons and laurel in question.

Seasonable Topics.

Anjou pear still heads the list of good Winter varieties. It is a large fruit, of excellent quality and a sure bearer. Had it a good color it would be still more esteemed than it is.

Pterostyrax hispidum flowers when it reaches a height of about 8 feet. It is one of the finest of flowering small trees of Japan, almost rivaling the *wistaria*. It blooms in early June.

Ampelopsis Veitchii is planted to cover the trunks of living trees just as English ivy is. Care must be taken that it does not overlap the foliage of the tree or it will destroy it. Trumpet vine and any other self-climbing vine can also be used in a similar way.

Lespedeza bicolor, *Desmodium penduliflorum*, as it is called, is an excellent plant to set in an open wood. It delights in partial shade and the soil that woods afford it. It is of a herbaceous nature, though used as a shrub by many.

Morus alba and its variety, the Russian mulberry are grown to produce leaves for food for silk worms by those interested in that industry. Two sets of trees

are grown, the leaves being gathered from one block one year and from the other the next, so as not to weaken the trees greatly.

The American white ash of many Western nurserymen is but the green ash, *Fraxinus viridis*. It does not make so large a tree as the white ash, which is *Fraxinus alba*, or *F. americana*. Its foliage falls a little earlier in Autumn.

Japanese Judas tree is a handsomer species than our native one. The flowers are deep pink and more showy than those of the other, and it is not of as tall growth. It blooms in mid-May, when flowering bushes of its type are rare.

Winter comes, there will be a goodly number of them to be found. Such a tree, root pruned in July, would be in condition to transplant in eighteen months.

The branches of trees can often be pruned to advantage at the time the roots are, allowing for the sharpening of the trees at the same time.

In the case of small trees, it is not always necessary to dig a trench around them to find their roots; a spade thrust down will meet with them and cut them off.

Cerasus Japonica Rosa Pendula.

It is from the trees and shrubs that flower in early Spring that the most pleasure comes. It matters not how indifferent one may be to flowers the first days of Spring will be apt to find him in his garden looking about for green shoots springing from the ground. The lever of plants does more than this. The trees and bushes are visited to note if the Winter has left them in good order or not, and to see if the buds show evidence of the breath of Spring. And when a little later the buds have not only burst but flowers are expanded, there is felt a joy in living, and it is almost impossible to cease walking from hush to hush to enjoy the feast the flowers present.

There are many reasons why the Japanese weeping cherry is found in all collections; the chief ones are its weeping character, its lovely pink blossom buds and its early flowering. Its weeping habit is almost peculiar to itself. As the illustration shows, it is in the class of those that keep ascending as it grows, yet with this it has a good deal of the habit of those that do not make a leader, forming a broad, spreading growth, which is much admired. As it develops it forms a distinctly graceful tree. We think its beauty is at its height when the flower buds are just about to burst, because they are of a pink color. When expanded the white of the corolla is shown, making a greater display of flowers and clothing the tree prettily.

This beautiful weeper goes under the name of *Cerasus japonica rosea pendula*. What is really its correct name it is hard to say. English authorities call it a form of *Cerasus sinensis*; but the *C. sinensis* of our collectors has little about it resembling this weeper, neither in character of wood nor foliage. We think we can well afford to hold on to the name horticulturists know it by until it gets upset, if it ever does.

It will be noticed that the specimen before us has been allowed to branch at about three feet from the ground. When worked at six feet, as they often are, the trees form hovers grateful to those seeking shade in Summer. The foliage is ample, while not being too dense. We have seen the trees worked on mazzard stocks of over six feet in height, forming exceedingly cozy arbors.

As mentioned, the drooping character of this cherry is peculiar to itself, calling for the planting of it by everyone looking for variety, to say nothing of all the other good qualities we have mentioned.

Pruning and Transplanting Pines.

In the transplanting of pines, perhaps no more fail than would be the case in an equal number of deciduous trees. With care that the roots are not permitted to become dry there is little risk of any of them dying. In fact, the Himalayan pine, the white, the cembra and the monticola of the Pacific Coast as well as all others of the white pine section, are of easy removal, the cembra being, in nursery language, hard to kill.

Why it is that pines, having as a rule so few roots, yet succeed fairly well, is because their leaves do not lose moisture as quickly as do the leaves of deciduous trees. And if the roots are kept moist all the time while transplanting is going on and a fair pruning be given the branches, the losses will be very few. The wood of pines is so heavy that when the trees are transplanted they become top heavy, swaying about in the wind, loosening the roots, and death follows. Austrian, Scotch and pitch pines are particularly of heavy tops, and these should have a good pruning hack, but not farther back than the live needles or they may fail to break afresh properly. JOSEPH MEEHAN.



CERASUS JAPONICA ROSEA PENDULA
Japan Weeping Cherry

Late Planting of Deciduous Stock.

Do what we will there are always some deciduous shrubs and trees we have not an opportunity of planting before their leaves appear. Sometimes it is really important that they be planted, in which case it is not impossible to do the work safely. The first thing that suggests itself to many is to strip off all the leaves and plant the trees, but to do this would be wrong. A portion of the leaves should be left alone, say, from a fourth to a half of them and to prevent these left-on leaves from wilting the tree should be deluged with water for a few days. By that time new fibers will have formed, and the tree can then sustain itself, and the leaves already on the tree will be of great use to it. To transplant a tree when in leaf is a great check to it, but the check is not nearly as severe as it is when all the leaves are stripped from the tree. Trees and shrubs have been transplanted when in leaf with great success treated as recommended. The water at the roots holds them safe for a few days, by which time the warmth of the ground and the moisture have encouraged root action.

Root Pruning Trees.

Those who have large trees to be removed for selling or for any other purpose, would find it very much to their interest to root prune them two years in advance of removal. This is especially true of large trees known to be of a difficult nature to transplant, such as oaks, hickories, magnolias and the like. When treated to a good root pruning, such trees are as safely removed as maples, for wherever a root is severed a half dozen small ones take its place, and these almost ensure the trees living.

The mode of root pruning is to dig around large trees to a depth sufficient to allow of meeting all the large roots. These roots are chopped off, making as clean a cut as can be, and then the soil is refilled around the tree. The distance from the trunk is to be regulated by the size of the tree, but a good guide is to dig a little closer to it than would be done were the tree to be removed at once.

The pruning may be done in Spring, Summer or Autumn, as time allows. Some nurserymen favor July for the work, the results being very favorable, and there being less pressure of work than at any other season. New roots follow at once, and by the time

THE FLORISTS' EXCHANGE

ROSES ===== CHRYSANTHEMUMS ===== BOUVARDIA ===== COLEUS

GRAFTED ROSES

We offer this year the following assortment: Bride, Bridesmaid, Bon Silene, Ivory, Gen. McArthur, Kate Moulton, Killarney, Mme. Caroline Testout, Mme. Hoste, Marechal Niel, Richmond, Souvenir De Wootton, Tom Field, Uncle John.

The above grafted from 2 1/2 inch pots, \$5.00 per 100; \$120.00 per 1,000 for a No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

The Baby Rambler, \$2.50 per doz.; \$15.00 per 100. American Beauty. On own roots, from 2 1/2 inch pots, \$3.00 per 100; \$75.00 per 1,000; 3-inch pots, \$12.00 per 100; \$100.00 per 1,000 April, May and June delivery.

Mme. Abel Chatenay, own roots, 2 1/2 inch pots, \$6.00 per 100; \$50.00 per 1,000.

CHRYSANTHEMUMS

WHITE

Early—Polly Rose, Willowbrook, White Shaw. Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka. Late—Mrs. McArthur, Chadwick, Adelia.

PINK

Early—Glory of the Pacific. Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, A. J. Balfour, William H. Duckham, Dr. Enguehard. Late—Maud Dean, The Harriott.

YELLOW

Early—Monrovia. Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham. Late—Golden Wedding, Major Bonafant, H. W. Reiman.

RED

Merstham's Red, Cullingfordii, Matchless. Rooted Cuttings, \$2.00 per 100; \$15.00 per 1,000.

NEWER VARIETIES

From 2 1/2 in. pots, \$6.00 per 100. Rooted Cuttings, \$4.00 per 100. Beatrice May, mid-season white. Mrs. James Marshall, mid-season pink. Mayor Weaver, mid-season pink. Mrs. Swinburn, late white. Jeannie Nonin, late white. Early Snow, early white.

Rosier, early pink. Old Gold, late yellow. October Frost, early white.

BOUVARDIA

Humboldtii Corymbinova, from 2 1/2 inch pots, \$5.00 per 100; \$45.00 per 1,000. This is the large White Jessamine flowered. The best variety in cultivation.

COLEUS

VERSCHAFFELTII, Golden Queen, Golden Badder, Fire Brand, Queen Victoria, fancy Coleus in variety, 2 in. pots, \$2.00 per 100; \$15.00 per 1,000.

VERSCHAFFELTII, Golden Queen, Golden Badder, 3 in. pots, \$3.00 per 100.

SALVIA, AGERATUM, HELIOTROPE, 2 in. pots, \$2.00 per 100; \$15.00 per 1,000.

A. N. PIERSON, CROMWELL, CONN.

COLEUS

Golden Bedder, Crimson Verschaffeltii and 15 fancy bedding varieties, 2 in. pots, \$1.50 per 100; \$15.00 per 1000.

GERANIUMS

Nutt, Buchner, Poltevine, Doyle, 3 in. pots, \$3.00 and \$4.00 per 100. Pansy Plants, small, 60c. per 100; \$5.00 per 1000; bud and bloom, \$1.00 per 100; \$8.00 per 1000.

- Table listing various plants like Fuchsias, Heliotropes, Salvia Bonfire, Vinca, Ageratum, Lobelia Compacta, etc. with prices per 100 and 1000.

CASH WITH ORDER. ERNEST HARRIS, DELANSON, N. Y.

ALTERNANTHERA

P. Major, 2-in., 2c. Aurea Nana, Rosea, 2-in., 2c. AGERATUM, white, Pauline Gurney, 2-in., 2c. ASTERS, \$3.00 per 100. CENTAUREA GYMNOCARPA, Dusty Miller, 2-in., 1 1/2c. COLIUS, 2-in., 2c. HELIOTROPE, dark, 2-in., 2c. SALVIA BONFIRE, 2 in., 1 1/2c. ROOTED CUTTINGS, prepaid per 100. Ageratum, white, Gurney, Pauline, 60c. Vinca variegata, 90c. Salvia Bonfire, 90c. Alternanthera, 3 kinds, 50c. Flowering Begonias, 3 kinds, \$1.25. Double Pentstemon, 10 kinds, \$1.00. Coleus, 10 kinds, 50c. Swainsonia Alba, \$1.00. Paris Daisy white and yellow, \$1.00. Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

ASTERS

Simple's, 5 colors, by mail 40c. per 100; \$2.00 per 1000 by express.

- Table listing plants like PHELIX, dwarf compacta, Trailing LANTANAS, CENTAUREA GYMNOCARPA, ZINNIAS, COSMOS, etc. with prices.

Cash with order please. GEO. J. HUGHES, Berlin, N. J.

VEGETABLE PLANTS

- Table listing vegetable plants like LETTUCE, Parsley, Beets, Celery, Egg Plants, Pepper, etc. with prices per 100 and 1000.

BEDDING STOCK

- Table listing bedding stock plants like Salvia Splendens, Begonia, Petunia, Lobelia Speciosa, Alyssum, Verbena, Forget-Me-Nots, Cobaea Scandens, Browallia Speciosa, Alternantheras, Hardy Pinks, Clothilde Soupert Rose, Rose, Kaiserin A. Victoria, etc. with prices.

The STORRS & HARRISON CO., PAINESVILLE, OHIO.

40,000 VERBENA PLANTS IN BUD AND BLOOM

Our Selection \$2.50 per 100; \$20.00 per 1000. Purchaser's Selection \$3.00 per 100; \$25.00 per 1000.

GRAFTED ROSES, the Finest and Best Grown. Liberty, Richmond, La France, Killarney... 3 1/2 in. pots... \$18.00 per 100. Bride, Bridesmaid, Golden Gate, Kaiserin... 3 1/2 in. pots... \$15.00 per 100. ROSES, Own Roots. Bride, Bridesmaid, Perle... 3 in. pots, \$7.00 per 100. La France, American Beauty... 3 in. pots, \$9.00 per 100. 100 Ivory, 100 Wootton, 100 Bon Silene, 100 Meteor, 100 Marechal Niel, 300 Liberty in 3 in. pots, which we offer at \$5.00 per 100. Good stock, 200 Golden Gate, in 3 in. pots at... \$7.00 per 100.

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THE WEEK'S WORK.

Timme's Timely Teachings.

Our Busy Season.

This week's work and that awaiting us in the following first half of June leaves but little time for lengthy discussion of perplexing subjects, so helpful at all times, or for reposeful musing, so useful to the hard worked mind or body. Spring, so it seems now, has arrived at last, bringing with it a little more than the usual amount of pressing duties to which we look forward every year as the culmination of a season's incessant activity.

Outdoor planting and the traffic in all sorts of material suitable for the purpose are now in full swing and will not come to a close for several weeks. A good opportunity to observe the trend of the plant trade, to note its tendencies and to speculate on its possibilities is now offered to grower and dealer. The grower in particular will not be long in finding out in what respect he acted wisely or otherwise when laying his plans for the season's business, a lesson to be relearned every year and never fully mastered. His judgment may have been at fault in adding a variety to his stock or in discarding another, in growing too much of this or too little of that sort of plants. The best and most far-sighted of growers is liable to make mistakes of this kind. Yes, it is even possible that he may make a still greater mistake by rashly or wrongly correcting the errors made this season in his preparations for another. It often happens that one kind of stock moves so slowly for a season or two that the grower feels justified in discarding it altogether, and then finds to his dismay that the call for it the following Spring is astonishingly great. If this particular kind of plant, though unknown and a slow seller, was really a good thing, it was sure to find its way to public favor, even if it took a year or two; and to discard it after it became better known and a thing wanted by nearly everybody, must be set down as a move in a direction right opposite to that which should have been taken.

Though it may be all true to speak of the rule of fad or fashion in the use of flowers, very little of whimsical favoritism is noticeable by anyone connected with the general plant trade. Nevertheless, it is perfectly correct to speak of some old standbys being pushed aside to make room for newer favorites and of some others just as old and long since lost sight of again coming into favor. Little of all this, however, is felt in the rush of a lively Spring trade, and only the most enterprising of florists and growers heed what to them seems valuable pointers.

One sign of to-day's progressive plant culture, however, must be unmistakably clear to everybody; it is the ever-growing call for the very best grades of whatever may be offered. Any and all plants, exceptionally well grown, find ready buyers, will outsell anything inferior in quality and lower in price. The outlook for poor growers and shabbily grown stock is not promising much for the future.

Plants and Planting.

Sturdy, vigorous stock, properly hardened off, is the right kind for outdoor planting, and this, even when not in bloom, is nowadays preferred by most buyers to flowering plants of branchless, lanky growth. Clean appearance improves a plant a hundredfold. One partly dried or dying leaf on a geranium, a fuchsia, dahlia or heliotrope spoils its looks to a greater degree than wilting does a bunch of flowers. Therefore, keep your stock clean, not only of dead leaves but also of disease spots, insects and weeds. All plants, sold or to be planted out, should be thoroughly moist at their roots when coming out of the pots; dry plants should never be sent out or set out.

The soil in which cannas, roses, pansies, verbenas, most perennials and some other things of like nature are to be planted, should contain considerable amounts of plant food in some form or other, well decayed barnyard litter being the best, inasmuch as it not only benefits the composition chemically but also mechanically by imparting porous texture. So also should the soil used in the filling

of vases and window boxes be quite rich, friable and not of a kind that easily hardens or bakes when somewhat dry. The felt-like matting of roots, sometimes found on plants when coming out of their pots, had better be loosened, torn away or cut off clean all around the ball of earth before such plants are put into the new ground. Plants shipped to or from a distance and dried out in transit must be dipped in water before being planted. A moderate degree of firmness imparted to the new soil all around the ball of roots and overspread with a layer of loose earth between the plants insures immediate headway in growth.

Hanging Baskets.

Every Spring we have calls for nicely filled hanging baskets for outdoor display. Two or three of these, suspended around a front veranda—yes, dozens of them about public buildings—present a pleasing sight, but require so much attention in the hot and dry days of Summer to keep them in good shape, that people with some experience in this phase of decorative endeavor are now rarely seen among those calling for hanging baskets. An earthenware basket especially, though alluringly fine when well filled and suspended from the rafters of a greenhouse, quickly becomes an eyesore and a nuisance when swung to the hot winds and scorching snarays of a freely exposed veranda. It is simply impossible to supply the needful amount of moisture to the roots or to hold it long enough for the common comfort of plant life or that of the veranda's owner. Hanging baskets for outdoors should be of wire, strongly made and well lined with sheet moss. Greedily feeding plants are of doubtful value for any kind of basket filling and should be avoided in selecting subjects for the purpose from the large number at our disposal suitable for such work. There is good excuse for the lavish use of Vinca major, it being the most durable of trailers; but it should be denied a place in hanging baskets, since, when confined to a small space, its rapid spread of over-voracious roots renders it the most undesirable of companion plants. One equally hardy and in many instances much more effective is the English ivy, largely made use of in Europe in all kinds of made-up combinations, where attractive creeping or hanging vines must be employed.

Hanging baskets of all makes are short-lived plant receptacles. The wooden rustic type is too frail for the hardships that hanging baskets under working contract are expected to endure. It decays rapidly, barely lasting a short season; a pity, too, for plants do well in it, and something nice might be accomplished in filling it with the least expenditure in material, skill or taste. The slightest accident in handling will break the earthenware bowl. The strongest made wire basket, unless entirely constructed of copper wire, rots away quickly, often beginning to drop one after the other of its iron ribs long before its contents are at their best. But in spite of all that might be said against the use of hanging baskets for outdoor effects, it is altogether in right line with the exactions of a flourishing retail trade to have in readiness and to furnish nicely filled baskets in whatever form, pattern or make-up they may be called for.

Memorial Day.

The trade in plants used exclusively for the decoration of cemetery lots at the close of May has gained in magnitude from year to year. Retail florists and growers of potted and bedding plants look forward to Memorial Day as one of the most important of business bringing events. It comes at a time when there is an abundance of material at ready disposal, when there is no lack of stock suitable for effective display or serviceable as fitting tokens of condolence and remembrance. Indeed, few are the plants not wholly appropriate for the occasion, if rightly placed, or failing in the fulfillment of this their most lofty mission, when offered by loving hands.

Flowering plants, mainly, and to some extent upright and trailing plants of brightly hued or deep green foliage, are most in demand by the larger class of Memorial Day customers. Of late the hardy kinds of flowering plants have come into favor as being the most satis-

factory for the purpose, while Vinca minor, Glechoma variegata and English ivies are still much used in connection with flowering greenhouse plants of all kinds. Here also, as everywhere, the geranium lends. Verbenas, lobelias and pansies are largely used. All plants in bloom find favor with the majority of buyers on Memorial Day, while the ornamental varieties of low growth used in formal bedding designs, such as coleus, cheveria, begonia, alternanthera, etc., at one time largely employed in the decoration of graves by well-to-do patrons, are not disposed of in such large numbers as formerly. The term Memorial Day, as far as the trade in plants is concerned, has a meaning not unlike that of the judicial court day, often lasting for several weeks, beginning long before and ending long after the thirtieth of May, a continuous flow of swiftly furthered business, mostly made up of small cash transactions, which nevertheless amount to considerable in the final summing up.

Stock Plants.

The good grower, or to be more correct, the grower of exceptionally good stock, loses no opportunity in making provisions for the future. He is especially anxious to secure the finest, the healthiest and most promising plants to be found among his stock-in-trade for future propagation, either as seed bearers, as producers of cuttings or as such that admit of being multiplied by runners, off-sets or division. In all collections of plants, in whatever stock we may grow commercially or for the pleasure to be extracted therefrom, there are always specimens to be found that excel the balance of the lot in some respect or other. These are the ones to be reserved for future stock, even should it be necessary to steal them away and out of sight from under the eyes of customers.

It is equally true that among any number of plants as usually grown for the general run of trade, it is never difficult to discover some that are far from being perfect, possibly so poor that they stand a slim chance of ever being purchased by anyone—a small loss in itself, but fraught with the element of mislook, so often complained of by some growers who invariably utilize these leftovers in working up a supply for a succeeding season. This is radically wrong; it fosters deterioration of stock and should never be practiced. This is an opportune time for the selection and setting aside of stock plants, the growers always bearing in mind that the very best is none too good for the purpose.

FRED. W. TIMME.

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We have the following stock in any size and quantity:

- SYLVIA SPLENDENS**, St. Louis and Bonfire.
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- GERMAN IVY**.
- RAMBLER ROSES**, in pots.
- HELIOTROPE**, Little Giant.

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- AGERATUM**, dwarf, best blue variety, 4 in. pots, \$7.00 per 100; 2½ in., \$3.00 per 100.
- BEGONIA VERNON**, finest strain, flowers as dark as blood. Seeds of this beautiful variety picked by myself from specimen plants in Zurich, Switzerland, on my trip to Europe last Summer, 1906, 4 in. pots, \$8.00 per 100; 3 in. pots, \$7.00 per 100.
- SCARLET SAGE** or **SALVIA**. This is the genuine Clara Bedman or Bonfire variety of medium tall habit. Price, 4 in. pots, \$3.00 per 100.
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- NASTURTIUMS**, dwarf, all colors, \$7.00 per 100.
- FUCHSIAS**, mixed, good varieties, 6 to 6½ in. pots, 15c to 20c. each; 4 in. pots, \$1.20 per doz.
- CANNAS**, 10 good varieties, 4 in. pots, \$8.00 to \$10.00 per 100.
- HONEYSUCKLE**, 5 in. pots staked up. 15c. each.
- DAISIES**, Queen Alexandria and Marguerite (white), 6½ to 6 in. pots, 20c. to 25c. each.
- MUSK PLANTS** or **MIMULUS MOSCHATIS**, 2½ in., \$2.00 per 100.
- PETUNIA**, double, mixed, 4 in. pots, 8c. each, single California giant, ruffled or bicolored, 3 in. pots, \$4.00 per 100. Inimitable or dwarf variegated, 2½ in. pots, \$3.00 per 100.
- VERBENAS**, all shades, 2½ in. pots, \$3.00 per 100.
- ASPARAGUS PLUMOSUS NANUS**, 2½ in. pots, \$3.00 per 100.
- COLEUS**, Queen Victoria, Golden Bedder, Verschaffeltii, 2½ in. pots, \$3.00 per 100. Fancy varieties, 2½ in. pots, \$3.50 per 100.
- PHLOX DRUMMONDI**, 2½ in. pots, \$3.00 per 100.
- IVY**, English or hardy, 12 in. long, 4 in. pots, \$8.00 per 100. **IVY**, German or Parler, 2½ in. pots, \$2.00 per 100.
- CENTAUREA GYMNOCARPA** or **Dusty Miller**, 2½ in. pots, \$3.00 per 100.
- CUPHEA** or **CIGAR PLANT**, 2½ in. pots, \$3.00 per 100.
- LOBELIA**, dwarf or trailing, 2½ in. pots, \$3.00 per 100.
- SWEET ALYSSUM**, Little Gem, have 10,000 of them, 2½ in. pots, \$3.00 per 100.

- MARGOLD**, Eldorado Africana and Gold Ring, dwarf, 3 in. pots, \$4.00 per 100.
- COSMOS GRANDIFLORA**, white, red or pink, three plants in a 3 in. pot, separate colors, \$3.00 per 100.
- SALPIGLOSSIS VARIABILIS** (European), 2½ in. pots, \$3.00 per 100.
- THUNBERGIA** or **BLACK-EYED SUSAN**, 2½ in. pots, \$3.00 per 100.
- TOMATOES**, Stone, the best varieties, transplanted in boxes, \$1.00 per 100.
- MAURANDYA BARCLAYANA**, 2½ in. pots, \$4.00 per 100.
- ARAUCARIA ROBUSTA COMPACTA**, first importation. Have about 300 of this variety, only specimens, perfect tiers. Adapted for the lawn, front porches, cottages, hotels, etc. 7 in. pots, 4-6 tiers, 5 year old, 20 to 28 in. high, as broad as long, price, 1.75-\$2.00-\$2.50 to \$3.00 each.
- ARAUCARIA GLAUCA**, large specimens, 6 year old, 36 to 40 in. high, \$6 to 40 in. wide, 6 to 6 tiers, \$3.00-\$4.00-\$6.00 each.
- ARAUCARIA**, new importation. First consignment about 5,000, now arrived (Saturday, May 4), per steamer Manitou from Antwerp, and thereafter by every steamer up to June 1. Araucaria Excelsa, in their original packing, left planted in pots, 3 tiers, 10 to 12 in. high, 50c. larger sizes, 60c.-75c.-\$1.00 to \$1.25 each. Robusta, Compacta and Glauca from \$1.00-\$1.25 to \$1.60 each.
- COCOS WEDDELIANA**, 3 in. pots, 16 to 18 in. high, 16c. to 20c. each.
- ASTERS**, Enchantress, new, large blooming varieties, 3 in. \$4.00 per 100. Victoria, 3 shades, separate or mixed, \$3.00 per 100.
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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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



Chr. Peek.

Chr. Peek of Haarlem, Holland, traveling man for C. J. Speelman & Sons, Sassenheim, died suddenly of heart disease at Lille, France, last week. Mr. Peek had always been a healthy man and his death came as a great shock to his family and his many friends, who did not know he was sick. He was a young man, of only 28 years of age, and was very well known, and much liked in the bulb district. He had been representing different bulb exporters in various countries and was very successful. This Spring he traveled in the United States, where he made many friends. He is survived by his parents and one sister, who mourn his loss.

Arthur Bryant.

Arthur Bryant, head of the firm of Arthur Bryant & Son, nurserymen, Princeton, Ill., died suddenly on May 13 last. He was born near Princeton on May 13, 1834, and had been in the nursery business since 1875. Among other stocks the firm devotes considerable attention to peonies, Arthur Bryant, Jr., being a member of the American Peony Society.

Mr. Bryant was identified with several horticultural organizations in his home State, having at one time filled the office of president and again of treasurer of the State Horticultural Society. He had an intimate knowledge of trees and fruits, and distributed many new and valuable varieties.

T. W. Guy.

T. W. Guy, at one time prominent as a florist in St. Louis, died on Friday at St. James, Mo., aged 76. Mr. Guy was the father of E. W. Guy of Belleville, Ill. The funeral took place on Sunday afternoon.

Mr. Guy lived in retirement on his farm at St. James. A few years back he was located at Kimmswick, Mo., where he had a number of greenhouses. As far back as 1870 the firm of Horth & Guy operated a retail establishment at 614 Olive street, St. Louis. Mr. Guy at one time took a leading part in the affairs of the St. Louis Florists' Club, and all the trade were his friends. Many of these attended the funeral and sent floral offerings. We extend our sympathy to those he has left behind to mourn his loss. S. P.

Work of U. S. Department of Agriculture.

The annual reports of the United States Department of Agriculture for the fiscal year ending June 30, 1906, have just been issued, from which we take the following extracts containing information of direct interest to our readers:

HERBARIUM OF CULTIVATED PLANTS.—The economic botanical collection of the Bureau of Plant Industry, while containing a good representation of such economic groups as weeds, poisonous plants, medicinal plants and fiber plants, have not contained an adequate representation of cultivated plants in general. During the past year a systematic plan has been developed and put into operation to supply this need. An effort has been made especially to secure specimens of cultivated plants under the names by which they are offered in the trade by nurserymen, seedsmen and florists. From the unsatisfactory treatment of cultivated plants with which one in search of information is unusually confronted in the literature of botany, it appears either that less attention has been paid by botanists to cultivated than to wild plants or that the greater difficulty in the classification of domesticated species has baffled botanical students. Certain it is that all the groups of investigators who deal with cultivated plants need better accounts of their classification. The collection now in progress should aid materially in the making of such critical studies.

BERMUDA ONION INDUSTRY.—The work which has been conducted throughout the States of Texas and Louisiana in cooperation with the Office of Farm Management Investigations has been directed chiefly to the oversight of trucking problems in Louisiana and several truck farms in Texas, in the latter State the main feature of the work being a study of the Bermuda onion industry of southern Texas. Information has been gathered in regard to the methods practiced in the cultivation of this crop in the area where it is grown, and steps have been taken to develop, if possible, a coordinate industry in the production of Bermuda onion seed. To this end a number of especially select bulbs have been secured for testing in various localities in order to determine the feasibility of producing Bermuda onion seed in this country. There is an urgent necessity for investigation looking toward the development of some region in which seed of Bermuda onions can be successfully grown in order to meet the demand of the territory now devoted to the cultivation of this crop in southwest Texas. It is hoped that the fund will be available for the establishment of testing grounds in this region which will allow experiments to be conducted looking to the solution of this problem. Work along this line should be continued until it is determined whether or not satisfactory Bermuda onion seed can be grown in any portion of the United States.

Considerable work has been accomplished in the past season in breeding greenhouse carnations. Several seedlings show new departures from the parents in long stems, well-developed calyxes, and freedom in blooming. The croton has come into use during recent years for Summer planting in parks, the richly colored foliage of this tropical shrub making it very desirable for this purpose. Several new forms which promise well have been produced in the greenhouse, being improvements over already existing varieties. Other ornamental plants which have been taken up with a view to their improvement are the chrysanthemum, hippeastrum, poinsettia, and pelargonium.

BULB GROWING.—The experimental work on the growing of Dutch bulbs has been continued along the same lines as last year. An experiment with a private bulb-growing company has demonstrated that tulips and hyacinths, at least, can not be profitably grown under the conditions prevailing at a locality in North Carolina, and it is very doubtful whether narcissus bulbs can be profitably produced in that section. The experiments with the various fertilizers indicated that certain animal fertilizers were very injurious, whereas cowpans turned out to be the most favorable. Good results were obtained with the various phosphates in this section will not be continued, but there are indications that the extreme southern part of Texas may prove very favorable for the culture of the Bermuda lily, and experiments along this line have been planned for the coming year.

VARIETY TESTS OF VEGETABLES.—Tests of vegetable varieties have been carried on this year at Chico, Cal.; Pullman, Wash.; San Antonio, Tex., and at the Arlington Experimental Farm. A large additional amount of data has been accumulated which will be useful in the preparation of standard descriptions of the principal varieties and of important new varieties as they appear in the trade. This work is meeting with the indorsement of seedsmen and it is believed to be very important that it should be carried on until completed. In connection with the work studies on the effect of environment upon the production of seed have been carried on with sweet corn and cabbage. It has been found that environment has a marked effect upon the seed, and that the seed purchased for export progressed far enough to state positively how far this effect will influence the commercial qualities of the seed.

The principle study of the year, however, has been with varieties of beans, including the dwarf pole, and Lima varieties. This work has been actively pursued by Mr. W. W. Tracy, Jr., assistant botanist, under the direction of Mr. W. V. Tracy, Sr., superintendent of Testing Gardens, and is so far along that a report embodying a complete descriptive list of varieties of beans will be prepared in the near future.

During the past fiscal year the work of the Seed Laboratory, of which Mr. Edgar Brown is botanist in charge, has been carried on along lines similar to those mentioned in previous reports. Investigations have been conducted along the following lines:

SEED TESTING.—On account of the increasing demand for seed testing it has been found necessary to limit the number of tests made for any one firm or individual. In this way the work is more widely distributed and only the more difficult samples are received. There have been received during the year a total of 7,261 samples. Of these 1,392 were sent in through the custom-houses, and 5,869 were from farmers, seedsmen, and from the seed purchased for Congressional distribution. Of the total number 3,712 samples have been tested for germination, 1,260 for purity, and 1,526 have been examined for the presence of adulterants or dodder.

EXAMINATION OF SEEDS FOR ADULTERATION.

The Laboratory has been charged, as heretofore, with carrying out the law requiring the testing of seed samples secured in the open market and the publication of the names of all dealers from whom samples found to be adulterated are obtained.

During the year 2,047 samples of orchard grass, Kentucky bluegrass, red clover, and alfalfa seed have been obtained from dealers. The results of the examination of these samples, showing the number found to be adulterated, together with the names of the firms by whom adulterated samples were offered for sale, have been published in Circulars Nos. 14, 15, and 18 of the Office of the Secretary. This work has shown that orchard grass is the farm seed most subject to adulteration, both meadow fescue and the rye-grasses being used as the adulterant, according to the relative prices of these various kinds of seeds.

Alfalfa and red clover seed have both been found to be adulterated with the seed of yellow trefoil. Alfalfa has also been found to be adulterated with the seed of bur clover. The bur clover used is not, however, the commercial seed offered for sale in the United States, but is a by-product from the cleaning of South American wool imported from Germany for this purpose. As was pointed out in a previous report the only effective way of preventing the use of such seeds as yellow trefoil, bur clover, and Canada bluegrass as adulterants would be the levying on them of a duty making the price comparable to that of the seeds with which they are mixed.

As a result of the work on adulterated seeds, seedsmen are sending large numbers of samples to the Laboratory to be examined for the presence of adulterants and are giving more attention to the quality of seeds they are offering for sale. At the same time farmers are sending a larger number of samples for testing, as they are becoming acquainted with the fact that a number of the more common farm seeds are frequently subject to adulteration.

QUALITY OF IMPORTED SEEDS.—Among the 1,392 samples of grass and forage-plant seeds received through the various custom-houses during the past year all qualities of seed, from the very best to the very poorest, were represented. Among the poorer of these seeds is included much low-grade red-clover seed which is imported for the purpose of mixing with that of better quality. The larger part of the low-grade seed could not be sold alone in our market. Its only use is for mixing with seeds of better quality in producing intermediate grades. The use of this class of seed is doubtless more detrimental to agriculture than the use of the various seeds which are usually considered as adulterants.

PLANS FOR FUTURE WORK.—During the ensuing year more attention will be given to the study of the quality of seeds offered on the market, including tests for adulteration. Observations will be made on the growing and harvesting of forage-plant seeds, in order to determine any natural mixtures which occur in the fields. The work on the vitality of seed corn will be continued. More attention will be given to the perfecting of methods of testing, with a view to aiding the State experiment stations in establishing seed-testing laboratories.

All farm seeds distributed will be accompanied by a statement of the results of the tests for purity and germination as determined by this Laboratory. In this way an opportunity will be given farmers to judge the importance of knowing the quality of seeds before sowing, which is the practical benefit to be derived from buying guaranteed seeds.

GOVERNMENT AND STATE COMPETITION.—The free seed distribution by the Department of Agriculture through Congressmen has been denounced on all hands as tending to the pauperization of the recipients and an interference with legitimate trade in seeds. This bad practice has led to other practices equally objectionable. The Vermont Experiment Station proposes to keep a nursery and to distribute forest trees through the State. We submit that the funds appropriated to the stations were intended to promote investigation and the discovery of new facts in agriculture, and this growing of trees for distribution is a perversion of the purposes of the funds and an interference with legitimate business which is without an excuse.

In like manner, the practice of the Department of Agriculture in having essays prepared and published on the raising of chickens, cattle, pigs, beans, etc., is another encroachment on business that belongs to the publishers, and is not a proper use for the department funds, but is part and parcel of the paternalism that seems now so popular in Washington. No one can object to the Department of Agriculture publishing and distributing the results of station investigations for general distribution, translated into the plain language that farmers can understand. The results of the investigations for new things in foreign lands is also a legitimate matter for the department, but the employment of writers here and there over the country to prepare handbooks or essays on all sorts of topics on which books have been published for sale, and which essays are often compilations from these copyrighted books, is a serious interference with legitimate trade, and not the proper work for the Department of Agriculture. If the government officials are to go into all sorts of business and give away the results of the expenditure of the people's money, the seedsmen, nurserymen and book publishers might as well go out of business. The government had just as well go into the manufacture of farm implements and the breeding of live stock for free distribution. In fact, with the increase of paternalism these may come in time.—Practical Farmer.

June 1, 1907

OUR READERS' VIEWS

In Re Lord & Burnham Truss Houses.

Editor Florists' Exchange:

We have come across a marked article in "Gleanings in Bee Culture" for April, relative to Harvey & Sons' truss houses that collapsed, which we think presents the subject in a rather interesting way. It occurs to us that you might feel this article will appeal to your readers, so we are enclosing copy of same, which follows:

"On page 1595 of last year I said I would try to visit the locality near Philadelphia where mushroom-growing was such a great success. Through the kindness of H. P. Pawcett, of Brandywine Summit, I spent an hour or two in looking over the mushroom-growers. The first one was where they were grown under the greenhouse-beds. The firm of Harvey & Sons makes a specialty of carnations, and they have some of the finest up-to-date glass and steel structures it has ever been my fortune to visit. A little incident of recent occurrence particularly interested me. Lord & Burnham the material, drawings, specifications, etc., for a large, up-to-date greenhouse. I have forgotten the dimensions, but it was an immense affair. Harvey & Sons decided they could put up the buildings themselves if Lord & Burnham would furnish the materials. They did so; but during one of the recent heavy snowstorms the weight of the snow broke the house down. The loss on the house and contents was something like \$2000. As they put up the building themselves, they supposed the Lord & Burnham people would not consider themselves responsible. But it was one of their happy surprises when this great company looked the thing over and decided to make good the entire loss, because the engineer who had furnished specifications for material to be used had made an error. I mention this because I am glad to say a word for a worthy manufacturing firm."

Now a word about this "engineering error" mentioned in the article; perhaps you would like to know exactly what is referred to. Let us explain:

The main trusses in the Lord & Burnham construction are secured at the ridge by a wrought iron holdfast; this holdfast in turn is lag screwed to the ridge. To give this lag screw ample grip on the wood of the ridge the hole, of course, must be bored smaller than the screw itself, but this necessary precaution was not taken in the Harvey houses. Lord & Burnham simply furnished the material for these houses, and Harvey & Sons did their own erecting.

When the unusual strain of that terrific storm came upon the roof, these lag screws pulled out, liberating the holdfasts. Truss houses which were erected by Lord & Burnham themselves, withstood this storm perfectly.

All the trouble seemed to arise from the fact that Lord & Burnham, in shipping the materials to Harvey & Sons, did not caution them particularly in reference to this lag screw matter.

As a prevention against such a thing occurring again, the method of securing the holdfast to the ridge has been modified, and now instead of the lag screw being used, a bolt is passed completely through the ridge and is fastened on the under side by the usual nut.

It is rather interesting to note that Lord & Burnham are erecting eighteen of these houses for the United States Cut Flower Company of Elmira, N. Y., which concern has already tried out four houses of other truss construction. This carries with it a rather conclusive argument.

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Gladiolus America.

Editor Florists' Exchange:

I notice in your paper under date of May 4 extracts from one of "Neighbor" Christy's exhaustive articles; subject "probable truths" as to the origin of our new gladiolus America. Kindly publish the following in reply:

First, I wish to say "explicitly" that I suppose I am the originator of America. At least the first and original bulb was grown in our own seed beds and this from seed grown on our own place the previous year. It is supposed to be a cross between *gandavensis* and *Childsii*, the parentage having been purchased from Mr. Crawford and Mr. Childs.

I was never "a salesman" for "Neighbor" Christy, but he grew bulbs under contract for me for a few years. During that time I had his entire crop, except stock saved for planting by him. I paid him \$5 per 1000 and sold same for \$8 per 1000, and all in one common mixture. I make this statement to show the quality of stock he was growing. I never planted any of his stock but once, and then only a few bulbs left over from sales, and these were all sold in our cheap mixture the following season, not even the bulblets being saved.

Again, under date of May 18 in The Florists' Exchange I notice that Mr. Groff says that I stated to him at St. Louis in 1904 that I "did not know the origin of America." In this he is mistaken. I did not

tell him its origin, but I surely did not tell him that I did not know it myself. I could have had no object in so doing. Mr. Cowee was with him at this time. I gave them a circular, the same as the one enclosed in this letter, and after reading descriptions and examining photo halftones of the cut flowers, and showing me their exhibit that was staged at the Fair, neither he nor Mr. Cowee intimated in any way to me that they had in their collection, or had ever seen any variety like it. But Mr. Groff did say, however, very kindly that if I would ship him a few thousand of the bulbs he would plant them, examine the flowers, habit of growth, etc., and if he found it to be a variety of merit would give me his opinion to that effect, which he said would be of great value to me in disposing of my stock. I thanked him for his "kindness" and departed, but it is needless to say that I never sent the bulbs.

On January 22 of this year, Mr. Cowee called me up by 'phone from Ashtabula, O., and asked if I could fill an order for him for America bulbs; said he had bought one block of stock from Mr. Childs and wanted more. I asked him then if he did not think they should have bought America when I offered to sell same to Mr. Groff and himself at St. Louis Fair. "Yes," he said, "it is a good thing, but we did not know its value then."

If this statement does not fully cover the dispute between "Neighbor" Christy and Mr. Groff as to the "probable origin" of America, they will kindly let me know through The Florists' Exchange.

I have ignored this grab for notoriety up to the present time, but am now disposed to take a hand in the game myself.

FRANK BANNING.

Kinsman, O.

Winter-Flowering Sweet Peas.

Editor Florists' Exchange:

In replying to the communications of William Sim and Ant. C. Zvolanek, the following explanation may not be out of place; with the short note in May 11 issue of The Florists' Exchange, I had hoped my connection with this matter would cease. In the issue in question and the following one appeared articles by the gentlemen named that will bear a small amount of correction, and I trust they will pardon me if at times they find my argument a little pointed, as in order to make some things clear I find it necessary to repeat history.

The original sweet pea was a tall growing late flowering plant, then came Extra Early Blanche Ferry and Earliest of All in the pink class, and Emily Henderson and Mont Blanc in the white class, all in their time claimed to be sports. Then we had Christmas Pink and Florence Denzer, of vetch fame (Mr. Sim doubts this theory). Mr. Zvolanek, if he yet remembers, claims that Earliest of All is Christmas Pink renamed, and that Mont Blanc is Florence Denzer renamed; therefore, if what he claims can be substantiated Mr. Zvolanek and the vetch are responsible for all the Winter-flowering sweet peas in the world.

He is already reaching out and trying to discredit Mr. Engelmann by claiming that a few stray seeds of his strain managed to get in Mr. Engelmann's field before that gentleman claims to have purchased any.

Mr. Sim, why have you the right to doubt Mr. Engelmann any more than Mr. Zvolanek, inasmuch as he has failed to explain in a satisfactory manner the article alleged to have appeared on page 205, year 1902, of "Möller's Deutsche Gärtner-Zeitung"? If he discovered Florence Denzer growing among a batch of Emily Henderson, why, Mr. Sim, did not that same humble bee fix a few more seeds and have them bloom early? Why did the humble bee that was responsible for the white and pink and scarlet in the hatch of Earliest of All that I mentioned in a former article, not go a little farther and produce more seeds and scatter them broadcast? Why did the humble bee that was responsible for the lavender, which I mention, happen to fertilize only one seed and have it of the exact form and color of the original Lady Grisel Hamilton? Did you ever hear of a seedling being the exact counterpart of the parent? If this lavender sweet pea is a humble bee seedling, why does it come true the first season? Why does it not take three or four years to establish itself in its color and habit? Mr. Zvolanek seems to think it requires about that length of time to establish a variety. Thus far I have failed to find a single vine producing other than the one solid color in either the lavender, white or scarlet.

Why, Mr. Sim, have your views changed so decidedly since the tenth day of August, 1906, when you were visited by Enos W. Kohr, a grower of Lancaster, Pa., when while looking over your place a row of some half-dozen of Zvolanek's seedling peas were noticed growing side by side, and to Mr. Kohr's inquiry as to whether there was danger of the varieties mixing, you replied in the negative, and you also tried to show from the flower formation, that it was next to impossible for

an insect to procure and carry pollen from one flower to another?

Let any person who concerns himself enough to be informed, watch a humble bee or any other insect in a house or field of sweet peas, a half day or all day if he wish, and see whether Mr. Sim was right on the tenth day of August last, or whether his revised view is correct.

Further, on the same subject, you state that many of this class of sweet peas (wherein do they differ from the original?) have their pistils and pollen fully exposed. This, I must say, is entirely new to me, as barring, perhaps one in 10,000, and that one deformed and hardly capable of producing seed, I have never been able to see the pistils or pollen exposed.

Mr. Sim also stated that he has visited Mr. Zvolanek's place and there saw no sports growing. Now, Mr. Sim, did you examine the vines closely; did you get down and find out whether one branch of the plant produced purple flowers and the other pink; or did you only view the vines from the flower level? How, anyway, in the name of all that is remarkable, can you or any other person decide among 70 varieties, whether they are all seedlings or whether there are sports present?

Mr. Sim also neglects to tell us that his place has been for a number of years a trial ground for Zvolanek's new sweet peas. Perhaps we now come to a solution of this mystery. Mr. Sim is possibly not very observant, or he fears to antagonize his friend by claiming to have "sports."

As to the Captain of the Blues vines Mr. Sim has often seen growing, he neglects to inform us whether they were some of Zvolanek's stray seed or whether they bloomed late in the season (Mr. Engelmann claims his bloomed early). Late blooming vines of Captain of the Blues are common; in fact, I have never seen sweet peas growing under glass that did not have at least a few of these purple vines included.

Mr. Sim must also be using mixed seed; or will he admit that it might be possible these purple vines are sporting back to the original pea; to the same and other colors to which Mr. Zvolanek doubtless refers when he states in a pamphlet mailed with his seed last Autumn, that his seed must continually be re-selected under glass to insure it from reverting to the original late type. This is a very amusing statement so far as Christmas Pink and Florence Denzer are concerned, and any person who has visited his place during the Winter will verify my assertion, as there is no visible re-selection going on there.

Mr. Sim asks what I would have, had I made an effort to produce. This is easily answered. These sports are a fortunate beginning, and should I be so minded, by the aid of the brush and what Mr. Sim is pleased to call chance, and long enough time, I might have to my credit a long list of varieties.

Mr. Sim also says "What do you say, Mr. Zvolanek?" Mr. Zvolanek says: "I examined these vines and find they are not sports? They are individual (chance) seedlings." Gentlemen, did you read my former article aright, or have you succeeded in crossing the sweet pea with the honeysuckle, which would enable you to keep an original vine growing several seasons for examination?

Mr. Zvolanek says he failed to see the pink, white or scarlet "sports." The pink as before stated was lost; and as to the white and scarlet small wonder. The lavender was Mrs. Charles H. Totty and the others, too, might have been fortunate enough to have a name; they are here for examination, nevertheless.

In conclusion, we are coming together. "Chance" is their word, "sport" is mine. Let us define: Chance—something you get without effort, sometimes caused by a humble bee. Sport—something you get without effort, and are at least thankful for.

Rooks, Pa.

CHARLES M. WEAVER.

HAIL ASSOCIATION NOTES.—Twenty years ago the Florists' Hail Association was incorporated under the laws of New Jersey. The estimated value of the risks it is now carrying amounts to nearly \$2,000,000. It has upward of 1,400 active members at this date, and 27,000,000 of feet of glass insured. JOHN G. ESLER, Secretary.

ORIGIN OF RE-ENFORCED CONCRETE.—About forty years ago a French gardener, Joseph Monier, first conceived the idea of embedding metal in concrete in an endeavor to lessen the thickness of some flower pots he was making, and from this simple beginning, by slow stages and after much experimenting, the great system of reinforced concrete was evolved.—Cement.

NATIONAL COUNCIL OF HORTICULTURE.—The twelfth installment of the press service of this organization has been issued by James Burdett, Chicago, Ill. The subjects dealt with are: How to Grow Dahlias, Fertilizers, A Rockery for a Wild Garden, and Peonies.

Carpet Bedding.

Carpet bedding is not now popular in the sense it was some fifteen or twenty years ago. Then no private place with any claim to pretension was without one or more beds of that kind which entailed much labor on the part of the gardener and his assistants, more perhaps than the real worth of the beds completed deserved. But that was not the question under consideration; what was considered most was the necessity of conforming to the style in vogue, and that just as much in gardening as in the habiliments of the person.

The decline of this style of bedding was no more rapid in this country than it was in the countries of Europe, whence it came; but fortunately in the United States purposes were found for the material hitherto used for carpet bedding, a fact that prevented the plants so employed suffering neglect to any marked extent. In Europe, too, perhaps they are using these plants much in the same way as we are here, but in most of the countries over there the cost of production and the short duration of the seasons make the plants, relatively speaking, expensive and perhaps unanswerable for parks, cemeteries and other public places.

In this country alternantheras are used by the million for such purposes. And although, as has been noted, the style of carpet bedding has all but vanished as far as private places are concerned, the kinds of plants used in it are still grown in considerable numbers in many sections of the country for a different form of arrangement. They are planted in masses in beds and in wide and narrow borders, in different colors sometimes. Occasionally, too, borders and beds are planted of one color of alternanthera, with an edging of echeverias, pyrethrum, or lobelia; and, again, the planting of other kinds of plants is carried on so elaborately that often alternanthera is used to bring the scheme to a satisfactory conclusion. Alternanthera need not by any means be clipped in order to be decorative, although when several colors are planted in close proximity clipping intensifies both the colors and the contrasts. D.

SLUGS.—M. H. du Buysson, as cited in the "Moniteur du Jardinier," speaks very highly of the use of sulphate of iron, green vitriol. The crystals are scattered freely on the soil. The result is that the slugs are annihilated and the plants uninjured.



Bird's Eye View of Siebrecht & Son's Nurseries and Greenhouses, New Rochelle, N. Y.
Courtesy of the Firm.

AMONG THE GROWERS

Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.

To a lover of trees, and particularly one who admires specimens of hardy evergreens, we would recommend a visit to the nursery of Siebrecht & Son, New Rochelle, N. Y. On these extensive grounds nearly every kind of decorative tree and shrub is to be found, and as everything seems to be grown with a view to making specimens—that is, planting them far enough apart so that each individual tree or shrub has a chance to show its true character—a ramble through the grounds is most interesting at any time, particularly so at this

time of year, when all the evergreens are pushing forth their new growth. The nursery proper is located about half a mile beyond the greenhouses, but there are several acres planted in what may be termed the "home grounds," which surround the palatial residence of Mr. Siebrecht, Sr. Here are seen only perfect specimens, arranged mostly in blocks, which include varieties of one family only, so that the visitor can easily see the decorative features of the different sorts, and is afforded the opportunity of selecting those which show the characteristics desired without having to travel over such a large area as would be necessary if this method of planting had not been made. Without specifying the subjects seen, we may say that beautiful specimens of piceas, pinus, retinisporas, together with Sciadopitys verticillata and boxwoods in many different shapes and sizes are included in the collections. Deciduous, forest and shade trees are also represented by specimens of all the commercial kinds, including Japanese maples, hawthorns, magnolias; in fact, everything necessary in trees and shrubs for the full and complete equipment of a new estate is to be found here and of a high quality that is seldom seen.

In addition to the nurseries, there is, as is well known, a very extensive range of greenhouses, and everything pertaining to the commercial and private trade is grown in large numbers. Palms and orchids have always been specialties of this firm, and probably here is to be seen a collection of large-sized palms such as cannot be duplicated at any other establishment. These include commercial varieties of kentias; we also noticed that *Areca lutescens* is grown very extensively, there being many unusually large specimens on hand. One entire range of glass is devoted to palms,

and besides those mentioned there are many tall specimens of the fish-tail palm, *Caryota urens*, and quite a large collection of *Rhapis flabelliformis*, some of the latter being immense specimens from twelve to fifteen feet high. We also noticed some quite large specimens of *Pritchardia grandis*. That many of the palms are raised on the premises is evidenced by a look into the houses where seedlings are being grown by the hundred thousand. These include *cocos*, *livistonas*, *kentias*, etc., in all stages of development from those just showing the seed leaves to plants shifted into 4-inch pots, and their numbers seem countless.

One range of glass is devoted to rose culture, and a house of the variety Killarney seems as though it would produce plenty of flowers for Summer work.

Another interesting part of the establishment is where the heat-loving decorative plants are grown. There is a very complete stock of these in all sizes almost, in which are included such plants as *Ficus paucurata*, *dieffenbachias*, *dracenas* in several varieties, *anthuriums*, *Ficus variegata* (quite a collection of these variegated rubber plants), *Panax Victoriae*, *Pandanus utilis*, *crotons*; and in flowering plants, *gardenias*, *allamandas* and *bougainvilleas*.

Ferns form another feature here, and the large collection includes such as *Cibotium Schiedei*, *pteris* in many varieties, *davallias*, *Nephrolepis elegantissima*, *N. bostoniensis* and *N. cordata*, the latter being grown quite extensively. Some of the smaller tree ferns also are to be seen, such as *Lomaria gibba* and *Blechnum braziliense*. Of the large tree ferns there are some fair-sized plants of *dicksonias*. For cutting purposes, *Adiantum Farleyense* is grown quite heavily, and many thousand *selaginellas*, in several varieties, are also in evidence. Probably the largest stock of *staghorn ferns* in the country is found here.

As is to be expected the orchid houses do not present their best appearance at this time of the year. Orchids are a chief feature, however, and house after house is filled each with its special variety. *Cattleya Trianae*, *C. Mossiae* and other commercial *cattleyas*, together with *ocnidiums*, both of the *grandiflorum* and *splendidum* types; also *cypripediums* in variety, *coelogynes*, *laelias*, etc., all of which go to make up a complete collection of orchids for commercial and other purposes.

The importing of bay trees and other evergreens and the removal of large specimen trees from branches of the firm's business which are steadily increasing.

The greenhouses and nursery are under the capable management of Wm. Siebrecht, who, at the time of our visit, was busy superintending the shipment of several carloads of plants. Besides doing a large shipping business, the firm operates two large stores in New York City and one in Newport during the Summer season, all of which are mainly supplied with stock of the concern's own growing.

Chrysanthemum Sports.

No definite conclusion has been arrived at as to the cause of these productions, but every addition to our knowledge brings us nearer to the goal. On this account we call attention to a statement by M. Clement in *Le Chrysantheme*, to the effect that, in nine cases out of ten, the change is from light coloring to a darker shade. That yellow should be prominent in these sports is only what might have been expected from the ancestry of these plants. A yellow chrysanthemum is said rarely to produce a white flower, but a white variety may show yellow flowers; a red variety will throw maroon-colored blooms, a rose-colored form will sport into a salmon-colored one.—Gardeners' Chronicle, Eng.



Pyramidal Bay Trees Imported by Siebrecht & Son

Henry A. Siebrecht, Sr., in the Foreground

Courtesy of the Firm.

CLUB AND SOCIETY DOINGS.

LENOX (MASS.) HORTICULTURAL SOCIETY.—The regular meeting of the above society was held Saturday, May 18; President Heerenmans in the chair. In order to create a more lively interest in the society among the assistant gardeners and others, it was unanimously voted to reduce the initiation fee as much as possible; it is expected that this will result in a very considerable increase in membership, as many have expressed a desire to affiliate. The co-operation of all having the interest of the society and the profession at heart is cordially invited by the officers and members. Several inquiries, taken from the question box, created a very lively discussion, among the most interesting and instructive being "What causes hot water to circulate in pipes?" and "Does a moist atmosphere prevent red spider?" Judging from the remarks there would seem to be a large majority of the opinion that a moist atmosphere alone does not prevent red spider. Two very fine vases of gladiolus, Peach Blossom and Blushing Bride, were exhibited by S. Carlquist, for which he was awarded a certificate of merit. G. H. I.

ELBERON (N. J.) HORTICULTURAL SOCIETY.—The regular meeting of this society was held on May 20. The principal feature of the evening was an able paper on "Herbaceous Plants," read by W. D. Robertson. An interesting discussion followed.

The society will hold a rose and strawberry show on June 17, and arrangements are nearly completed for the society's second Summer show, which will be held on July 24 and 25. Many of the nurserymen and seedsmen have donated prizes for it. G. M.

Meeting of the American Peony Society.

The coming meeting of the American Peony Society, to be held in the new buildings of the College of Agriculture at Cornell University, Ithaca, N. Y., June 18 and 19, promises to be a very interesting one. The reason why the interest of peony lovers centers at Ithaca



New Agricultural Building, Cornell University, Ithaca, N. Y. Where Meeting and Exhibition of American Peony Society will be Held June 18-19, 1907

flower, and no one would expect all of this vast number to bloom this season. The plants passed the Winter in very good shape, however, and it is confidently expected that a large number of them will produce first-class blossoms this season. This year the season is unusually late, there having been a heavy fall of snow as late as May 11, and this may delay the blooming season as a whole to some extent.

Various members of the society will ship in blooms, and an exhibition will be staged in the new agricultural building just completed at Cornell. The only check-list of all varieties of peonies ever published in print, with descriptions, will be out from the press in time to be used at this meeting. This check-list gives references to all descriptions and illustrations with the authentic spelling of all names. The list includes over 2,700 distinct names, and forms the foundation upon which the difficult task of straightening out the nomenclature and arranging the synonyms in their proper groups will be based. Thus, a person with the check-list in his hand and the immense library at Cornell at his disposal, may easily and quickly look up the literature and pictures of any varieties in which he may be especially interested. These facilities, together with the specimen blooms staged in the exhibition hall and the extensive collection of varieties in the field, furnish an opportunity such as has never before been offered to the student of peonies.

Aside from the peonies, however, the meeting promises to be an unusually pleasant one. Coming as it does in commencement week, the visitor will find the University in gala attire. The campus, often pronounced the most beautiful college campus in the world, will be at its best. All of the buildings will be open and inviting inspection. The visitor upon whom business does not hold too firm a grip may linger a few days and enjoy some of the rare beauties of this unique and scenic region, for within easy reach of the University he may visit Enfield Falls and Gorge, Taugannock Falls (the highest east of Rocky Mountains), Ithaca Falls, Cayuga Lake in all its beauty, Buttermilk Glen and Falls, Coy Glen, and the beautiful Cascadilla Cascades. Into the peony exhibition hall itself comes faintly the sound of the great Triphammer Falls as they roar their welcome, and Forest Walk lures the stranger to view the waters of Beebe Lake as they plunge through the rocky caverns of Fall Creek Gorge.

Taking it all in all then, whether you are bent on business or pleasure or both, this year's peony meeting and exhibition is one which you can ill afford to miss.

J. E. C.

The premium list has been issued by Secretary Arthur H. Fewkes, Newton Highlands, Mass., from whom copies may be obtained on application.

Consignments of flowers for exhibition must be addressed to the State College of Agriculture, Department of Horticulture, Cornell University, Ithaca, N. Y.

Express charges on all exhibits must be prepaid, and should be so marked on the boxes, as no charges will be paid by the Manager of the exhibition.

All entries must be forwarded so as to reach the secretary, A. H. Fewkes, Newton Highlands, Mass., not later than Friday, June 14. Exhibitors from a distance will please note the date, and mail accordingly. While we do not wish to debar any one who wishes to make an exhibit, compliance with this rule will greatly facilitate the work of arrangement.

All entries not staged by 1:00 p. m., June 18, will be disqualified from any and all competition.

At least one flower of each variety, in exhibits for competition, must be plainly labeled with the correct name of the variety, when known, or the name under which it is grown by the exhibitor.

The regular business meeting will be held at 3:00

p. m., on the first day, June 18, at which time the society will be welcomed by either President Schurman or Dean Bailey.

An address will be made by J. Eliot Coit, of the Horticultural Department, who has had immediate charge of the test collection, and a paper of much value is expected.

Professor Craig, the chairman of the Nomenclature Committee, will make a report on the progress of the work of that committee, which undoubtedly will be of much interest.

As the test collection is now in its third year a fine opportunity is presented peony growers for studying the varieties as they grow in the field, as nowhere else can so many varieties be found growing together under such favorable circumstances as will be found at Ithaca.

Judges of the exhibits will be appointed at a preliminary session held previous to the regular meeting.

The Premium List. Herbaceous Peonies.

COMMERCIAL CLASSES—DOUBLE

- Class 1. Largest and best collection of varieties, one flower each—First, \$15; second, \$10; third, \$5.
- Class 2. Collection of best twelve and most distinct varieties, six flowers each—First, \$10; second, \$5.
- Class 3. Best collection of varieties in various shades of rose pink, three flowers each—First, \$10; second, \$5.
- Class 4. Best collection of varieties, salmon and flesh colored, three flowers each—First, \$10; second, \$5.
- Class 5. Best collection of white varieties, three flowers each—First, \$10; second, \$5.
- Class 6. Best collection of varieties, cream white and light yellow, three flowers each—First, \$10; second, \$5.
- Class 7. Best collection of crimson varieties, without stamens, three flowers each—First, \$10; second, \$5.
- Class 8. Best collection of crimson varieties, with stamens, three flowers each—First, \$10; second, \$5.
- Class 9. Best collection of tricolor varieties, including flowers with guard petals, collarete and center petals of different colors, three flowers each—First, \$10; second, \$5.
- Class 10. Best fifty blooms white—First, \$10; second, \$5.
- Class 11. Best fifty blooms dark pink or rose—First, \$10; second, \$5.
- Class 12. Best fifty blooms flesh or salmon pink—First, \$10; second, \$5.
- Class 13. Best fifty blooms crimson—First, \$10; second, \$5.

There are also classes open to amateur and private growers only.



Dean L. H. Bailey College of Agriculture, Cornell University, Ithaca, N. Y.

at this time, is because of the extensive collection of varieties which is being grown upon the experiment station grounds. All of these plants were donated by peony growers in various parts of Europe and America. Each variety sent in was supposed to be represented by three plants each. In many cases, however, only one plant of each variety was contributed. In all there have been received and planted nineteen hundred and thirty-three-lots of one, two, or three plants each. Most of these were sent in under name, but some bore numbers, while a few bore no labels whatever, being unnamed seedlings. The great majority of these plants are Chinese peonies, belonging to the species *Paeonia albiflora*, yet there is a generous sprinkling of officialis forms and various other species. One European grower sent in a number of grafted roots of *P. moutan*, but these are not expected to blossom this year.

Every peony grower knows that varieties differ widely in regard to the time it takes the plants to come into



J. Eliot Coit In Charge of Peony Tests, Horticultural Department, Cornell University, Ithaca, N. Y.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLORAL CO., 1708 Broadway, J. A. Valentine, Pres't. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dayton, O.

W. G. MATTHEWS, FLOREST, 16 West Third Street. Flowers in any arrangement for all occasions for Dayton and vicinity. Personal attention given to all orders. Long distance telephones.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Louisville, Ky.

JACOB SCHULZ, 644 4th Avenue. Personal attention given to out-of-town orders for Louisville and surrounding territory. Have a choice line of seasonable flowers always in stock; delivery facilities perfect.

Indianapolis, Ind.

BERTERMANN BROS. CO. Our facilities for executing orders in an efficient manner are unexcelled. Our shipping territory includes the surrounding states. High grade flowers; expert workmanship.

Albany, N. Y.

BYBES, 11 North Pearl Street, cut flowers or floral designs delivered to any part of Albany and vicinity on telegraphic order. Personal attention given and satisfaction guaranteed.

PROPAGATING THE ORIENTAL PLANE.—Please state how oriental plane trees are propagated—from seeds or cuttings, or otherwise? H.
New Jersey.

—The oriental plane is propagated nearly altogether from cuttings, but it grows readily from seeds as well. Cuttings are made of the shoots of the same season, cut off in early Winter, made into lengths of about a foot, tied in bundles, and placed away in a cool cellar, covered with sand, and planted in nursery rows early in Spring. Seeds are sown in Autumn or early Spring. The "button balls" hanging from the trees in the Fall are the seeds and need only crushing apart to be ready to be sowed. Either way of propagating, or both, can be followed and success expected. J. M.

FOR THE RETAILER

For reproduction on this page, we solicit from our readers engaged in the Retail Trade, good, clear photographs of subjects that are of general interest, such as store interiors, designs of different classes, new delivery wagons, etc.

Steamer Flowers.

The custom of sending flowers to friends on outgoing steamers has long been in vogue, and the business done every season in New York city has reached vast proportions, some of the leading florists having one or two wagon loads of boxes for every important sailing; and it is a poor florist indeed that doesn't get a share of steamer orders. A list of sailings is usually displayed in some attractive form. The latest idea as seen in some of the Broadway shops is to display a lithograph, or painting, of some crack ocean-going steamer, with an inscription below such as "Flowers delivered to all outgoing steamers," or "bon voyage."

Steamer orders are by no means confined to seaboard towns, and a great many of the best orders filled by New York florists are sent them by letter or telegram, by their out of town correspondents.

The value of telegraphic communication is not thoroughly appreciated by the majority of provincial florists; but there is no tangible reason why a florist in Pittsburgh or Chicago should not display his steamer sign, and with a little pushing do as much business in that line as is done in the coast towns.

The value of advertising in the trade papers cannot be too highly estimated, and a card in the retail column is undoubtedly a business getter, and most important during the migratory season, when travelers are going to Europe, whose friends wish to substantiate their farewells with floral offerings.

The custom of sending "steamer baskets," horse shoes, floral steamers, and the like, has been almost entirely done away with in the last few years, and it is only on rare occasions that one sees anything more pretentious than a bunch of roses tied with ribbon. Sometimes, as in the case of secret societies, the ribbon will be inscribed with the name of the society or club; but cut flowers, tastefully arranged in boxes, constitute the most popular form in which flowers are delivered.

A good way to arrange a box of flowers for the steamer, is to lay a handsome piece of ribbon across the empty box, and then arrange the roses or other flowers, nicely in the usual way, over the ribbon. When the arrangement is complete, take the ends of the ribbon and tie a bow over the flowers, and attach the card to one of the ribbon ends.

Another good idea is to so arrange it, that a box of flowers can be delivered every day on the voyage. Loose flowers are appropriate for both ladies and gentlemen, and if care is taken in selecting, the flowers will be delivered in excellent condition even on the last day.

Corsage bouquets are also very good for this, and invariably meet with great success. The more perishable flowers should be delivered on the first two or three days of the voyage, then American Beauty roses, cattleyas, and cypripediums will be found to last in perfect condition, even to the end of the voyage.

Boutonnieres can also be sent in this manner; a fresh one night and morning will be greatly appreciated. Flowers to be thus delivered should be sent in care of the chief steward, who will place them in the cold room and deliver according to instructions. A nominal fee paid by the florist will assure perfect satisfaction.

Occasionally an order is given to decorate a state room, or a suite; but the possibilities in this line are very limited, principally on account of the restricted space.

But if cut flowers are to be used, care must be taken to provide receptacles that will not easily tip over. The state room steward usually has a supply of papier mache vases, that are really most suitable for the purpose.

Growing plants can also be used. Orchids on blocks or in their cribs are very good, as they can be suspended from the ceiling or along the walls of the state room. Occasionally smilax or asparagus is utilized for an elaborate decoration, but is a little fussy and apt to be in the way.

There is usually such an over-abundance of flowers on the first few days of a voyage, that it is well to make a suggestion to the customer that the flowers be delivered about the third or fourth day out. They will then come as a surprise to the recipient, and will be much more appreciated.

Hardy Azaleas.

A superb display of hardy azaleas seen this week proves the value of these plants for window decoration at this time of the year, when flowering plants are particularly scarce. The window referred to was entirely filled with Azalea mollis, in colors ranging from pale yellow to deep orange. Azalea Hinoderigi and Azalea

amena were also employed in making a display that was unflinchingly attractive.

Dorothy Perkins Rose.

Dorothy Perkins rose, as a cut flower, should prove a splendid addition. The flowers sent to this market are cut from discarded pot plants, but there is nothing to equal them; the large sprays of bright pink roses being splendid for loose bouquets or vase work.

D. RAYBUN.

An Attractive Electric Fountain.

Last week, in our New York letter, we referred to a new electric fountain that had been placed on the market, at the same time calling the attention of all in the retail trade and others interested to the charming serviceable window decoration such a device would form during the Summer months, as well as for other purposes of the trade generally.



Portable Electric Fountain

a small electrical motor and a centrifugal pump, the latter placed in the interior of a basin and connected directly to the motor shaft. The pump gets the water directly from the basin and conveys it through the pipes and a multiplicity of small nozzles, thus producing cascades. The water, falling upon the dome, returns to the basin and thence again to the pump.

"Water connection—Once filled, it is not necessary to refill until the water diminishes by the process of evaporation. In the basin may be placed, besides water, scented or colored water or any disinfectant or any other thin fluid.

"The fountain being not more than 22 inches high and about 12 inches at base, may be placed in any private living rooms, private and public dining rooms and is a splendid decoration for banquets and weddings, and an attractive feature for restaurants and hotels. It may also be used for hygienic cooling and moistening of the air of rooms. It is a very attractive advertising medium. Its possibilities for decorative and utilitarian purposes are limitless.

"To produce the play of the fountain and its effects, it is only necessary to attach the wire to any circuit and turn on the switch. The dome is illuminated by an incandescent lamp, and revolves by means of a jet of water driven against flanges on the underside of the rim of the dome. In this way the most beautiful colored and prismatic effects are produced.

"The fountain is furnished complete in a number of designs and ready for use. Alternating or direct current motors are also furnished. All mechanism will be of standard sizes."

Destruction of Slugs and Snails.

A paragraph in the April number of the *Journal of the Board of Agriculture* mentions several ways in which slugs and snails may be destroyed. A quotation from a Mexican agricultural circular recommends the obvious but tedious remedy of hand-picking, and also says that, "Pieces of board smeared with fat on the underside are laid down in infested places, with room beneath for the snails to collect. Cabbage leaves with rancid butter on one side, melon rinds, and the leaves of the common acacia are useful in attracting snails. A useful trap for slugs may be made of an earthen flower-pot provided with a cover and having a row of holes round the middle. These pots are sunk in the ground so that the holes come about at the surface. The inside of the pot is smeared with beer, a small amount of which is put into a dish at the bottom. Another useful trap is a cone of galvanized iron bored with many holes, sunk in the ground and baited with pieces of potato, carrot or apple. When snails and slugs have been trapped they may be killed by being left for five hours in a five per cent solution of

BOHN SYPHON REFRIGERATOR

..FOR FLORISTS..

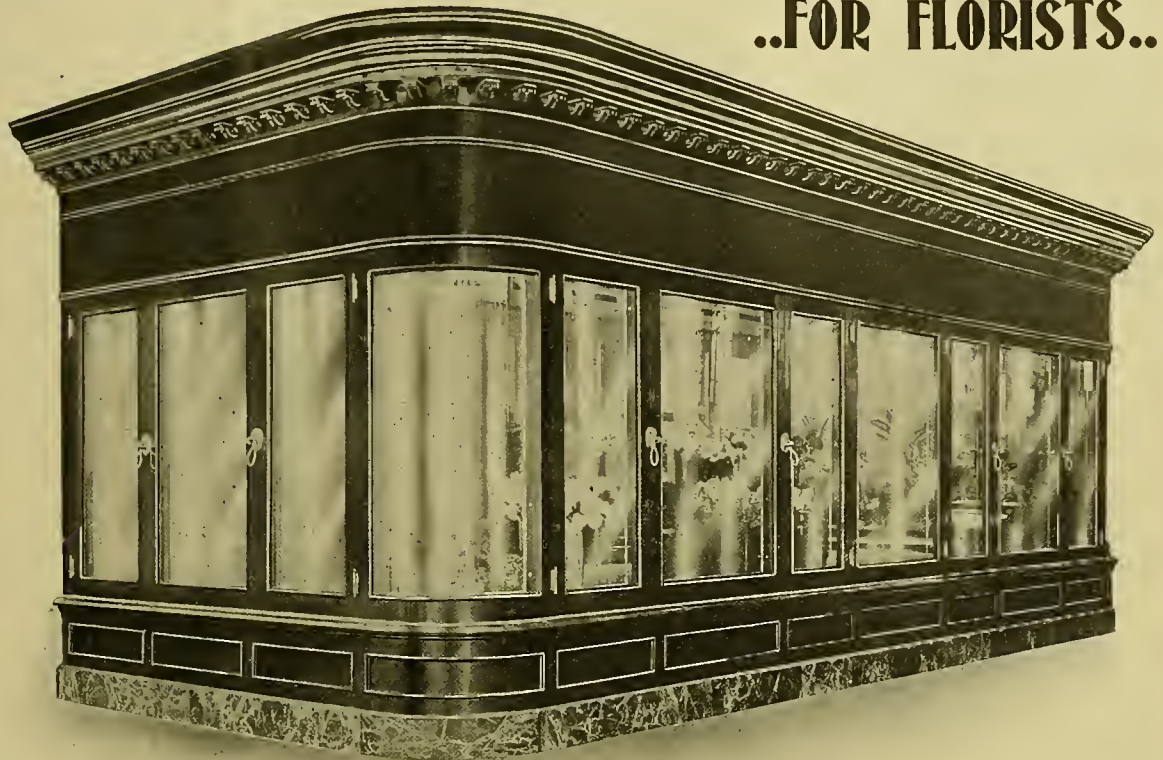
St. Paul, Minn., May 10, '07.
WHITE ENAMEL REFRIGERATOR CO., St. Paul.

Gentlemen:—We have now used the new show case which you installed for us about six months ago. We can say that it is everything you promised for it, and that is "perfection."

We don't know what else we could say except the first case which you built for us about seven years ago helped materially to our success. Your system is certainly ideal for keeping flowers.

The workmanship on this new case could not be better. We have had people say, "Why that is more finely finished than our piano."

Yours truly,
HOLM & OLSON.



STYLE "L" BUILT FOR HOLM & OLSON, ST. PAUL, MINN.

A Live Florist Cannot Afford to be Without a Bohn Patent Syphon Refrigerator.

Everyone who is familiar with it says 'It is the Ideal Florist's Refrigerator.'

Write for Catalogue, Dept. No. 36.
Manufactured by

WHITE ENAMEL REFRIGERATOR CO., St. Paul, Minn.

copper sulphate in water, or a two per cent solution of lime in water. These pests may be kept away from a garden by a rope of grass or fibre soaked in a ten per cent. solution of copper sulphate and stretched round the border. Bands of cloth soaked in this solution and fastened round the tree stems prevent the ascent of slugs and snails, while a solution of iron of sulphate twenty-five per cent to fifty per cent applied in a ring four inches wide round the trunk of the tree is also said to stop their passage. The pests may be killed in weeds, hedges, etc., by spraying with a one per cent solution of copper sulphate, or a one per cent. solution of common salt."—Gardeners' Chronicle, Eng.

Horticulture on the Pacific Coast.

This series of articles is intended to give Atlantic Coast readers of The Florists' Exchange some idea of the nursery and florists' business in Southern California. Methods of propagation, and of caring for stock in its infant stage of existence, the soil and the climate are so different from these factors in plant productions in the East, that a few statements of fact may help correct errors that prevail in the minds of at least some of the profession.

The Orange County Nursery at Fullerton, Cal., is one of considerable size, and while doing a general nursery business, makes a specialty of eucalyptus and acacia trees, camphor, Monterey cypress and pines. All of these are produced quickly, except the camphor—in from four to six months—and are sold in large numbers. The majority of this stock is transplanted from the seed bed into flats containing 100 plants, and there grown to a height of one to two feet when they are ready for the market. A great many are transplanted into quart

and pint cans and grown to a four-foot size. In "The Tales of a Traveler," which appeared in these columns several years ago, reference was made to the "can" part of the business with what appeared to the writer just a little sarcasm. There have been—and still exist—some good reasons for this kind of receptacle. When the propagation of plants was first begun here no flower pots were to be had, which was one good reason for using tin cans. When the pots were available the price was so high as to be almost prohibitive to poor tradesmen; finally, there were enough made to supply the demand at reasonable prices, but the "tin can" continues to be the "pot" for the majority of stock grown in this end of the State, and for two reasons: First, cheapness; second and the most important, because there is no evaporation from the sides of the vessel as in the case of pots, and as a matter of course the plants require less water to grow them. If not sold within a year the cans rot away; but to remove a plant from a can is the cause of more profanity than any other one thing in connection with the business.

To obviate the necessity of continual watering when plants are grown in pots, the progressive grower now plunges them in a mixture of shavings and sand, or sand alone. All pot grown plants are raised either in a lath or glass house. The dry atmosphere—sometimes as low as 12 per cent.—evaporates moisture rapidly even in partial shade.

The Hermosa Gardens, Fred. Rafferty, proprietor, Santa Ana, Cal., makes a specialty of lilies of the longiflora type, gladioli and palms. Of the lilies he now has a bed of 4,000 seedlings, grown from seed furnished by the United States Department of Agriculture. In this lot there appear to be five distinct types, some showing twenty-four flowers on the stem. They are 18 months old and have no signs of any disease. The same species

of lily does not seed here. He also has some Liliun Philippinense, which do well in partial shade. The foliage of this lily is very slender and graceful; a bed of fifteen or twenty thousand seedlings looks promising. With the thought in mind of raising calla bulbs free from disease, a lot of seeds were planted a little over a year ago. The plants are in bloom, but they too show signs of the fungoid troubles of their parents. Palms are grown in solid beds until large enough for 6 or 8-inch pots, then potted up; even made up specimens of the kentias are treated in this manner.

Experiments with Fischer Purity freesia, the stock having been obtained from a Chicago seed house, showed no difference either in color, number of flowers or length of stem from the ordinary freesia. Seeds of both kinds will be saved for further experiments.

At this place the writer recently saw for the first time some small plants of pimelea which is thought to be the variety decussata. It is of a beautiful pink color, having a terminal umbel two inches across. The plant when not in bloom, is easily mistaken for the shrubby veronica which grows to perfection and of large size about San Francisco. The pimelea has resisted all attempts at cultivating it any length of time in the open. A native of Australia, it should fill a place in some location of our landscape with its compatriots.

P. D. BARNHART.

ARTIFICIAL CHRISTMAS TREES.—The Board of General Appraisers holds that artificial Christmas trees designed and intended for the amusement of children in play are, irrespective of cost, dutiable as toys at the rate of 35 per cent. ad valorem under paragraph 418, tariff act of 1897, and not at 50 per cent. ad valorem under paragraph 425 of said act.

New York.

The Week's News.

To-day (Saturday) a meeting of the Board of Directors of the Cut Flower Exchange will be held in the offices, 55 West Twenty-sixth street.

A meeting of the executive board of the American Rose Society was held in the Hotel Martinique on Tuesday, May 28, when matters pertaining to the Chicago show of the society and other pertinent subjects were discussed.

Edward Seery, the well-known florist of Paterson, N. J., while dining at the Hamilton Club with his wife recently, was insulted by a gentleman named Archie Graham. Mr. Seery preferred charges against Graham before the club's governors and has also made a complaint before a magistrate. Graham was sent before Judge Scott for trial, but as he is the gentleman who presided over the Board of Governors of the club, Mr. Seery will endeavor to have the case tried by some other judge.

A small fire broke out at the establishment of John Young Company, Bedford Station, N. Y., on Thursday morning, May 23. The blaze was extinguished before much serious damage was done. A slight loss was occasioned in the potting shed, which is fully covered by insurance.

Philip Kessler, wholesale florist, 55 West Twenty-sixth street, leaves on Monday morning next for a ten-day visit to the Jamestown Exposition.

A new florist supply store has been opened at 48 West Twenty-ninth street by B. Rosens.

At this writing (Tuesday) the weather is severely cold, considering that it is the 28th day of May. We thought last week that the chances were good for a full supply of outdoor flowers for the annual celebration of Memorial Day. It, however, has been so cold continuously, we might say, during Spring, that outdoor flowers are conspicuous by their absence. It is "an ill wind that blows nobody good," and this dearth of outdoor material is making very excellent business for all kinds of greenhouse grown stock.

Peter Bisset, Washington, D. C., author of the new book, "Water Gardening," was in town this week attending the executive meeting of the American Rose Society.

Walter Mott, who for some time has been on the road as traveler for Bobbink & Atkins, Rutherford, N. J., leaves on June 15 for Sharon, Pa., where he will join partnership with M. I. O'Brien, the well-known florist of that place.

There seems to be little likelihood of the plantsmen securing space at the Gansevoort market, as both houses of the Legislature at Albany have signed a bill confining the use of this market to farmers and market growers by striking out the words "or dealer in farm or garden produce."

Baltimore, Md.

Cold Weather Continues.

Continued cool weather has retarded outdoor blooming plants, with the result that good prices are being had for carnations, roses and other stock.

During the past Winter and early Spring a large number of fine evergreens have severely suffered from the continued and persistent thawing and freezing weather; strange to state, the hardiest kinds have suffered the most, such as cupressus, English yew, and Arbor vites, whereas tender biotas, deodars, Cedrus libani, Cedrus atlantica, retinisporas and others are in good shape. A number of fine old specimens of the hardiest kinds have suffered irreparable damage and in many cases will have to be entirely removed.

A recent severe hail storm did considerable damage in Anne Arundel County; Lehr Brothers, Lotz and Rider's greenhouses have been badly done up.

Club News.

An interesting and well attended meeting was recently held by the Gardeners' Club. An invitation has been extended to the nurserymen of the State to become members of the club. Efforts are also making to induce the new Mayor to appoint a horticulturist or a nurseryman on the Park Board; a committee has been appointed with that object in view.

I. H. Moss has been elected captain of the bowling team in place of C. L. Seybold.

St. Louis, Mo.

News Notes.

W. P. Scheidgger has taken unto himself a wife. The marriage took place last week. Mr. Scheidgger runs quite a place in Kirkwood and grows carnations and violets for this market. Congratulations are in order.

Robert Thompson has just finished a new house for Adolph Brix at his Mead avenue place. Mr. Brix is much pleased with the work, and will order two more houses built this Summer by Mr. Thompson.

A charity church decoration was furnished the past week by Mrs. M. M. Ayers. As stock was so plentiful, all the wholesalers donated, while the firm furnished the help.

Wm. C. Young, who is State Vice-president of the S. A. F. O. H. reports that he will be at the next Florists' Club meeting and anyone wishing to join the society can apply to him. Mr. Young also states that he would like the members who are contemplating attending the meeting to send in their names as soon as they can.

Charles Kuehn left Sunday morning for St. James, Mo., to attend the funeral of his friend, T. W. Guy, who died last Friday.

Albert Peterson, Cincinnati, O., was in the city last week, representing his father, J. A. Peterson, selling plants to the trade.

John Burke's store at 605 Locust street had a busy week of it in funeral work. His stand is becoming better weekly, and he has become one of the big buyers at the wholesale markets.

Foster Floral Company will, this week, move from their old stand at Broadway and Olive streets and combine it with the new place at 909 Olive street, which is at present in charge of Wm. Adles. Fred. Foster says he will be back at the old stand when the new building is completed next Fall.

Henry Braun, until recently with A. Brix, has moved his family to Kirkwood, Mo., where Henry has gone into business, but not in the florist business.

The St. Louis Horticultural Society's executive committee met the past week in one of the leading West End hotels, to discuss plans for the Fall flower show, which they expect to hold in the new Coliseum, should the building be completed by that time. Henry Ostertag, who is chairman of the subscription fund for \$1,000 allotted to the florists, reports that the fund has been completed.

ST. PATRICK.

Kalamazoo, Mich.

Unseasonable Weather.

Cold weather still lingers with us; heavy frosts occurred last week, making planting out of tender stock a risky business. Celery growers have suffered large losses on their early crops and at present the prospects of getting it away in time to replant look decidedly small. This will seriously affect a large and industrious class of men, as three or four acres is the average celery grower's amount of land and the total acreage devoted to the growth of the vegetable runs into many hundreds.

Carnations planted out do not appear quite as happy as they might and need warmer weather to get a good start. As for outdoor flowers there are none and will not be for Memorial Day. There, however, are promises of a pretty good cut from inside, but prices will be good, as also will the cut flower trade on that day, according to advance orders being received at the stores.

Plants will be abundant, and if the weather will only get warm a rushing business will be done next week. James Fraser has a bench of elegant hydrangeas just right for the occasion as well as large numbers of all kinds of bedding plants.

Mr. Coles, Jr., Kokomo, Ind., spent a week here visiting his sister, Mrs. Meyers. While here he enjoyed the novelty of planting out carnations in a snowstorm which is something they don't do in Indiana.

John Van Bochove recently purchased a Franklin automobile, which is quite a popular make here. The firm is making nice progress with its new houses and hopes soon to have them ready for planting.

The passing out of business of the Dunkley Floral Company will shortly take place. The Probate judge has granted leave to the executors for the sale of the real estate, etc. This concern was at one time the largest plant

in Southwest Michigan, as well as being the oldest establishment in Kalamazoo and formerly did a large and lucrative business. S. B.

Rochester, N. Y.

A Backward Season.

Like the majority of cities, Rochester has had its share of frosts and cloudy weather. Only last week Saturday, frosts were reported, and several gardeners and florists were caught by being in too great haste to plant stock outdoors. Late tulips, at present writing, are still in bud, while hundreds of park visitors are disappointed to discover that lilacs, etc., are only just showing color, which usually at this time of year are in full bloom. All this backwardness is to be deplored, especially by those whose greenhouses are as full as possible, and the extra care and attention necessary to keep early plants in good condition for sale is considerable.

Such late seasons have their effect, too, on the stores, although funeral work has been plentiful. However, the approach of Memorial Day is a relief to grower and retailer alike, and according to oral reports, a good business is looked for. No stability is found in the market prices, as they fluctuate with the weather, although good stock always sells best.

With the approach of Spring weather and consequent planting season, we find in our midst the "cut rate" florist who sells geraniums at from 50c. to 85c. per dozen in full bloom. How such business can pay a grower is a mystery to us all, but we are not above a lesson or two.

Del Titus, the largest market gardener here, is adding more glass area to his present holdings, as shipments to other cities have made great inroads on his local vegetable supply.

Salter Brothers and J. B. Keller Sons anticipate the rebuilding of several houses this year, preparations for same having already been made.

There seems to be a craze for formal gardens among those who can pay for such things, and when finished, Rochester will have a chance to show visitors what can be done on some city lots.

Nurserymen and seedsmen report exceptionally fine Spring trade, some firms being sold out of various lines of shrubs, etc., of which heretofore they have had a large surplus. COCKNEY.

Newport, R. I.

Trade and News Notes.

Although the Newport season of entertaining will not commence for a few weeks yet, the number of cottagers already here make a marked difference in the condition of business for florists and growers of plants. With the latter there is always a certain degree of uncertainty until the owners arrive and make up their minds definitely to what extent they will have their grounds embellished for the Summer. This condition, of course, refers principally to owners of places where gardeners are not kept, the grounds being cared for by jobbing gardeners or landscape men, the latter term being the more pleasing, especially to the new beginner in that line of work.

The New York florists who come here for the Summer are not all possessed of greenhouses wherein to grow the material, or part of it, which they need; those who do not have greenhouses purchase a great many decorative plants from growers in New York, Philadelphia and New Jersey. Julius Roehrs supplies large numbers of plants, as does Henry A. Dreer. Among florists and gardeners alike the latter firm is noted for the excellence of the Pandanus Veitchii invariably sent out; a great many palms and ferns are also purchased of this firm.

Lily of the valley is used in tremendous quantities here during the Summer, and it would seem fitting that there should be a demand for it, since it was here that the growing of it on an extensive scale was first commenced and many years ago by Carl Jurgens, who is still not only by far the largest grower of that flower in Newport, but is also perhaps one of the largest growers of it in the country.

Indications point to a good business for Memorial Day in almost all kinds of cut flowers, with the exception of the old standby lilac, which will not be in condition for use then. Roses are coming in to the retailers in very good quality, especially American Beauty; Jurgens supplies the greater number of those called for at present.

The bedding out season will begin this week on a large scale. Mr. Vanieck has a large stock, especially of geraniums and begonias, all hardened off ready for planting. He was all last week with his full force of men hard at work planting his young nursery stock in his large nursery in Middleton. Thomas Galvin grows a large number of choice plants of all kinds for bedding and other decorative purposes; this year the stock is fully up to the average.

Gibson Brothers realize that their new location will require stock for the store of a different kind from what they grow mostly in their own greenhouses; at present they are purchasing choice decorative plants, and for the Winter they will require cyclamen, Gloire de Lorraine begonias, etc., none of which is grown in Newport for commercial purposes, although there is a good market for such stock.

It was in an article in The Florists' Exchange a year or more ago by Joseph Meehan that attention was prominently drawn to the merits of Euonymus radicans as a plant for covering walls. I wish Mr. Meehan could see that vine now on the wall along Bellevue avenue on the estate of Mr. William B. Leeds, which was until recently owned by Mr. F. W. Vanderbilt. This year this vine as it covers the wall on that estate is especially of interest on account of the English ivy having wintered very poorly. Euonymus radicans is, as most people know, evergreen; but more than a week ago it started to make luxuriant growth and that along with the unpaired foliage it carried through the Winter makes it strikingly beautiful at the present time. This wall is nearly six feet high and it is completely covered with the vine. The wall referred to is not the only object handsomely adorned with Euonymus radicans in Newport, but it is the most notable because of its extent. The gate lodge at Rockhurst, the property of Mrs. H. M. Brooks, is also partially covered with this vine and will in a year or two be fully covered. Reference to Rockhurst, which is one of the hand-somest places in Newport, leads me to remark that it was here that Clematis paniculata was first utilized for growing upon cedar posts. There was a large group made of these near Bellevue avenue and the vines planted; the effect the second year after planting, when the vines were in bloom, was gorgeous in the extreme.

The propagation of horticultural knowledge seems to be the ruling passion in all classes of society nowadays, but in Newport there is a form of endeavor in that line which perhaps is different from that carried on anywhere else. What I refer to is a class taught by Miss Anna Hunter, a Newport society leader. This class is composed exclusively of young women, members of old Trinity Church. Miss Hunter has a greenhouse where plants for decoration and for cut flowers are grown by this class under her supervision and by her instruction absolutely, and their success in the work reflects credit not only on Miss Hunter but also on the young ladies themselves.

The mansion now in course of construction for Mr. Pembroke Jones is too far from completion for the possibility of its occupancy this Summer; for that reason extensive alterations and renovations of the grounds, which will include the planting of numerous trees and shrubs, has been postponed until the Fall. The contract for this work has not yet been let, but it is understood that it will be awarded to a prominent landscape gardener.

There is now an extensive range of glass on the Anchinclose estate and a part of it is devoted to orchid growing, a number of plants have recently arrived, with more to be purchased in the near future.

Siebrecht & Son have not yet opened their Newport store, and for that reason on receiving a large order for a decoration recently it was turned over to Gibson Brothers.

A. T. Boddington, New York, shipped large quantities of gladioli bulbs to Newport recently. D. M.

BETHLEHEM, PA.—Writing on May 27, Jacob A. Fries says: "Yesterday and to-day we have been firing; the temperature for the past week has been from 42 to 46 degrees in the morning. It is seriously interfering with the production of flowers and blooming plants for Memorial Day. Bedding is at a standstill; so are sales of plants. The outlook for Spring sales is discouraging indeed."

Los Angeles, Cal.

Among Growers.

A recent visit to Pomona by the writer was a revelation to him in many ways. Here are located the grounds of the California Rose Company, one mile south of town. There are twelve acres set in young plants, in rows three feet apart, the plants six inches apart in the row, and not a weed in the entire lot. Cuttings are made of soft wood and rooted in hot beds made of stable manure, during the Summer months, and I believe this is the only nursery on this coast that uses this method of propagation for rose stock. That it is abundantly successful one only need look at the vast acreage of thrifty young plants. Some young plants of Killarney in bloom were large, single, or scarcely semi-double, and of a faded unattractive pink color. Its appearance was such that no rosarian would tolerate it in his grounds in this State. In my plant notes of about a year ago I referred to this same rose as being one of the most desirable of recent introduction because of its large pink flowers, vigorous growth, and profuse blooming qualities. At the Orange County Nurseries there is a variety grown under this same name of a light pink shade, double, with a pronounced tea fragrance, bearing no resemblance to the plant described either in foliage or flower. These three widely different varieties lead me to believe that some one in the East is all wrong on nomenclature. Mr. Howland, manager of this place, uses Rosa multiflora exclusively for stock to work such varieties as Marechal Niel, Niphetos and a few other weak growing varieties on. All other sorts are on their own roots.

At North Pomona is located the chrysanthemum grower, W. W. Marugg. His health has overtaken this plant enthusiast, who has done more to develop the cultivation of this flower in Southern California than all other local florists combined. His productions have been marvels of beauty as well as size, and have attracted the attention of professional as well as amateur growers who have attended our two Fall flower shows. Unless there is a change for the better in his physical condition soon, he will not be able to compete for a prize at the November exhibition. He sends out with every order of a half dollar or over a printed page of cultural directions suited to California climatic conditions.

The public park in the town is small but well kept, and contains a great variety of exotics, planted so closely that in five years it will be one great mass of foliage and flowers with the individuality of every specimen lost in the jungle. Why this short-sighted, expensive policy should be tolerated by a board of park commissioners or city authorities is one of the things past finding out. A profound knowledge of horticulture is entirely unnecessary on the part of any resident of this land of almost perpetual Summer to know that in a very few years, five at most, a small Cryptomeria elegans will need at least six feet of room, a good specimen of Acacia floribunda, ten feet; a Ficus australis or F. macrophylla, fifteen feet; yet all these things are set from three to six feet apart, to make "a quick show," and they do. Another deplorable feature of our parks is the dense ignorance on the part of those who care for them, of the subjects under their care. The student and lover of plant life must find out for himself as best he can the names and nativity of anything that may come under his observation in the beautiful grounds of the different places he may visit; few, if any, of the employes seem to have any higher ambition than to draw their pay at the end of the month. P. D. BARNHART.

Herkimer, N. Y.

H. A. Maxiner is the only florist here, and is situated on the corner of Park and Main streets in the business section of the town. Mr. Maxiner is successor to Jas. F. Barclay, having a short time ago bought out the latter. Mr. Barclay moved to Long Island and is no longer identified with the trade here. Mr. Maxiner has a nice stand and has some good palms and ferns for decorative work as well as a general line of plants usually found in a retail florist establishment. J. M.

Saratoga Springs, N. Y.

There is much activity among the craft at this famous resort. The cold weather, however, has delayed operations over two weeks and all seem anxious to lend a hand to put Saratoga in gala attire for the eventful season that is now close at hand.

The Triennial Conclave Knights Templar will be held here in July. This will bring a representative body of men to this city from every State in the Union. Decorations will be the order of the day and cut flowers will be in lively demand. T. J. Totten has contracts for a large number of decorations. The headquarters and reception rooms of the various commanderies from the different States will all need decorations.

The G. A. R. also has chosen Saratoga for its annual meeting place this year. This meeting will be in September. These two notable gatherings, combined with the usual heavy run of Summer visitors, should give the florists a busy season.

Henry Schrade has a fine establishment, quite new, situated on Nelson avenue, a very popular thoroughfare. The place is a model of neatness and on this account catches the eyes of all passers by. Mr. Schrade has just finished a handsome office building, 26x17 feet, in front of his greenhouses, with a broad concrete approach from the street. The building has a glass front. The floor and lower walls are of concrete; the top and outer walls are finished in green shingles with white trimmings. It has metal ceilings, and all well lighted by electricity, making a most useful as well as ornamental addition to the place. Mr. Schrade is a good carnation grower and is justly proud of his new establishment.

John Ralph is another of Saratoga's growers, making a specialty of geraniums and decorative plants. His greenhouses and office building are also located on a prominent thoroughfare—Woodlawn avenue—only a couple of blocks from the business center.

Mr. Ralph is ably assisted by his son who is popular among the young people of Saratoga. They have a good business. J. M.

Amsterdam, N. Y.

Each of the florists here has a city store that appears to be in keeping with even the requirements of a larger city. J. J. Hilton, one of the most progressive of the craft, is about to build a house 30x100 feet, Lord & Burnham Company construction, for carnations. He has already about 60,000 square feet of glass and with the new addition will have a plant that will rank among the best in the city.

Frank Hotaling has quite a nice range of houses in which he grows carnations, roses, and bedding plants. His houses are in good condition having been erected only a couple of seasons; to add to their durability Mr. Hotaling is to install cement benches in all his houses this Summer. In a large barn at the rear of his greenhouses he had a force of men employed making the material. He has several molds for making both the cross pieces and the slabs for bottoms of benches. The cement and crushed rock are poured into these molds and nicely leveled with a trowel. It is then allowed to stand for four days, when it can be with all safety removed from the molds and a new lot of material mixed and placed therein. The posts for the benches are made in the greenhouses where they remain indefinitely. When a bench is removed and the posts sufficiently hardened the cross pieces and bottoms are brought in and placed in position and then cemented together. A slight fall is allowed toward the center of the bench, where a space for drainage is provided for. The side pieces are cast about two inches broad at bottom and tapering to about an inch on top, the taper on the inside and about six inches high. A bench of this construction when well put together looks neat and would last indefinitely under ordinary circumstances.

George Moser has recently gone into the florist business here, but as yet does not give it his entire attention. He has a few small houses on Locust avenue, which contain a nice stock of bedding plants. J. M.

GRAFTED ROSES

FINE STOCK. READY NOW.

- Richmond, \$2.00 per doz., \$14.00 per 100, \$129.00 per 1000.
Killarney, \$3.00 per doz., \$16.00 per 100, \$160.00 per 1000.
White Ice France, 3 in. pots, \$3.00 per doz., \$18.00 per 100.
Kaiserin, Carnot, \$2.00 per doz., \$18.00 per 100.
Bride, Golden Gate, Woodton, 2 1/2 in. pots, \$2.00 per doz., \$12.00 per 100.

ROSES OWN ROOTS

- Richmond, \$6.00 per 100; \$60.00 per 1000.
Perle, Sunset, \$5.00 per 100.
Bride, Bridesmaid, Golden Gate, \$4.00 per 100; \$38.00 per 1000.

CARNATIONS

- From pots. Fine, healthy stock.
Winsor, Helen M. Gould, White Enchantress, \$2.00 per doz.; \$14.00 per 100.

ASPARAGUS

- Per 100
PLUMOSUS NANUS, 2 1/2 in. pots.. \$4.00
" " 3 in. pots.. 8.00
" " 4 in. pots.. 10.00
SPRENGERI, 2 1/2 in. pots..... 3.00
" " 3 in. pots..... 6.00
" " 4 in. pots..... 8.00

CHRYSANTHEMUMS

- From 2 1/2 in. pots. Fine stock.
Ben Wells, Andy Crastan, F. S. Vallis, Merstham, red; Merstham, yellow; Mrs. Wm. Duckham, 75c. per doz.; \$5.00 per 100.
A. J. Balfour, Mrs. G. W. Childs, Alice Byron, Yellow Eaton, 60c. per doz.; \$4.00 per 100.
Dr. Enguehard, Geo. S. Kahl, Meta, Mrs. Coombs, Nagoya, Opah, Robert Halliday, White Bonaffon, Wm. Duckham, 60c. per doz.; \$4.00 per 100; \$30.00 per 1000.
Autumn Glory, Ada Spaulding, Crema, Cullingfordi, Dorothy Devens, Harry May, H. W. Rieman, J. E. Lager, J. H. Troy, Mrs. J. Jones, Mrs. Beer, Major Bonaffon, Mme. Fred Bergmann, Niveis, Timothy Eaton, W. H. Lincoln, 50c. per doz.; \$3.00 per 100.
Rooted cuttings half price.

SEND FOR CATALOGUE WOOD BROS., Fishkill, N. Y.

Glens Falls, N. Y.

Dr. G. W. Little of this place is an enthusiast in plant culture, and has a nice general collection of plants in the commercial varieties. Henry Pellett, gardener, has exclusive control of the plant and does a general trade in bedding plants, decorations and funeral work. The doctor has also a collection of orchids, as yet not very well established. It is uphill work for the orchid grower to invest in newly imported plants and endeavor to establish them in houses among a general collection of plants. In cases of this kind established plants at a little more cost pay best in the end. The Little greenhouses are this season to be entirely overhauled and rebuilt. New boilers will be put in and the place put in the best possible condition for Fall and Winter trade.

H. L. Crandell has a very attractive store in connection with his greenhouses on Glen street. His establishment has a neat as well as progressive air to it. Roses and carnations are grown and a fine lot of palms and decorative stock is on hand. A new house, 100x30 feet, for roses, was nearing completion at the time of our visit.

A. J. Bialek has also a few nice greenhouses and gets his share of the trade. He grows carnations and bedding plants and carries a nice lot of decorative stock.

The florists' trade as a whole is in a healthy condition in Glens Falls. J. M.

Sandy Hill, N. Y.

This is a thrifty old settlement about three miles from Glens Falls. Sandy Hill, we are informed, was a prosperous borough when Glens Falls was a very small place. Time, however, has changed conditions as Glens Falls is now a beautiful and pushing city and Sandy Hill is regarded as a suburb.

John L. Watkins & Sons do a thriving business in plant and cut flower growing at this place and are the possessors of a very well equipped range of greenhouses. This is to be increased this Summer by an addition of a house, 100x30 feet, for carnations. The work on this house has already begun. The lower walls, of concrete, have been started. Mr. Watkins superintending this operation. J. M.

CANNAS

Strong plants from 3 1/2 in. pots (30 fine named varieties) \$6.00 and \$8.00 per 100.

MISCELLANEOUS PLANTS

Ready For Immediate Sales

- Size Per pots 100
Achyranthes, Emersoni, etc. 2 1/2 \$3.00
Ageratum, White and blue 3 1/2 5.00
Alfentanthera, Princess Pauline 2 3/4 3.00
Anemone, red and yellow 2 3/4 3.00
Amplexipellis Veitchii, pot grown 3 1/2 8.00
Begonia, flowering varieties... 2 1/2 10.00
Begonia, flowering varieties... 2 1/2 4.00
Centauria gymnocarpa, 2 1/2 3.00
Cannus, fine varieties, on list, 3 1/2 6.00-8.00
Censals, all the leading Varieties 2 3/4 3.00
English Ivy 3 1/2 4.00
Feverfew, double white..... 2 1/2 3.00
Fuchsia, double and single..... 3 1/2 7.00
Geraniums, double and single, var. Strong 2 3/4 7.00
" Special Color or variety 3 1/2 8.00
" Double and single..... 2 3/4 3.00
" Ivy Leaved 3 1/2 8.00
" Ivy leaved double, best var. 2 3/4 4.00
Heliotrope, light and dark varieties 2 1/2 6.00
Ivy, German 2 3/4 3.00
Loetana, 12 best varieties..... 3 1/2 5.00
Moonflower 4 10.00
Petalunias, single 2 1/2 4.00
Salvia, splendens and Bedman..... 2 3/4 5.00
Sinx, 3 1/2 3.00
Tropaeolum, double red and yellow 3 1/2 4.00
Vinca, variegata and elegantissima .. 3 5.00
" " " 2 1/2 4.00
Verbenas, Mammoth Strain.. 2 3/4 3.00
Violets, Marie Louise, \$3.00 per 100; \$25.00 per 1,000. 100

VERBENAS

Best Mammoths, from pots.....\$3.00

Right Here in Connecticut

Pot Grown Herbaceous Plants

- Per 10 Per 100
Achillea Thu Pearl, 3 1/2 in. \$0.75 \$6.00
Alyssum Saxatile compactum, 3 1/2 in.75 6.00
Anthemis tinctoria, 3 1/2 in.65 6.00
Boltonia asteroides, 3 1/2 in.75 6.00
Campanula media, Mixed, 3 1/2 in.75 6.00
Chrysanthemum maximum, 3 1/2 in.75 6.00
Chrysanthemum, Shasta Daisy, 3 1/2 in.75 6.00
Coreopsis lanceolata, 3 1/2 in.75 6.00
Gaillardia grandiflora, 3 1/2 in.75 6.00
Helianthus autumnale, 3 1/2 in.75 6.00
Helianthus Mut. fl. pl., 3 1/2 in.75 6.00
Hibiscus, Crimson Eye,75 6.00
Hollyhucks, Dreer's Double, max. 4 in.85 7.00
Monarda didyma.65 6.00
Nasturtium cyanae, 3 1/2 in.75 6.00

Your order will be shipped promptly—Cash with order, please.

NORTH END NURSERIES Chester F. Brainard, Prop. Maple St. Thompsonville, Conn

CARNATIONS FROM POTS.

- ENCHANTRESS\$3.50
Harlowarden, Queen, Flamingo, Boston Market 2.50
GERMAN IVY, 2 in. pots..... 2.00
CANNAS, unnamed, 3 in. 3.00
ASPARAGUS SPRENGERI, 3 in. 4.00
Cash with order.
S. G. BENJAMIN, Fishkill, N. Y.

Johnstown, N. Y.

Thos. Barson and Wollager Brothers are the only two florists here; both enjoy a good trade and are popular with the plant and flower buyers in their own city as well as the smaller surrounding places.

The Wollager plant is some distance out from the business center of the city. Mr. Barson has two places—the old one, and a newer plant in different parts of the city—both of which, however, are well located from a business standpoint. The new plant is used for carnation growing and is of recent construction by the Lord & Burnham Company. Mr. Barson is making quite a success of his business and very deservedly so. J. M.

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER.

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc. For Sale or Rent.

Our charge is 10 cts. per line 7 words to the line, set solid, without display. No advt. accepted for less than thirty cents.

Display advertisements in these columns, 15 cents per line; count 12 lines agate to the inch. [If replies to Help Wanted, Situation Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]

Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—As foreman, or will work suitable place on shares. Address, R. X., care The Florists' Exchange.

SITUATION WANTED—German, good all-around hand in greenhouses, wishes position; good references. L. Geh, 150 Central Avenue, Brooklyn, N. Y.

SITUATION WANTED—By first-class grower of pot plants and herbaceous stock. No cut flowers. Address, R. V., care The Florists' Exchange.

SITUATION WANTED—On private place as assistant; experienced in general greenhouse work. Single; best of references. Address, B. D., care The Florists' Exchange.

SITUATION WANTED—By a seedsman is fitted to give satisfaction in any department, and is not afraid of hard work. Full particulars by addressing, A. B., care The Florists' Exchange.

SITUATION WANTED—By thoroughly practical experienced foreman, on a good private place. Highest references and full particulars on application to E. M., care The Florists' Exchange.

SITUATION WANTED—By gardener and florist; German, single man; grower of cut flowers, general greenhouse plants and perennial stock. Experienced in landscape work. Address, H. K., care Florists' Exchange.

SITUATION WANTED—Young man, aged 25, with some experience in general greenhouse work, wishes to get a position in a private place as an assistant gardener or all-around work. Address, W. S., care The Florists' Exchange.

SITUATION WANTED—As helper in roses and carnations by Norwegian, 23 years of age, with 7 years' experience in general greenhouse work. Vicinity of Philadelphia preferred. Please state wages and particulars. Address, R. Z., care The Florists' Exchange.

SITUATION WANTED—As working foreman, head gardener or superintendent. Twenty years all-around experience. Experienced grower of roses and other cut flowers, pot plants and nursery stock. Practical landscape engineer. Total abstainer. Good worker. State wages. Good wages and treatment expected. No family. First-class references. Address, Eastern, care The Florists' Exchange.

SITUATION WANTED—As superintendent and manager, aged 39, 20 years' practical experience. Wholesale and retail in cut flowers, designing, flowering and bedding plants. Nursery, landscape, construction and heating; thoroughly practical and reliable in every way. Expert sale and office man. Good salary expected. No objection to Pacific Coast. References exchanged. Address, R. Y., care The Florists' Exchange.

HELP WANTED

WANTED—A working foreman at once; must be a good grower of carnations mums, roses and pot stuff and good on design work; also be able to keep a correct account of sales and write a legible hand, sober and industrious, and above all pleasant to get along with. Salary, \$15 per week, room and laundry, and advance of \$1 a week for each year; that is second year \$16, and third year \$17. Address, T. L. Metcalf, Hopkinsville, Ky.

WANTED—First-class salesman for nursery stock; must have experience and understand the business and a hustler. Address, with reference and full particulars. Address, E. A. E., care The Florists' Exchange.

HELP WANTED

WANTED—Married man for section of roses, \$15.00 per week. Address, E. D., care The Florists' Exchange.

WANTED—A good man, married, for general greenhouse work. Steady position. Address, Wm. Amos, Jr., Mecke Sreet near Jackson avenue, Woodside, L. I.

WANTED—On large, up-to-date place, two young men with some experience in rose houses. Address, with references, E. E., care The Florists' Exchange.

WANTED—Single man as rose grower on large commercial plant for Beauty section. Wages, \$28.00 per month and board. Give references in first letter. L. A. Noe, Madison, N. J.

WANTED—Good man as grower; smilax, asparagus, vegetable plants and cold frame work. Steady position to right man; wages according to ability. Eden Nurseries, Port Allegheeny, Pa.

WANTED—At once, a florist of general all-around and plant experience. 12,000 ft. commercial glass. Married man preferred. Cottage with garden. C. L. Dole, Lockport, N. Y.

WANTED—By 1st of June, a good, steady, all-around florist; must understand growing roses and carnations; none but a first-class grower need apply. C. A. Schaefer, York, Pa.

WANTED—Experienced florist for general all-around work. Must be quick and willing to do anything. Wages, \$12.00 per week. Frank McGowan, 328 Sunset Avenue, Utica, N. Y.

WANTED—Experienced rose and carnation grower to take charge of sections. Give references and wages expected in first letter. Lake View Rose Gardens, Jamestown, N. Y.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets, in the middle West. Married man preferred. State age, nationality, wages, etc. Address, G. H., care The Florists' Exchange.

WANTED—A competent and reliable man to run a 5,000 sq. ft. greenhouse. Must be good grower of carnations, chrysanthemums and potted stock. One acquainted with market gardening preferred. G. E. Butler, Bo 401, Meriden, Conn.

WANTED—Foreman of nursery; a hustler, capable of handling men and experienced in growing and packing of nursery stock. Answer, giving age, nationality and experience, sending references. Address, Hustler, care The Florists' Exchange.

WANTED—A rose grower, wages, \$45.00 per month and one dollar for each full Sunday and full holiday worked. Twelve days' vacation with pay each year. Answer, giving age, nationality and experience, sending references. Benjamin Dorrance, Dorrance, Pa.

WANTED—Grower who is thoroughly familiar with the growing of Pandanus, Dracaenas and a general large line of stove plants, with commercial experience. A good position for an active man who understands his business. Address, giving references, Henry A. Dreer, Riverton, N. J.

WANTED—Gardener to take interest in a modern greenhouse establishment of about 100 thousand square feet of glass. Must be able to invest from twenty to twenty-five thousand dollars. Correspondents must give some assurance of their reliability and business standing to insure prompt reply. Address, E. C., care The Florists' Exchange.

MISCELLANEOUS WANTS

WANTED—Catalogues with trade prices for beans, peas, etc. Jas. V. Grubb, seed grower for the trade, New Castle, Va.

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WANTED—To buy or rent, medium sized florist business; good retail trade; New York, New Jersey vicinity. Jas. Pollett, Utica, N. Y.

WANTED TO RENT—A commercial place, from 10,000 feet up; must be in good running order for cut flowers. Pennsylvania preferred. Give full particulars. Address, E. O., care The Florists' Exchange.

Thirty cents is the minimum charge for advertisements on this page.

FOR SALE OR RENT

FOR SALE—Retiring from business, \$3000.00 buys about 6,000 sq. ft. of greenhouses with stock, in a lively Massachusetts town. 35 miles from Boston. A grand opening. Address, E. H., care The Florists' Exchange.

FOR SALE—Or lease, seven roomed modern house, greenhouse of 8,000 feet of glass, cypress built, steam-heated. One and a half blocks from city cemetery; one half block from best street car line in a city of 30,000. Established in present location, fifteen years. Can give possession any time after June 3. For information in full, address, Z., care The Florists' Exchange. No trifler need apply.

FOR SALE—Two greenhouses, 190 x 20, one propagating house, 90 feet, 800 hot bed sashes, two market wagons, one horse. The greenhouses are stocked with carnations and bedding plants. Three family dwelling house, three acres of land; all improvements built last year; barn, tools, etc. The place is situated in the best district of Greater New York, trolley passing the door. A. Sauerwald, Juniper Avenue, Maspeth, L. I.

FOR SALE—A rare opportunity for rose and carnation growers. Over 40,000 sq. ft. of glass; eight houses in good order; steam heat; our own water supply; stocked now and good trade in roses, carnations, sweet peas, smilax and bedding stock. Located near to three cities, outside city line. Modern eight-room house with good cellar and other buildings. To be sold with or without the farm of twenty acres at a reasonable price. Twelve minutes' drive from R. station, and trolley line passing. Ill health reason for selling. For further information address, E. J. P., care The Florists' Exchange.

STOCK FOR SALE

SALVIA, fine stock, 2 1/4 in., \$3.00; 3 1/4 in., \$5.00. Joseph Wood, Spring Valley, N. Y.

GLADIOLI, Groff's Hybrids, May and other Seed of March 23. Send for list. John H. Umpleby, Lake View, N. Y.

FUNKIA VARIEGATA, strong clumps, fine, \$6.00 per 100. H. Pladeck, Middle Village, P. O. Elmhurst, N. Y.

SWEET POTATO PLANTS, now ready; Yellow Jersey, Red Jersey and Big Stems, \$1.25 per 1,000; 35c. per 100. H. Austin, Felton, Del.

ROSES, Bride, Bridesmaid, Ivory, 2 1/4 in., 2 in., \$3.00 per 100; \$25.00 per 1000. Wm. E. Sands, Lake Roland, Baltimore, Md.

SALVIA BONIFIRE, 3 in., topped and branches, 4c. Geranium Salleron, strong, 3 in., 3c. Feverfew, 3 1/4 in., 6c. Asters, pot grown, 2c. All No. 1 stock. Ellis Brothers & Company, Keene, N. H.

EUONYMUS RADICANS VARIEGATA, 2,000 strong, two year plants. Cypripedium Insigne, 65 strong, clean plants, in 7 in. pots. This stock can be bought cheap by any one taking the lot. Frank E. Witney, Fishkill-on-Hudson, N. Y.

BABY RAMBLER ROSES, fine dormant stock, one year, \$12.00 per 100; 2-1-4 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1,000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

ALTERNANTHERAS, three very best varieties, \$2.50 per 100; \$20.00 per 1000. English Ivy, 4 in., three plants in a pot, nice for cemetery work, \$6.00 per 100. Cash please. Eswell Kemp, 33 Grove street, Vailsburgh, Newark, N. J.

ASPARAGUS PLUMOSUS seedlings, from plants, with special cultural directions for making large 8 in. plants by September. 100,000 ready, \$1.00 per 100; \$10.00 per 1000, prepaid. Cash with order. No personal checks accepted. Bud Park Greenhouses, Kansas City, Mo.

FOR SALE

FOR SALE—Greenhouse material and hot bed sash, milled by Gulf Cypress to any detail furnished. Oxford putty, specially made for greenhouse and hot bed sash. V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE—A complete, up-to-date greenhouse, 10 x 20, Furnam steam boiler, patent ventilator, cypress frame. Taken down ready for shipment. Price, \$500. Address, W. E. Ingalls, Bridgton, Me.

FOR SALE—A good twin, sectional cast iron boiler; has been used very little for hot water purposes. Will heat 10,000 feet of glass. It is a bargain for any one who wants a good heater. P. M. De Witt, Bridgewater, Bucks Co., Pa.

CHARCOAL SCREENINGS.

KEEPS SOIL SWEET. Ask the editor, or send \$1.00 for 100 lb. bag. E. V. Sidell, Poughkeepsie, N. Y.

FOR SALE

FOR SALE—Four greenhouses, to be taken down; possession to be given the first of July. One building is 30 x 140, one 18 x 140; two are 18 x 90 ft. long, with two hot water boilers and piping for the same. Property formerly owned by A. V. D. Snyder. Inquire of Andrew Van Orden, Ridgewood, N. J.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. **KROESCHELL BROS. CO., 33 Erie St. Chicago**

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousand feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing a large business all through the season. Address, E. Hppard, Youngstown, O.

FOR SALE

PI'E Good serviceable second hand. No Junk, with new threads, 1 in. 3c.; 1 1/4 in. 4c.; 1 1/2 in. 5 1/2c.; 2 in. 7c.; 2 1/2 in. 10c.; 3 in. 14c.; 4 in. 19c.; ft. All kinds of fittings for 4 in. cast iron and all sizes wrought iron. **STOCKS AND DIES** New Economy, easy working, No. 1 cuts 1/4-1 in. \$3.00; No. 2 cuts 1/4-1 1/2-2 in. \$4.00; Armstrong Adjustable No. 3 cuts 1/4-1 in. \$4.00; No. 3 cuts 1/4-1 1/2-2 in. \$6.50.

PIPE CUTTERS Saunders, No. 1 cuts to 1 in. \$1.30; No. 2 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed, 12 in., grips 1 1/2 in. \$1.10; 13 in. grips 2 in. \$1.50; 24 in. grips 3 1/2 in. \$2.25; 36 in., grips 3 1/2 in. \$3.50.

PIPE VISES Reed's Best Hinged Vice, No. 1 grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in., guaranteed; 5/8 in. for heavy work, guaranteed; 1 1/2 in.

HOT-BED SASH New; Gulf Cypress, 3 ft. x 6 ft. \$6c. \$8c.; glazed complete \$1.60 up. Second hand sash glazed, \$1.25, good condition.

GLASS New American, 50 ft. to the box, 10 x 12 single at \$1.90, 10 x 12, 12 x 12, and 10 x 15, B double, \$2.52. 12 x 14 to 12 x 20 and 14 x 14 to 14 x 20 B double, \$2.76. 16 x 16 and 16 x 18, B double, \$3.00. 16 x 20 to 16 x 24, double, \$3.25 per box. 8 x 8, 7 x 9, 8 x 10, single, \$1.50. 8 x 10, double, \$1.50. 10 x 14 second hand ground glass at \$1.50 per box.

MATERIAL AT WHITE PLAINS, N. Y.

From a 400 ft. sash house, one year old, consisting of 275 1 1/2 in. Cypress sash, 3 ft. x 6 ft., painted and glazed with 7 x 9 glass at \$1.40 each; 750 ft. side plate and 400 ft. ridge, 2 x 6, at 5/8c. per ft. 240 2 in. x 3 in. 6 ft. sash rafters at 15c. each. 1500 ft. 2 in. black pipe, at 7/8c. per ft.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

New Locust Posts 2 1/2 to 3 in., 7 ft. long, 20c. each. 4 in., 7 ft. long, 50c. each. 4 in., 8 ft. long, 60c. each.

METROPOLITAN MATERIAL CO.

Greenhouse Wreckers
1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

GERANIUMS

5,000 S. A. NUTT, 1,000 JOHN DOYLE, 1,000 BEAUTE POITEVINE, ALL IN 4-IN. POTS, IN BUD AND BLOOM, \$6.00 PER 100.

5,000 COLEUS, GOLDEN BEDDER, \$20.00 PER 1,000. ALSO A FINE STOCK OF ENGLISH IVY, 3 AND 4 FT. LONG, \$12.00 PER 100.

Address
A. H. KINNEY,
West 200th St. & Fort Washington Ave.
New York City.

PLANT CULTURE

PRICE \$1.00

A. T. DE LA MARE PTG. & PUB. CO.,
2 Duane Street, New York

Parcels-Post Matters.

Beginning with March 1, 1907, a parcels-post arrangement was put into effect between the United States and Ecuador, while it was established with Bermuda on February 1, 1907. Other countries with which the United States already had the parcels-post interchange were Jamaica, Barbados, the Bahamas, British Honduras, Mexico, the Leeward Islands, the Republic of Colombia, Salvador, Costa Rica, Danish West India



Anton Schultheis
President N. Y. and N. J. Association of Plant Growers.

Islands (St. Thomas, St. Croix, and St. John), British Guiana, the Windward Islands, Newfoundland, the Republic of Honduras, Trinidad (including the island of Tobago), Chili, Germany, Guatemala, Nicaragua, New Zealand, Venezuela, Bolivia, Hongkong, Japan, Norway, Belgium, Great Britain, the Commonwealth of Australia (including the States of New South Wales, Victoria, Queensland, South Australia, West Australia, and Tasmania), Sweden, Denmark, and Peru. The rates to these countries and the size packages permitted, etc., are given in the United States Official Postal Guide.

The U. S. Consuls at Nice and Marseilles, France, believe that a parcels-post system instituted between the United States and that country, would be a very important factor in the creation of trade.

Consul-General R. P. Skinner, of Marseille, says:

"It is unfortunate that, although the United States Government has parcels-post conventions with 29 different political divisions, including Germany, Nor-



H. C. Steinhoff
Treasurer N. Y. and N. J. Association of Plant Growers.

way, Belgium, and Great Britain, no such arrangement has been made with France. From this country, on the other hand, it is possible to send parcels to almost every country in the world except the United States, the weight varying from 6.61 to 11.02 pounds. Parcels for domestic delivery are similarly accepted upon the following terms:

"Three kilos or 6.61 pounds, 12 or 17 cents, dependent upon delivery at railroad station or domicile; 6.61 to 11.02 pounds, 16 or 21 cents; 11.02 to 22.04 pounds, 25 or 30 cents.

"Contrary to popular opinion in the

United States, parcels sent by post in this manner are not deposited at the various post-offices, but are accepted at the railway stations, city railway offices, and offices of the subsidized steamship companies. The whole machinery is controlled by the different railroads and steamship lines, acting as agents for the State."

CANADIAN NEWS

TORONTO, ONT.—The weather this Spring has been both cold and dark. But very few plants have yet been set out, and those planted look very hard. In many places carnations are not moving at all, and nearly all look as if they would be better back on the benches. Monday we had a miniature snowstorm. The weather has been splendid for nursery planting, and business in that line has been good. Tulips have been extra good and lasted well; most of the beds in the parks are now at their best.

Roses coming in are still of high quality; the cool weather appears to suit them. Carnations are also pretty good, but not nearly as plentiful as they were a few weeks ago. Tulips and yellow narcissus are fairly abundant, also *Gladiolus Colvillei*, white stocks and sweet peas; the latter are generally very good.

Arrangements for the chrysanthemum show in November are well under way, and we expect the floral prize list will soon be published. The exhibition will be held the second week in November in the St. Lawrence Market building. This building was used last month for the Horse Show, and there is plenty of room in it for a very large exhibit; it is well lighted, and will be easily heated at that time of the year.

Dunlop is rebuilding several houses this Spring. He had part of one blown down on the 19th, but the damage was not so great as it might have been; he was just about throwing out the stock and the houses went over without breaking more than half of the glass.

The Bedford Park Floral Company are building two houses, about 300 feet long, and have them nearly ready for glazing. They are using King gutters and fixings and 20-inch glass.

Mr. Allen of Toronto Junction is building a large house for American Beauty; it will be, I think, the widest house in this locality. T. M.

Washington, D. C.

Shortly after noon on May 27, Washington was swept by a storm that broke all previous records for May. The rainfall was officially reported as 40 inches in fifteen minutes. The lightning struck several houses, and the wind attained a velocity of forty miles an hour. Much damage was done to trees, roofs, awnings, the flag poles, throughout the central and eastern portions of the city. The damage was particularly heavy to trees and shrubbery from the Capitol Grounds to Lincoln Park, and even beyond. It is estimated by Superintendent Truman Lanham, of the Parking Commission, that several hundred trees in the city parks were blown down. Florists seem to have been fortunate, their respective places being out of the path of the storm. So far as can be ascertained at present, little damage was sustained by any of them. J. L. C.

Plant Growers Organize.

The New York and New Jersey Association of Plant Growers has been incorporated with the Secretary of State, with its principal office in New York City. The object of the association is principally mutual protection. The officers elected are: President, Anton Schultheis, College Point, N. Y.; vice-president, F. L. Atkins, Rutherford, N. J.; secretary, W. H. Siehrrecht, Jr., Attorney, City; treasurer, H. C. Steinhoff, West Hoboken, N. J. Among the directors are John Scott, Flatbush, N. Y.; A. L. Miller, Brooklyn, N. Y.; H. D. Darlington, Flushing, N. Y.; L. Dupuy, Whitestone, N. Y.; and H. Schoeltzel, New Durham, N. J.

GRANDVILLE, MICH.—Writing on May 27, 1907, N. B. Stover says: "It has snowed almost all day; the thermometer this morning standing at 33."

The Novelty of the Century

A Portable Electric Luminous Fountain

No Water Connection Self Contained

No Florist should be without a Fountain. As a Centerpiece for Banquets and Weddings it has no Equal. Very attractive Window and Store Decoration. Order Now. The Demand is big.



TYPE D. Pat. Feb. 1905
DIMENSIONS: Base 14 inches, Height to Top of Dome, 25 inches
QUALITY: Base of Metal
FINISH: Black and Verde, Catch Basin and Dome of Leaded Glass

Write for further Designs and Prices

N. Y. ELECTRIC FOUNTAIN CO.

114 W. 39th St., New York City, N. Y.

A COMPARISON OF COSTS

\$46⁸⁰

Is the cost of a one inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$140⁴⁰

Is the cost of a three inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$280⁸⁰

Is the cost of a six inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$3692⁰⁰

Is the cost of the *one cent stamp* required to mail 369,200 circulars, exclusive of the great additional cost of paper, printing, addressing, etc.

The advertisements in The Florists' Exchange are ALWAYS read. The circular generally goes into the waste basket, *without being read.*

HAIL NOTES.

VINCENNES, IND.—W. A. Rieman lost 2,000 lights of glass by hail last Sunday. He was not insured. This is the first breakage by hail Mr. Rieman has had in 15 years.

AURORA, ILL.—Wm. B. Davis & Company lost 2,000 feet of glass by hail on May 26. They were insured in the F. H. A.

CANNAS

Strong plants from pots, 20 leading varieties, \$5.00 per 100.
ESTATE OF DAVID FISHER, Woburn, Mass.

WOONSOCKET, R. I.—Vose & Son, florists, of Cumberland Hill, have opened a flower store in the Hope building at 237 Main street.

The Largest Growers of Chrysanthemums in America

Rooted Cuttings out of sand.

Table listing various chrysanthemum varieties like October Frost, Estelle, Geo. S. Kalb, etc., with prices per 100.

Table listing various chrysanthemum varieties like Yellow Jones, Yellow Eaton, Col. Appleton, etc., with prices per 100.

Roses from 2 1/2 inch pots

Table listing rose varieties like Brides, Bridesmaids, Richmond, etc., with prices per 100 and per 1000.

Table listing more rose varieties like Mrs. Mary Mann, Marie Liger, Monogram, etc., with prices per 100.

WIETOR BROS., Wholesale Growers of Cut Flowers 51 Wabash Ave. CHICAGO

An Orchid Exhibition

The Dutch Orchidophiles Club has existed for 20 years, and this fact was celebrated by an exhibition of orchids at Haarlem, Holland, on May 10-12.

Nearly all kinds of orchids were represented. I seldom have seen such a number of cattleyas, odontoglossums, sypripediums and vandas together.

Messrs. Jansens & Putzeys, Merxem, Belgium, exhibited some new varieties; very attractive were Odontoglossum x Loochristiense, var. magnificum, with large, yellow and brown spotted flowers.

CHRYSANTHEMUMS ROOTED CUTTINGS

10,000 Ivory, 5000 Alice Byron, 1000 each T. Eaton, Enguehard Whilidin, M. Mann, M. Dean, C. Touset, Robt. Halliday, Crema, M. Bonnaffon, Yellow Jones and Glory of the Pacific, \$2.00 per 100; \$15.00 per 1000.

WM. SWAYNE, Box 226, Kennett Square, Pa.

Looking for a good, late, Yellow MUM? Invest in

GOLDEN DOME

There is nothing to equal it. Stock ready now. \$35 per 100; \$5 per dozen.

S. S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa.

WITTBOLD FLORIST

Wholesale Price List

Palms and Ferns

Table listing various plants like Areca Lutescens, Asparagus Plumosus, Asparagus Sprengerii, etc., with prices per dozen and per 100.

The Geo. Wittbold Co.

1657 Buckingham Place, CHICAGO, ILL.

PLANT CULTURE

PRICE, \$1.00. The best book for the plant grower. A. T. DE LA MARE PTG. & PUB CO. LTD 2-8 Duane St. New York.

HARDY ENGLISH IVY

4 to 5 feet high, 4 inch pots, well branched, \$15.00 per 100. Cash.

JOHN RECK & SON BRIDGEPORT, CONN.

CHRYSANTHEMUMS CARNATIONS and ROSES

Novelties and all the standard varieties. MOSCOSA RIPARIUM, a valuable new Christmas flowering plant. Write for descriptive circular and price list.

CHARLES H. TOTTY, Madison, N. J.

GERANIUMS

Fine 4 in. stock, \$6.00 per 100; \$50.00 per 1,000.

CALIFORNIA VIOLETS, well rooted, cold frame grown, \$1.00 per 100; \$8.00 per 1,000.

CHRYSANTHEMUMS, J. Noelin, fine plants, cold frame grown, \$3.00 per 100; \$25.00 per 1,000. Cash with order.

Edgewood Greenhouses, 89 So. Main St., Memphis, Tenn.

CHRYSANTHEMUMS

Jerome Jones, Enguehard, Shaw, Touset, Noelin, Willowbrook, Pacific, Appleton, Intensity, Byron, R. C., \$2.00 per 100. Strong 2 1/2 in. Jerome Jones, \$2.00 per 100.

Clifford Burton DAHLIA ROOTS, \$6.00 per 100.

THE FLORISTS' EXCHANGE, Franklin & St. Paul Sts., BALTIMORE, Md.

GERANIUMS

RICARD, POITEVINE, VIAUD, DOYLE, 3 in. bushy plants, \$4.00 per 100. Rooted cuttings, \$10.00 per 1000. Cash with order.

PETER BROWN, Lancaster, Pa.

300,000 ASTER PLANTS

Queen of the Markel, in white, pink and mixed colors; late branching, white, pink, lavender and mixed colors; Ostrich Feather, Ray Aster and Victoria, strong, stocky plants, ready to plant out at \$2.50 per 1000; in 5000 lots, \$2.00 per 1000.

Gustav Pitzonka, Bristol, Pa.

FUCHSIA

Little Beauty, 2 1/2 in. 6c.; 5 in., 12c. Mixed standard varieties, early bloomers, 3 in., 6c.

FERNS, Boston, 2 1/2, 3, 5 and 6 in., 4c., 8c.; 25c. and 25c.; Piersoni, 4 and 5 in., 12c. and 25c.; Scottii, 6 in., 25c.; Barrowii, 3, 4 and 5 in., 12c., 15c. and 25c.

VINCA MAJOR, 3 in. 6c. POINSETTAS. Juice delivery, 2 1/2 in., \$5.00 per 100; \$45.00 per 1000; 3 in., \$7.00 per 100; \$65.00 per 1000.

Adiantum Croweaeanum, 5 in. and 7 in., 50c. and 75c.

Prices quoted are by the dozen or hundred.

BAUR FLORAL CO., Erie, Pa.

Plant Notes.

SWEET PEAS.—The old notion that peas should be planted or sown thickly is gradually giving way in the light of the knowledge of the fact that plants grow from seeds sown very thinly are not only capable of producing finer flowers, but they also continue in a growing condition for a longer period.

MIGNONETTE.—No place, private or commercial, should be devoid of mignonette. Old fashioned, as this favorite is, it is nevertheless possessed of a perfume perhaps unequalled.

HELIOTROPE is another plant exquisite in flower and delightful in perfume. It does not stand well after being cut, but a number planted in a bed or border will scent the air with a delicate fragrance peculiar to itself.

PANSIES.—When pansies are planted in a bed or border provision should in some way be made for the furnishing and planting of something to take up the room the pansies occupy, after they are done flowering. Pansies are not satisfactory when left in their places all Summer.

TO CLOSE OUT FOR LATE PLANTING

SALVIA, 2 1/2-3-4 in. pots, \$1.50-\$2.50-\$4.50 per 100.

VINCA, 3-4 in., \$10.00 per 100.

PARLOE IVY, 3 in., \$3.00 per 100.

GANNAS, Austria, 3 in., \$2.00 per 100.

PETUNIAS, double and single, 2 1/2 in., \$1.50 per 100.

VERBENAS, 2 1/2 in., \$1.50 per 100.

PHLOX DRUMMONDI, 2 1/2 in., \$1.50 per 100.

J. S. BLOOM, RIEGELSVILLE, PA.

COLEUS

Cuttings only, strong rooted. Verschaffeltii and G. Bedder, 50c. per 100. Geraniums, young stock transplanted, Brunatii, Buchner, Ricard, Doyle, Perkins, Poitevine, 10c., \$1.25. F. Blanc, new double white, 6c. each. S. A. Nutt, same quality plants, \$1.00 per 100.

DANIEL K HERR, Lancaster, Pa.

A Good Investment.

Referring to a full page advertisement he recently used in The Florists' Exchange, S. S. Skidelsky says: "I am well satisfied with the results and consider the advertisement a good investment."

Your Money is well spent when you advertise in THE FLORISTS' EXCHANGE

CANNAS Crimaon Bedder, a superb Canna; very handsome for bedding, started plants \$2.00 per 100. King Humbert, the great Gold Medal Canna; strong pot-bound. 3 1/2 in., \$1.50 per doz; \$10.00 per 100. Cash. A. CORLIN, ELBERON, N. J.

VICTORY Has Made Good.

IMPERIAL and PINK IMPERIAL CARNATIONS.

EVERY VARIETY OF CUT FLOWERS can be had from A. J. GUTTMAN, The Wholesale Florist, 43 WEST 28th STREET, NEW YORK

Price, \$6.00 per 100; \$50.00 per 1000. A discount of 5% for cash with order. You cannot afford to be without these two excellent varieties. Price \$12.00 per 100; \$100.00 per 1000. 250 at 1000 rates.

Phones 1664-1665 Madison Square

CARNATIONS 2 in pots, \$3.00 per 100; \$25.00 per 1000. Cannas 3 in., \$4.00; 4 in. at \$6.00. Alternantheras, \$2.00 per 100. F. Begeaula, Ageratum, at \$2.50 per 100; 3 in. Vinea, Variegatod, 4c. to 5c; Vicksa Asters all colors in thumb pots, \$2.00 per 100. Asparagus Sprengerl, 4-in. at 8c. 4 in. Oeraniums, white, pink, salmon, scarlet and red, at \$6.00 per 100. 2 in. Boston Ferns, at 3c. 3 in. 6c.; 4 in., 8c. 2 in. Barrowsil Ferns, at 4c. 2 in. Scottill, at 3c. 3 in., 6c. 3 in. Turrytown, at 10c.; 2 in., 6c. 2 in. Piersant, at 3c. NATIONAL PLANT CO., Dayton, O.

GERANIUMS

10 Varieties, my selection, 3-3 1/2 in pot \$6.00. Alternanthera, red and yellow..... 3.00. Asparagus Sprengerl, 3 1/2 in. pot..... 3.00. Asparagus Plumosus Seedlings..... 1.26. Asparagus Plumosus, 2 1/2 in. pot July 1. 3.00

CANNAS

12 Varieties, my selection from pots. \$6.00. 2000 Smilax, July 1, 2 in. pots..... 1.50. Chinese Primrose, July 1..... 2.00. Obconica Alba and Resea..... 2.00. Forbest..... 2.00

JOS. H. CUNNINGHAM, DELAWARE, O.

ASPARAGUS

Robustus, Ideal for pots, pans and vases. Ready for 4 inch pots at \$5.00 per 100. Sample for 10c.

Plumose, Deflexus, Sprengerl and Smilax, ready June 15 to October 1. Send for price list before placing your orders for this stock.

ALBERT M. HERR,

GERANIUMS

Rooted Cuttings ready May 20. Nutt, Buchner, Castellane, Francis Vlaud, Perkins, Janlin, Poitevine and Ricard. For the lot all varieties at \$10.00 per 1000.

Send for price list for later deliveries. LANCASTER, PA.

GERANIUMS

S. A. Nutt, A. Ricard, in bud and bloom, 5 in., \$20.00; 4 in., \$10.00; 3 in., \$8.00 per 100. Ivy Geraniums, 3 in., in bud and bloom, \$8.00 per 100; 2 1/2 in., \$3.50 per 100. SALVIA, 4 in., \$8.00; 3 in., \$3.50 per 100. ALTERNANTHERAS, 2 1/2 in., \$2.50 per 100. SWEET ALYSSUM, in bloom, 2 in., \$2.50 per 100.

VINCA VARIEGATA and MAJOR, strong, 3 in., \$8.00 per 100.

CANNAS, assorted. McKinley, M. Berat, Austria, Crown Prince of Italy, Queen Charlotte, 4 in., \$5.00 per 100.

CALADIUM, 4 in., \$10.00 per 100; 5 in., \$20.00; 6 in., \$30.00 per 100.

AGERATUM, 3 in., in bloom, \$4.00 per 100; 2 in., \$6.00 per 100.

HELIOTROPE, 3 in., \$6.00; 4 in., \$5.00 per 100.

ROSE GERANIUMS, 3 in., \$5.00; 4 in., \$3.00 per 100.

COBEA SCANDENS, 3 in., \$6.00 per 100.

GERMAN IVY, \$2.50 per 100.

BUSBY MILLER, \$2.50 per 100.

GERMAN STOCK, 2 1/2 in., \$4.00 per 100, in bloom.

Assorted VINES, 2 1/2 in., \$2.50 per 100.

CANARY VINE, 3 in., \$6.00 per 100.

GRASS, \$2.50 per 100.

SANTOLINA, 2 1/2 in., \$2.50 per 100; 3 in., \$3.50 per 100.

ROSES, Chateauf, Golden Gate, 2 1/2 in., \$4.00 per 100; Richmond, 2 1/2 in., \$3.00; 4 in., \$5.00 per 100.

25c per crate for crating. Cash or C. O. D.

W. J. & M. S. VESEY, Fort Wayne, Ind.

Geraniums

From 3 1/2 inch pots. 500 S. A. NUTT; QUEEN OF THE WEST, single scarlet, excellent bedder. Good Stock.

H. D. ROHRER, Box 344, LANCASTER, PA.

GERANIUMS

S. A. Nutt, La Favorite and assorted, in bud and bloom, 3 in., \$4.00 per 100; 4 in., \$6.00 per 100. DRACAENA INDIVISA, 6 in. pot plants. \$2.00 per doz. Cash with Order.

GEORGE H. BENEDICT, YORKVILLE, N. Y.

GERANIUMS

3 in., \$2.60 per 100; 4 in., \$6.00 per 100. BOSTON FERNS, fine, 3 in., \$5.00 per 100. CHRYSANTHEMUMS, 2 1/2 in., \$2.00 per 100; Bonnafton, \$1.25 per 100. SALVIA and HELIOTROPE, 2 1/2 in., \$2.00 per 100. CANNAS, \$1.60 per 100. Cash with order please.

W. H. PARSIL, R. F. D. No. 8, Chatham, N. J.

CARNATIONS ROOTED CUTTINGS

Ready Now—Prompt Delivery. Red Chief.—Rich scarlet; it has the true Christmas color and is the leader in productiveness. Order now. Select stock, \$12.00 per 100; \$100.00 per 1000. F. DORNER & SONS CO., La Fayette, Ind.

CARNATIONS

Strong, Healthy, Well-Rooted Stock Per 100 Per 1000 From pots Cardinal 2 50 22 50 3 00 Enchantress .. 2 50 22 50 Harlowarden . 2 00 15 00 2 50 Boston Market 1 50 12 50 2 00 We have about 5000 fine Boston Market from pots Cash with Order. Satisfaction guaranteed. SMITH & GANNETT, Geneva, N. Y.

Jensen & Dekema CARNATION SPECIALISTS

674 W. Foster Ave., CHICAGO.

S. J. GODDARD

Framingham, Mass. Rooted Carnation Cuttings a Specialty Correspondence Solicited.

CHICAGO CARNATION CO.

JOLIET, ILL. All the latest and best varieties.

JOHN E. HAINES

The Originator of three varieties: John E. Haines Carnations..... \$ 6.00 \$ 50.00 Imperial "..... 12.00 100.00 Pink Imperial "..... 12.00 100.00 Headquarters at Bethlehem, Pa. Orders taken now for field-grown plants at same price as for rooted cuttings. JOHN E. HAINES, Bethlehem, Pa.

MABELLE

Grand New Pink Carnation for 1907. A few thousand R. C. and pot plants still left. Order quick. This variety is a money maker. Price of rooted cuttings, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000. Price of pot plants, 2 1/2 inch, \$3.00 per doz.; \$15.00 per 100. THE H. WEBER & SONS CO., OAKLAND, MD.

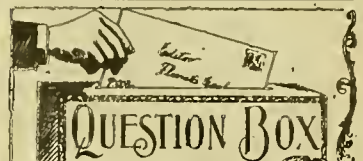
GERANIUMS

S. A. Nutt, Bruanti, and Assorted colors, 4-in., \$6.00 per 100; 3-in., \$4.50 per 100; Salterol, \$2.50 per 100.

CHRYSANTHEMUMS

White Shaw, \$3.00 per 100; \$25.00 per 1000. Yellow Bonnafton, \$2.50 per 100; \$20.00 per 1000. White Duckham, (new), \$2.00 per doz, Cash.

HENRY EICHHOLZ, Waynesboro, Pa.



(90) Vinca variegata.—I have noticed an annoying percentage of late propagated Vinca variegata, such as I generally use for planting for my stock, blackening off after being potted from sand (well rooted). The trouble also continues after the plants have established themselves; after potting on into 2 1/2-inch pots or planting outside, it seems to cease. I have not noticed this trouble with Fall rooted cuttings. C. W. Ontario.

—This is evidently a result of leaving the cuttings too long in the propagating bench after roots have been formed. We have propagated vincas both in Winter and Spring, but do not remember to have had any trouble with the tips dying off, as mentioned. Perhaps some reader who has had a similar difficulty can throw some light on the subject.

(91) White Fly.—I have part of a house infested by a small, active, white fly. I have tried all means known to me to get rid of it, but without success, and would like an answer from some brother in the trade who has successfully stamped it out. J. F. Pa.

—Frequent spraying with some good tobacco insecticide, or with a strong solution of whale oil soap, is the best remedy we know of for keeping down the white fly when troublesome in a house of mixed plants. Spray every few days, and do it thoroughly each time, so that every part of each plant is covered with the liquid.

(92) Spent Hops.—What are the manurial qualities of brewers' hops; how can it be used in the field and would it answer (if well rotted, same condition as peat) with potting soil in the greenhouse? WHITE FLY. Pa.

—Spent hops are equal in value to 85 per cent. of stable manure, so that if the hops can be had at a nominal figure, we would certainly use them. Like stable manure, they are useful when fresh for ploughing into land, or when sufficiently decayed so that they can be rubbed through a coarse sieve, for mixing with soil for potted plants or for filling benches.

GERANIUMS—GERANIUMS

READY MAY 1. In bud and bloom, S. A. Nutt, La Favorite, Beauty da Poitevine, Mary Hill, A. Ricard, John Doyle, Jean Vlaud, Marquis de Castellane, and other good varieties, 3 1/2 in. pots, \$5.00 per 100. CANNAS, Charles Henderson, Queen Charlotte, Duke and Gandale, 4 in. pots, \$5.00 per 100.

HELIOTROPE, 2 varieties, 3 1/2 in. pots, \$5.00 per 100.

HELIOTROPE, two varieties, 2 1/2 in. pots, \$2.00 per 100.

VERBENAS, 3 in. pots, \$2.50 per 100.

SINGLE PETUNIAS, large flowering, 3 in. pots, \$2.50 per 100.

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

AGERATUM, dwarf blue, 2 1/2 in. pots, \$2.00 per 100.

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

NASTURTIUMS, in variety, 3 in. pots, \$2.50 per 100.

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

PELARGONIUM VICTOR, 3 1/2 in. pots, \$7. per 100.

PHLOX Drummond, 3 in., \$2.50 per 100.

BEGONIA Metallea, 3 in., \$4.00 per 100. Cash with order.

WM. J. CHINNICK, TRENTON, N. J.

GERANIUMS GERANIUMS

The following varieties in 4-in. pots, in bud and bloom, in fine condition:

S. A. Nutt, Beauta Poitevine, La Favorite, John Doyle, Bruanti, Mar. Castellane, Trego, Mme. Buchner, Richard Brett, Ricard, Francis Perkins, Jean Vlaud, Double Grant, Mar. De Montmort, and several others, \$6.00 per 100. The selection of sorts to remain with us.

Cash must accompany all orders.

J. E. FELTHOUSEN, 154 Van Vranken Ave. SCHENECTADY, N. Y.

GERANIUMS

S. A. Nutt, Telegraph and Mme. Buchner (white), 4 in., fine stock, in bud and bloom, \$5.00 per 100.

VINCA, variegated, 5 in., 15 to 20 runners, \$2.00 per doz.; \$15.00 per 100.

R. ENGELMAN & SON, Pittsfield, Mass.

ADVERTISING IN THE FLORISTS' EXCHANGE - - - IS SURE TO BRING RESULTS - - -

A. L. YOUNG & CO.

WHOLESALE FLORISTS 54 WEST 28th STREET, NEW YORK Telephone: 3559 Madison Square PROMPT PAYMENTS. GIVE US A TRIAL CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED.

REVIEW OF THE MARKET

NEW YORK.—The continued cold weather has kept outdoor flowers backward, and there is no stock of that class coming in excepting lilac. Indications point to a good clearance of roses, carnations, and outdoor grown flowers for Memorial Day. There has been a lively call from out-of-town for carnations and many thousands have been shipped to distant points. Of course, this out-of-town trade does not call for high-priced flowers; most of these orders have varied in price from \$2 to \$3 per 100, the latter seemingly being the outside figure. Bride and Bridesmaid roses are not very plentiful, and prices are a trifle firmer than they were a week ago. American Beauty are plentiful enough for all demands, though the very special blooms are somewhat scarce, and a fair price is still obtainable for them. The shipping of 20,000 or 30,000 carnations will relieve the market to quite an extent, and the chances are, for the rest of the week, these flowers will be at a price somewhat in advance of that obtained one week ago. Sweet peas and daisies are quite plentiful, and there seems to be a fairly good demand for them. There has been quite an influx of lily of the valley, frame-grown, which is a strong competitor of the greenhouse product. Lilies are bringing slightly higher prices than they have for a week or two. There is still a full supply of gardenias; but bulbous flowers, such as tulips, narcissus and hyacinths, have greatly decreased in number.

CHICAGO.—This market within the past few days has seen another kaleidoscopic transformation for which it is justly famed, and at this writing, on Monday, with Memorial Day but three days off, it is largely conjecture to state what conditions are to be confronted during the week. Carnations are the one item on which the uncertainty rests, and with quantities of well developed buds in sight a solid week of cloudy weather has held them at a standstill until to-day it is a question whether orders already placed can be filled completely, to say nothing of what are to follow. On the other hand, a day or two of bright, seasonable weather will do much to relieve the tension. Peonies also are causing not a little worry and speculation as to the outcome. Roses generally are in supply more nearly equal to the demand, though thrips in some localities has made heavy inroads in the crop, and, of course, this staple shows a stiffening tendency in price in sympathy with the carnations.

Lilies of excellent quality are in good supply but during the day have also advanced somewhat in price. Spanish iris, German iris, some local lilac, limited quantities of peonies, jasmene and the staples above referred to, practically cover the field, and with almost nothing in the average home garden which increases the call on the commercial grower, the unfavorable weather has brought about a condition of affairs which at this writing is to say the least critical, and as one large grower and shipper said: "I could sell every flower I shall have right here for home use, and as the conditions which confront us are general throughout our shipping district our orders for shipping are correspondingly larger than usual."

Greens also are in good demand, especially ferns, which are selling according to quality all the way from \$2 to \$4 per thousand. W. K. W. PHILADELPHIA.—Memorial Day has made business very good; all kinds of flowers are selling well, as peonies, the usual standby at this time, are scarce this year. Peonies were selling on Tuesday at from \$10 to \$12 per 100 and those offered on first-class flowers. Nearly all on this market are from Virginia.

American Beauty roses realize \$3 to \$4 per dozen for the best stock; tea roses, \$10 per 100 for the best, some extra Mme. Abel Chateau and Wellsville bringing \$12.

In carnations some very choice Enchantress sold at \$8; a few Lady Beautiful, same grade, at \$5; general stock goes at from \$3 to \$4 per 100. Lily of the valley is scarcer this week and prices on it range from \$3 to \$5 per 100. Iris brings 50c. to \$2; daisies, \$2 to \$4; sweet peas, 60c. to \$1; carnations, \$1.50 to \$2 per 100 for the best.

Lilies go at \$15 per 100; callas, \$1.50 per dozen for some extra good stock. Gladioli realize \$1 to \$1.50 per dozen. Smilax sells at 20c. per string; asparagus, 50c. per bunch. All stock cleaning up well.

Shipping trade is very active. DAVID RUST.

BOSTON.—The market is at present all activity and Memorial Day orders are being shipped in large numbers. Much more flowers are used at this season in New England than at any other time during the year. This year out of door flowers are scarce, consequently growers are making a ready sale for all greenhouse products. There will, from all appearances, be plenty of all kinds of stock, however, as the past few weeks the supply has been getting gradually beyond the demand. In roses American Beauty still remain at the same price; other roses are selling at from \$2 to \$8, while Richmond bring from \$2 to \$16. Carnations realize from \$2 to \$3 and \$4 and \$5 according to grade. Lilies are plentiful and have advanced to \$8 and \$12. Lily of the valley sells at from \$2 to \$5; gladioli, \$4, \$6 and \$8. Sweet peas are plentiful at \$1, 50c and \$1. Spiraes sell at \$2 and \$3. Hardy cut ferns are scarce and there is no over-supply of any greens. J. W. D.

ST. LOUIS.—In looking over the stock this Monday morning at the four wholesale houses, we find only a very slight improvement in business. The wholesalers say the past week everything in season was in plenty, very much more so than the demand called for. Prices have advanced a little on good first-class stock, and these will continue until after Memorial Day. Trade among the retailers is reported very quiet in all lines, except funeral work. The plant trade has been brisk, as the weather has now gotten so that planting out can be done without any danger of frost.

As to stock in cut flowers, it is rather difficult to obtain extra fine grade roses, as very few come in; but with firsts, seconds and thirds, the market has been glutted all of the past week. Prices on extra long American Beauty for this week will go up to \$4 and \$5 per dozen; on other roses, such as Bride, Richmond, Killarney, Souvenir, President Capot and Bridesmaid, the best are up to \$6 and \$8 per 100; firsts, \$4 and \$5, and seconds, \$2 to \$3 per 100.

Carnations have been coming in fine, and in large quantities, more than could be disposed of. The price has gone up a cent or two on Enchantress, Cardinal and Boston Market—\$3 to \$4 for choice and \$1.50 to \$2 for the other grades. Plenty are coming in for all demands.

Fillmore is sending in a fine lot of cut candidum lilies to Kuehn, which sell well. These are from under glass, and bring 20c. per stalk. Lily of the valley should sell well this month for June weddings; there is plenty of it in at present at \$3 per 100. Peonies are coming in in large quantities, selling at \$4 and \$5 per 100. Cape jasmies are in plenty at \$7 per 100 for the extra fine grades; others sell at from 50c. to 75c. per 100.

All other outdoor stock has been dragging for want of demand. Callas and Harrisii lilies, too, have been accumulating for want of a sale. Fancy ferns are all out, and dagger ferns are now to be had at \$3 per 1000. In other greens everything is in plenty. Some very fine long smilax sells at \$15 per 100 strings. ST. PATRICK.

INDIANAPOLIS.—Florist wagons in all parts of the city heavily loaded with window boxes, roses and bedding plants, also a consignment amounting of flowers, beds and lawn decorations, indicate that the hopes for an excellent Spring trade are being realized. Contrary to most expectations, store work has improved because of the lack of dooryard flowers. The many orders for Memorial Day will surely maintain a lively business at that time. Many smaller towns are this season drawing upon the supply of the city's large greenhouses.

Peonies, which were despaired of, have come forth in a wonderful manner, and a large number will be marketable this week; they are now being wholesaled at \$7.50 to \$10 per 100. Good carnations must always be ordered in advance, at \$3 to \$3.50 per 100.

Inferior grades sell readily at \$1.50 to \$2 per 100. A large supply of Harrisii lilies is given full justice by the retailers, at \$10 to \$12.50 per 100. Candy-tuft, excellent quality, will be a mainstay for Memorial Day, at 25c. per plant. Feverfew, too, is in evidence at the same price.

The growers of Summer roses are producing fine stock at \$7 to \$8 per 100; the very short flowers fetch \$1.50 to \$2 and are readily sold for funeral work. Mme. Abel Chateau and Richmond roses are favorites with the counter trade, at \$2 and \$3 per dozen. American Beauty, too, are finding a splendid retail sale at \$2 to \$3 per dozen.

Hydrangeas and gloxinias are all there is to offer in the plant line besides the bedding stock.

Tomlinson Hall market was fairly alive with customers the past week. Outside work had been delayed so long that the first seasonable days brought out the flower lovers en masse. I. E.

ST. PAUL.—The cold, backward Spring has affected trade materially. Cut flower business has kept up nicely, but no doubt considerably more would have been done had the weather conditions been more favorable. Stock is about equal to the demand. While practically all of the dealers have their roses in full crop, there does not appear to be an over supply by any means.

Carnations are plentiful, but the inclement weather keeps the price up. The street dealers have not been able to do anything on account of the bad weather, therefore trade with the stores has been much better than at the same time last year. Spring flowers are slow in coming in. Peonies will be shipped from eastern points. The price being high, it is doubtful if many will be sold; they are now quoted at \$8 and \$10 per 100, which means, that the retailer will have to sell them for \$2 and \$2.50 per dozen, which is considered a high figure in this locality. Lily of the valley is selling at 75c. per dozen, and no drop in price can be expected until the outdoor stock makes its appearance. Some of the early varieties of tulips are on the market, but the demand for them is light; the present weather impresses one that these flowers are out of season.

Plant sales are quite active and large consignments have been shipped to outside towns the past week. From present appearances Memorial Day business will be unusually heavy; the dealers who cater to a shipping trade have booked all the orders for plants that they can conveniently take care of. Very little has been done in filling vases and boxes; about every other night we have heavy frosts, and it begins to look as though very little would be done in the cemeteries by Memorial Day. Soft plants cannot be safely planted unless they are protected. PAUL.

WASHINGTON, D. C.—Memorial Day following almost in the wake of Winter, presents a new phase to the florists. The outside flowers which usually blossom in profusion and are relied upon for decorations at this season are to be had only in most limited quantities by reason of the continued unseasonable weather; therefore, greenhouses must supply nearly all other than that which is shipped from Southern States. Peonies are just beginning to flower; and outside roses are even scarcer. Northern firms have been writing to local growers for their shipments of peonies, but the supply will fall far short of home demands at good prices, even if the weather should turn warm. Cool weather during the past week has somewhat improved the quality of greenhouse grown flowers. Trade has been better than during the two previous weeks, supply and demand about equalling each other. Pond lilies, which usually appear in the stores during the second week in May, are just being seen in limited numbers this week.

There are good prospects for a general clean up on May 30. JAS. L. CARBERY.

FIRMS WHO ARE BUILDING.

SOUTH PORTLAND, ME.—The new greenhouse in process of erection by John Minott is rapidly nearing completion. It will be devoted to roses.

WESTERLY, R. I.—S. J. Reuter is making another large addition to his plant. The new structure will be 500 feet long by 35 feet wide and will be devoted to rose culture. Mr. Reuter already has 165,000 feet under glass, and when the new greenhouse is completed he will have 200,000 feet. The several small houses, now being used for rose culture will be given up to carnations.

CHANGES IN BUSINESS.

GRINNELL, IA.—Walter Squire has bought the Willard nursery, west of town, for \$8,000; the place contains 40 acres.

WEST GROVE, PA.—Benjamin Connell, who for 15 years has been in business as a wholesale grower here, has closed out and temporarily retired from business. Mr. Connell wishes us to express his thanks to his many friends in the trade which he has made during the years he has been in business. He also informs us that he has no regrets for the money he spent with us in advertising during that time, and should he go into business again, he assures us he will turn to The Florists' Exchange in which to place his advertising.

Perplexities of a Tax Commissioner.

Governor Stokes of New Jersey has received from William K. Devereux, a member of the Monmouth County Board of Equalization of Taxes, a letter in Devereux's characteristic vein which shows the many difficulties with which a tax board has to contend in the matter of assessing gardens and greenhouses. The letter follows:

"My Dear Governor—Pardon my intruding on your valuable time, but I thought you would like to hear how your Monmouth County Board of Equalization of Taxes is coming on. To begin with, Governor, I find, as you predicted, the job of equalizing taxes is far from being a sinecure. We have been working overtime for three months, but as yet we have been unable to decide as to just what constitutes constitutional 'true value' in passing upon the assessments in the twenty-four taxing districts of Monmouth County. Our greatest trouble comes, Governor, from the show places—or freak properties—of the millionaires summering at Long Branch, Spring Lake, Elberon and Seal Beach. For instance, one of the Guggenheims, the main squeeze of the Cooper Trust, has a pretty glass-enclosed labyrinth on a portion of his estate at Elberon. Thus far, I confess with shame, I have been unable to ascertain the value of this show-front labyrinth. Labyrinths are not listed in Macy's new Winter catalogue, and Siegel-Cooper say they have never heard of them and have never carried them in stock. I asked a wiseacre friend of mine to put a fair price on a twentieth century labyrinth in prime condition, and he replied that he never ate any of it. He thought it was for Desperate, I next tackled Dominic Ballard, of Ocean Grove. To him I put the question, 'Labyrinths! Labyrinths! I am a trifle rusty, brother, on church discipline,' he replied, 'but I don't think Methodists are forbidden to play the new game, providing, of course, that there is no gambling attached to it.' Now, Governor, if they have any old sort of labyrinth down in Millville, for mercy's sake please quote me a price for one, so we can fix up the Guggenheim assessment, p. d. q. Down at Spring Lake, Marquis Martin Maloney, the gas magnate, has a famous show place containing a replica of a world-famous grotto. Now, Governor, I'm on the job when it comes to beer gardens, but I'm a mugwump if I know anything about the value of a grotto. If you ever owned one, put me wise as to its worth. The marquis also has a very elaborate iron fence around his estate. You, Governor, no doubt have built and repaired many fences in your political career; so please give me a line on their value—for taxing purposes, I mean. Another one of the Guggenheims—there are four of them—has a hot air plant underneath a portion of his garden for forcing tiger lilies to bloom outdoors in Winter. They tell me the plant—the iron pipes I mean, not the flower—cost \$30,000 to install. (On the quiet, Governor, that would have elected me Assemblyman from Monmouth last year.) What amount should we assess him for his tiger lily hobby? Then up at 'Kildysart', the Summer home of the late Daniel O'Day at Deal Beach, a small fortune was spent in laying out an Italian sunken garden. It's nothing, as you probably know, but a flower-bedded, one-mil-bellied hole in the ground. How are we to get at the intrinsic value of a big, open-air hole? "Yours for Equal Taxation of Labyrinths, etc."—Newark Evening News.

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Wholesale Prices of Cut Flowers, New York, May 28, 1907
Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	10.00 to 20.00	Inf'r grades, all colors.....	1.00 to 2.00
	extra.....	5.00 to 10.00	STANDARD White.....	2.00 to 3.00
	No. 1.....	6.00 to 8.00	VARITIES Pink.....	2.00 to 3.00
	No. 2.....	4.00 to 6.00	Red.....	2.00 to 3.00
	No. 3.....	2.00 to 4.00	Yel. & Var.....	2.00 to 3.00
	Bride, Maid fancy-special.....	5.00 to 8.00	*FANCY—White.....	3.00 to 4.00
	extra.....	3.00 to 4.00	(“The highest grades of standard var) Pink.....	3.00 to 4.00
	No. 1.....	2.00 to 3.00	Red.....	3.00 to 4.00
	No. 2.....	1.00 to 2.00	Yel. & Var.....	3.00 to 4.00
	Golden Gate.....	2.00 to 8.00	NOVELTIES.....	3.00 to 8.00
	RICHMOND.....	2.00 to 10.00	GARDENIAS, per doz.....	.50 to 2.00
	Mrs. Abel Chateauy.....	1.00 to 5.00	LIAC, per bunch.....	.10 to .25
	ADIANTHUM.....	.50 to 1.00	LILIES.....	6.00 to 8.00
	CROWWEANUM.....	1.00 to 1.50	LILY OF THE VALLEY.....	1.00 to 2.00
	ASPARAGUS.....	25.00 to 50.00	MIGNONETTE.....	1.00 to 4.00
	Plumosus, bunches.....	15.00 to 25.00	NARCISUS, White.....	.25 to .60
	Sprenger, bunches.....	15.00 to 25.00	Yellow.....	.50 to 1.00
	CAELAS.....	6.00 to 8.00	SMILAX.....	12.00 to 15.00
	CATTLEYS.....	40.00 to 60.00	SWEET PEAS, per doz. bunches.....	.75 to 1.50
	CYPRIPEDIUMS.....	12.00 to 15.00	TULIPS.....	1.00 to 2.00
	DAISIES.....	1.00 to 3.00		to
				to

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Indianapolis, Ind.
News Notes.
William Billingsley has returned from a successful fishing trip to Bass Lake.
Walter Bertermann, who superintends the outside work for Bertermann Brothers Company, is the busiest man in town just now.
John Hartje is supplying the trade with masses of candytuft.
The city florist is making admirable headway in decorating the parks, but it is painfully evident that Indianapolis does not spend enough money in this direction, as both equipment and help are insufficient for the large park area enjoyed by this city.
President Roosevelt's visit here on Memorial Day will doubtless swell the florist business, as extensive preparations are under way. I. B.

MANCHESTER, MASS.—The North Shore Horticultural Society held its regular meeting on the 17th inst. The subject under discussion was “The Gladiolus” when B. Hammond Tracy gave an interesting and instructive talk, describing the various strains and many varieties of these flowers. It was decided that the silver cup, offered by the Blue Hills Nurseries for the best collection of herbaceous perennials, would be competed for at the June show instead of at the August exhibition as printed in the schedule. A certificate of merit was awarded to W. E. Allen for superior cultivation of Enchantress carnations, and James Salter received an award of merit for phlox Miss Lingard, and White Column stocks. J. W. D.

MANKATO, MINN.—W. A. Snyder, nurseryman, 819 Baker avenue, has left town and his whereabouts are unknown.

S. S. Pennock=Meehan Co.

The WHOLESALE FLORISTS OF PHILADELPHIA

Store closes at 8 P. M. 1608 to 1618 LUDLOW STREET

For June Weddings and Commencements We will have a fine lot of Peonies, Valley, Daisies, Sweet Peas and other seasonable flowers

Cedar Bark in strips for covering tubs and window boxes, 75c. per bundle

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Valley, American Beauties, Brides and Maids; Sprengerl, Asparagus Plumosae, Carnations and Violets, all seasonable flowers. Large stock of Stevia on hand, can supply you at lowest market prices at short notice. Telephone and telegraph when you need cut flowers to

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Wholesale Prices of Cut Flowers—Per 100

Table with columns for cities (Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburg, St. Louis) and rows for various flower varieties (Beauty, Bride, Golden Gate, K.A. Victoria, Liberty, Meteor, Orchids, Carnations, Callas, Daisies, Lilies, Lily of the Valley, Mignonette, Smilax, Violets).

Chicago.

News of the Week.

C. H. Fisk has just completed the erection of a conservatory in the rear of his Ogden avenue store which is a great improvement, being three feet higher than the former structure over which the new house was built before the old one was taken down.

Four thousand graves of former Union soldiers were decorated in Cook County alone on Memorial Day.

It is stated that the recent phenomenal profits of the Board of Trade brokers have, among other things, occasioned the settlement of many florists' bills which had been 'stood off' for years.

William Hastings, representing A. H. Hews Company, Cambridge, Mass., stopped over here a few days on his Western trip.

Miss Saline of Omaha is visiting her sister, Mrs. C. H. Stewart.

Owing to the Memorial Day rush at Winterson's Miss Davidson courageously left a sick bed to fulfil her duties on the hooks during the week.

H. F. Pruyn, a railroad man who runs from Baraboo, Wis., to this city has, in connection with his son, established a cut flower business in his home town and has been purchasing plants to stock his recently completed greenhouse.

The E. F. Winterson Company has been having a very successful run on hardy ferns, the daily receipts for the past two weeks averaging eighty-five thousand from Southern Colorado and Montana.

The game of base ball between the Chicago Florists and the Roosevelts at Washington Park last Sunday afternoon was called, on account of the storm, at the end of the seventh inning, when the score stood 3 to 1 in favor of the Roosevelts. A return game will be played next Sunday.

C. W. McKellar received this week a fine lot of Spanish irises in assorted variety which in such generous quantity were a novelty in this market, proving quite acceptable to the trade.

O. Johnson, who has opened a commission stand in the store of the Chicago Rose Company, reports satisfactory encouragement for the first week.

Mr. and Mrs. Charles Heyme, 5422 Halsted street, will spend the next four or five months in Europe.

Weiland & Risch were in good crop both in carnations and roses for Memo-

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ORCHIDS
 FANCY VALLEY, ROSES, CARNATIONS,
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THE FLOWER GROWERS MARKET
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 See PERCY JONES, Mgr.
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 CHOICE AMERICAN BEAUTY ROSES
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 Consignments Solicited

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 Wholesale Florists
CUT FLOWERS

Wholesale Prices of Cut Flowers, Chicago, May 28th, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		STANDARD	
38-inch stems..... per doz.	..... to 4.00	White.....	3.00 to 4.00
30-inch stems..... "	..... to 3.00	Red.....	3.00 to 4.00
24-inch stems..... "	..... to 2.50	Yellow & var.....	3.00 to 4.00
20-inch stems..... "	..... to 2.00	*FANCY White.....	5.00 to 6.00
18-inch stems..... "	..... to 1.50	(The high Pink.....	5.00 to 6.00
12-inch stems..... "	..... to 1.00	sat grades Red.....	5.00 to 6.00
8-inch stems and shorta.....	..... to .75	of Sta'd var. J Yellow & var.....	5.00 to 6.00
Bride Maid, fancy apsectal.....	8.00 to 10.00	NOVELTIES.....	..... to
" extra.....	..... to 6.00	ADIANTUM.....	.75 to 1.50
" No. 1.....	..... to 5.00	ASPARAGUS, Plum. & Ten.....	.85 to .50
" No. 2.....	2.00 to 4.00	LILIES, Sprengeri, bunches.....	.85 to .50
Golden Gats.....	2.00 to 8.00	Orchids—Ostlaysia.....	8.00 to 15.00
Uncle John.....	2.00 to 8.00	SMILAX.....	6.00 to 20.00
Liberty.....	2.00 to 8.00	LILY OF THE VALLEY.....	12.00 to 4.00
Richmond.....	2.00 to 8.00	HARDY FERNS per 1000.....	2.00 to 4.0
Killarney.....	2.00 to 8.00	GALAX.....	1.00 to 1.25
" extra.....	10.00 to 12.00	SWEETPEAS.....	.50 to 1.50
Perle.....	2.00 to 8.00	SNAPDRAGON.....	4.00 to 8.00
Chatanay.....	2.00 to 8.00	PEONIES.....	5.00 to 8.00
Callia.....	5.00 to 12.00	JESSAMINE.....	1.00 to 2.00
Tulip, White.....	1.00 to 4.00	.....	..... to
" Yellow.....	1.00 to 4.00	.....	..... to
Mignonetta.....	2.00 to 6.00	.....	..... to
FORGET-ME-NOT.....	..... to .50	.....	..... to

WIETOR BROS.
 WHOLESALE GROWERS OF
CUT FLOWERS
 All telegraph and telephone orders given prompt attention.
 51 Wabash Ave., CHICAGO

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CUT FLOWERS
 51 Wabash Ave., CHICAGO.
 Room 218. L. D. Phone 3284 Central

All Leading Varieties of
PETER REINBERG
 Wholesale Cut Flowers
 51 Wabash Ave., CHICAGO, ILL.
 Headquarters for American Beauty Rose

SINNER BROS.
 WHOLESALE CUT FLOWERS
 60 Wabash Ave., Chicago.
 Careful attention to all
SHIPPING ORDERS.

A. L. RANDALL CO.
 Western Headquarters for
 Up-to-Date Florists' Supplies
 Write for Catalogue
 No. 19 RANDOLPH ST., - CHICAGO.

Poehlmann Bros. Co.
 Wholesale Growers of
 and Dealers in **Cut Flowers.**
 All telegraph and telephone orders given prompt attention.
 Greenhouses: 35-37 Randolph St.,
 MORTON GROVE, ILL. CHICAGO.

ST. PAUL, MINN.
 Send us your Orders for delivery in the
 Northwest, which will have our
 best attention.
L. L. MAY & CO.,
 Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.
 WHOLESALE FLORISTS
 and FLORISTS' SUPPLIES
 Manufacturers of WIRE DESIGNS
 457 Milwaukee St., MILWAUKEE, WIS.
 *Phone, Main 874. P. O. Box 103

WHOLESALE CUT FLOWERS
 and FLORISTS' SUPPLIES
C. C. Pollworth Co.
 MILWAUKEE, WIS.

Your Money is well spent when you
 advertise in
THE FLORISTS' EXCHANGE

E. H. HUNT
The Old Reliable
 FOR
CUT FLOWERS AND SUPPLIES
 76-78 Wabash Avenue, CHICAGO.

rial Day, Killarney showing up well with them as usual.
 Zech & Mann, in addition to the general line offered for the holiday trade, had a fine lot of stocks in assorted colors.

Both South and North Chicago were visited by severe hail storms on Sunday afternoon last. In the south the storm was most severe, Kidwell Brothers suffering the breakage by hail of some four or five hundred panes of glass.

A. H. Burt of Kankakee was in the city Monday, looking up Memorial Day supplies.
 William W. Abrahamson, representing E. H. Hunt, leaves next week for a two months' trip among his trade.
 Flint Kennicott felt compelled to leave a sick bed the first of the week to meet the holiday rush.

Bassett & Washburn said Monday that the prospect was that they would be short in all lines. A fine lot of lilies was one of their Memorial Day specialties.

Lacy Young of the Deamud & Young Fern Company came down last week to stay in the city until after Memorial Day, when he will return to the forest and his ferns.

The Benthey-Coatsworth Company were in good crop of roses and the first of the week were handling a large consignment of local lilac, which was about the first that had appeared.

At Vaughan's Seed Store is noted an importation of cypres stems which appear to be finding a ready market, and the demand for gladiolus bulbs continues unusually good.

The annual shipments of jasmine from Texas are now at their height and form an attractive feature of the market.
 At Peter Reinberg's salesroom they were congratulating themselves on the good fortune of having a fine crop of all varieties of roses on for the holiday.

Sinner Brothers had a splendid cut of carnations, which came in at just the right time when they were most needed, and the firm also noted quite an increase in their shipping trade.

The abandonment of the horse show will be viewed with regret by some retailers, but it will doubtless make possible a more favorable date for the flower show.

Work is quietly, but constantly going on, tending to the perfection of the plans for the flower show. The committee on premium list held a meeting at P. J. Hauswirth's on Monday afternoon. The exhibition will be held in the Coliseum, October 31 to November 6.

Every Tuesday evening at Mussey's the practice bowling goes on, and the next two and a half months are expected to develop a team well qualified to represent Chicago at the convention.

J. S. Wilson attended a Horticultural Society committee meeting on Monday, and in conversation stated that he had been so busy at Western Springs that this was his first visit to the city since February.

P. J. Hauswirth expected to move into his new store on Monday last, but was put off for a day or two, and, owing to the intervention of Memorial Day decided to postpone the removal until next week.

On Monday Vaughan & Sperry stated that they were simply snowed under with orders, particularly for carnations.

Wietor Brothers were showing the first of the week an excellent cut along all lines of their produce, both carnations and roses. Their seedling scarlet carnation is showing up remarkably well for this season of the year, when scarlets are most apt to be past.

William N. Campbell of the Vaughan Seed Store staff, recently associated with the New York department, has gone to California, where he will enter the real estate business, doubtless keeping one eye on seed products at the same time.

A good crop and an abundance of orders were the pleasing conditions surrounding the J. A. Budlong salesrooms the first of the week.

Poehlmann Brothers Co. may be justly proud of the Morton Grove products which they placed on the market this week, both as to quality and quantity.

The J. B. Deamud Company entered the week's contest backed with a fine stock of goods and favored with a nice bunch of advance orders.

Mr. Dickinson at E. H. Hunt's feels highly pleased with the success which To-hac-ine products are meeting all over the country where they are being introduced.

A. L. Randall's was a busy place early this week, where in addition to the cut flower rush the supply department was in full swing. WILLIAM K. WOOD.

Philadelphia.

The Week's News.
 All the commission houses are doing a good business this week, and the Spring plantmen report that every plant with a flower on it is being sold; some were sold out on Tuesday.

At the club meeting next Tuesday Antoine Wintzer of the Conard & Jones Company, West Grove, Pa., will speak on "The Deterioration of Forcing Roses, the Cause and the Remedy." The convention committees will have much of interest to report.

A meeting of creditors of H. T. Dumont Company and the Rosary Flower Shop was held Wednesday. The liabilities are about \$800, consisting mostly of supplies furnished to the flower store. H. T. Dumont sold out his wholesale business some three months ago, and took a position in another line of trade, but still continued the Rosary Flower Shop on Fifteenth street, which has not been successful. It is thought that everything will be paid up.

E. H. Smith of Hazletou, Pa., was in town on Tuesday last. DAVID RUST.

New Crop of DAGGER and FANCY FERNS

NOW READY \$2.00 PER 1000
HEADQUARTERS FOR HARDY CUT GREENS AND FLORISTS' SUPPLIES



New Crop Brilliant Bronze and Green Galax. \$1.00 per 1000.
Southern Wild Smilax \$3.50 and \$7.00 per case.
Laurel Festooning, good and full, 5c. and 6c. per yard.

Branch Laurel, 50c. per bundle.
Leucothoe Sprays, \$1.00 per 100.
Sphagnum Moss, 50c. per bag; five bags \$2.00.
Green Moss. \$1.00 per bbl.



Florists' Supplies—A full line of florists' supplies, wire frames, corrugated boxes, cut flower boxes, immortelles, Cycas leaves, sheaves of wheat, tin foil, cut wire, etc.

HENRY M. ROBINSON & CO.
15 Province St.—9 Chapman Place, BOSTON, MASS.
Tel. Main 2617-2618

Fancy or Dagger Ferns



Dagger Ferns, \$2.00 per 1000
Fancy Ferns, \$2.00 per 1000
Galax, Bronze or Green, New Crop 75c. per 1000, or \$6.50 per 10000 lots.
Boxwood, No. 1 Stock, 50 lb. cases, \$8.50.
Laurel Festooning, 4c., 5c. and 6c. per yard. Finest quality.
Laurel Wreaths, \$3.00 per doz. Cheaper grades if wanted.
Southern Smilax, fancy stock, 50 lb. cases \$5.50.
Laurel Branches, 35c. per bundle.
Long distance telephone connection

Telegraph Office: New Salem, Mass.

GROWL FERN CO., MILLINGTON, MASS.

EXTRA FINE FANCY AND DAGGER FERNS

\$2.50 per 1000. Discount on large orders. Leucothoe Sprays \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE
Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season
Formerly **DETROIT, MICH.**
38 & 40 Broadway. Miami Ave.
Send for our weekly price list on Cut Flowers.

REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

N. LEGAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214 Madison Square



Stands at Out Flower Exchange Coogan Bldg., W. 28th Street & 34th Street Out Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Leucothoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves

THE BEST WAY to collect an account is to place it with the **National Florists' Board of Trade**
56 Pine St., New York

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, BERLIN, N. Y.
Samples free. For sale by dealers.

All NURSERYMEN, SEED and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read freely by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscription to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, Lowdham, Notts
European Agents for THE AMERICAN CARNATION

TOBACCO DUST OR SAW DUST WHICH??

211 North St.
Claremont N. H. Apr 5, '07

The H. A. Stoothoff Co.
New York
Dear Sirs—

Please ship me as follows

100 lbs Fumigating Tobacco powder	\$3.00
100 " Black stuff fine	2.00
144 sheets Aphicide,	3.50
10 Fumigating plates	850
	\$9.00

Send the powder by freight, the Aphicide by express prepaid. I enclose check for \$200
Three or four years ago I had a bag of the Black stuff fine and it was without exception the best tobacco powder I have ever had. Since then I got some stuff from a seed house. I paid more for the article and got left on it. It was much like sawdust than anything else. Now I am coming back to you.

Yours truly
C. E. Stevens.

Say, Stevens, we would sure like to know from you and others like you "why you stray away" to folks who don't know tobacco powder from sawdust. We have been telling you and others in a hundred different ways how smart we are in the way of tobacco powder; that we have been in the tobacco powder business for twenty years, and why our tobacco powder should be and is, twenty years **AHEAD OF ALL OTHERS.** Again we ask, why you let the fellows that don't know, skin you, who should know, that the **BLACK STUFF FINE TOBACCO POWDER**, for dusting, at 2c. per pound, in our bag holding 100 pounds, with our name, address and brand on each bag, sold only by us, direct to you, is the **only one. WE WOULD LIKE TO KNOW.**

THE H. A. STOOHOFF COMPANY,
116 West Street, New York, N. Y.

SOUTHERN WILD SMILAX BEAVEN'S FADELESS MOSS NATURAL SHEET MOSS E. A. BEAVEN, Evergreen, Ala.



PREPARED PALMS AND PALM LEAVES

in all varieties
Also Moss, Fibre, Needle Pines, Pine Cones, Uve Grasses, etc. Buy from HEADQUARTERS.

Florida Natural Products Co.
Fernandina, Fla.

WATERBURY, CONN.—William M. Cottle, sixty-five, a florist, and Arthur G. Mieliez, aged four, were struck by a train at Brown's Crossing on the Water-town branch of the New York, New Haven and Hartford Railroad on May 22, and killed instantly. Their skulls were fractured and their necks broken. Mr. Cottle was a prominent Mason and Oddfellow, and a native of Martha's Vineyard, Mass.

DAVENPORT, IA.—The members of the Tri-City Florists' Club are planning to hold their annual picnic at Black Hawk Watch Tower and have set the date for July 11. A committee consisting of H. Bryant, Julius Staack and Henry Gaethje will make the arrangements. The committee will report at the next regular meeting of the association which will be held with Ewoldt Bros. of Davenport.

Boston.

News Notes.

In the Arnold Arboretum at the present time is seen one of the best shows of the season. The pyrauses are yet, owing to the cool weather, in fine splendor, the lilac collection is just beginning to be an attraction, and more visitors will within the next two weeks pass through this park than at any other time during the year.

Severe frosts prevailed during the past week in many localities hereabouts and not nearly the amount of Summer bedding has yet been done that is generally completed by Memorial Day.

W. H. Elliott is busy on his new house at his New Hampshire place and expects to have it ready to fill up with roses for Winter blooming.

Elijah Cartwright is building his new houses in place of those recently destroyed by fire and when complete will have a very up-to-date establishment.

At Horticultural Hall on Saturday last T. D. Hatfield exhibited a new seedling calceolaria, a hybrid between Golden Gem and a herbaceous variety. It was awarded a silver medal by the committee. A fine collection of late tulips was shown by W. N. Craig, North Easton. J. W. D.

Hilton, N. Y.

Gordon Brothers, two young men, are starting in the florist business here. They already have one good greenhouse and intend adding to it as they may find the occasion demand. J. M.

All the advertisements in THE FLORISTS' EXCHANGE are inserted under instructions from the advertisers.

Prices Advertised in these Columns are for

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

Heating.

Growers' Problems Solved by U. G. Scollay.

How much 2-inch pipe will be required for the greenhouse as described below, and how should the pipes be arranged? The walls are 100 feet long, 24 feet wide, 15 inches thick and four feet high, of stone masonry. The east corner of the greenhouse is just even with the surface of the ground; south side will be all in ground but 1 1/2 feet on southwest corner; west end will be protected by the boiler house, 15x24 feet; north side of greenhouse will be all in ground but 1 1/2 feet of exposed wall on lower northwest corner. Boiler pit 5 feet below floor of greenhouse. I wish to heat this house to 55 degrees inside with 25 degrees below zero outside. The greenhouse, which is 16 feet high from floor to ridge, will be exposed to full winds and weather and full sun. It stands on a side hill sloping to the west, a 3/4-span to the south house. I prefer to hang the pipes to outside walls by means of hook plates.

F. B. P.

New York.

—Being so specific regarding the depth of your boiler pit, I assume that it is impossible, or at least undesirable, for you to go any deeper. Under these circumstances I would advise you to pipe the house, using overhead flow mains. The heating coils should consist of 21 lines of 2-inch pipe. To this surface will, of course, be added the two overhead 3 1/2-inch mains. These mains should be supported in place, one on each side of the column supporting the ridge of the house, by means of heavy iron bracket hangers made for the purpose. The highest point of the system should be at the boiler end of the house, and should be properly air vented at that place (on both mains). Let the mains drop toward the east end at a grade of no less than one inch in ten feet. I would distribute the lines of 2-inch as follows: South wall, five lines; north wall, four lines; south raised bench, four lines; north raised bench, four lines; and center solid bench, four lines. The pipes on the solid bench may be divided into two coils, that is, two lines on each side, connecting each coil from the overhead main with 2-inch; all other coils connect up 2 1/2-inch. Place full opening gate valve on each flow connection, full size of same. As by the above arrangement of piping there are six coils, you, of course, understand the intention is to connect three to each overhead main. Your return mains to the boiler should be in the same proportion as the flow mains leaving it. Have expansion tank placed in the most convenient location near the boiler, and as high above the overhead mains as you can get it. Of course, you will understand that the coils must fall from the east end back toward the boiler, giving them all the grade that you can.

Concerning the boiler, I would advise you to purchase a regular greenhouse make of a capacity of not less than 2,000 feet of 4-inch greenhouse pipe. This boiler may seem larger than you anticipated, but it will be found to be economical, especially when you reach that 25 degrees below zero, which is not uncommon in the Adirondack section, with which the writer is quite familiar.

My only reason for laying out the job with two flow and two return mains of 3 1/2-inch size direct from the boiler, is, that I think you would find them easier to handle than to run one larger flow and return of 4-inch size into the house and branch out from that point. If you prefer to adopt this latter plan, it will give you the same results. Again, it is possible you may find it more convenient to carry each return from the coils directly into the boiler room, and connect up separately to the boiler. As many boilers can be tapped with the required number of holes, you may find it very convenient to adopt this method. Be careful, however, and have each return to correspond in size with the flow connection.

U. G. SCOLLAY.



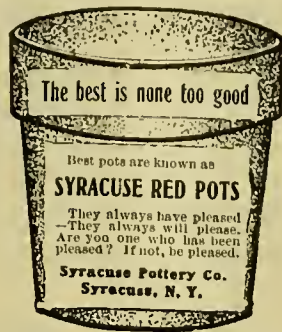
THE BEST

**Bug Killer and
Bloom Saver**

For PROOF

Write to

**P. R. PALETHORPE CO.
LOUISVILLE, KY.**



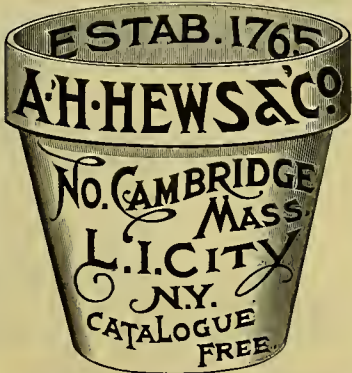
STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1600 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20		
1500 2 3/4 " " " 6.25	60 8 " " " 3.90		
1000 3 " " " 5.00	48 9 in. pots in crate, \$5.00		
800 3 1/2 " " " 5.80	24 11 " " " 8.60		
800 4 " " " 4.50	24 12 " " " 4.80		
820 5 " " " 4.51	12 14 " " " 4.80		
144 6 " " " 8.18	6 16 " " " 4.60		

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts., 81 Barclay St., N. Y. City



NIKOTEEN A PHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES

NIKOTEEN

FOR SPRAYING OR VAPORIZING
PRICE \$1.50 PER PINT BOTTLE. \$13.00 PER CASE OF 10 PINT BOTTLES.

NICOTINE MFG. CO. ST. LOUIS MO.

HOW TO GROW MUSHROOMS

Price, - - 10 cents.
A. T. De La Mare Ptg. & Pub. Co.
2-8 Duane St. New York.



The Whilldin Pottery Co.
STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



TO-BAK-INE PRODUCTS

These products will positively destroy all insect pests (including White Fly, Red Spider, and Thrip) that attack greenhouse grown stock.

TO-BAK-INE FUMIGATING PAPER

contains more Nicotine per sheet than any other. It kills the bugs and does not harm the blooms or plants.

Per box of 24 sheets (18x6) @ \$.60

Per case of 288 sheets (18x6) @ 6.50

TO-BAK-INE LIQUID

Positively the strongest and best article offered for spraying. It will kill the insects and guaranteed not to spot or discolor the blooms. It can be used with absolute safety on your stock in full bloom.

1/4 pint can.....\$0.60	1/2 gallon can..... \$7.75
1/2 pint can..... 1.10	1 gallon can..... 15.00
1 pint can..... 2.00	5 gallon can..... 67.50

Send for full spraying information and price on 10, 20 and 40 gallon casks with locked faucet.

TO-BAK-INE FUMIGATING COMPOUND

Those who fumigate or vaporize will find this the most effective of all compounds. It is used by the biggest growers in the country and it keeps their stock free from insects.

1 pint....\$2.00	1/2 gallon....\$7.75	1 gallon....\$15.00
------------------	----------------------	---------------------

Write for prices on cask lots or contract orders of not less than 100 gallons per annum.

Write for booklet.

HENRY F. MICHELL CO.

1018 Market St., Philadelphia, Pa.

IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.

Sheep Manure

Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton N. J.

PLANT CULTURE

PRICE \$1.00.
A. T. DE LA MARE PTG. & PUB. CO.
2 DUANE STREET, NEW YORK

Medium Width Houses

Some men take the stand that houses of medium width are better for them. Better because they are large enough to make heating and ventilating satisfactory, and still not so large as to be in any way unwieldy. That's why we built this range of 27 foot Iron Frame Houses for one of the largest rose growers in Madison, N. J. We would like to write you exactly why he built Iron Frame houses and tell you a few things about their arrangement, heating method, etc. If you'll write to us, we'll write to you.



HITCHINGS AND CO.
GREENHOUSE DESIGNERS AND BUILDERS.
 Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.

The LOW BOILER

4 ft. high. Can furnish lower if necessary. This boiler is designed and specially adapted for greenhouse service. The form of construction makes it very efficient and economical. Write for picture and booklet. Free Hose Trial, Pipe Fittings, Valves, Etc.
WM. H. KAY CO., 244 Fulton St., NEW YORK

GREENHOUSE GLASS
ALL SIZES
 16x24 A. & B. Double a Specialty
C. S. WEBER & Co.,
 10 Desbrosses St., New York

Schenectady, N. Y.
 The florists of this city all report good business. While there are no very large or even medium sized places here, every one seems to be satisfied.
 Jas. E. Felthousen has apparently most glass; this is used only for the production of rooted cuttings of geraniums and coleus; over 150,000 of each have been sent out the present season. Mr. Felthousen has accumulated some desirable property in different portions of the city and it keeps him busy attending to same. He is building some nice residences for rent and only keeps the greenhouses going to afford him agreeable employment in his spare time.
 J. M.

Little Falls, N. Y.
 The Overlook Greenhouses, belonging to D. H. Burrell & Company, are the most extensive here. While originally intended for a private place and still used as such, the greenhouses have been turned into commercial use and furnish the cut of blooms for the greatest part of the local trade. Wm. A. Hyde is superintendent and grower. It is with regret your correspondent learned that a brother of Mr. Hyde's, an engineer on the New York Central, was in the ill-fated wreck on the road here a few days previous, and had died in the hospital. Mr. Hyde has the profound sympathy of the entire community.
 J. O. Graham has a few well filled greenhouses in the business portion of the city and enjoys a splendid trade.
 Mrs. Mary E. Holmes has a cut flower and plant store on Second street. It is now Mary A. Holmes Kaiser; Mrs. Holmes has taken unto herself a life partner.
 J. M.



We use nothing but **SUN DRIED, ALL HEART CLEAR CYPRESS** the wood that was used for mummy cases by the ancient Egyptians and is lasting yet. If you get one of the **FOLEY GREENHOUSES** (they last a lifetime) you will get more as your business grows. They are carefully designed, every part fitting its exact place. If you once use the **FOLEY VENTILATING APPARATUS** its high excellence will appeal to you and show that it is the **BEST** in every way. Get descriptive pamphlet on it. Write us for anything needed and receive our catalog of **GREENHOUSE MATERIALS**

Foley Mfg. Co.
 Western Avenue and 26th Street,
CHICAGO.
 Our visiting friends are heartily welcome to call and see us at our handsome new factory. Transfer from any West Side street car to the S. Western Ave. line and get off at 26th St.

Holds Glass Firmly
 See the Point of PERLESS
 Glazing Points are the best to right of center. Box of 1,000 points 16 cts. postpaid.
HENRY A. DREER,
 714 Chestnut St., Phila., Pa.

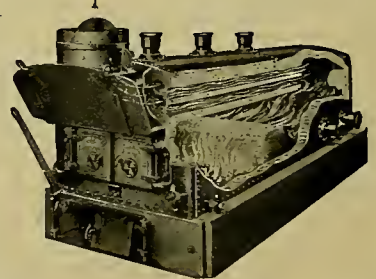
For use in houses, Greenhouses, Hot beds, Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.
GLASS
N. COWEN'S SON,
 14 & 16 Wooster Street, NEW YORK

SAVE TIME AND MONEY
 OUR GULF CYPRESS

GREENHOUSE MATERIAL

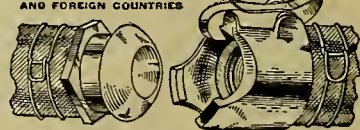
CUT AND SPLICED, REQUIRE NO MECHANICS
 LET US ESTIMATE ON YOUR HEATING, VENTILATING APPARATUS, HOT-BED SASH
Putty--GREENHOUSE GLASS--Points
 AT WHOLESALE
S. JACOBS & SONS,
 GREENHOUSE CONSTRUCTION MATERIAL
(1365-79 Flushing Ave., BROOKLYN, N. Y.)

THE KROESCHELL BOILER
IS THE ONLY PERFECT HOT WATER BOILER
 Made in 15 sizes heating 6,000 to 50,000 square feet glass to 60° at 15 below zero.
 Prices and Catalogues on application.
KROESCHELL BROS CO.,
33 ERIE STREET, CHICAGO.



MASTICA
 FOR Greenhouse Glazing
USE IT NOW.
F. G. PIERCE CO.
 170 Fulton St., NEW YORK


Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

PATENTED IN UNITED STATES AND FOREIGN COUNTRIES

 \$3.00 per doz. sets, two pieces.
 \$2.25 per dozen females for faucets.
 Discount on gross lots.
EMIL GLAUBER, Montclair, Colo

STANDARD Pumping Engines
 Afford the cheapest and most reliable means for pumping water for florists' use.
The Standard Pump & Engine Co. CLEVELAND, O. A. E.

Evans Improved Challenge
 Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
 Write for catalogue and prices before placing your order elsewhere.
QUAKER CITY MACHINE CO. RICHMOND, IND.

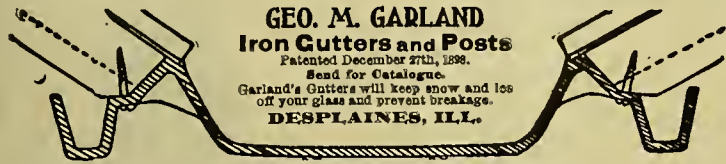
SUMMER IN WINTER
 BY USING
Standard Greenhouse Boilers
 One cent gets our catalog.
GIBLIN & CO., UTICA, N. Y.



U-BAR GREENHOUSES
 FOR FLORISTS' SHOW ROOMS, PARKS AND PRIVATE ESTATES.
PIERSON U-BAR CO. Send for Catalog
 Designers and Builders U-Bar Greenhouses
 Metropolitan Building, 4th Ave. and 23d St., New York



The Greenhouse Structural Co.
 840 West 4th Street, CINCINNATI, OHIO
 Manufacturers of
IRON FRAME GREENHOUSES
 Re-enforcing for Concrete "Post and Board" Walls.
 Ventilating Machinery, Iron Fittings, Iron Purlins
 and Gutters for wood houses, etc., etc.
 Send for catalogue and designs.



GEO. M. GARLAND
Iron Gutters and Posts
 Patented December 27th, 1898.
 Send for Catalogue.
 Garland's Gutters will keep snow and ice
 off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at Chicago Flower Congress' Stand

Greenhouse Material  **Hot Bed Sash**
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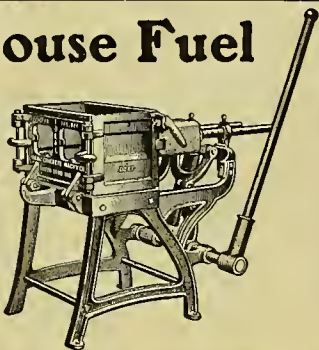
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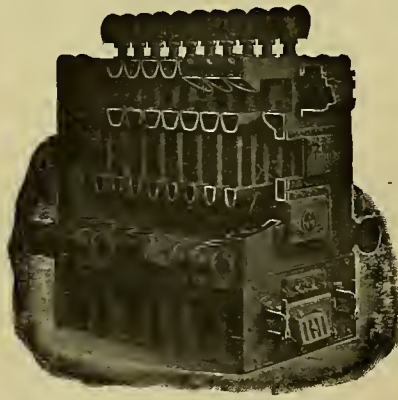
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 A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL

Vol. XXIII. No. 23 NEW YORK AND CHICAGO, JUNE 8, 1907 One Dollar Per Year

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The most talked about carnation at the Toronto Convention. Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

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There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

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Anyone who fails to plant Winsor this year will regret it. Rosa pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.
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CUT STRINGS, 50c. EACH

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Grand Orchid flowers with bronze Musa-like leaves, strong 3 inch. Doz. \$3.00, 25 for \$6.00. Get it now.

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Fresh greenhouse grown seed of highest vitality, grows into money quickly. Per 1,000, \$4.00; 5,000 for \$17.50; 10,000 for \$30.00.

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	9-inch	11-inch	12-inch	14-inch	
Each\$0.85	\$ 1.00	\$ 1.25	\$ 1.50	6-8 feet.....100 for \$1.00; per 1000, \$6.00
Dozen 9.50	11.00	13.00	16.00	

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Pure White, Brilliant Pink, Deep Blue, Chiswick Red, Crimson, Salmon, Christmas Red and Superior Mixture at 50c. per 100 seeds or \$4.00 per 1000

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Send for prices.
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 Everything of the highest grade.

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Extra fine dormant ROSES in the leading varieties on hand.

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	100	1000
Calla Asthiopica, 10 inches circumference	.. \$10.00	\$90.00
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Single Tuberoses Begonias, Large bulbs, separate
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Double Pearl Tuberoses, write for prices.
Highest Quality French and Dutch Bulbs.
Now is the time to book your orders.

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More durable than any CANE or
Wooden Stake for tying Roses, Lilies
Chrysanthemums, etc., 6 feet long, 3/8
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Extra Heavy Bamboo Stakes
When strong supports are needed for
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From Flats: Asparagus Pl. Nanus
Seedlings, per 100 \$1.25, per 1000 \$10.00.

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assorted. Adiantum, Aspidium, Cytio-
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100 \$1.25, per 1000 \$10.00.

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Best Grades Only.
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PRICES:
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250 at 1000 rates.

All orders up to 1000, sent free by mail.
Limited quantity of **MAMMOTH BULBS**,
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German or Japan Iris,
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ALL LIVE AND UP-TO-DATE FLORISTS GROW THEM

The forcing of cold storage lilies
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these we can refer you to hundreds
of florists who make a success of
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Our lilies are bought for and
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LILIIUM LONGIFLORUM and gigan-
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cold storage. **Speciosum** from five
to six months, so that longiflorum
wanted for Thanksgiving and Christ-
mas should be planted about Oct.
1st, and **speciosum** and auratum
about July 1st.

We have limited quantities of the
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subject to being unsold and at
the prices named; Will hold not later
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without any additional charges for
cold storage. **ORDER TO-DAY.**

All cases are repacked before ship-
ment.
**LILIIUM LONGIFLORUM GIGAN-
TEUM**—Cold storage. per per
7 to 9-inch bulbs, 300 in 100 1000
case \$8.00 \$75.00

ARTHUR T. BODDINGTON. 342 W. 14th St., New York City

**LILIIUM LONGIFLORUM MULTI-
FLORUM**—Cold storage. per per
9 to 10 inch bulbs, 200 .100 1000
in case 11.00 100.00

LILIIUM SPECIOSUM RUBRUM—
Cold storage.
8 to 9-inch bulbs, 200 in
case 8.00 75.00
9 to 11-inch bulbs, 150
in case 12.50 110.00

LILIIUM SPECIOSUM ALBUM—
Cold storage.
8 to 9-inch bulbs, 200 in
case 9.00 80.00
9 to 11-inch bulbs, 140
in case 16.00 150.00

LILIIUM SPECIOSUM MELPOMENE
—Cold storage.
8 to 9-inch bulbs, 200 in
case 9.00 80.00
9 to 11-inch bulbs, 150
in case 12.00 115.00

LILIIUM AURATUM—Cold storage.
8 to 9-inch bulbs, 160 in
case 5.50 50.00
9 to 11-inch bulbs, 120
in case 9.00 80.00
11 to 13 inch bulbs, 75
in case 16.00 150.00
Full cases sold at 1000 rate.

GLADIOLI

Beautifully Illustrated catalog, colored plate, etc., describing GROFF'S
HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and
COLLECTIONS to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM
BERLIN, N. Y.

ESTABLISHED 1900

POAT BROS.

BULB GROWERS

ETTRICKS, VA.

NARCISSI DAFFODILS
TULIPS IRIS, ETC.

Send For Catalogue.

All Bulb Growers

should not fail to send for our
"Special Bulb Offer"

It will be sure to in-
terest you. Address
HUBERT BULB CO.
R. F. D. No. 2 PORTSMOUTH, VA.

PALM SEED
Sabal Palmetto, the hardiest of all tall
growing palms, 30c. per 100 or \$2.50 per
1000. The same from 2 in. pots, four
leaves \$3.00 per 100. **Latania Borbonica**,
4 in. pots \$3.00 per 100, showing charac-
ter leaves; 3 in. \$5.00 per 100; 2 1/2 in. pots,
\$3.00 per 100; **Chamaerops Excelsa**, 2 1/2 in.
pots, \$3.00 per 100; 3 in. pots, \$5.00 per 100,
showing character leaves.
E. M. WICHERS & COMPANY, Gretna, La.

East Bridgewater Dahlia Gardens

Not only has the largest, but the finest
collection of up-to-date **DAHLIAS**,
of any firm in America. Send for free
catalog, to the
Eastern Dahlia King, J. K. Alexander,
E. Bridgewater, Mass.

TURNIP SEEDS

Write to us for prices by the
100 or 1000 pounds or more.
Now is the time to order.

D. Landreth Seed Company
BRISTOL, PENNSYLVANIA

TOMATO



**COLORED
VEGETARI
SEED
BAGS**

Send for Cat.
and Prices.

**Herndon, Lester
& Ivey Co.,**
Richmond, Virginia.

DAHLIAS. Field grown leading kind named for cut flowers, whole roots, \$3.50 per 100.
Mixed. \$3.00 per 100.
CANNAS. 40 leading kinds, named, \$1.50, \$2.00 and \$3.00 per 100.
PETUNIAS. Giant single and double fringed, 50 vine, phlox, Gersoloms, Pelargoot-
nne, Aceratums, Sweet Alyseums, Gem. Maran-
dias, etc. 2 1/2 in. \$2.00 per 100. Cash please.
SHELLROAD GREENHOUSES, Grange, BALTIMORE, MD.

DAHLIAS

Now is the time to place your order for
Bulbs which will insure you getting named
varieties in any quantity; delivery to be
made this fall or early spring.
DAVID HERBERT & SON,
Successors to L. K. PEACOCK, Inc.
ATCO N. J.

DAHLIAS

2 inch pots, 30 or 40 varieties, at
\$25.00 per 1000. Not less than five of
a kind at thousand rates.
ELIZABETH NURSERY CO., Elizabeth, N. J.

C. C. Morse & Co.
SEED GROWERS, San Francisco, Cal.
Address all communications to our permanent
address, 48 to 56 Jackson Street.
**ONION, LETTUCE AND SWEET PEAS AND
ALL OTHER CALIFORNIA SPECIALTIES**
Warehouses, Santa Clara. Farms and
Farm Headquarters, Carnadero, near Gilroy.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
Henry W. Wood, Richmond, Va.,
president; C. S. Burge, Toledo, O., first
vice-president; G. B. McVay, Birming-
ham, Ala., second vice-president; C. E.
Kendal, Cleveland, O., secretary and
treasurer; J. H. Ford, Ravenna, O., as-
sistant secretary.

CINCINNATI, O.—J. Charles McCul-
lough, seedsman, will leave shortly for a
trip to Europe.

DES MOINES, IA.—The noted farm
seed specialist, T. R. Garton of England
has been spending several days in Des
Moines during the past week.

FRANKFORT, KY.—The Orchard
Grass Seed Commission Company, of
Jefferson county, has been incorporated
with \$2,000 capital stock. The incor-
porators are: W. J. Johnson and N. A.
Hardin, of Harrods Creek, and C. R.
Stoll and J. C. Pierce of Goshen.

NEW YORK.—Henry Nungesser,
seedsman, arrived home Wednesday from
a European trip.

M. H. Duryea, chairman of the local
committee on entertainment for the
forthcoming meeting of the American
Seed Trade Association, reports every-
thing progressing favorably, and a large
and successful gathering is fully antici-
pated.

CHICAGO.—Vaughan's Seed Store
was a busy place indeed the few days
preceding Memorial Day and an increase
of 50 per cent. over last year is re-
ported for the branches of the business
affected by this occasion.

Kauf Gundestrup, accompanied by
Mrs. Gundestrup, left this week for his
former home in Denmark and a tour of
the principal seed producing centers of
Europe.

The circular sent out by the American
Seed Trade Association announcing the
proposed increase in annual assessments
from \$5 to \$10 has not been very gra-
ciously received by some members here,
and unless a satisfactory reason show-
ing that the change is necessary is given
the proposed amendment to Article III
will be strongly opposed.

Winterson's Seed Store has received
another carload of box trees, the success
they have had in disposing of this spe-
cialty this Spring having proved very
satisfactory.

Vaughan's Seed Store has commenced
moving stock into its new building at
the corner of Halstead and Randolph
streets on the west side. There are
three stores on the street floor, the center
one of which will be occupied by the
concern as will all the rest of the
building including the basement and four
upper stories each, 65x80 feet. The
building is a handsome up-to-date struc-
ture.

Millet and other late grasses have
been in heavy demand and have increased
considerably in price. Owing to the
lateness of the season and the apparent
light crops there is much planting of
late varieties.

There seems to be a general inclina-
tion among those intending to attend
the meeting of the Seed Trade Associa-
tion in New York, June 25-27 to
travel over the Lake Shore route, and
that road has issued a circular stating
what can be secured in the way of ac-
commodations and rates of which the
following is an excerpt:
An extra sleeping car will be pro-

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

vided for the exclusive use of the party, provided eighteen or more leave Chicago on the New England Express at 1:45 p. m. Sunday preceding, arriving in New York the following afternoon Monday at 6:00 p. m.

No special rates are available for this occasion the regular rate being \$20 in each direction, except by joining together in a party of ten or more people to travel together on a solid ticket which would entitle the tourists to a rate of \$18.25 each way.

If any of the party wish to return via Jamestown a round trip ticket to Chicago may be procured for \$32.05 limited to sixty days from date of sale and good for stop-over of ten days at New York, Philadelphia, Baltimore, and Washington, good to return either via C. & O., in connection with Big Four, Pennsylvania or B. & O.

In addition to any of the above rates there will be an excess charge of \$1 which is the regular excess rate on the above train. Parties intending to join the Chicago contingent should at once notify Charles Hollenbach, 12 N. Halstead street, or Leonard Vaughan, 84 Randolph street, Chicago, Ill.

W. K. W.

BOSTON, MASS.—S. Groot of Sluis & Groot, seed growers, Enkhuizen, Holland, was a visitor this week.

J. W. D.

ONION SET GROWING IN CALIFORNIA.—Reference was made previously in these columns to the California Seed Growers Company, but without a personal knowledge on the part of the writer, who visited the farm May 18 last and learned a few things about onion set growing that may be of interest to readers of The Florists' Exchange. The location of the farm is 35 miles southeast of Los Angeles on what is known as peat lands, where the water is so near the surface that the soil may be made to quiver by the violent shaking of a heavy man standing on some portions of it. The company finished sowing on the date above named 3,400 pounds of onion seed, and began to harvest the crop of February sown seed, the plot containing about ten acres. The sets are pulled and placed in trays, 18x36 inches, and hauled to the drying ground, where our bright California sunlight completes the curing. This crop will be put on the market by July 1, thirty tons going to Dallas, Tex. The ground will be broken up and planted to a crop of bush beans for seed.

The seed used by this firm is nearly all imported, Italy and the Canary Islands furnishing the largest part. That which comes from the Islands is packed in zinc-lined boxes, hermetically sealed. The firm calculates to sow 100 pounds of seed to the acre, but the quantity put in spread out over 40 acres of ground, in rows eight inches apart. Ir-

rigation and fertilizers are not used to produce these crops, but the price of labor, which is 30 to 40 per cent. higher here than in the onion set growing districts of the East, makes the cost of production so much greater that this firm cannot compete with Eastern growers on late onion sets. Then, too, freight rates to South Atlantic States, where the bulk of the crop goes from this State, are also a factor against these people. The early maturity of the crop is the advantage that this firm has over all competitors.

The stock is shipped in crates that hold 50 pounds net. These crates they make themselves, of octagonal shape, which permits ventilation between them while in transit, no matter how they may be packed in the car. The firm has secured a patent on a ventilated crate. The ventilator runs through the center, and is made of either yucca fiber, a native product that needs no perforation, or perforated tin or pasteboard tubes of two inches diameter. Fresh fruit shippers of the northern part of the State are testing the merits of this device. The concern also has a patented cleaning table, or to be exact, hoppers with chutes leading to the operator, who picks out any foreign substances that may have previously escaped the fans and screens. The difference in the cost of cleaning is as 1 is to 4.

The estimated yield at present for the season is 200 tons, some of which goes to the pickle factory. The one great difficulty in carrying on these extensive agricultural operations on this coast is the scarcity of help. Japanese field hands are about the only ones to be had. White men do not, as a rule, take to this kind of labor, and when they do they usually proceed to get drunk Saturday evening and remain so until the next day, and when Monday comes they are physically unfit for service. When the foreign born labor agitator will provide reliable help for the farmers, fruit growers, and gardeners of the Pacific Coast, then and not till then will this class of employers agree to the exclusion of the Jap and the Chinaman.

P. D. BARNHART.

SAN FRANCISCO, CAL.—C. C. Morse & Company have leased the six story and basement, "Class B" building at 48-56 Jackson street, running through to 13-22 Clark street. They will move their offices and all of their bulk department and general packing headquarters to this building.

They will continue to operate the retail store of the Cox Seed Company at 125-127 Market street, and are having same fitted up in a very attractive manner, and a sign now appears on the front of the building, "C. C. Morse & Co., successors to Cox Seed Company." They will carry on all of the departments formerly operated by the Cox Seed Company and E. J. Bowen, but their growing department will be operated as an entirely distinct business, with T. M. Landrum and Lester L. Morse actively in charge.

European Notes.

Anything more wretched and exasperating than the weather in Northern Europe during the Whitsuntide holidays it is not possible to imagine. Hail storms and from 5 to 9 degrees of frost were sandwiched between heavy rains and a few minutes of tearful sunshine.

The early potatoes are cut down to the ground, many plantations of extra early peas, almost ready for picking, are practically destroyed, and the young flowering shoots on all our Brassicas, turnips and rutabagas, look very sickly. The full extent of the injury to these as well as the beet plants will not be known for several weeks; in the meantime, holders of good stocks of beet and rutabagas should not sacrifice them. As regards the latter the canker is spreading rapidly and the growers are powerless to check or eradicate it.

Field turnips of the Grey Stone and Aberdeen types are very short acreage and as the demand for immediate use at high prices is extra good it is not likely that any will be carried over.

It should be noted that this cold spell is the more disastrous on account of the rapid growth of vegetation under the spell of the heat wave reported two weeks ago.

EUROPEAN SEEDS.



BARGAIN TO CLEAR

TUBEROUS ROOTED BEGONIAS
Fine large bulbs. Single Orange, White, Red, Yellow and Mixed. Price, per 100, \$1.50, per 1000, \$14.00.

CYCAS REVOLUTA STEMS
Very profitable. Pot now for early winter. Assorted cases, 1 to 5 lbs., and 5 to 10 lbs. Price, 10 lbs. \$1.00, 25 lbs. \$2.00, 100 lbs. \$7.25, per case (300 lbs.) \$21.00.

ASPARAGUS PLUMOSUS NANUS SEED
True greenhouse grown, of good tested germination. Price, 50c. per 100, \$3.00 per 1000.

GIANT PRIMULA SEED. Finest Mixed, 1/2 trade pkt. 50c., trade pkt. \$1.60. **Kermasina Splendens**, grand crimson, 250 seeds 50c. 1000 seeds \$1.75. **Alba Magnifica**, snow white, 250 seeds 50c. 1000 seeds \$1.70. **Peach Blossom**, 250 seeds 50c., 1000 seeds \$1.70.

PRIMULA OBCONICA. Grandiflora, mixed, trade pkt. 30c. Grandiflora, Rosea, trade pkt. 40c. Grandiflora, Pure White, trade pkt. 40c.

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

HERBACEOUS PERENNIALS

We offer a fine stock of perennials as follows

	Per doz.	Per 100		Per doz.	Per 100
Achillea , the Pearl.....	\$0.70	\$6.00	Helleborus , Multiflorus Maximus.....	\$0.75	\$6.00
Agrostemma , Coronaria.....	.75	6.00	Helopsis , Scaber Major.....	1.00	8.00
Aquilegia , Cœrulea.....	.75	6.00	Hibiscus , Moscheutos, Crimson Eye.....	.75	6.00
Artemisia , Abrotanum.....			Papaver Orientale , 4 inch pots.....	7.00	6.00
Purshiana , Stelleria.....	.75	6.00	Liatris , Pycnostachya.....	.90	7.00
Arabis , Alpina.....	.75	5.00	Mentha , Piperita.....	.50	4.00
Boltonia , Asteroides.....	.75	6.00	Myosotis , Palustris Semperflorosa.....	.60	4.00
Campanula , Grossecki, Punctata.....			Hypericum , Moserianum, 2 1/2 in. pots.....	4.00	4.00
Ranunculus.....	.75	6.00	Physostegia , Virginia.....	.75	6.00
Corydalis , Mastacanthus.....	.75	6.00	Rudbeckia , Golden Glow Newmann.....	.75	6.00
Coronopsis , Rosea.....	.75	6.00	Salvia , Azurca Grandiflora.....	.90	7.00
Digitalis , Gloxiniflora.....			Sedum , Acre.....	.75	6.00
White, Purple Rose.....	.75	6.00	Tritoma , Pfitzeri.....	1.00	8.00
Eupatorium , Ageratoides, Coelestinum.....	.75	6.00			

Chrysanthemum Stock, 2 1/4 in. Pots

PINK		Per 100	WHITE		Per 100
A. J. Balfour.....		\$2.50	Ivory.....		\$2.25
Dr. Enguehard.....		2.50	Mad. Bergmann.....		2.25
Glory of the Pacific.....		2.25	Alice Byron.....		2.25
Maud Dean.....		2.50	Mrs. H. Robinson.....		2.50
Mrs. Coombs.....		2.50	Polly Rose.....		2.25
Pink Ivory.....		2.25	Timothy Eaton.....		2.50
			White Dean.....		3.50
YELLOW			CRIMSON		
Col. D. Appleton.....		2.50	Black Hawk.....		2.25
Oct. Sunshine.....		2.50	John Shrimpton.....		2.25
Monrovia.....		4.00			
Gold Mine.....		4.00			
Yel. Eaton.....		3.50			
Major Bonnafon.....		2.25			

We do not care to send plants C. O. D., except to persons of approved credit, unless remittance accompanies order sufficient to cover express charges.

EDW. J. TAYLOR, SOUTHPORT, CONN.

CANNAS

Two great Gold Medal Cannas. **KING HUMBERT**, \$1.50 per doz.; \$10.00 per 100, and **MRS. WM. KASTING**, \$8.00 per 100. **EGAN-DALE** and **BRANDYWINE**, \$6.00 per 100. All the above, A No. 1 stock, pot bound, and out of 3 1/2 in. pots. **CRIMSON BEDDER**, a superb, handsome bedder, started plants, \$2.00 per 100. Cash.

A. CORLIN, Elberon, N. J.

SWEET POTATO PLANTS

NOW READY
Yellow Jersey, Red Jersey and Big Stems, \$1.25 per 1000; 35c. per 100.
H. AUSTIN, FELTON, DEL.

CAMPBELL VIOLETS

Healthy, sand-rooted cuttings now ready, \$1.00 per 100, by mail; 500 for \$4.00; 1000 for \$7.00, by express.
A large stock of California and Campbell field-grown, ready in August. Price on application.
CHARLES BLACK, Hightstown, N. J.

GOVERNOR HERRICK

The new single violet; fine, strong, healthy plants, from 2-in. pots, price, \$4.00 per 100; \$35.00 per 1000.
Henry A. Melsch & Son, P. O. Box 44, Noquet, N. Y.

LARGE TREES
OAKS AND MAPLES
PINES AND HEMLOCKS
ANDORRA NURSERIES
WM. WARNER HARPER, PROPRIETOR
Chestnut Hill, Philadelphia, Pa.

POINSETTIAS

2 1/2 in. pots, \$5.00 per 100; \$40.00 per 1000. 5 per cent. discount on all orders received before July 1st accompanied by cash. July and August delivery.

S. N. PENTECOST,
1790-1810 EAST 101st ST., CLEVELAND, OHIO

CANNAS

Strong plants from pots, 20 leading varieties, \$5.00 per 100.
ESTATE OF DAVID FISHER, Woburn, Mass.

CATALOGUES RECEIVED.

HUBERT BULB COMPANY, Portsmouth, Va.—List of American-grown Bulbs—Narcissus, Daffodils, Gladioli, etc.

SEARL & SONS, Sydney, Australia.—Illustrated Catalogue of Seeds, Bulbs, Plants, Trees, etc. An interesting and comprehensive catalogue.

H. H. BERGER & COMPANY, 70 Warren Street, New York.—Trade Price List of Bulbs for Fall Planting; also Miscellaneous Bulbs and Roots, Flower Seeds, etc. Illustrated.

SPECIAL OFFER

GLADIOLUS

Extra selected mixed bulbs of all the finest varieties. 75c. per 100, per 1000, \$6.50.

TUBEROSES

Second size. Good sized bulbs. 50c. per 100, per 1000, \$4.00.

FRENCH CANNAS

Mixed colors dormant roots. \$1.50 per 100, per 1000, \$13.50.

Caladium Esculentum

(Elephant Ears).

	Per 100	Per 1000
5 to 7 in.....	\$2.00	\$18.00
9 to 11 in.....	5.00	45.00
11 to 13 in. mammoth.....	9.00	80.00

Send for our Wholesale Catalogue.

HENRY F. MICHELL CO.
1018 MARKET ST., PHILA.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
Orlando Harrison, Berlin, Md., president; J. W. Hill, Dea Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

THE AMERICAN ASSOCIATION OF NURSERYMEN meets at Detroit, Mich., next week, June 12-14, 1907, inclusive, at Hotel Cadillac.

CAYUGA, N. Y.—H. S. Wiley & Son have been awarded the \$100 cash prize offered by Brown Brothers, Rochester, N. Y., for the best grown 100 plants of the Baby Rambler rose.

DERRY, N. H.—The manufacturing (of tree labels) business established in 1867 by Benjamin Chase will be conducted in the future by the Benjamin Chase Company. The personnel of the concern remains as before. Benjamin Chase is president and John C. Chase, treasurer.

DELAWAN, Wis.—On May 27, Adelbert P. Wilkins, president and manager of the Phoenix Nursery Company, was killed while pulling stumps. He was sixty-one years of age. The lever of a stump puller flew back and broke his skull.

DISEASED BOXWOOD: TIME TO SHEAR HEMLOCK AND OTHER SPRUCE.—I send you some sprigs of boxwood which are diseased. Will you please advise me what it is? Also, what is the best time to shear hemlock and other spruce trees.

Virginia. H. N.
—Boxwood often has the injured foliage your sprig represents after Winter is over. It usually disappears when new growth is made, and this we think will happen with yours. The foliage of your sprig has the appearance of being hurt by red spider, but it is too early in the season for this pest.

If you wish to shear hemlock and other spruce trees to make them bushy, do it now while growth is being made; there is no better time, as a half dozen shoots then take the place of one. If the shearing is but to bring the plants into shape, do it when the growth for the season is over, say, in August or September.

J. M.

Seasonable Topics.

Since it is impossible to obtain boxwood for manufacturing purposes in Europe, owing to the scarcity of the trees, the wood of the orange, to be obtained from Southern Europe and from this country, has been suggested as a substitute. Engravers and mathematical instrument makers have used the box heretofore.

The Kentucky coffee tree, *Gymnocladus canadensis*, makes so few twigs that it leads many to think it affords but little shade. This is a mistake. Its compound leaves are of great size, and when in full leafage it is one of the best of shade trees.

Buds of plums have been found to take well if set just as the sap in the stocks has almost ceased running, better than when set earlier.

The beautiful Japanese snowball, now to be found in all collections, was introduced to this country by the late Alfred Cope, of Philadelphia, records tell us.

Yellow berries of the common and of the deciduous holly have been found in a wild state. These plants would seem to be well worthy of propagation, which could be effected either by budding or grafting.

Large-Fruited Chestnuts.

The demand for something superior to others is the reason why nurserymen find such a call for large-fruited chestnuts as well as large-sized fruit of all kinds. All who are familiar with chestnuts know that the flavor of the large-fruited ones is not nearly the equal of that of the native sort. The large-fruited chestnuts are the Italian and its improved sorts and the Japanese and its varieties. Not one of all these is the equal of the native in flavor; yet when it is a matter of business, the large-fruited sorts have paid the better.

Both in the foreign and the native sorts there have been selected some bearing extra large nuts, and these have been propagated and sold to those who have set them out in orchard style as a business enterprise. Propagation is by grafting, the work being performed in early Spring, when the sap begins to flow. Grafting of all trees tends to make them fruit earlier than seedlings do, and the chestnut is no exception. Such trees of it are counted on to produce paying crops in ten years from the grafting, and there is some profit from them even before this, as they come into bearing gradually.

It may surprise some to know that within the past few years bushels on bushels of the native chestnuts have been sown by various parties looking toward a supply both of nuts and timber in future years. Every year sees more large trees chopped out, while the de-

Liriodendron Tulipifera.

Among the many beautiful trees of our country, the *Liriodendron tulipifera* is rarely surpassed in elegance of form, in size, beauty of foliage or showiness of flowers by any other tree of our forests. It is found everywhere from Canada to Louisiana, and everywhere is valued for its commercial uses as well as for its qualities already named.

There are records of trees of it of immense size. We ourselves have seen specimens of it along the banks of the Delaware River, in Delaware, 25 feet in circumference at 3 feet from the ground, and no doubt this is not uncommon, as in many woods near Philadelphia trees that will caliber 4 feet are not unusual.

The tulip tree, as this tree is called, is noted for its great height and its arrow-like trunk. In low ground, which situation it particularly desires, trees of it are to be found from 60 to 100 feet high, with straight tapering trunks.

The specimen we had photographed for the purpose of our notes shows the appearance a young tree assumes when it stands alone with ample room to grow. And what a noble appearance it makes! The leaves are handsome; so are the flowers, a photograph of which we also present. As will be seen, the name tulip tree is well bestowed, the flowers much resembling those of tulips. In color the blossoms are greenish yellow, orange within, well set in the pretty leaves. When trees are branched near the ground, as is the one of our illustration, it brings the flowers within the range of one's handling and admiring them, but when the trees are tall it is not possible to see the flowers but from a height above.

Because of so many trees on lawns and in forests being so tall many persons familiar with the trees in other respects have never seen a flower of them, which tempted us to add a photograph of a small blossoming shoot, and it illustrates as well how profusely the trees bloom. Following the flowers are the seeds, which are clustered in a sharp pointed cone, brown when ripe. A peculiar feature connected with the seeds is that but few are ever good. There may be a dozen or more in each cone, and if the half of these are sound it is thought to be very good seed.

In a commercial way the wood has much value, being fine-grained and taking on a good polish. Next to pine, cedar and cypress it is the best substitute for joists of buildings; and in the South the boards are, often used for both the exterior and interior of houses, and even for shingles. Coach, chair and trunk makers also use the wood, owing to its lightness, strength and durability.

Landscape gardeners find great use for this tree, owing to its beauty at all stages of its growth. Much disappointment has been experienced in the past by those not aware that in the Northern States the tulip tree cannot be transplanted in the Autumn. It belongs to the same natural order as magnolias, and, like them, if transplanted in Autumn it is labor lost; the trees will not live. In the South, where cold weather does not prevail, it is different; but North, the planting must be done in Spring, and be accompanied with a hard pruning in of the branches.

Popular Apples.

Nearly thirty years ago in answer to inquiries made of fruit growers in various parts of the State the Pennsylvania State Board of Agriculture published the following list of preferred apples, as shown by the answers received: Best three Summer varieties—Early Harvest, Red Astrachan, Sweet Bough; best three Fall—Maiden's Blush, Smoke House, Rambo; best three Winter—Baldwin, Greening, Spy. The consideration was for sorts for home use.

It will strike every one familiar with fruits that the sorts named would be well represented in a list prepared at the present day of apples for home use; indeed the varieties are still to be found in the collections of retail nurserymen, in connection with the later known sorts of merit. It is the case with other fruits as well, that a well tested popular sort is hard to supersede; and nurserymen are always safe in listing such sorts for their customers.

JOSEPH MEEHAN.



Liriodendron Tulipifera, Tulip Tree

mand for both the timber and the nuts is on the increase.

It is evident that no firm will go wrong in preparing for a good demand of all the species and varieties of chestnut.



Flowering Shoot of Tulip Tree

10,000 American Arbor vitae,

(THUYA OCCIDENTALIS.)

Each tree grown wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arbor vitae will. They have been frequently transplanted and are supplied with an abundance of fine fibrous roots. Can be dug and shipped with ball if desired.

3-4 ft. Size..... Per 10. \$6.00 Per 100. \$50.00
4-5 ft. Size..... Per 10. 7.50 Per 100. 60.00

Prices for dealers only Packing additional at cost. 25 or more at the rate per 100
Send to us for Ornamental Nursery Stock of all Kinds.

The WM. H. MOON CO., Morrisville, Pa.

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HIRAM T. JONES, Union County Nurseries Elizabeth, N. J.

Herbaceous Border Notes.

The hardy border this season is now beginning to become interesting, for the many different hardy plants are, owing to the lateness of the season, just coming into bloom. During the past few weeks, of course, there has been a wealth of the many varieties of hyacinths, narcissi, and tulips, and at this late date there are many showy spots embellished with blooms of late flowering sorts of the latter, together with the muscarias, scillas, etc.

There are a few of the finer early flowering border plants just gone past such as the epimediums, of which there are a goodly variety; and although their pretty little blossoms are gone for this season they still continue to have attractive foliage. Saxifraga cordifolia is one of the best early flowering plants just out of bloom.

Many of the aquilegias in hybrid varieties are just coming into flower and will prove an attraction for some time. Aquilegia glandulosa is one of the best, with its beautiful blue and white flowers.

The globe flowers are now in their full glory. Trollius europeus, the common lemon colored variety, and T. asiaticus, are both good, but by far the most attractive sort is T. japonicus var. excelsior. The last named has bright orange-colored flowers and is one of the most showy plants of the season.

Doronicum caucasicum is a bright yellow daisy-shaped flower which has been quite showy of late; and the different varieties of Centaurea montana are just at their best, with their many different colors.

Dicentra spectabilis is an old-fashioned plant which should be in every garden and although the variety eximia is not so attractive still it is worthy of a place in the border.

Linum perenne is just opening its bright blue flowers as are the polemoniums, as well as several varieties of the veronicas. Of the latter gentianoides has light blue flowers and grows about a foot high; and the varieties paniculata and teurium, each about eight inches high, have deeper blue flowers and are more attractive.

The amsonias are just becoming attractive, and while their colors are not gaudy, they have something about them that will always commend them to the lover of the hardy border.

Few of the peonies are yet in bloom although some of the earlier species are fully opened. Of these we might mention tenuifolia, Bakeria, anomala, officinalis and asiatica var. excelsior, the latter one of the best.

The many species of iris have scarcely begun to become showy; it will be a week or ten days yet before the German and other large forms will be in bloom. Iris cristata is one of the early dwarf sorts just past, missouriensis is a pretty variety, about a foot high, and obliensis is a very pretty dark colored species.

Primula cashmeriana is not always regarded hardy, but it seems to be perfectly so in some locations as well as P. japonica, which is likewise a good border plant if given a semi-shady sheltered location.

Many of the small growing or alpine plants are now at their best. Of these we have such plants as Iberis sempervirens and tenuifolia and Alyssum saxa-

Trees and Shrubs

Immense quantities, low prices. Price list on application. Peonies a specialty.

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10,000 Berberis Thunbergii, 15 to 24 in., \$50.00 per 1000.

15,000 Berberis Thunbergii, 18 to 18 in., \$40.00 per 1000.

All are 2 year old transplanted, fine, bushy stock. 2,000 Myrtle, nice plants, \$45.00 per 1000. 8,000 choice Dahlia roots for sale, cheap.

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R. C., 75c.; 2 in., \$2.00.

REX BEGONIA, 2 in., \$3.00; 4 in., \$8.00. ASPARAGUS SPRENGERII, 2 in., \$2.00 per 100. ARAUCARIAS, 60c. and 75c. each. CANNAS, Austria, \$1.50; America, \$1.50; D. Harum, \$2.00; Pennsylvania, \$1.50; E. Gray, \$3.00; Marbleborough, \$2.00; Italia, \$1.50; A. Bouvier, \$2.00; C. Henderson, \$2.00; Egandale, \$3.00 per 100.

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Strong plants, 3 in. pots, 3 1/2 c.
FOX GLOVE, mixed colors, 3 in., 3 1/2 c.
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LAVENDER, True Lavandula Vera, 2 in. pots, one year old, 6c.
TARRAGON, 3 in. pots, 5c.
HOLLYHOCKS, mixed colors, 4c.

FERNS

Fine stock, 3 in. pots of PTERIS cretica, Alba, Adiantoides, POLYPODIUM AUREUM, Holly Fern, etc. 5 1/2 c.

R. G. HANFORD, Norwalk, Conn.

tile, with its bright yellow blossoms. The globularias are attractive blue flowered little plants; and then there are the many species of viola, the most attractive at present being cornuta and cornuta papilio, lutea and its more attractive variety Golden Gem. Stellarias, Phlox subulata and many such plants are still an attraction.

J. W. DUNCAN.

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This method will positively destroy Thrip, Green Fly, White Fly, Black Fly and Red Spider, using 3 to 4 teaspoonsful of To-Bak-Ine Liquid to a gallon of water and applying with a strong force pump fitted with a misting nozzle.

To-Bak-Ine Liquid applied by this method will mean clean stock and will positively not injure, spot or discolor either the foliage, blooms or plants, in fact it can be sprayed when the crop is in full bloom.

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Also in 10-20-40 gallon casks. Write for prices and further information and directions about spraying.

W. W. RAWSON & CO. 5 UNION ST., BOSTON, MASS.

Chrysanthemum Society of America.

The schedule is now ready and the following prizes are offered, to be competed for at our next show, which will be held in New York City, November 6 to 8. The C. S. A. prize, silver cup, for best 10 blooms in the show any color. F. R. Pierson, Tarrytown, N. Y., offers a silver cup for 10 blooms white, 10 blooms yellow and 10 blooms pink. A silver cup is offered for 10 blooms of Miss Clay Frick on 24-inch stems. Vaughan's Seed Store offers a silver cup for best specimen bush plant, open to private gardeners only. W. W. Wells, England, offers gold, silver and bronze medals for 6 blooms of Miriam Hankey, on 24-inch stems. Nathan Smith & Son, Adrian, Mich.; offer a prize of \$25 for the best seedling or sport of American origin, commercial scale.

York, offer a prize of \$10 for 12 blooms, 4 varieties on 24-inch stems, open to private gardeners only. Henry A. Dreer, Philadelphia, Pa., offers a prize of \$15 for 24 blooms, 6 varieties on 24-inch stems. The B. G. Hill Company, Richmond, Ind., offer a prize of \$15.00 for 12 blooms President Loubet, and \$10 for 10 blooms of Mme. Armand Detroyat. Stump & Walter Company, New York, offer a prize of \$10 for best 3 blooms of Morton F. Plant. Peter Henderson & Company, New York, offer a prize of \$25 as follows. To the private gardener winning the greatest number of points at the exhibition to be determined as follows: A first prize to count 10 points, a second prize to count 5 points, and a third prize to count 3 points. DAVID FRASER, Secretary.

Chas. H. Totty, Madison, N. J., offers prizes of \$15 and \$10 for best 15 blooms 10 varieties on 24-inch stems, introductions of 1907. A. T. Boddington, New York, offers prizes of \$10 and \$5 for best 10 blooms of Beatrice May, on 24-inch stems. A. J. Loveless offers prizes as follows, for the largest bloom in the show, white, pink and yellow, \$8 each. J. M. Thorburn & Company, New

LOVELAND, COLO.—The Colorado Nursery Company have sold the nursery to Monte Kilburn, Dr. Cramer and H. A. Gooch, who expect to incorporate under the name of the Colorado Nursery Company possession to be given as soon as possible. The former owners, Shields & Noble, have been successful in making this nursery one of the most valuable in the State. Mr. Shields has been in the business here twenty-six years and is a thorough horticulturist.

ROSE PLANTS

From 2 1/2 inch Pots. Ready for Shipment.

Richmond.....	\$2.50 per hundred	Liberty.....	\$4.00 per hundred
Bridesmaid.....		Perle.....	\$35.00 per thousand
Uncle John.....			
Chatenay.....	\$22.50 per thousand	Sunrise.....	\$5.00 per hundred
Brides.....			\$40.00 per thousand
Ivory.....			

Killarney 2 inch pots Grafted Stock. \$12.50 per Hundred
 American Beauties, 2 1/2 in. \$6.00 per 100; \$50.00 per 1000.
 Bridesmaid, Bride, Ivory, Perle, Chatenay, Richmond, 3 1/2 in., \$5.00 per 100; \$40.00 per 1000.
 Sunrise, 3 1/2 in., \$6.00 per 100; \$50.00 per 1000.

BENCH PLANTS

One year old plants

American Beauty, \$10.00 per 100; \$75.00 per 1000
 Bridesmaid, Bride, Chatenay, Uncle John, Ivory, Sunrise, and Perle, \$5.00 per 100; \$40.00 per 1000

Peter Reinberg, No. 51 Wabash Avenue, Chicago

FOR SALE

- 4400 RICHMOND PLANTS, out of 3 1/2 inch pots.
- 1500 KILLARNEY PLANTS, out of 3 1/2 inch pots.
- 2000 MRS. J. P. MORGAN PLANTS, out of 2 1/4 inch pots

These are fine plants. Propagated for our own use. Sold because of change in planting plans. Prices: 3 1/2 in. size, 8c. each, 2 1/4 in. size, 5c. each. Cash with order please.

BENJAMIN DORRANCE, Rose Grower, No. 3 Dorrance Farm, Dorranceton, Penna.

GRAFTED ROSES

On English Manetti Stock

3 in. pots; A No. 1 plants.

Chatenay\$10.00 per 100
Wellesley\$12.00 per 100
Kaiserin\$6.00 per 100
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Own roots, from grafted stock, 3 in. pots.

Monlton\$6.00 per 100
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BABY COCHETS, KAISERIN, Rambler, in "Hermosa, Bessie Brown," Richmond, Carnot bloom, 2 1/2 in. La France, etc., 2 1/2 in. Teston, etc., 3c.

2 1/2 in. pot, ..ROSES.. Coleus, Salvias and Vinas.

See full price list, page 717, May 25.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD-OHIO

ROSES

American Beauty, 2 1/2 in.	.....\$60.00
Bridesmaid and Bride, 3 1/2 in.	.....45.00
Carnation Crusader, 2 1/2 in.	.....27.50
Carnation Boston Market, 2 1/2 in.	.....27.50

Cash or C. O. D. unless known.

BRANT & NOE FLORAL COMPANY, W. Peterson & N. 48th Avs., Chicago, Ill.

LOOK HERE

Grafted rose plants, 2 1/2 and 3 in. pots, \$12.00 per 100; \$100.00 per 1000. Brides, Bridesmaids, Killarney, Richmond.

Brides, Bridesmaids, own roots, 3 in., \$6.00 per 100; \$50.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE BRIDGEPORT, CONN.

ANNY MÜLLER

The Pink Baby Rambler

Similar in habit to the Crimson Baby Rambler, flowers almost as large as Hermosa, soft bright pink in color. Fine for bedding and pots. Established plants from 2 in. pots, \$12.50 per 100; \$100.00 per 1000. CLOTHILDE SOUPEY, from 2 in. pots, \$3.50 per 100; \$30.00 per 1000.

Perennial Gardens Co., Toledo O.

Roses! Roses!

3000 strong BRIDESMAIDS and BRIDES, out of 3 in. pots, \$5.00 per 100. Cash or References.

WERICK BROS. CO. PINE RIDGE, BUFFALO, N. Y.

ROSES

BRIDE, BRIDESMAID, RICHMOND, strong, healthy stock, 3 in., ready to plant, at \$5.00 per 100

GEO. E. CAMPBELL, Flourtown, Pa.

Roses Fine Healthy Stock

6000 Bride and Bridesmaid, grafted, 3 1/2 in., \$12.00 per 100.

20,000 Brides, Bridesmaids, Killarney, Chateau, Gates, Ivory, Richmond, own roots, 3 1/2 in., \$8.00 per 100.

P. R. QUINLAN, Syracuse, N. Y.

ROSES

Strong, Healthy Plants—Cash with order

	2 1/2 in. pots	4 in. pots
	Per 100	Per 100
Beauty	.....\$7.00	\$65.00
Richmond	.....3.50	30.00
Bride	.....3.00	25.00
Bridesmaid	.....3.00	25.00

Per 1000 Per 1000 Per 1000 Per 1000

Beauty\$7.00 \$65.00
 Richmond .. 3.50 .. 30.00 .. \$6.00 .. \$50.00
 Bride 3.00 .. 25.00 .. 5.00 .. 40.00
 Bridesmaid .. 3.00 .. 25.00 .. 6.00 .. 40.00

ALFRED P. SMITH Madison, N. J.

ROSES

COURT DECISION ON ROSE CUTTINGS. —In the United States Circuit Court, Western District of New York, in the recent case of the United States against the American Express Company regarding the classification of rose cuttings, a decision was rendered adverse to the Government by Judge Hazel, who sustained the decision of the Board of General Appraisers, as follows:

"Rose cuttings that have been put in sand in preparation for shipment, but have never in fact been in soil, are not dutiable as 'rose plants' under paragraph 252, tariff act of 1897, but as 'cuttings of * * * shrubs, plants, * * * commonly known as nursery or greenhouse stock,' under the same paragraph."

Judge Hazel says: "The questions submitted arise upon a protest filed with the collector by the importer, who claims that the articles in question are rose cuttings and dutiable at 25 per cent. ad valorem under paragraph 252 of the present tariff act. The importation was returned by the appraiser as rose plants and assessed for duty at 2 1/2 cents each."

"I have read the testimony, together with the opinion of the Board and the former decision of the Board in G. A. 5645 (T. D. 25211), and I think the Board correctly decided upon the evidence presented that the importation consists either of cuttings of shrubs or 'cuttings of * * * plants, * * * commonly known as nursery or greenhouse stock,' and as such is dutiable at 25 per cent. ad valorem. It appears by the evidence of Mr. Carey, witness for the protestant, that the cuttings in question are put in sand in preparation for shipment, but that they have never in fact been in soil. The provisions of paragraph 252 are not absolutely clear, but the omission of Congress to specifically mention cuttings or plants of the hybrid rose persuasively indicates, I think, that a broad interpretation of said paragraph was intended. I concur in the conclusions and reasoning of the Board, whose decision is hereby sustained."

KAISERIN ROSES

2 1/2 in. pots \$3.50 per 100; \$30.00 per 1000.
 3 in. \$6.00 per 100.

Carnations all sold.
E. H. PYE, Upper Nyack, N. Y.

Grafted Brides and Maids

On best English Manetti, 2 1/2 to 3 1/2 in. pots, \$10.00 and \$12.50 per 100.

MONTROSE GREENHOUSES, MONTROSE, MASS

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We have about 5000 fine Boston Market from pots Oash with Order. Satisfaction guaranteed.

SMITH & GANNETT, Geneva, N. Y.

MABELLE

Grand New Pink Carnation for 1907. A few thousand R. C. and pot plants still left. Order quick. This variety is a money maker.

Price of rooted cuttings, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000.

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ENCHANTRESS\$3.50
Harlowarden, Queen, Flamingo,	
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GERMAN IVY, 2 in. pots2.00
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ASPARAGUS SPRENGERII, 3 in.4.00

Cash with order.

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4 to 5 feet high, 4 inch pots, well branched, \$15.00 per 100. Cash.

JOHN RECK & SON BRIDGEPORT, CONN.

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In bud, 20 varieties, large, strong, healthy plants, from soil, \$1.00 per 100; \$3.00 per 1000. None but the best. Satisfaction guaranteed.

BEAUNTON VERNON, fine plants, 2 1/2 in. pots, \$2.00 per 100.

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Dwarf, 2 in., \$1.75 per 100.

ASTERS, transplanted, 4c. per 100; \$3.00 per 1000; strong stock seedlings in all colors, Queen of the Market, Semple's Branching, etc., 30c. per 100; \$3.00 per 1000.

GERANIUMS, strong, 4 in. stock, all colors, all double, 5c. Cash.

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TO CLOSE OUT FOR LATE PLANTING

SALVIA, 2 1/2-3-4 in. pots, \$1.50-\$2.50-\$4.50 per 100.

VINCA, 3-4 in., \$10.00 per 100.

FABOR IVY, 3 in., \$3.00 per 100.

CANNAS, Austria, 3 in., \$2.00 per 100.

PETUNIAS, double and single, 2 1/2 in., \$1.50 per 100.

VERBENAS, 2 1/2 in., \$1.50 per 100.

FLOK DRUMMONDI, 2 1/2 in., \$1.50 per 100.

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THE WEEK'S WORK.

Timme's Timely Teachings.

Asparagus Plumosus.

Preparations for a fresh start in the growing of *Asparagus plumosus* are now in order. Well drained but deeply worked and heavily enriched solid borders, with plenty of clear head space between soil and glass, are to be preferred to ordinary benches, when it is intended to grow this valuable decorative green to strings of good market value. On raised benches, if planted into rich soil and receiving proper attention, *Asparagus plumosus* may be made to produce a continuous cut of fine sprays which also find a ready market at nearly all seasons. A steady temperature during the winter months of from 55 to 60 degrees with a clear light overhead and never lacking moisture in the soil, are prime essentials to success with asparagus. Thoroughly well made beds of it may be had to retain their productiveness for several years by judicious feeding in liquid form and an occasional top dressing or mulch with rich compost, this to be worked into the surface after a time and to be replaced with a fresh layer. Wornout beds should be cleared and re-stocked with thrifty, young plants, the first half of Summer being the best time for this work.

Asparagus Sprengeri.

An even more greedy feeder than *Asparagus plumosus* is *A. Sprengeri*, and the richest kind of soil should be used in its cultivation. It is a most serviceable green and well worth growing with somewhat more in the way of proper attention than what it is compelled to put up with on the majority of smaller places. To obtain the highest priced grade of durable, thickly set and finely colored sprays for a closely distinguishing market, and this for a considerable long season of constant but judicious cutting, it is necessary to take special pains in the preparations for a new start and in the care of the plants afterward. When merely grown for home use by retail florists it will produce fairly well if afforded lots of room in large wire baskets, pots, deep boxes or shelves, regularly fed and kept in flourishing condition. But when grown in quantity for the regular morning shipments to a great market it pays to arrange growing facilities with a view to fully meeting its peculiar requirements. In a narrow bench, affording space for one or at most two rows of plants, these will have the needed room for spread and perfect development of sprays. This bench, or any number of them, should run the entire length of a well lighted properly equipped house, giving assurance of a steady rose house heat during winter. The solid ground or surface line of the house is to form the bottom of the benches—benches only in appearance, in reality a continuous line of solidly constructed boxing—this to hold the heavily enriched compost, in which the plants will find the needed amount of root room. If care is had in the daily cutting of sprays, so as not to bare the plants too closely of life sustaining foliage, and if proper attention is paid to watering, feeding and sprinkling, while the cut is heavy and to partially resting them when seemingly exhausted, such a plantation should prove good for quite a number of years. The wisdom of doing well what is worth doing at all is never better set forth than in the culture of easily grown stock, to which class *Asparagus Sprengeri* undoubtedly belongs.

Smilax.

There seems to be no noticeable falling off in the amount of smilax coming to our markets or any appreciable decrease in the demand for this delicate and extremely useful green, as was predicted some few years ago. In its cultural requirements it differs but little from the various kinds of decorative asparagus, needing probably a somewhat heavier soil and a temperature a few degrees higher than asparagus in the depth of winter. It is best when grown in the soil of a solid border, deeply prepared and liberally enriched with manure from grain fed cattle. Entirely fresh manure should not be used for the purpose, nor such too far gone in decomposition to be of lasting value. It is much easier to grow first grade, deep

green, long lasting smilax in heavy black or yellowish loam, thus highly fertilized and well worked over in its preparation before planting, than in soils of lighter or sandy nature; though it is by no means impossible to raise good smilax in almost any kind of well prepared soil. Nor is it necessary to replant with young stock every year, although by going to this trouble there is less danger of encountering partial or entire failure.

In starting anew we use good 3-inch seedling stock, selecting a house for this culture that can be relied upon to afford 60 degrees in the coldest of winter nights, and water the plants sparingly until active growth leaves no doubt as to the roots having taken to the soil. It is then time to slowly increase the amount of water and to attend without delay to the stringing of the bed—a piece of work only too often put aside in the press of other duties, thereby placing difficulties in the way of swift performance. Smilax beds may be made at any time from now until the middle or end of July.

Snapdragons.

Much attention of late has been given to the indoor culture of snapdragons for their flowers in a cut state. There is no doubt as to the value of the highly finished product on our flower markets, but considerable uncertainty still exists as to the best method of culture. There is probably nothing any easier to grow than snapdragons, but in trying to lift them from their humble position among the most ordinary of garden flowers to a state of importance in commercial floriculture, one is likely to meet difficulties not figured upon.

In the attempt to make snapdragons a profitable indoor crop we must bear in mind that they are not annuals like mignonette, asters or sweet peas, but true biennials, which, although flowering the first year, bring their main and best crop of blooms on a second growth put forth after the first has reached some degree of maturity. This first growth, with its short-stemmed and thinly set flowers, is hardly worth marketing, though lots of it is seen at all seasons and seems to meet with favor for the want of something better. In this respect plants from cuttings act like those raised from seeds. They bloom when yet small, but send up numerous sturdy suckers when reaching the proper stage in their development. It is then time to cut away the first growth, then usually at a standstill and already showing signs of failing vigor. It is now the new growth, rapidly pushing upward and gaining in strength from day to day, that requires the grower's full attention. Soon these shoots will need staking and tying, for they grow so rapidly under glass that a night's leaning over amounts to a bend in the four or five-foot stem, a defect greatly lessening the value of anything in long-stemmed cut material.

In regard to watering, sprinkling, ventilation, light and cleanliness, snapdragons demand as full a share of the good grower's attention as anything else cultivated for a discriminating market, and if this is given there need never be any fear of possible failure in the case of snapdragons, or of being unable to dispose of the output at good prices.

Young plants for next season's flowering, raised in March from cuttings or seeds, should now be ready for 4-inch pots or for the field or the bench, as the case may be. If benched now a crop of good flowers may be expected early in the Fall up until New Year. When planted in the field, housed in late Autumn and held on the cool side during the first part of winter, they will bring an immense crop of high quality in early Spring, provided they are handled carefully in bringing in from the field; for snapdragons resent being lifted, in fact should not be disturbed after the second growth has made its appearance. For this reason it is best for the attainment of fullest success to carry the young stock through the Summer in pots, giving them a shift from time to time and guarding against a too rapid or frequent drying out by mulching until a bench or solid bed can be had in readiness for them or until approaching winter makes their removal to safe quarters necessary. Snapdragons stand a deal of hard freezing, but stock intended for forcing will do better if not nipped too heavily. Any good, fairly well enriched soil will do for snap-

ORCHIDS ORCHIDS

We beg to advise our customers that we have just received the following **ORCHIDS** direct from the forests, and for which we respectfully solicit your orders, assuring you that no pains or expense will be spared in order to please you.

CATTELEYA LABIATA, in extra fine condition, well leaved; if potted now these will produce a crop of flowers late this Fall.

CATTELEYA PEBECIVALIANA. These are the finest plants ever received by us; not a leaf bruised or lost; all have strong, heavy bulbs;

if potted now these will produce a nice crop of flowers in November and December. Any of the above by the dozen or hundred or case lots.

The following good things have also arrived:
LAELIA. (**CATTELEYA**) **CRISPA**, **LAELIA PRAESTANS**, and **LAELIA DAYANA**; **MILTONIAS**, such as **Cubaata**, **Candida** and **Clowesii**. **ONCIDIUMS** **Crispum**, **Marshalliana**, **Luridum** and **Varicosum** **Rogerii**, and many more. Write for prices.

LAGER & HURRELL, Summit, N. J.

Orchids

We have on hand splendid importations of

CATTELEYA GIGAS
CATTELEYA LABIATA

Write for our tempting prices

JULIUS ROEHRS CO.

Orchid Growers and Importers
RUTHERFORD, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.

Sander, St. Albans, England
and
233 Broadway, Room 1, New York City

dragons, and fine results have been obtained by making them a successive crop to late chrysanthemums, using the soil in which these latter were grown.

Marguerites.

A batch of well grown marguerites or Paris daisies is worth having about a retail grower's establishment. There are certain kinds of floral make-up work in which marguerites can be used to good advantage, producing, it would seem, more fully the desired effect than anything else. Provision for an ample supply in this line of easily grown home material should now be made if not already seen to. The cuttings root willingly, needing no bottom heat or any sort of pampering in their caretaking. As soon as rooted they are potted up or, as is the common practice here and there, they are without farther ado planted into the field, where they grow into good sized flowering plants by next Fall. Care is necessary in the transfer from the field to pots, else all gained by field culture is lost in the lifting. For this reason pot culture throughout, with an occasional long shift now and then, is preferred by many growers who usually can show the finest of Paris daisies.

Cinerarias.

Not so much grown or seen nowadays as in times gone by there still seems to be ample evidence of undiminished interest in the culture of hybrid cinerarias among growers of greenhouse plants. This year splendidly grown specimens, though in small numbers, were to be seen at and after Easter, opening the eyes and the purses of plant buyers in a manner most gratifying to behold. Cinerarias, if well done, are capital stock for the Easter trade. To have them just right for that holiday next year, it is necessary to sow the seeds from about now until the end of this month.

FRED. W. TIMME.

We are now taking orders for a grand lot of **CATTELEYA TRIANA**, 400 bulbs to a case, at \$50.00 net cash, per case, which we expect to arrive here some time in June. Will sell cheaper if ordered in quantities. Solicit correspondence. Same established plants of **CATTELEYA GIGAS**, **MENDELII**, **SCHROEDERAE** and **TRIANA**, from \$2.00 to \$5.00 per plant.

JOHN DE BUCK,
Collector of Orchids,
COLLEGE POINT, N. Y.

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Arrived in fine condition, *Cattleya Percivaliana*, *Gigas*, *Sanderianae*, *Speciosissima* and *Oncidium Kramerianum* and others. Write for prices. Telephone, 143 Madison, N. J.

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Variety	Size	Each	Dozen	100
<i>Areca Lutescens</i>	4	\$3.00	
Assorted Ferns for ferneries				\$3.00
Asparagus Plumosus				
"	"	3	.75	
"	"	4	1.50	12.00
"	"	6	3.00	
Asparagus Sprengeri	.....	2		3.00
"	"	3		7.00
<i>Cibotium Schledelii</i>	.....	6	\$1.00	
<i>Cocos</i> , 3 in a pot	.....	4	75c-\$1.00	
<i>Dracaena Fragrans</i>	.....	5		5.00
<i>Dracaena Indivisa</i>	.....	3		5.00
"	"	6		5.00
"	" 30-34 high 7		.75	9.00
"	"	8		12.00
<i>Dracaena Terminalis</i>	.....	3		2.00
"	"	4	.25	3.00
Japanese Fern Balls	.....			4.00
Japanese Pine in Japanese jars	.....			4.00
<i>Latania Borbonica</i>	.....	5		5.00
<i>Nephrolepis Barrowii</i>	.....	2	.75	6.00
<i>Nephrolepis Bostoniensis</i>	.....	2	.50	4.00
"	"	3	1.00	3.00
"	"	4	1.50	12.00
"	" 4 strong		2.00	25.00
"	"	6	4.20	
<i>Nephrolepis Pteris</i>	.....	7	9.00	
"	"	8	12.00	
<i>Nephrolepis Whitmanii</i>	.....	2		10.00
<i>Phoenix Reclinata</i> , 4-in		doz.	3.00
"	6-in		doz.	5.00
<i>Pandanus Uffisii</i> , 5-in		doz.	5.00
"	6-in		doz.	6.00

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Seedsman and the Trade in General

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

Making a Herbarium.

The practice of young gardeners and florists making a herbarium is not so common in these days of specialization as it was in the "good old times," yet than this there is no branch of horticultural education the pursuit of which affords more pleasure or a greater amount of useful instruction. When a young man, the late Peter Henderson carried off the first prize offered by the Royal Botanical Society of Edinburgh, Scotland, for the best herbarium of native and exotic plants, the competition being open to Great Britain, and in after life Mr. Henderson always spoke of the enduring benefit to him, as a practical florist and seedsman, derived from this pleasurable work. So great was his enthusiasm therein, that he offered premiums through the S. A. F. for the best herbaria exhibited at the first Buffalo meeting of that society, the first prize being won by George W. Oliver, now an expert propagator in the Bureau of Plant Industry, Washington, D. C.

It was with considerable interest that we read in the annual report of the Department of Agriculture for 1906, recently distributed (See page 740 of last week's issue of *The Florists' Exchange*), that, for herbarium uses, the Department is making an effort to secure specimens of cultivated plants under the names by which they are offered in the trade by nurserymen, seedsman, and florists. For the purposes of study and identification such collections will be of untold value and benefit, and are greatly needed.

But we should like to see the practice of herbarium making by our young craftsmen revived, and believe if some one were to emulate the example of the late Mr. Henderson in offering prizes for such herbaria through the S. A. F. O. H. (the society might even do this itself), great good would result, and a much more intimate acquaintance with plants, flowers and shrubs thereby be secured than now obtains.

For the benefit of those interested in this class of work, who desire to make a beginning therein, we reproduce, from the *Journal of Horticulture, England*, the following instructive notes on the subject, written by Dr. John H. Wilson, of St. Andrews, Scotland:

"The plants gathered, pressed, and labeled by the young gardener, should be such as he is specially in-

terested in. Perhaps he ought to be interested in every plant in the garden and out of it, but for immediate progress in his profession generally, he is well-advised to make a herbarium of the wild plants of his district. He may commence with the weeds—so-called because they are a trouble in the garden. Such plants are often enough of much interest to the skilled investigator. Whenever opportunity offers in the evenings and on half-holidays, he should set out to explore the country within a radius of as many miles as his shoe leather will permit him to cover. One thing at a time, however. He must guard against bringing in more material than he can comfortably and profitably put into press.

"There are two modes of collecting. The usual one is to put the plants into a box, dignified by the name of vasculum. A good sized one will hold many specimens, if these are carefully chosen. Get them into the box without delay if the weather is hot. If they wilt, it may be necessary to place them in water for a few hours to refresh them before pressing. The other method is to pin the specimens at once between sheets of paper, which are kept fairly tightly squeezed together in a portfolio or between boards by means of straps or string. In the latter method the drying begins immediately after gathering.

"When the specimens are brought home they should be put between sheets of drying paper and sufficient pressure applied to bring the plants and the paper into very close and constant contact. The paper may simply be old newspapers, and the weights the furniture of the room. The writer has had occasion to resort to these in emergency. The secret of success in drying lies in changing the paper often, and applying plenty of pressure. It is almost imperative to change the paper every day for a time, replacing it with sheets that have been rendered as dry as possible. Drive off the last trace of moisture by hanging the sheets before the fire, if necessary. A special paper, like strong blotting-paper, is sold under the name of botanical drying-paper. It is more absorbent than newspapers. Boards and weights can easily be got in the garden. Three or four bricks will do for weights. More may be necessary if the pile of sheets is large. Pressing should be done in an airy or perfectly dry place. If the atmosphere is damp and the specimens are too long in being dried, they will become discolored, and disappointment will be the result.

"In collecting the specimens care should be taken to secure sufficiently good material to display the special characters of the plants. Sometimes the whole plant has to be taken, and it may be necessary to return later for a further specimen in the fruiting stage. Here a word of earnest advice may be given. If the plant is a rare one, and it would be a loss to the neighborhood to remove or damage it, leave it and do what you can to protect it. If a cutting or a few seeds of it can be got, take those home and grow a specimen for yourself in the garden. Realize at the outset how very much less interesting the country is when deprived of its rare and beautiful natives. Your herbarium need contain nothing that tells of vandalism and extermination.

"In preparing for putting the specimens in the press they should be rendered more easily flattened by the removal of certain parts. Further thinning and adjusting can be conveniently done at the first changing of the paper. When the specimens are dry and almost papery to the touch, they may be put away between single sheets of any ordinary paper until a number are accumulated. The mounting can be done at any time. The size of sheet used in most herbaria is 16 1/2 by 10 1/2 in., and the color white. The size admits of a great number of the plants one gathers being mounted entire. Specimens too long for the sheet may be bent to suit its size.

"The specimens can be attached to the paper by various means. If they run no risk of being roughly handled, they can be fastened by strips of gummed paper. A neat method is to pierce the sheet and pass the ends of the strips through the back and gum them there. Metal strips have sometimes been used. Where there is danger of breakage in handling, it is necessary to gum the whole specimen together. A good method is to smear a thin layer of gum on a smooth board, place the specimen by means of forceps on the gum, taking care that none of it reaches the top side of the specimen. Lift the gummed specimen by the forceps, place deftly on the sheet, press down carefully, and with a cloth remove the superfluous gum. Cover with a sheet of paper, and lay the next mount on the top of the first. When a small pile is got, apply a little pressure overnight. On the following day the mounts may be looked over, and the waddy portions fastened by gummed strips. Fish glue applied with a brush is a useful medium in mounting. The specimens should be carefully named, the names being either written on the sheets, or, better, written on labels which can be pasted on the sheets. The place and the date should be added. Before very long, three or four hundred specimens of native plants will be got.

"It is assumed that an effort will be made to acquire the means of finding the names of the specimens at the time of collecting them. It is well to procure a descriptive list of flora of the district, if such exists. In any case, a general flora of the country has to be got. Very great satisfaction is experienced by the beginner when he finds that he can follow the author's descriptions and determine his own specimens thereby. To the young gardener the ability to do this is a very important accomplishment. Indeed, and all who make a serious effort soon get up the necessary botanical terms which at first look a little formidable. A rational way to set about the task is to read the descriptions of plants one is perfectly sure of the name of already.

"Besides wild plants, it is very desirable that recognizable portions of garden plants should also be made specimens of, such as ferns, shrubs, etc., which one would like to keep in mind. Certain plants, such as orchids, succulents, etc., are difficult to dry satisfactorily.

"Nothing is so likely to impress the characters of the plant on the memory as the process necessary to preparing and mounting a specimen of it. Gardeners must come to know a great number of plants by name. It is pleasant to feel that the plants under one's charge are familiar, and can accordingly be studied, read, or written about. Interest depends the more one knows about them."

American Rose Society.

Pursuant to notice the executive committee of the American Rose Society held a meeting at the Hotel Marquette, Thirty-third street and Broadway, New York City, on Tuesday afternoon and evening, May 28, at which there were taken up matters pertaining to the Washington exhibition, Peter Bisset, President of the Washington Florists' Club, being among those present.

The minutes of the business meetings were read and recommendations for action passed at that meeting referred to the executive committee were taken up, viz.:

The recommendation that a certificate of merit be awarded to novelties which did not score the requisite number of points to receive either gold or silver medals of the society as now provided. At the Washington meeting, this subject was discussed with interest by Messrs. Craig, Elliott, Barry, Farenwald, O'Mara and others.

In accordance with the authority then vested in the executive committee, the following resolutions were offered and carried:

"Resolved that hereafter any exhibit competing for the society's medals or certificates shall consist of twelve blooms;

"Resolved that a certificate of merit be awarded to any novelty scoring 80 or more points in accordance with the recommendation made at the annual meeting in Washington in March, 1907, and that this certificate be and is hereby added to the list of medals now offered by the American Rose Society for novelties, but the certificate is not to be delivered until the variety is named;

"Resolved that a certificate of merit be awarded to the varieties Queen Beatrice, scoring 83 points; Rhea Reid, scoring 80 points; and the variety exhibited by Messrs. Myers & Samtman, Wyndmoor, Pa., scoring 81 points,

"Resolved that the following varieties of climbing roses exhibited by M. H. Walsh, Woods Hole, Mass., namely, Paradise, La Fiamma, Delight, and Juanita, be awarded a certificate of merit as recommended by the judges of the Washington exhibition, March, 1907."

These resolutions were put to vote and carried unanimously.

E. G. Hill, Richmond, Ind., advised that he would attend the convention of the American Association of Nurserymen and, if opportunity offered, bring before that body the advisability of the support by nurserymen of the Rose Society, especially in the interest of hardy outdoor roses. On this point Philip Breitmeyer, vice-president elect of the society, advocated that some recognition should be offered to induce exhibits of outdoor roses, saying: "I offered a prize when at the meeting in Washington for an exhibit of outdoor roses in bloom, say 100 or 150 plants in a group. This should be limited to outdoor roses, but not limited as to varieties. I have suggested this idea to several men who are largely interested in this class of stock, and in order to bring this matter to a head, I will offer \$200 for a first prize, and Mr. Boddington will offer \$100 as a second prize to be awarded for such an exhibit in any form that is desired."

This liberal offer provoked very much interest, calling forth the belief that so large a prize would stimulate efforts which had never been made before in this direction. Mr. Farenwald said that he had never yet seen a good show of hybrid roses in pots at any of our exhibitions, adding, "I admire the pluck of Mr. Breitmeyer in leading off as he has done in this direction, and Mr. Breitmeyer deserves thanks for his liberal offer."

The committee accepted the prizes of Messrs. Breitmeyer and Boddington with thanks.

The matter of increasing the membership of the Rose Society was brought forward and a further suggestion by Mr. Breitmeyer was favorably received; in speaking of the coming show at Chicago he said that he believed our field in the West is large and that the growers, as a rule, were in sympathy for mutual benefit.

Life memberships are greatly to be desired so that thereby a permanent fund may be acquired. A suggestion was made following the recommendation of President Simpson in his annual address, that a list of names of such men as may be eligible for life membership be distributed. Mr. Breitmeyer said he would be glad to be one of the executive committee to secure life members or to increase the membership to where it is desirable to have it. The life members who have been added this Spring, and the \$50 fee paid to Treasurer Harry O. May, are: Messrs. Robert Simpson, W. H. Elliott, Alex. J. Guttman, A. E. Asmus and Charles Henderson.

A resolution was passed directing the secretary to prepare a bulletin of the proceedings of the last annual meeting and exhibition, and to secure specimens of suitable certificates of merit and certificates of life membership.

BENJAMIN HAMMOND, Secretary.

Flahkill-on-Hudson, N. Y.

OUR READERS' VIEWS

Gladiolus America.

Editor Florists' Exchange:

Mr. Banning's article on page 741, though long delayed and long expected, unfortunately for him, appears the same week that Mr. Childs in the Shiocton News confirms his statement to me "that he did not claim to have originated America." "Its origin is a question," was his reply to my query.

Mr. Banning's story of its origin is new, and not known to either his present or former grower. How could so simple a matter have been so long concealed during all the past years, or what good reason could there be for concealing it? What year was it born?

I asked Mr. Banning for a few for trial, not "a few thousand," as he says—the statement is, however, sufficiently absurd to stultify it. He refused to let me have any for trial, although I offered to guarantee the return of all the stock with multiplication, and none for breeding purposes. I also promised a fair report, even though we did not deal.

Now why did he take this remarkable stand and why did not he bring some to St. Louis; he the originator, "explicitly" the sole owner, and possessor?

Whoever bought from a half-tone engraving, where any number of varieties of the same type look identical? The introduction of such evidence is irrelevant.

H. H. GROFF.

Raising Peonies from Seeds.

Editor Florists' Exchange:

My experiences this year are so different from those of former years that I thought I was doing this work with less labor. The results have surprised me, so I must relate them to you:

In 1906 I gathered my seed at two different times, with an interval of two or three weeks between. The first gathering was placed in paper bags, and put away until I made the final one, and then all were sown at one time. They were kept in an unheated greenhouse, and on extra cold nights the boxes, or flats, in which the seeds were sown were covered with boards; still they were frozen somewhat, and in the meantime kept moist. Judge of my surprise this Spring, when, in the flats in which I had planted the last gathered seed, beholding hundreds of them coming up, while the flats in which were planted the first gathered ones, presented an unbroken brown surface, and still maintain it. The latter were living up to their traditions, while the others were gaining a march on time. What was the cause of it? The first gathered seeds appeared all right, while of the last gathering many lacked the rich nut brown appearance judged to be the right thing. Both lots appeared plump and full.

In the case of the first lot of seed, was Nature busy trying to conserve them by hardening them up against the time of planting, while in the second lot, the germinating process was moving right on? There was no let up, and the seed came up in 1907.

South Weymouth, Mass. GEORGE HOLLIS.

Sports.

Editor Florists' Exchange:

I have read the different articles that have appeared in your columns on the above named subject and as this is a question in which I have been considerably interested for a number of years perhaps you will allow me sufficient space to make a few remarks upon it.

Your correspondent Mr. Peacock, remarks that a sport is a work of nature. It certainly is, in some cases, through natural hybridization. He then says "man can help and encourage it, yet it is beyond his control." I deny it. The hybridist can produce sports, is producing sports, greatly in excess of nature, and why can he, or rather, why does he produce them greatly in excess of nature? For this reason. That when nature has done her work the seeds are distributed by one of a thousand agencies into places where germination and growth are simply impossible, while the hybridist has them under his thumb and finger, places them in suitable conditions and surroundings for their germination and after growth. There is ample proof of this on all sides. One has only to look around and see the countless millions of seeds that yearly fail to produce their like through lack of suitable conditions and surroundings.

The production of sports by practical breeders in animal life is so common and well understood by them that it is not worth while going into that subject here. The question arises in my mind, "What is a sport?" Yet of the many writers that have touched upon this subject I do not recall one of them having looked upon it in this light. A sport either in plant or animal life, is a plant or an animal, as the case may be, differing from the one

that produced it, the result of either natural or artificial hybridizing, generally producing itself from the first to the fifth or sixth generation, sometimes even later than that. If this result is the work of an unknown agency, natural or otherwise, it is generally called a "sport." If this result is the work of the hybridist, who carefully tabulates anything and everything connected with it, then it is called a hybrid, a distinction without a difference.

Is there any horticulturalist so lacking in intelligence as to dream for one moment that either in plant or animal life a sport can be reproduced from one sex? Take for instance, as an example, the rose Bridesmaid, a sport from another variety. Is there any one foolish enough to believe that this sport was an offspring from a parent possessing unmixed blood? If so, it fully proves, by existing evidence, that it is only necessary to have one sex to breed from. Is any intelligent man going to believe that? I for one shall certainly not. The trouble with this sport business is, that it has been made by many to appear as arising from some cause other than hybridizing, while I maintain that sports are due to this alone.

Every intelligent breeder or hybridist is well aware that his work may not always show results in the first or even second or third generation. This is nothing new; it was known to the ancients. Even writers in the Old Testament refer to it when they say "I will visit the sins of the father upon the children unto the third and fourth generation." This is just as true to-day as when it was written by the ancients, and one has only to look around and see all the evidence substantiating it. I will give one or two cases out of scores at my command. I may as well say here that I am and have been for years a thorough and firm believer that when the Great Creator made this Universe he made one and only one law for one great Universe, and not one law for this continent and another for the other one; not one law for plant life and another for animal life—subject to variations that environment will produce; and I maintain that laws that govern the breeding of animals have the same power and effect on plant life.

Count Lehendorff in his "Recollections of the Breeding of the Thoroughbred," published in 1887, tabulates his experiences of results obtained from breeding, and these results as shown in the different generations were as follows:

	Success- ful.
1 Degree removed from first cross....	4
2 Degrees " " " " " " " " " "	14
3 " " " " " " " " " "	22
4 " " " " " " " " " "	21
5 " " " " " " " " " "	25
6 " " " " " " " " " "	18

These figures speak for themselves; and while it may seem a long jump from a carnation or a chrysanthemum to a race horse, I maintain that nature's laws are one and the same for both in the main principle, subject to slight variation.

Here is one more case: Some years ago one of the best known fox terrier breeders in England owned a dog that for exhibition purposes was without exception almost perfect, but one fault was sufficient to bar him from even being noticed on the bench. Being of the bluest blood, he was bred from with the most satisfactory results, his progeny making their mark on both sides of the Atlantic. But every second or third generation the defect referred to would assuredly crop out and assert itself.

It is the same with plants. When one takes into consideration the amount of cross-breeding that has been carried on during the last few years especially among chrysanthemums and carnations; when it is taken into account the enormous amount of territory the plants have been disseminated over, is it any wonder that "sports," or what is more correct "hybrids" are cropping up everywhere? This was not the case a few years ago, at least not to such an extent until the hybridist got in his work. Now hundreds of hybrids are showing themselves and will continue to show themselves; hybrids that should be called by their proper name and not by the name of "sports."

A sport cannot be produced from a plant without hybridizing or introducing other blood into it. Then why call it a sport?
Birmingham, Mich. H. J. CORFIELD.

Editor Collingwood Honored.

At the recent semi-centennial of the Michigan Agricultural College, Lansing, the degree of Doctor of Laws was conferred upon Herbert W. Collingwood, Editor of The Rural New Yorker, the first time, we believe, that such a degree has been conferred upon an agricultural editor.

Mr. Collingwood, who was graduated from the Michigan college about 25 years ago, is a native of Plymouth, Mass. Orphaned by the Civil War, he had a somewhat struggling youth, his first start in life being as office boy for Lee & Shepard, the Boston publishers. After a hard-won college course he went South, making his journalistic start as editor of a little local paper in Mississippi. About 20 years ago he joined The Rural New Yorker, becoming editor-in-chief upon the retirement of the late E. S. Carman, in 1899.

We extend our congratulations to Dr. Collingwood.

Reflections on Current Topics.

MR. EDITOR: I was much interested in your remarks on the plan proposed by Mr. Sullivan of Detroit, to the effect that florists' clubs should establish a bureau of correction and censorship, with respect to horticultural and floricultural literature appearing in the magazines and daily newspapers. But why did Mr. Sullivan not include the trade press also? It is my opinion that these bureaus could be kept busy pointing out what should have been eliminated in every issue of these "newsy" journals, in some cases correcting misstatements as to cut-flower prices; condemning in toto contributions like those of John G. Esler, John Birnie, Job, and the Ginger Jar man, to say nothing of the plethora of "flapdoodie" doled out to long-suffering readers week by week—all a waste of time to read, and reflecting severely on the "progressive and intelligent" character of those who complacently swallow the dose. Begin at home, gentlemen; for our trade papers, I think, sorely need censorship and reform.

In this connection it is a pleasure to read of the improvement, contemplated and current, instituted by your Canadian contemporary, as set forth in one of its recent issues, as follows:

"Ever since the present management assumed the publication of The Canadian Florist, it has been our endeavor to exclude from our columns everything of a personal nature to which exception might be taken. Cheap jokes of all kinds, such as those that disgrace the columns of some of the United States trade papers, and which appeared in The Canadian Florist before we took control, have been rigorously excluded. A few florists have found fault with this policy, but in the main our action has been commended.

"We hold that while jokes about 'Harry's' baby, and 'Tom's' torn pants, may be entertaining to a few florists who understand the circumstances referred to, and who know the people mentioned, yet they are not news, and that they are lost on the majority of our readers. Our space, we feel, is too valuable to be wasted in printing matter that will benefit no person, and that may hurt the feelings of some. Our idea is that items of the kind referred to, as well as bickerings of any kind between private florists, are not of general interest, and that it lowers the tone of this paper and the standing of the trade to give them publicity."

Talk like that is sensible, and meets with my hearty approval, as I have a strong desire to be classed with the "intelligent and progressive," to whom cheap jokes never do appeal. Not that jokes of any kind are entirely lost on our Canadian friends or myself, as they are on John Birnie and his race, who require a surgical operation before seeing the "point," but our tastes soar beyond "torn pants" and babies, and even the fact that Peter Fisher has removed that handsome "auburn" mustache that added so much to his dignity and personal appearance—a joke, or something worse, appearing in one of your Chicago contemporaries whose specialty appears to be to "disfigure" its columns with just such trashy stuff as your Canadian contemporary so correctly condemns. * * *

I notice that John Birnie is still bothering himself—and others—over the "origin of species," concerning which his pet phrase appears to be: "His ways are past finding out." John should adopt this as his own motto; it seems to me his communications on the geranium question amply justify such adoption. But what tickled me most in Birnie's last letter was his great familiarity with Darwinism and Mendelism, evidenced by his assertion that the latter is superseding the former. This set me inquiring as to what Mendel's theory is, as I, like Birnie, always wish to keep my knowledge up-to-date. Here is what I found: "Mendel's law is to the following effect: The gametes of a heterozygote bear the pure parental allelomorphs completely separated from one another, and the numerical distribution of the separate allelomorphs in the gametes is such that all possible combinations of them are present in approximately equal numbers. (Note that it is impossible for both members of the same pair of allelomorphs to occur together in the same gamete.)"

I am willing to concede that Birnie thinks he knows what he is talking about when he says "Mendel's theory is superseding Darwin's theory;" for the "law" as quoted would seem to deserve to supersede anything; but anyone who is actually familiar with both "theories," knows that one is not competing with the other, but each is rather supplementing the other, in an effort to arrive at improvement in plants by selection, Mendel showing, in some cases, the shorter, surer and more satisfactory cut. JON.

In view of the evident great need of the S. A. F. O. H., of numerical strength, and the excellent additions thereto which florists' clubs and other smaller horticultural associations could afford were they so minded and some satisfactory arrangement anent affiliation with the national society could be effected, why not call a conference of these bodies, to be represented by their respective officers, to discuss the matter of "closer relations" with the officers of the S. A. F. O. H. at the forthcoming Philadelphia convention of the latter society?

Stray Notes from Across the Atlantic.

The way some describe the colors of flowers is quite interesting, although it is rough when a grower buys a thing and finds it is different in color to what he expected it. I quite thought the sweet pea Coral Gem was real coral color, and it turns out to be a buff-pink. Some of you fellows (or is it the ladies?) are champions at giving things fancy names.

I am disposed to make this remark on seeing the note regarding Californian privet. We, over here, call it privet pure and simple, and everyone knows what is meant; if we want golden privet, we ask for it; that is all.

I have always observed that you speak of the potato as Irish potato. Where does Ireland come in? I really think we ought to call the sweet pea English, because it was first taken up seriously in this country. Which reminds me that some of our knowing ones have, ridiculed the term "orchid-flowered sweet pea." That's Yankee, too.

We have had a hard time of late with outdoor stock—continuous gales and very cold, until the 9th ult.; then it got really hot, only to turn bitterly cold again with more wind on the 15th. Sweet peas haven't grown at all since being planted out.

It surprises me that Mr. Zvolanek's early sweet peas have not been more known. Many growers on this side have asked me whether there were early sorts other than Mont Blanc and Earliest of All, yet until about two years ago I had never heard of Mr. Zvolanek's strain, nor have any trade growers mentioned them so far as I am aware.

The average market man relies upon standard sorts for growing under glass, although Mont Blanc has been doing well and Burpee's Earliest White promises to be a winner. It is generally accepted over here that sweet peas are not influenced by insects, and the fact that mixtures can be grown together, and the resultant seed never produces anything new seems to prove it. All the sports we have appeared out of named sorts which are grown in bulk. New seedlings, of course, are especially liable to sport for several years.

Eckford grows his plants in rows, and carefully rogues them, but it is a million to one chance against getting anything new out of his seed from named varieties. If sweet peas were not self-fertilizing one should never be able to keep varieties true. The Spenser class, with its open keel, is sometimes supposed to be affected by insects, but there is no proof, despite its sportive nature.

I am somewhat surprised to note that the Zvolanek crosses with the ordinary sorts bring about dwarf growers, considering the fact that many of our kinds, like Dorothy Eckford, can be made to touch the 14-foot mark outdoors.

Respecting tendrils, I might mention that tendrils are after all only modified leaves, and Bolton, the Lancashire specialist, showed me a blue variety which seemed to prove it; for this specimen had sported backward, so that the tendrils were really leaves. They were about one-half an inch in width and slightly curled. No true tendrils were present, and the plant had to be tied up.



Peony Officinalis Rosea Plena
Photo by J. E. Coit, Cornell University.

This shows that the manner of growth is no criterion. Dwarfness, as in the Cupid, is a growth sport. Breaks in color are probably due to seminal sports; although the ordinary sorts are constantly being hybridized, that has nothing to do with the fact that standard sorts come true.

From what I can gather, Mr. Zvolanek has to intercross self-same flowers to keep them true; ordinary sorts are only crossed for the purpose of getting new things. I might add, however, that one of our home firms quotes a lot of rubbish in its list respecting the debasing habit of the sweet pea which self-fertilizes before opening, and in offering their select (?) strains under separate colors, they calmly tell us that they hand-fertilized each color. What this means, everyone familiar with sweet peas will understand, for if the flowers are not deprived of their stamens before the blooms open, they will fertilize themselves before pollen can be introduced by hand. Selection, according to type, is sound enough; but hand-fertilizing of standard sorts—what?

Personally, I cannot quite agree with Fred. W. Timme respecting seedling pyrethrums. To be sure of really first-rate stock, one must propagate from named sorts. I have never seen seedlings equalling the named kinds, either double or single. I note that some American firms handle a few named kinds, but they are a long way behind home firms, such as Kelway. Of course,

good seed will give a percentage of fairly good flowers, but one cannot rely on getting a batch of one color.

I'm real glad to see William Sim is standing by the statements of Zvolanek. It's hard luck when a chap is set on by many; I know what it is myself. Still, there are points that Mr. Sim fails to convince me upon.

As I have already pointed out, one never knows when sports are coming. One may grow for years and never get one, while another individual has a break the first season that he handles a certain class of plant.

Mr. Sim is only echoing the remarks made by men on this side. Don't imagine you're on the fence, Mr. Sim; we have been rowing on this subject pretty much during the past two years.

It is conceded by the majority that sweet peas are self-fertilizing. The pollen is on the stamens before the buds open; therefore, any insect that forces down the keel of an open bloom, and bees often do, is too late to affect the coming seed. Even were sweet peas influenced by insects, we should not be very far wrong in terming new breaks as "sports" in reality, that would be natural crosses; some would say natural hybrids, but a hybrid proper is the result of a cross between two distinct species. If Mr. Sim has found distinct colors possessing the same earliness among Mont Blanc, etc., and they did not appear through mixing of seed, then he has had sports.

Sweet peas do not "sport" as do chrysanthemums or dahlias. I know of no annual which sends out a separate shoot bearing a different colored flower as does a chrysanthemum, but there are such things as seminal sports.

By Mr. Burpee's own showing, Thomas Gould, who first noticed the increased earliness of some of his Earliest of All, found one plant among his re-selected Earliest of All which bore pure white flowers. In every respect it was like Earliest of All save in color. Where did that white plant come from? Mr. Gould, being a careful grower, kept his re-selected Earliest of All very closely watched. The white was different from Mont Blanc, and yielded black seeds. If the bees had influenced Earliest of All there surely would have been a series of breaks, or at least several whites. But there was only one, and the seed saved from it also came white-flowered, and as far I know still continues white-flowered. As Mr. Sim doubts the sporting tendency, what brought Earliest of All, seeing that there never was so early a variety? From what I can understand, Mr. Zvolanek did not choose a late or ordinary sort for his cross with the vetch.

Can it be denied that the Cupids and Bush sorts are sports? What brought about the waviness of Countess Spenser and Gladys Unwin? Eckford and many others had been breeding and intercrossing for a quarter of a century, yet no seedling ever had wavy wings and standard. The raiser of Countess Spenser may have crossed and crossed, but nowhere could he go for waviness, and the pedigree given out shows only varieties such as Prima Donna and Triumph.

As I have already pointed out, very few knew anything about Mr. Zvolanek's varieties on this side until a year or two ago, therefore it is not surprising that the Englemann and Telémly sorts are nowhere in the United States.

It is the sportive tendency among sweet peas that makes the pure yellow, pure scarlet and pure blue possible. Dame Nature sometimes helps the hybridizer and gives him what he would like, but what he does not expect.

I think I shall have satisfied Mr. Sim regarding "sports" from the early kinds. Apart from this, all sweet peas are alike, be they early or late. The early sorts are not grown so largely and have therefore had less opportunity to sport.

Mr. Sim does not grasp the details respecting the Telémly strain. The Rev. Arkwright had but the Blanche Ferry to start with; it was given him by a gardener, who presumably had grown it prior to giving seed to Mr. Arkwright. The latter finds a sport among his plants which differs from the others. Further, no one other than Mr. Arkwright gets it or the others that followed. If insects were the cause, why have they not affected the sweet peas in other Algerian gardens?

No. Mr. Sim, the natural cross theory is too weak. Were it not for their self-fertilization, sweet peas would be always shifting in color.

To keep certain flowers true, they have to be grown apart from others of a different color; vegetables need the same care. What would happen to our stocks of Ailsa Craig onion if grown alongside your American Prizetaker and allowed to seed?

The greatest precautions are necessary to keep all the Brassica tribe true. Set a red cabbage flower anywhere near the green section and see what happens. Yet we are able to grow sweet peas next each other, and they remain true, save for the occasional sporting as stated.

Kent, England,

T. A. WESTON.



Peony Marguerite Gerard

Photo by J. E. Coit, Cornell University.

Bedding Plants and Bedding.

For three or four weeks many growers and dealers will be busily and profitably engaged in disposing of bedding plants in one way or another. The growers with the most extensive establishments for the production of bedding plants are not so much concerned about the final disposition of the stock they raise after it leaves their premises in good condition, as are the many small growers and retailers, many of whom find the growing of plants and the planting and care of them after setting out their principal sources of income. The former class of growers are, it is safe to say, interested in whatever has an effect one way or the other on the market, and are likewise interested no doubt in anything that tends even in the slightest degree to increase the demand for the plants they grow at the present time as well as in any movement aimed at popularizing something comparatively new but easily grown.

We may hear a good deal about what is right and what is wrong in the arrangement of bedding plants, but to the average grower the most of that kind of talk falls like water upon a duck's back; and that for one or two reasons he either has no need of such in the way of advice or if he had and were disposed to listen to it, he is invariably placed in such a position that he cannot give much heed to it because he has to plant whatever he is asked and arrange the same according to the ideas and notions of someone else, whose ideas of right or wrong he is not supposed or disposed to question in the least.

The preparing of the soil for plants is unquestionably one of the most, if not the most important consideration for the successful development of the individual subjects, as well as for the future appearance of the bed as a whole. It may have been that the beds and borders have been dug a month or more in preparation for planting; if so, just before planting begins they ought to be lightly forked and all the lumps carefully broken, leaving as little as possible for the rake to do. If no manure had been added to the soil at the first digging it will be well to give the beds a good sprinkling of horse manure or some other fertilizer now. The rake should be used only to bring the surface of the soil to the desired grade, which in all cases should not be over two inches above the level of the surrounding grass. Top-heavy beds or mounds are nothing more or less than an abomination, and it is inconceivable how any person could suppose their appearance to be pleasing.

The number of plants for a bed depends on many things. It may be desirable to plant thickly for the sake of obtaining immediate effect, but when such is not the desire it will be better to plant far enough apart to allow the plants some space for development, thus insuring lasting qualities in the plants. This applies more to such plants as geraniums, salvias, coleus and begonias, and does not bear so much on the like of alternanthera, which it may be just as well to plant so that each plant is within a little more than a couple of inches of touching at the start.

While the soil composing the balls enveloping the roots of plants should by no means be dry at planting it is not an advantage to have them soaking wet, because if they are in that condition it will be almost impossible to plant them satisfactorily, by reason of the soil being soft. The plants should be made firm; that is, the soil of the bed which is to surround the roots of the plant should by firm pressure be made to adhere to the latter, and this cannot be done without undue disturbance of the roots if the balls are soaking wet. After the plants are all set in a bed or border, if there are no indications of rain for the near future it will be well to give a good watering—not a mere sprinkling, which no matter how often done is worse than useless.

Planting will be facilitated if the man or men actually engaged in the process are not obliged to do anything else until the work is completed. If the plants have to be conveyed across a stretch of lawn by means of a handcart or barrow, it will be well to knock the plants out of the pots, starting out and at the same time removing any crocks that are in the bottoms of the pots so that none will be strewn on the lawn to do harm to mowers.

Perhaps the most satisfactory plants for all-round utility are geraniums for bedding, because they are showy and attractive from the time they are planted until frost finally settles them. But geraniums are by no means answerable for all purposes and locations, and it is just as well that they are not. Geraniums will not flower in shady places or amount to much in partially shaded spots. Begonias delight in partial shade, especially the tuberous sorts and the fact is that if these are intended for places where the sun shines brightly, a temporary shading should be erected over them and allowed to re-

main for a week and gradually removed. Begonias of the Vernon type, although not so gorgeously decorative as the tuberous-rooted ones, are nevertheless exceedingly well adapted for bedding in endless forms. These begonias are grown in immense numbers in distinct colors of red, white, and pink. They look best when planted in distinct colors, and for that matter so does everything else. Sometimes special care is taken to place in a bed or border plants not distinctly different in color, but of different shades of one color. Now, I think the one is just as bad as the other; the latter practice looks to me like an admission, partly concealed, that there was not a sufficiency of one color to complete the bed or border.

Fuchsias are now gaining rapidly in popularity, and no wonder; they are especially well suited for borders or beds in locations slightly shaded from the direct sunlight. For them to succeed well it will be necessary for the soil to be good or to be made so artificially; and, further, it will be well to keep the soil well cultivated all through the Summer.

There are many annuals and some biennials suitable for the ornamentation of grounds, but the greater number are usually planted for cut flowers; with these it will be well if possible to plant in some section, all by themselves, both for convenience of cutting and by reason of their only remaining in presentable condition for a limited time.

Carpet bedding is not nowadays practised to anything



Greenhouses of Joseph Traudt, Canajoharie, N. Y., Before Recent Improvements

like the extent it once was, but the incongruity of such arrangements of plants need not necessarily greatly concern commercial men. What they are most concerned about is a market for their plants, and for that reason they do not stop to question the propriety of any form of their disposition. Moreover, such unconcern need not in any way reflect on their own ideas regarding what is good taste.

Nowadays the rage for the so-called Italian style of gardening is making a market for large quantities of the material heretofore used in carpet bedding, and this form of gardening is creating a demand for material of other kinds in like quantities, for such things as box, clipped evergreens of various kinds and many other things of like artificial character, which would, without such uses being made of them, be in much less demand.

Herbaceous or perennial plants are used now in much larger numbers than in former years, and the fact that nurserymen and other growers are adopting the pot system of growing this class of plants enables a much more extensive use being made of them, as well as prolonging the season of their planting with certain ultimate success. In the planting of perennials, although at times circumstances may warrant if not demand mixed planting, on the whole the most satisfactory results are in evidence where species and even varieties are planted as much by themselves as possible. D. M.

CANAJOHARIE, N. Y.—Joseph Traudt has recently purchased the greenhouse property heretofore known as the Yates Floral Company, Mr. Yates having retired. Mr. Traudt is the only florist in the city and would be glad for his friends in the trade to make a note of this. "Gates," florist, as listed here, was confounded with Yates; there is now neither Yates nor Gates, and only the indomitable and affable Joseph Traudt. The place is situated in a beautiful valley overlooking the Mohawk River and well sheltered in the rear. Mr. Traudt has several improvements under way; he has just completed a new office building and cold storage room that for convenience and general appearance could not well be surpassed.

In addition to the general line of bedding and flowering plants about 1,200 good Gloire de Lorraine begonias are usually grown. J. M.

THE ROKOKO CYCLAMEN.—Moeller's Deutsche Gärtner-Zeitung, in its issue of May 25, contains an illustrated article on the Rokoko cyclamen. It is stated that this strain was obtained about six years ago by crossing *Cyclamen persicum giganteum fimbriatum* with the Belgian *Cyclamen papilio*, and introduced into commerce several years ago by the firm of J. C. Schmidt, of Erfurt, Germany. The writer of the article in question is very enthusiastic in his description of the new cyclamen. He states that the flowers, which average 11 to 12 centimeters in diameter, do not have a definite form, but rather that their beauty lies in their many sided qualities, both in form and color. The flowers are very deeply fringed, and the outer edge more brightly colored than the center. When in full bloom the foliage is hardly visible, thus giving the plant the appearance of an *Azalea indica*.

It is not claimed that the excellent qualities of the Rokoko cyclamen will drive the older forms out of the market, but the writer believes it will create a large demand, plants even now obtaining double the price of the ordinary forms.

The culture does not differ materially from that of the older varieties. For early flowers sow seed in July. Seed sown the end of August or beginning of September will produce blooms until the end of April, when there is a scarcity of flowering plants. When trans-

planting the seedlings it is advisable, in cool weather, to give a little bottom heat; in hot, sunny weather, it is necessary to give double shade, so that the rapidly growing foliage may not droop. Mornings and evenings the plants must be aired. Early buds should be removed. When the plants have become established they should be removed to a bright place, where plenty of ventilation can be given. The flowers will not stand forcing; the blooms must be allowed to develop slowly. Even when the petals have fully opened the flower is not yet finished; it keeps on growing until nearly twice the size as when first opened. During the Winter a weekly application of a liquid fertilizer will assist in the healthy development of the flowers.

Customs Decisions.

SEA MOSS—PAPYRUS FLOWERS.—In the protest of Decorative Plant Company against the assessment of duty by the collector of customs at the port of New York, before Board 1, May 21, 1907, the following opinion was rendered by General Appraiser McClelland:

"1. So-called papyrus flowers, classified under paragraph 425, tariff act of 1897, relating to ornamental flowers, etc., were claimed to be dutiable under paragraph 251, relating to natural flowers preserved, etc. These articles consist of narrow palm leaves treated and dyed, about 12 inches long, in the center and at the base of which dried and colored seeds are placed, forming a spray when tied with rubber band and attached to wood handle about two feet long. Palm leaf is the component of chief value. Assessment affirmed. Note G. A. 5800 (T. D. 25630) and *Kreshover v. United States* (T. D. 27826).

"2. Protest sustained as to sea moss on the authority of G. A. 6464 (T. D. 27670)."

ORNAMENTAL LEAVES.—In the protest of H. Bayersdorfer & Company against the assessment of duty by the collector of customs at the port of Philadelphia, before Board 1, May 21, 1907, the following opinion was rendered by McClelland, G. A.: "The protest related to stative wreaths classified under paragraph 251, tariff act of 1897, relating to natural flowers preserved, and to various other goods classified under paragraph 425 as ornamental leaves. Assessment affirmed. *Kreshover v. United States* (T. D. 27826) followed."

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. POLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLOREAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dayton, O.

W. G. MATTHEWS, FLOREST, 16 West Third Street. Flowers in any arrangement for all occasions for Dayton and vicinity. Personal attention given to all orders. Long distance telephones.

Dallas, Texas.

LANG, THE FLOREST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Louisville, Ky.

JACOB SCHULZ, 644 4th Avenue. Personal attention given to out-of-town orders for Louisville and surrounding territory. Have a choice line of seasonable flowers always in stock; delivery facilities perfect.

Indianapolis, Ind.

BERTERMANN BROS. CO. Our facilities for executing orders in an efficient manner are unexcelled. Our shipping territory includes the surrounding states. High grade flowers; expert workmanship.

Albany, N. Y.

EYBES, 11 North Pearl Street, cut flowers or floral designs delivered to any part of Albany and vicinity on telegraphic order. Personal attention given and satisfaction guaranteed.

HORTICULTURE'S GREATEST NEED.—Horticulture is affected more or less by nearly every science, and by nearly every art. Every walk in life is affected by the horticulture of the country, and in turn as we are able to take the advantage of the best of everything, we will be able to prosper. During some periods, our greatest needs lie in the direction of better methods for controlling insects. At other times, information on disease is needed most urgently. At one time we were in great need of information on fertilizers. It seems to me that what we are now needing most of all is information that will enable us to put our crops into the hands of the consumer at the least possible cost. We need a sort of horticultural political economy.—President P. H. Rolfs, Florida State Horticultural Society.

FOR THE RETAILER

For reproduction on this page, we solicit from our readers engaged in the Retail Trade, good, clear photographs of subjects that are of general interest, such as store interiors, designs of different classes, new delivery wagons, etc.

Commencements.

Commencement exercises are claiming the attention of the busy florist just now, which spells Summer, and the wind-up of the season, as far as big events are concerned. One of the largest of these affairs was held this week at Sherry's, and the quantity of flowers seen there was a revelation. All the leading flower stores were well represented, and some very good examples was the result.

Flowers for these occasions are made up into every known form of bunch and bouquet, from loose flowers sent in boxes to the most elaborate shower bouquet.

Roses by themselves, or in combination with other flowers, seem to be the most popular; although carnations, sweet peas, lily of the valley and even orchids were there in profusion; in fact, scarcely a flower in the market that was not represented. The excellent

An Innovation in Cape Flowers.

A florists' supply house that has earned a reputation for new ideas is offering Cape flowers in sheet form. The advantage of this will be readily seen by users of this material. The flowers are glued on to sheets of pliable netting, each sheet being one yard square. They have the exact appearance of being individually stemmed on toothpicks, with the advantage that they can be cut off in smaller sheets, and fastened on to the funeral piece, pillow, or scroll, whichever it may be, where a name is to be used. The time saved in stemming would be a considerable item to a busy florist, who will quickly see the advantage of such an arrangement. This same firm is also introducing a cheap form of "coral words" for funeral work; they are cut out of wood, in one piece. The material used for covering the wood is dyed sawdust. The price is one cent per word.

D. RAYBUN.

THE CAPE JASMINE INDUSTRY IN ALVIN, TEX.—Alvin (Tex.) is becoming famous as the "Cape Jasmine City" of the coastal plains. At this season of the year all the yards in this community are ornamented with the odorous Cape jasmine, and the beautiful buds are being shipped by the tens of thousands to all parts of the country, even to the cold and icy cities in distant Canada. The buds of the Alvin Cape jasmine have crossed the Atlantic, reaching France in an excellent



Store and Employees of John F. Wood, Providence, R. I.

quality of the roses and carnations, so late in the season, is remarkable.

Pink roses seem to be the favorite color for these occasions, Bridesmaid, Mme. Abel Chatenay, Killarney, Mme. Caroline Testout and Golden Gate being most in evidence. A shower bouquet of Bridesmaid roses and white lilac, showered with pink ribbon and sprays of lilac, was very handsome. Richmond roses, which are coming in especially good just now, go splendidly with white lilac; the stems of both roses and lilac should be left full length to make a handsome bouquet.

Sweet peas in various combinations seem to be very popular for commencement work. Some designs are made with the shower effect, others empire, and a great many old-fashioned round bouquets are still to be seen, and, when made up loosely, are most effective. Sweet peas are most attractive when their various colors are combined. Pale pink, white, and crimson were used most effectively in one bouquet, narrow silk gauze ribbon being employed in the shower. The colors must be properly grouped and not mixed, otherwise a meaningless jumble will be the result. Pale lavender and white go well together, as do crimson and white. Adiantum cuneatum is the most pleasing embellishment for sweet peas; anything heavy should be avoided.

A large bouquet of white centaurea, with a cluster of the same flower in yellow, made a gorgeous affair. Centaureas make up especially well and have the advantage of being excellent keepers in hot weather.

Orchids are not generally employed for commencement bouquets, but a bouquet of Cattleya Mendellii and lily of the valley was superb. Cattleya gigas was also seen; this grand orchid has just made its appearance this season in this market, and is especially fine, being so early.

There are several of the ladies in this town who are engaged in raising and shipping these jasmynes and other flowers to the various flower markets of the North and West. Among those engaged in this pursuit are the following: Misses Cook, Cape jasmynes, violets and tuberose; Mrs. A. D. Griffith, roses, violets and jasmynes; Mrs. Weyms, jasmynes and jonquils; Mrs. A. D. Pratte, jasmynes. But C. W. Benson of Alvin is perhaps the largest dealer in Cape jasmine buds in Texas, or in the South. In addition to those which come from the ten acres which he is cultivating, he buys thousands of buds from his friends and neighbors.

The cultivation of the Cape jasmine in the Alvin community, where it seems to find its natural elements in soil and climate, appears to require no special skill or labor. The cuttings, about 12 inches in length, are planted in the ground, which should be well prepared and kept damp. After these cuttings have taken root they can be easily transplanted in the field or garden where they are wanted to grow. They are then cultivated about the same as other plants and shrubs.

The buds are gathered for market just as they begin to show white under the edges of the petals. They are placed in baskets and carried to the packing shed. Here the buds are rolled into bundles of twenty-five each and wrapped tightly in dry paper. These bundles, thus wrapped, are then dipped in water and carefully packed in boxes lined with wet paper. The boxes are of various sizes, and will hold from one to twenty-five bundles. The order to be filled determines the size of the box to be used. On Memorial Day Mr. Benson usually fills orders for more than 100,000 buds per day.

Mr. Benson has been in this business thirteen years, and he now has about 6,000 customers scattered all over the United States and Canada, to whom he makes shipments annually. He also makes some shipments into Mexico.

New York.

The Week's News.

Cold and rainy weather still prevails in this vicinity, much to the detriment of such florists as do outside work, planting flower beds, caring for lawns, etc. Memorial Day, fortunately, was favorable, and gave the cemetery florists an opportunity to dispose of a large quantity of bedding material.

The window box garden is coming more into favor and the prominent hotels of this city spare neither pains nor expense to have their window and veranda boxes ornamental all the year round. Evergreens are used for the Winter months, and flowering plants chiefly during the Summer. For a partially shaded and dusty thoroughfare, and one where the surrounding buildings are so high that it would be impossible to make any kind of a show with window boxes filled with flowering plants, we would recommend a liberal use of *Latania borbonica*. The usefulness of this palm is fully exemplified on the Broadway side of the Cafe Martin, where the window boxes have been liberally planted with *latanias*, and the tropical effect they give, together with their sturdiness in withstanding dust, wind, shade and every other thing that would seem to be against plant life thriving in a busy thoroughfare like Broadway, make them one of the best subjects possible for this style of window gardening.

The New York Florists' Club will meet on Monday evening next at the Hotel Earlington, 55 W. Twenty-seventh st., between Sixth avenue and Broadway, and as this will be the last meeting before the Summer vacation, a large attendance of the members is desirable. Among the items of interest that will come up before the meeting is the motion of F. H. Traendly, that the club shall subscribe to the guarantee fund of the coming exhibition of the S. A. F. to the amount of \$250. The outing committee has completed its work on the program to be issued, and advises that \$265 has been subscribed by advertisers and nearly \$500 for prizes. The committee hopes to distribute copies of the program at the meeting of the club on Monday evening. The committee on closer relations with the S. A. F. O. H. will meet at Traendly & Schenck's office, 44 West Twenty-eighth street, Monday, at 5 p. m.

Mr. and Mrs. Wm. H. Siebrecht, of Astoria, sailed for Holland on Wednesday.

(the 5th inst., by the Hamburg-American line, and intend to remain abroad until August.

The large tent in which the New York market florists have been doing business at Canal and Washington streets, was blown down during the severe windstorm on Sunday last. As this is about the windup of the market men's season, it is not intended to erect a tent again this year.

John Seligman, of the firm of wholesale florists, Seligmann & Company, 56 West Twenty-sixth street, is wearing a broad smile this week; his wife presented him with a daughter on Memorial Day.

Ordonez de Nave & Company, the orchid importers, received one case of orchids by way of Southampton this week.

Robert E. Berry is at Canton, O., in charge of the planting of the McKinley memorial grounds, for Wadley & Smythe, florists of Fifth avenue, to whom the contract for that landscape work was awarded.

Henry Saxon Adams, Springfield, Mass., was a visitor this week. Mr. Adams is chairman of the Committee on School Gardens of the Massachusetts Horticultural Society in which work he is greatly interested.

At the Cottage Gardens, Queens, N. Y., the peony buds are fully three weeks later than they were in 1906.

J. C. Vaughan of Chicago, is in town this week.

An "economic garden" has been established in the New York Botanical Garden at Bronx Park; it is located at the upper or northern end of the valley, which lies to the eastward of the large conservatories. The growing collections represent one or more varieties of many of the plants cultivated for their material uses which will endure our climate. Besides these, a large number of plants used by the aborigines, especially food plants, are represented. In the rivulet and the pools, many aquatics and marsh plants, such as *calamus*, cat-tail, rice both cultivated and wild, taro, and wapatoo, have been planted.

A new flower garden, adjoining the conservatories, has also been installed, and many deciduous shrubs, perennials, and some annuals planted, as well as coufers and broad-leaved evergreens.

At a V & G tabl Plant situation In an interview with a representative of the New York Times this week re-

garding the vegetable plant situation, Patrick O'Mara, of Peter Henderson & Company, said his firm had orders for thousands of tomato plants which it could not fill because the supply had been exhausted long ago. This situation had been brought about, he said, by the repeated killing of plants by the cold weather. Some growers had planted as many as three times, and even the third planting had in many instances been killed by the cold weather. Mr. O'Mara said that in his opinion the tomato crop this year would not be 50 per cent. of the normal yield, if it reached that. Conditions, he believed, were the same everywhere, judging by the reports he had received. On Long Island and in New Jersey the shortage would be particularly marked. The scarcity would extend to potatoes, egg plants, peppers, and the like, the only normal crops likely being in peas, cabbage, and similar cold weather crops. In all probability, he said, the tomatoes raised would be few and those of stunted growth.

"None of the dealers had, of course, anticipated such abnormal weather as we have had," said Mr. O'Mara, "and they did not raise more than the normal supply of plants. We have had countless calls we have been unable to fill. I had an inquiry to-day from a customer for 15,000 pepper plants, and don't know where to get them. I should say that there would be a shortage of all garden stuff this year. The situation is serious."

The conditions reported by Mr. ara were said by other dealers to represent the situation exactly. Along

Cortlandt and Barclay streets the dealers said there was an actual famine in many small vegetable and garden plants. They were all sold out, with hundreds of orders still unfilled. Letters received from representatives of the large fruit and vegetable canners throughout the country betrayed an anxiety never before shown.

St. Louis, Mo.

The Week's News.

Next Thursday afternoon at 2 o'clock the St. Louis Florists' Club will hold its regular monthly meeting in the Burlington Building. This will be a very interesting meeting for the growers, as the discussion on fumigation will be continued, and Fred. Ammann, Edwardsville, will make a report on his experience since the last meeting on the new method which was discussed. President Irish and Messrs. Fulgraff and Pring of the Missouri Botanical Garden will also give valuable information on this subject. The trustees, Messrs. Smith, Beyer and Weber, will report on the club's celebration and the annual picnic which is to be held in July. A large attendance is expected.

Charles Schroeter, who has been running a floral establishment on South Broadway, has closed up shop and left a number of creditors behind.

Fred. C. Weber's delivery wagon and a street car were in collision, which resulted in a smash-up of the wagon, and the driver being badly hurt, which will lay him up for several weeks.

ST. PATRICK.

ROOM!

We want to place our Importations of

ARAUCARIAS, PALMS, RUBBERS, etc.

Therefore we now sell our surplus stock of Bedding Plants at Cracker-Jack low prices.



GRAFTED ROSES

FINE STOCK. READY NOW.

- Richmond, \$2.00 per doz., \$14.00 per 100, \$120.00 per 1000. Killarney, \$2.00 per doz., \$16.00 per 100. Etolle De France, 3 in. pots, \$2.00 per doz., \$18.00 per 100. Kaiserin, Carnot, \$2.00 per doz., \$16.00 per 100. Bride, Goldee Gate, Wootton, 2 1/2 in. pots, \$2.00 per doz., \$12.00 per 100.

ROSES OWN ROOTS

- Richmond, \$6.00 per 100; \$60.00 per 1000. Perle, Sunset, \$5.00 per 100. Bride, Bridgmaid, Golden Gate, \$4.00 per 100; \$38.00 per 1000.

CARNATIONS

- From Pots. Fine, healthy stock. Winsor, Helen M. Gould, White Enchantress, \$2.00 per doz.; \$14.00 per 100.

ASPARAGUS

- PLUMOSUS NANUS, 2 1/2 in. pots, \$4.00 per 100; \$3.00 per 1000. " " 4 in. pots, 10.00. SPRENGER, 2 1/2 in. pots, 3.00; 3 in. pots, 2.00; 4 in. pots, 1.00.

CHRYSANTHEMUMS

- From 2 1/2 in. pots. Fine stock. Ben Wells, Lady Cranston, F. S. Vallia, Meratham, red; Meratham, yellow; Mrs. Wm. Duckham, 75c. per doz.; \$6.00 per 100. A. J. Balfour, Mrs. G. W. Childs, Alice Byron, Yellow Eaton, 60c. per doz.; \$4.00 per 100. Dr. Engubard, Geo. S. Balb, Mata, Mrs. Coombs, Nagoya, Opah, Robert Halliday, White Bonaffon, Wm. Duckham, 60c. per doz.; \$4.00 per 100; \$30.00 per 1000. Autumn Glory, Ada Spaulding, Crema, Cullingfordii, Dorothy Devans, Harry May, E. W. Bloman, J. E. Lager, H. Troy, Mrs. J. Jones, Mrs. Baer, Major Bonaffon, Mma. Fred Bergmann, Niveus, Timothy Estoe, W. H. Lincoln, 50c. per doz.; \$3.00 per 100.

CANNAS

Strong plants from 3/4 in. pots (30 fine named varieties) \$6.00 and \$8.00 per 100.

MISCELLANEOUS PLANTS Ready For Immediate Sales

Table listing various plants like Achyranthes, Agave, Begonia, etc. with columns for Size, Per 100, and Per 1000.

VERBENAS

Best Mammoths, from pots, \$3.00 per 100.

- GERANIUMS, 12 best, leading varieties, 8 new kinds, large plants, mixed or named. 4 in. pots, \$7.00 per 100. AGERATUM, dwarf, best blue variety, 4 in. pots, \$7.00 per 100; 2 1/2 in., \$3.00 per 100. HELIOTROPES, 4 in. pots, \$6.00 per 100. NASTURTIUM, dwarf, all colors, \$7.00 per 100. FUCHSIAS, mixed, good varieties, 6 to 8 1/2 in. pots, 16c. to 20c. each; 4 in. pots, \$1.20 per doz. CANNAS, 10 good varieties, 4 in. pots, \$8.00 to \$10.00 per 100. HONEYSUCKLE, 6 in. pots staked up, 16c. each. DAISIES, Queen Alexandria and Marguerite (white), 6 1/2 to 6 in. pots, 20c. to 25c. each. MUSK PLANTS or MINULUS MOSCHATUS, 2 1/2 in., \$2.00 per 100. PETUNIA, single California giant, ruffled or blotched, 3 in. pots, \$4.00 per 100. Inimitable or dwarf variegated, 2 1/2 in. pots, \$3.00 per 100. VERBENAS, all shades, 2 1/2 in. pots, \$3.00 per 100. COLEUS, Queen Victoria, Golden Badder, Verschaffeltii, 2 1/2 in. pots, \$3.00 per 100. Fancy varieties, 2 1/2 in. pots, \$2.60 per 100. PHLOX DRUMMONDI, 2 1/2 in. pots, \$3.00 per 100. IVY, English or hardy, 12 in. long, 4 in. pots, \$8.00 per 100. IVY, German or Parler, 2 1/2 in. pots, \$3.00 per 100. CENTAUREA GYMNOCARPA or Dusty Miller, 2 1/2 in. pots, \$3.00 per 100. CUPHEA or CIGAR PLANT, 2 1/2 in. pots, \$3.00 per 100. LOBELIA, dwarf or trailing, 2 1/2 in. pots, \$3.00 per 100. SWEET ALYSSUM, Little Gem, have 10,000 of them, 2 1/2 in. pots, \$3.00 per 100. MARGOLD, Eldorado Africana and Gold Ring, dwarf, 3 in. pots, \$4.00 per 100. COSMOS GRANDIFLORA, white, red or pink, three plants in a 3 in. pot, separate colors, \$3.00 per 100. SALPIGLOSSIS VARIABILIS (European), 2 1/2 in. pots, \$3.00 per 100.

- THUNBERGIA or BLACK-EYED SUSAN, 2 1/2 in. pots, \$3.00 per 100. MAURANDYA BARCLAYANA, 2 1/2 in. pots, \$4.00 per 100. ARAUCARIA ROBUSTA COMPACTA, Spring 1906 importation. Have about 300 of this variety, only specimens, perfect flowers. Adapted for the lawn, front porches, cottages, hotels, etc. 7 in. pots, 4-6 tiers, 6 year old, 20 to 28 in. high, as broad as long, price, \$1.75-\$2.00-\$2.50 to \$3.00 each. ARAUCARIA GLAUCA, large specimens, 6 year old, 36 to 40 in. high, 36 to 40 in. wide, 6 to 8 tiers, \$3.00-\$4.00-\$6.00 each. ARAUCARIA, new importation. First consignment about 6,000, now arrived (Saturday, May 4), per steamer Manitou from Antwerp, and thereafter by every steamer up to June 1. Araucaria excelsa, in their original packing, left planted in pots, 3 tiers, 10 to 12 in. high, 60c., larger sizes, 60c.-75c.-\$1.00 to \$1.26 each. Robusta, Compacta and Glauca from \$1.00-\$1.25 to \$1.60 each. COCOS WEDDELIANA, 3 in. pots, 16 to 18 in. high, 16c. to 20c. each. ASTERS, Enchantress, new, large blooming varieties, 2 in. \$4.00 per 100. Victoria, 8 shades, separate or mixed, \$3.00 per 100.

Don't Forget We Lead the World in MOON VINE:

Watch and be careful; don't buy Morning Glory for Moon Vine. We grow only the best varieties, A. W. Smith's hybrid or ipomea Noctiflorum, for which we have during the past 20 years a world wide reputation. We ship every Spring from 20,000 to 26,000 plants to every state and territory in America as far as Mexico, 4 in. pots, nicely staked up, 30 to 36 in. high, \$12.00 per 100; 2 1/2 in. pots, nicely staked up, \$6.00 per 100. NOTICE! Above Moon Vine is the earliest variety in existence, blooms freely, in big clusters, pure white; waxy flowers, very fragrant and as big as a saucer. Cash with order please. All goods must travel at purchaser's risk.

GODFREY ASCHMANN, Wholesale Grower and Shipper of Pot Plants, 1012 West Ontario St., Philadelphia, Pa.

SEND FOR CATALOGUE WOOD BROS., Fishkill, N. Y.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

The Largest Growers of Chrysanthemums in America

Rooted Cuttings out of sand.

White		Per 100	Yellow		Per 100
October Frost, finest early white.....	\$7.00		Yellow Jones.....	2.00	
Estelle.....	1.60		Yellow Eaton.....	2.00	
Geo. S. Kalb.....	1.60		Col. Appleton.....	1.80	
Mrs. Robinson.....	1.60		Mrs. Geo. Beech.....	2.00	
T. Eaton.....	2.00		Col. Italia.....	1.60	
Mayflower.....	1.60		Chas. Cronin.....	2.00	
Wanamaker.....	1.60		Percy Plumridge.....	1.60	
Ivory.....	2.00		Maj. Bonnafton.....	1.60	
Mrs. Swinburne.....	2.00		Oct. Sunsbine.....	1.80	
C. Touset.....	1.60		Mounier.....	1.60	
Mrs. Jerome Jones.....	1.60		Golden Beauty.....	3.00	
Polly Rose.....	2.00				
J. Nonin.....	2.00				
Yellow		Per 100	Pink		Per 100
Monrovia.....	2.50		L. Filkins.....	1.60	
Golden Chadwick.....	3.00		Pink Ivory.....	2.00	
Yellow Mayflower.....	1.50		Rostere.....	2.00	
			Lady Harriet.....	3.00	
			Glory of Pacific.....	1.60	
			Wm. Duckham.....	1.60	
			Mrs. Perrin.....	1.50	

Roses from 2 1/2 inch pots

	Per 100	Per 1000	Per 100	Per 1000	
Brides.....	\$3.00	\$25.00	Rosalind Orr English.....	\$4.00 \$30.00	
Bridesmaids.....	3.00	25.00	Chatenay.....	3.00 25.00	
Richmond.....	3.00	25.00	Uncle John.....	3.00 25.00	
Pink(cont'd)		Per 100	Red		Per 100
Mrs. Mary Mann.....	2.00		Intensly.....	1.60	
Marie Liger.....	1.50		Oakland.....	1.60	
Monogram.....	1.50		Black Hawk.....	1.60	
Cash.....	1.60				
Dr. Enguehard.....	1.60				
M. F. Plant.....	1.50				
J. K. Shaw.....	1.50				
V. Morel.....	1.50				

WIETOR BROS., Wholesale Growers of Cut Flowers 51 Wabash Ave. CHICAGO

Chrysanthemums

Out of 2 1/2 in. pots, \$4.00 per 100; Pink and White Ivory, Pacific, Adelia, Jerome Jones, Yellow Jones, J. K. Shaw, Leach, Maceo, Polly Rose, Byron, Bergman, \$5.00 per 100; Jennie Nonin, Yellow Duckham, White Chadwick, McArthur. Rose out of 3 in. pots: Killarney, on own roots, fine stock, \$6.00 per 100; \$55.00 per 1000.

POINSETTIAS, out of 2 1/2 in. pots. \$5.00 per 100.

Herman C. Steinhoff WEST HOBOKEN, N. J.

Looking for a good, late, Yellow MUM? Invest in

GOLDEN DOME

There is nothing to equal it. Stock ready now. \$35 per 100; \$5 per dozen. S. S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa.

CHRYSANTHEMUMS

Jerome Jones, Enguehard, Shaw, Touset, Nonin, Willowbrook, Pacific, Appleton, Intensly, Byron, R. C. \$2.00 per 100. Strong 2 1/2 in. Jerome Jones, \$2.00 per 100. Clifford Burton DAHLIA ROOTS, \$6.00 per 100.

THE FLORISTS' EXCHANGE, Franklin & St. Paul Sts., BALTIMORE, Md.

CHRYSANTHEMUMS

October Frost, 2 1/2 in., \$3.00 per 100. \$25.00 per 1000. White Shaw, 2 1/2 in., \$3.00 per 100; \$25.00 per 1000. Testout, Ivory and Yellow Bonnafton, 2 1/2 in., \$2.00 per 100; \$20.00 per 1000. White Duckham, \$2.00 per doz.; \$12.00 per 100. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

CHRYSANTHEMUMS ROOTED CUTTINGS

10,000 Ivory, 5000 Alice Byron, 1000 each T. Eaton, Enguehard Whilldin, M. Mann, M. Denn, C. Touset, Robt. Halliday, Cremo, M. Bonnafton, Yellow Jones and Glory of the Pacific, \$2.00 per 100; \$16.00 per 1000. Cash with order or C. O. D.

WM. SWAYNE, Box 226, Kennett Square, Pa.

CHRYSANTHEMUMS CARNATIONS and ROSES

Novelties and all the standard varieties. MOSCHOSMA RIPARIUM, a valuable new Christmas flowering plant. Write for descriptive circular and price list.

CHARLES H. TOTTY, Madison, N. J.

A RECORD TO BE PROUD OF

The Florists' Hall Association has paid 1,040 losses amounting to \$102,000.00 For particulars address JOHN C. ESLER, Saddle River N. J.

Foliage Plants for Outdoors.

Suburban homes are without doubt made immensely attractive by planting bright flowering plants in beds and borders on the grounds; but for the man who leads a strenuous business life in a crowded city and has time only for an occasional period of rest and relaxation in his Summer home, the florist may, if he has the option in planting, vary the outdoor decorations so that the owner may find in the contemplation of the whole something to soothe his racked nerves. For this purpose foliage plants suitable for outdoor planting are not only appropriate but they are also capable of producing soft and pleasing tropical effects, and that at a very reasonable cost.

Although cannas, as we know them now, are by no means confined in their usefulness to what their foliage can effect, still when they are planted in masses they fill that part of the bill to perfection; besides the choice blooming varieties are very desirable for their flowers, especially when beds are planted with only one variety in a bed. The common tall growing ones are, if anything, better for foliage effects.

Other plants that can advantageously be used for this kind of work are Musa Ensete (Abyssinian banana) a grand plant for massing or for single specimens; Caladium esculentum (elephant's ear), very desirable for tropical effects; Ricinus communis (castor oil plant), excellent for various situations. Aralias, crotons, dracaenas, acalyphas, are all suitable when hardened and when placed in somewhat sheltered situations. Coleus in variety are indispensable for this kind of work. D. M.

During 1906 orchids to the value of \$128 were exported from Venezuela to the United States.

Chrysanthemums

Balfon, Pink Coombs, Nellie Pocket, Dr. Enguehard, Maud Dean, Appleton, Wm. Duckham, C. Touset, Robinson, Yellow Sport of Queen, 2 in. pot plants, \$2.00 per 100.

Wenonah Carnation Gardens, Wenonah, N. J.

GERANIUMS

Well Grown Stocky Plants, 4 in., \$8.00 per 100, NUTT, DOUBLE GEN'L GRANT, JOHN DOYLE. We ship in light crates, well packed.

S. J. REUTER Westlerly, R. I.

Commercial Violet Culture Price, \$1.50

The Florists' Exchange, 2-8 Duane St. New York

GERANIUMS CANNAS

10 Varieties, my selection, 3-3 1/2 in pot \$5.00
 Alternanthera, red and yellow..... 2.00
 Asparagus Sprenger, 2 1/2-in. pot..... 2.00
 Asparagus Plumosus Seedlings..... 1.26
 Asparagus Plumosus, 2 1/2 in. pot July 1. 2.00

JOS. H. CUNNINGHAM, DELAWARE, O.

GERANIUMS

5 in., in bloom, fine, Nutt, Hill, Perkins, Jean Vlaud, \$20.00 per 100. 3 in., Nutt and Ricard, \$6.00 per 100. Ivy Geraniums, 3 in., in bud and bloom, \$8.00 per 100; 2 1/2 in., \$3.50 per 100. SALVIA, 4 in., \$8.00 per 100. Sweet Alyssum, 2 1/2 in., \$2.50 per 100. ALTERNANATHERAS, 2 1/2 in., red, pink and green, \$2.50 per 100. CANNAS, assorted, M. Berat, Austria, Crown Prince of Italy, 4 in., \$5.00 per 100. CALADIUM, 4 in. pots, \$10.00 per 100; 5 in., \$20.00 per 100. HELIOTROPE, 3 in., \$6.00 per 100; 4 in., \$8.00 per 100. ROSE GERANIUMS, 3 in., \$6.00 per 100. COBEA SCANDENS, 3 in., \$6.00 per 100. GERMAN IVY, 2 1/2 in., \$2.50 per 100. COLEUS, assorted, 2 in., \$2.50 per 100. DUSTY MILLER, \$2.50 per 100. PENNisetum, \$2.50 per 100. SANTOLINA, 2 1/2 in., \$2.50 per 100; 3 in., \$3.50 per 100. ROSES, Bride'smaid, 2 1/2 in., \$3.50 per 100. Chatenay, Golden Gate, 2 1/2 in., \$4.00 per 100. Richmond, 2 1/2 in., \$3.00 per 100. 25c. per crate for crating. Cash for C.O.D.

W. J. @ M. S. VESEY, Fort Wayne, Ind.

GERANIUMS Ready for bedding out

S. A. Nutt, Marquis de Castellane, La Favorite, A. Ricard, John Doyle, Beauty de Poitevine, Jean Vlaud, Mme. Juulin, Alice of Vincennes, Mrs. E. G. Hill, 3 1/2 in. pots, \$5.00 per 100. HELIOTROPE, two varieties, 3 1/2 in. pots, \$5.00 per 100. CANNAS, pink bloom, Martha Washington and Anna Duke, 4 in. pots, \$5 per 100. VERBENAS, fine plants, in bud and bloom, 3 in. pots, \$2.50 per 100. BEGONIA Metallica 3 in. pots, \$4 per 100. PHLOX Drummondii, 3 in. pots, \$2.50 per 100. IVY, German, Garden Glory and Incomparable, 3 1/2 in. pots, \$5.00 per 100. Single PETUNIAS, 3 in. pots, \$2.50 per 100. HELIOTROPE, two varieties; AGEKATUM, PARLOR IVY, VINCA Variegata, SALVIA Splendens, 2 1/2 in. pots, \$2.00 per 100. Cash with order.

WM. J. CHINNICK, TRENTON, N. J.

GERANIUMS Fine 4 in. stock, \$6.00 per 100; \$60.00 per 1,000. CALIFORNIA VIOLETS, well rooted, cold frame grown, \$1.00 per 100; \$8.00 per 1,000. CHRYSANTHEMUMS, J. Nonin, fine plants, cold frame grown, \$3.00 per 100; \$25.00 per 1,000. Cash with order. Idlewild Greenhouses, 89 So. Main St., Memphis, Tenn.

100,000 Geraniums

Finest stock in the country; most in bud and bloom. Poitevine, Nutt, Buchner, Ricard, Castellane, etc., heavy 3 in., \$3.00; 3 1/2-4 in., \$4.00; extra large, \$5.00 per 100. 8 varieties for stock true to name, strong 3 in. and 4 in., \$25.00-\$35.00 per 1000. D. Grant, strong, 3 in., \$2.50 per 100; strong 2 in., in variety \$2.00 per 100; second size, 3 in., \$3.00 per 100. C. Lene, yellow, red and fancy, strong, 2 in., \$1.75 per 100; \$16.00 per 1000. 25,000 Salvia Bonfire and Splendens, large, 2, 3 and 4 in., \$1.75, \$2.50 and \$4.00 per 100. Surplus Pots, Standard, 2 in., 3 in., 4 in., and 5 in., at \$2.00, \$3.00, \$5.00 and \$10.00 per 1000, packed. Alternanthera, red and yellow, Mme. Sallerai Geraniums, strong 2 in., \$2 per 100. Cannas, strong 3 in., \$3.50 per 100. Cash please. All stock guaranteed No. 1 WM. S. HERZOG, MORRIS PLAINS, N. J.

GERANIUMS

In bud and bloom, best var., 4 in., \$2.50 per 100; out of 2 1/2 in., \$2.00 per 100. ASTERS fine stocky Plants grown from the best seed in the Market, 40c. per 100; \$2.50 per 1000; Semples and Queen of the Market in White, Red, Pink, and Lavender. TOMATO PLANTS, fine plants Earliana, L. Beauty, Stone and Jewel, \$2.00 per 1000. CABBAGE, all kinds, \$1.00 per 1000.

J. C. Schmidt, Bristol, Pa.

GERANIUMS

3 in., \$2.50 per 100; 4 in., \$6.00 per 100. BOSTON FERNS, fine, 3 in., \$5.00 per 100. CHRYSANTHEMUMS, 2 1/2 in., \$2.00 per 100. SALVIA and HELIOTROPE, 2 1/2 in., \$2.00 per 100. CANNAS, \$1.50 per 100. Cash with order please.

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GERANIUMS

RICARD, POITEVINE, VLAUD, DOYLE, 3 in., bushy plants, \$4.00 per 100. Rooted cuttings, \$10.00 per 1000. Cash with order. PETER BROWN, Lancaster, Pa.

GERANIUMS

S. A. NUTT, in bloom, \$6.00 per 100. Cash. HENRY EICHHOLZ, Waynesboro, Pa.

ROSES = CHRYSANTHEMUMS = BOUVARDIA = COLEUS

GRAFTED ROSES

We offer this year the following assortment: Bride, Bridesmaid, Kate Silene, Ivory, Gen. McArthur, Bon Moulton, Killarney, Mme. Caroline Testout, Mme. Hoste, Marechal Niel, Richmond, Souvenir De Wootton, Tom Field, Uncle John.

The above grafted from 2 1/2 inch pots, \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, reported from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

The Ruby Rambler, \$2.50 per doz.; \$15.00 per 100.

American Beauty. On own roots, from 2 1/2 inch pots, \$8.00 per 100; \$76.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000. June delivery.

Mme. Abel Chantenay, own roots 2 1/2 inch pots, \$6.00 per 100; \$50.00 per 1,000.

CHRYSANTHEMUMS

WHITE

Early—Polly Rose, Willowbrook, White Shaw.

Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka.

Late—Mrs. McArthur, Chadwick, Adela.

PINK

Early—Glory of the Pacific.

Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, A. J. Balfour, William H. Duckham, Dr. Enguehard.

Late—Mand Dean, The Harriott.

YELLOW

Early—Monrovia.

Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham.

Late—Golden Wedding, Major Bonaffon, H. W. Relman.

RED

Merstham's Red, Cullingfordii, Matchless.

Rooted Cuttings, \$2.00 per 100; \$15.00 per 1,000.

NEWER VARIETIES

From 2 1/2 in. pots, \$6.00 per 100. Rooted Cuttings, \$4.00 per 100.

Beatrice May, mid-season white

Mrs. James Marshall, mid-season pink.

Mayor Waaver, mid-season pink.

Mrs. Swinburne, late white.

Jaannia Nonin, late white.

Early Snow, early white.

Boaler, early pink.

Old Gold, late yellow.

October Frost, early white.

BOUVARDIA

Humboldt Corymbiflora, from 2 1/2 inch pots, \$5.00 per 100; \$45.00 per 1,000. This is the large White Jessamine flowered. The best variety in cultivation.

COLEUS

VERSCHAFFELTH, Golden Queen, Golden Bedder, Fire Brand, Queen Victoria, fancy Coleus in variety, 2 inch pots, \$2.90 per 100; \$15.00 per 1,000.

VERSCHAFFELTH, Golden Queen, Golden Bedder, 3 inch pots, \$2.00 per 100.

The above in rooted cuttings 60c. per 100; \$5.00 per 1,000.

STEVIA

2 1/2 in. pots, \$2.60 per 100; \$20 per 1000.

SALVIA, AGERATUM, HELIOTROPE, 2 inch pots, \$2.00 per 100; \$16.00 per 1,000.

A. N. PIERSON, CROMWELL, CONN.

PHOENIX RECLINATA

6-in. pots, 20 to 24 in. high above pot, 2 ft. spread, 75c each. 8-in. pots, 24 to 30 in. high above pot, 3 ft. spread, \$1.50 each. 9-in. tubs, 36 to 42 in. high above tub, 4 ft. spread, \$2.50 each. Fine, strong plants. Have only a limited number and have put the price low to close them out.

JOSEPH HEACOCK COMPANY, Wyncote, Pa.

DRACAENA INDIVISA

Fine stock, 6 in., 36c. and 50c. each. ENGLISH IVY, 4 in., \$10.00 per 100. EGG PLANTS, 4 to 6 in. high, 2 1/2 in. pots, \$2.60 per 100. SALVIA BONFIRE, 2 1/2 in., \$2.60 per 100. FERNS, assorted, \$3.00 per 100.

H. WESTON, Hempstead, N. Y.

DRACAENA INDIVISA

Nice plants. 4 in., \$15.00 per 100; 5 in., \$25.00 per 100; 6 in., \$35.00 per 100. CANNAS, Bronze, \$6.00 per 100; Green, \$8.00 per 100.

T. W. A. SMITH, Biddeford, Me.

GERANIUMS GERANIUMS

The following varieties in 4-in. pots, in bud and bloom, in fine condition:

S. A. Nutt, Besants Poitevins, La Favorite, John Doyle, Bruanti, Mar. Castellans, Trago, Mme. Bochner, Richard Brett, Ricard, Francis Perkins, Jean Viand, Double Grant, Mar. De Montmort, and several others, \$6.00 per 100. The selection of sorts to remain with us.

Cash must accompany all orders. J. E. FELTHOUSEN, 154 Van Vranken Ave. SCHENECTADY, N. Y.

FUCHSIA

Little Beauty, 2 in., 6c. Mixed, standard varieties, 3 in., 6c.

FERNS, Boston, 2 1/2, 3, 5 and 6 in., 4c., 8c., 25c. and 35c. Piersoni, 4 and 5 in., 12c. and 25c. Scottii, 4 and 5 in., 12c. and 25c. Barrowsii, 2, 4 and 5 in., 10c., 15c. and 35c. ADIANTUM CROWEANUM, 6 and 7 in., 50c. and 75c. VINCA Major, green, 2 in., 6c. DRACAENA INDIVISA, 5 and 6 in., 20c. and 30c. ASPARAGUS Sprengeri, 3 in., 4c. BEGONIA Thurstonii, 2 in. and 4 in., 4c. and 7c. GERANIUMS, in bloom. Standard varieties, 3 in., 4 in., 5c. and 8c. SAL-LEROI, 2 in., 4c. ALYSSUM, Little Gem, 2 1/2 in., 2c. COLEUS, Verschaffeltii, Firebrand, Golden Bedder and mixed, 2 1/2 in., 2c. ALTERNANTHERAS, Aurea Nees and Brilliantissima, 2 1/2 in., 2c. CENTAUREA Gymnocarpa, 2 1/2 in., 2c. 1000 rate on this 2 1/2 in. stock, \$17.50. POINSETTIAS, June delivery, 2 1/2 in., \$5.00 per 100; \$45.00 per 1000; 3 in., \$7.00 per 100; \$65.00 per 1000.

BAUR FLORAL CO., Erie, Pa.

CYCLAMEN

Splendens Giganteum Hybrids This strain has no equal or better, in five true colors, including fringed varieties, well grown plants, from 2 1/2 in. pots \$5.00, from 3-in. pots \$7.00 per 100. Satisfaction guaranteed.

PAUL MADER, East Straudsburg, Pa.

TUBEROUS BEGONIAS

4 in., in bloom, \$10.00 per 100. Salvia, 4 in., \$6.00 per 100; 2 1-2 in., \$2.50 per 100. Strong runners of Scottii Fern, \$30.00 per 1000. COLEUS, Golden Bedder, 2 1-2 in., \$2.50 per 100. LARCHMONT NURSERIES, Larchmont, N.Y.

PLEASE STOP MY ADVERTISEMENT AND SEND BILL TO DATE. I AM WELL PLEASED WITH THE RESULTS. WILLIAM F. HALSEY, SOUTHAMPTON, N. Y.

ROBERT CRAIG & CO. ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS Market and 49th Sts. PHILADELPHIA, PA.

ASPARAGUS SPRENGERI

2 in., strong, stocky plants, \$2.50 per 100; \$20.00 per 1000.

DAHLIAS, best varieties, assorted, \$3.00 per 100.

DEAN FERRIS, Peekskill, N. Y.

Dracaena Indivisa

\$4.00 to \$9.00 per doz.; extra strong plants. HERMOSA ROSES, 5-5 1/2 in. pots, \$25.00 per 100.

A. L. MILLER, Jamaica Avenue, Brooklyn, N. Y.

GERANIUMS

S. A. Nutt, Telegraph end Mme. Buchner (white), 4 in., fine stock, to bud and bloom, \$8.00 per 100.

VINCA, variegated, 5 in., 15 to 20 runners, \$2.00 per doz.; \$16.00 per 100.

R. ENGELMAN & SON, Pittsfield, Mass.

Hydrangea Utaksa, Asparagus Sprengeri, Vinca Variegata, Smilax

Strong, clean stock, out of 2 1/2 in., \$2.50 PER 100.

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PLANT CULTURE PRICE \$1.00 THE BEST BOOK FOR THE PLANT GROWER. A. T. DE LA MARE PTC. & PUB. CO. LTD., 2-3 DUANE STREET, NEW YORK

FERNS FERNES

MY SPECIALTY

CIBOTIUM SCHIEDEL, King of Ferns; looks, grows, keeps and sells good. 3-in., \$3.00 per doz.; \$20.00 per 100. 4 in., 35c. each; \$4.00 per doz.; \$30.00 per 100. 7 in., \$1.60 each; \$19.00 per doz.; \$150.00 per 100. For larger sizes, prices on application.

ADIANTUM PARLEYENSE, 2 in., \$1.20 per doz.; \$9.00 per 100; \$85.00 per 1000.

ADIANTUM RHODOPHYLLUM, 2 in., \$4.00 per 100.

ADIANTUM LATHAMI, 2 in., \$4.00 per 100.

Fresh, home-grown fern spores always on hand. Write for list. Orders booked now for Fern Seedlings for June, July and August delivery. Over one million in stock, \$1.00 per 100; \$8.50 per 1000. Shipped in or out of flats.

J. F. ANDERSON, Short Hills, N. J.

FERNS

Assorted, for jardiniere, strong, healthy plants, from 2 1/2 in. pots, \$2.50 per 100; \$25.00 per 1000; 500 at 100 rate.

Pteris Adiantoides, 3 in. pots, \$5.00 per 100. Cibotium Schiedel, 6 in. pots, \$1.00 each.

FRANK N. ESKESEN, Main St., Madison, N. J.

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Are leaflets written by practical men especially for the use of amateur customers. If you have a counter trade, either in plants, seeds, flowers or bulbs, you should have a supply of these leaflets on hand to present to your customers when they seek cultural information about their purchases.

(The leaflets embrace over forty subjects.) We can supply them at \$2.50 per 1000, or 500 for \$1.50 and can make a reduction of those prices on large quantities.

At a small extra cost we can put your imprint on each leaflet. Try a thousand and see what a help they are in selling goods.

THE FLORISTS' EXCHANGE P. O. Box, 1697 NEW YORK

John Bader, MT. TROY, ALLEGHENY, PA.

Boston, Piersoni, Barrowsii, Elegantisima, 4 in., 51c.; 5 in., 25c.; 6 in., 50c.; 7 in., 75c.; 8 in., \$1.00, \$1.25; 9 in., \$1.25, \$1.50.

Whitmani, 4 in., 35c.; 5 in., 50c.; 6 in., 75c., \$1.00; 7 in., \$1.50, \$2.00; 8 in., \$2.50, \$3.00, \$3.50.

Kentia, 4 in., 25c.; 5 in., 50c.; 6 in., \$1.25, \$1.50; large plants, \$2.00 to \$35.00 each.

Latanias, 2 in., 3c.; 3 in., 6c.; 4 in., 15c.; 5 in., 25c.; 6 in., 50c.

All kinds of bedding plants at reasonable prices. Hardy Rhododendrons, Azaleas, Dutchman's Pipe Vines, Clematis, etc., Boxwood from 20c. each to \$5.00.

Whitmani Fern

2 1/2 in., \$10.00 per 100. Scottii Ferns, 2 1/2 in., \$5.00 per 100.

Hardy Ivy, 3 branches, 10 to 18 inches in length, 3 in. pots, \$6.00 per 100.

Kentia Forsteriana, 4 in. pots made-up, strong and bushy, \$25.00 per 100. 5 in. pots, made-up strong bushy, \$50.00 per 100. No order for less than 10 plants accepted.

CHAS. H. CAMPBELL, 3601 GERMANTOWN AVE., PHILA., Pa.

NEPHROLEPIS

Whitmani, 2 1/2 in., \$10.00 per 100. Boston, 2 1/2 in., \$3.00 per 100.

Henry H. Barrows & Son, Whitman, Mass.

300,000 ASTER PLANTS Queen of the Market, in white, pink and mixed colors; late branching, white, pink, lavender and mixed colors; Ostreich Feather, Ray Aster and Victoria, strong, stocky plants, ready to plant out at \$2.50 per 1000; in 5000 lots, \$2.00 per 1000.

Gustav Pitzonka, Bristol, Pa.

REVIEW OF THE MARKET

NEW YORK.—The weather was ideal for Memorial Day, and the florists situated near the cemeteries had all the business they could possibly take care of. All kinds of bedding and flowering plants were in good demand, but in cut flowers it was the shorter stemmed stock chiefly that was called for. In the city the stores did not experience any extra rush of trade. The wholesale men were through, and the majority of them closed their stores before mid-day.

The continued cool weather seems to be good for the cut flower business, as all classes of stock are bringing much better prices than is the rule during the first few days of June. On Saturday last there was quite a brisk demand for almost everything, roses and carnations particularly clearing out well. Since then, while there has been a gradual decline in the call, prices for good stock are holding up well though, in roses, there is, as is usual at this time of the year, quite a quantity of mildewed stock, which has to be cleared out at anything the wholesalers can get for it.

Lilies are becoming much more plentiful than they were, and prices have diminished materially from last week's quotations. Lily of the valley has been quite scarce for a few days, and values have soared somewhat.

Peonies are coming in in quantity, and from 75c. to \$1.00 per dozen has been obtained for some of the best. Sweet peas are plentiful, and some very fine grade stock is reaching the market, a few lots fetching as high as 20c. per bunch. Gardenias are still plentiful, so much so, in fact, that they are at times used for funeral work. The supply of orchids is about equal to the demand, with no appreciable change in values.

CHICAGO.—This important commercial horticultural center witnessed last week one of the most sensational periods in its history, and certain it is that at this season of the year nothing approaching the prevailing conditions was ever before experienced. As at Easter when the extreme and unseasonable heat produced an unheard of holiday glut, the weather was to blame for it all, but on the recent occasion the long continued cold spell, freezes and frosts, which had so ruined, damaged, or greatly delayed all outdoor Spring flowers which generally play so important a part at this annual floral festival and the unusual absence of the May sun which deferred the development of the protected products, brought about a stringency in the market which was most bewildering even to the hardiest and most thoroughly experienced traders on the street.

The shadow of the coming events was cast several days in advance and by the close of the preceding and the opening of last week it became evident that conditions were to be wonderfully transformed from the situation which had prevailed almost uninterruptedly since Easter, but it is doubtful if the wisest prophet could have foretold much in advance the predicament in which many were placed between Tuesday morning and Thursday in the vain attempt to procure stock to fill orders already accepted, to say nothing of the constant influx of telegraphic and mail orders from all parts of the country dependent on this market and which was very generally afflicted with the same weather conditions as prevailed here.

Everything was in demand and everything was short. Rose orders were refused, cut, or in some cases jasmine or even poeticus ornatus narcissus were substituted.

Carnations, which probably were first to display evidence of the approaching paucity and which might be termed the barometer of the situation throughout advanced steadily until from Tuesday noon on, from \$4 to \$6 per hundred were the ruling prices, even splits being in demand at figures varying from \$2 per hundred for whites to \$3 and \$3.50 per hundred for Lawson and other colored sorts.

Peonies of a quality which ordinarily would fetch half a dollar per dozen when in bloom were greedily taken up at a dollar per dozen, and on Wednesday at 25c. more; and quantities which were in bud as hard as bullets were sold where three, four, or five in a bunch of a dozen showed a tendency to burst.

Apple tree blossoms, hawthorn, daisies and other wild flowers and shrubs found a ready market at prices varying with the avarice of the sellers and the exigency surrounding the purchaser.

The Spring crop of ferns which should now be sufficiently matured to

be readily available, is said to be but a few inches in height, and the few remaining in cold storage and the new growth brought to the market from new and distant sources were inadequate to fulfill requirements, and the record price of \$5 per thousand ruled on the best goods which graded down \$3 per thousand according to quality.

The market held firm throughout the week but opened Monday much weaker both in prices and demand, though some houses were very busy with shipping orders. There seems, however, to be a prospect of a continued brisk business for some time to come. Certain it is that but a small proportion of the hundreds of thousands of peonies, which generally form such an important factor, fresh and from cold storage during June and July, will be in evidence this season, and from present appearances greenhouse flowers will receive but little competition from outside products during the immediate future.

BOSTON.—Memorial Day trade was very satisfactory in this city, and prices were good for this season, all goods selling well. The weather was cool, consequently flowers kept and could be handled in much better condition than is generally the case for this trade.

There seems to be quite a lull in business among the retailers; between class days, weddings and other functions there is call for lots of flowers, and while prices have not kept up to the figures of a week ago, still they are generally satisfactory. Roses are plentiful enough, but there is most demand for the medium grades. Good grades of Richmond and Killarney are to be seen, and there are now some fine blooms of Summer sorts, like Souvenir du President Carnot and Kaiserin Augusta Victoria. American Beauty are still good, and as there is no appearance of outdoor roses, yet Beauty, of course, are in brisk demand.

Carnations still sell well and good grades of flowers are to be had. Lily of the valley is a favorite flower, having a steady demand for some of the best. Gladioli are good, and sweet peas continue plentiful. There has been a good call recently for hardy cut ferns and other greens.

PHILADELPHIA.—There was quite a good business done the past week, and the quality of flowers keeps up very well. American Beauty roses are plentiful and selling well; \$4 per dozen has been obtained for some choice stock and \$2 to \$100 is the price at which most of it is sold. Tea roses are very plentiful; most of the stock goes at from \$3 to \$8 per 100, some choice Richmond and Mme. Abel Chatenay selling at \$12 to \$15 per 100.

Carnations are plentiful and are selling at \$2 to \$4 per 100. Lily of the valley has been scarce on some days on account of shipping demands; prices range from \$4 to \$5 per 100.

Peonies have been in good demand for wedding decoration, at from \$6 to \$10 per 100; Southern stock only is on hand so far. Daisies experience a brisk call at 75c. to \$1.50 per 100. Gladioli go at \$1.50 per dozen for the best; sweet peas, 50c. to \$1 per 100, with stock plentiful and mostly of poorer grades. Cattleyas are in fair supply at 60c. and 75c. per flower. Gardenias are plentiful, selling at \$5 to \$10 per 100. Smilax sells at \$15 to \$20; asparagus, 50c. per 100.

ST. PAUL.—Memorial Day business was the largest we have had in years; in the larger stores one was reminded of an Easter rush. The call was very heavy from the country and the city trade far beyond expectations, consequently adequate preparations were not made and the majority of the dealers were in a bad way, for cut flowers especially. Carnations seemed to lead in demand and the price had to be held high, it being impossible to get only fair supply. Wholesalers got from \$50 to \$100 per 1000, the general price averaging between \$50 and \$60 per 1000, but in some cases the writer knows of retailers paying 10c. a piece for carnations, which must be admitted as exceptional for Memorial Day and by some was considered exorbitant. Roses were plentiful, averages stock selling for \$1.50 and \$2; specimen stock brought \$3 and \$4 per dozen. Early Spring flowers, such as tulips, peonies, etc., did not seem to sell very well, possibly on account of not being in good condition.

Plant sales were indeed heavy. Pansies were very scarce, the cold backward Spring and dull weather prevented them blooming and unless in flower they could not be sold at any price.

PAUL.

ST. LOUIS.—The trade experienced quite a demand on Memorial Day. The day previous quite a lot of shipping was done, and Thursday the local demand for cut flowers, bouquets and designs was, it is said, much better than last year's, with increased prices. The wholesalers had no trouble in disposing of their consignments early in the day and closed up shop in the afternoon. The plant stands at Union market did a large business in blooming plants of all kinds; also the greenhouse men opposite the cemeteries.

Stock in the best grade of roses is scarce, but there seems to be plenty of second and thirds in the market. Prices run about \$5 for the extra fancy; \$4 to \$6 for firsts and \$2 to \$3 for the short-stemmed ones. American Beauty are not of particularly good quality at present; extra long, fancy bring \$4 per dozen, shorts, quite plentiful, running from \$3 to \$10 per 100. Enchantress, Mrs. T. W. Lawson, Boston Market, when extra fine, bring \$4 per 100; other grades, \$1.50 to \$3. Cardinal is the best of the reds now coming in.

Harrisii lilies and callas are becoming scarce. There is a good supply of lily of the valley, which will be in big demand this month, as June weddings will be numerous. Cape jasmines sold well all the past week at 50c. and 75c. per 100. Peonies about here are late, and many are being shipped in which sell at \$4 to \$5 per 100. Other outdoor stock is as yet scarce, as the weather has been very cold; still this material never sells well when other flowers are plentiful.

The market is well supplied with grades of all kinds. Dagger ferns are coming in of better quality; fancy ferns are scarce. Smilax and asparagus have a good demand.

ST. PATRICK.

INDIANAPOLIS.—Memorial Day business assumed record breaking dimensions this year. Garden flowers were not obtainable, so the masses were forced to go to the florist. The cold weather, which had been so damaging to the bedding department, enabled the growers to apply the store men with unusually high grade cut flowers. Most of the stock was as fine as is generally produced in March or April. Carnations and roses, of good size and color, were on hand in liberal quantities. Several of the stores were sold out by Wednesday evening, and almost frantic appeals were made in vain as all the smaller growers retained what was on hand for retail use.

Peonies did not arrive on time. A quantity shipped from Kentucky and Tennessee brought \$8 to \$10 per 100. Immense cuttings of Harrisii filled in admirably at \$12.50 to \$15 per 100. Carnations, lavender and white, also feverfew, lasted throughout at prices higher than obtainable in the past.

Poppies, French and Spanish iris, Spiraea Van Houttei and lily of the valley, which had been grown in protected places, were welcome additions. Canterbury bells, in all the delicate shades, again proved their worth, both as cut flower and specimen plant, at this season; 75c. to \$3 a plant is a fair retail price. Many sweet peas were on hand for Memorial Day, and they sold quickly at 75c. to \$1 per 100; the demand for them continues. From \$4 to \$6 per 100 seemed like a high price for carnations last week, but all were readily disposed of; even many orders remained unfilled.

Cape Jasmines are falling into disfavor, and do not occupy the position held for so many years at this time; more salable and higher grade stock is gradually displacing them.

I. B.

Indianapolis.

News Notes.

President Roosevelt, in placing a laurel wreath upon the late President Harrison's grave at twilight Memorial Day, certainly gazed upon beautiful surroundings. The landscape at Crown Hill Cemetery, with its thousands of flower bedecked graves, presented an inspiring sight.

Clarence Green has left A. Weigand & Son's employ, and accepted a position with E. A. Nelson.

Northern wholesalers are asking for peonies from the local growers, as the season here is at least ten days in advance of that in Michigan.

Boxwood trees, also laurels, are finding many buyers this year.

I. B.

GRAND RAPIDS, MICH.—John Myers, 45 years of age, died recently of pneumonia and was buried Saturday, June 1. He was in the employ of Crabb & Hunter Floral Company for a number of years, and will be sadly missed. He formerly worked for Henry Smith, also the Grand Rapids Floral Company.

G. F.

FIRMS WHO ARE BUILDING.

ATTICA, IND.—The Attica Florists' Company will about the first of July begin building additions to the plant on North Perry Street. The present building will be enlarged by an addition 20 by 25 feet; a new building 20 by 75 feet will be erected. One of these buildings will be devoted to carnations.

CHANGES IN BUSINESS.

RENO, NEV.—Fred Fischer has built a greenhouse here and engaged in the florist's business.

MIDDLETOWN, N. Y.—The business of George S. Belding has been purchased by P. X. Dienst, who takes possession June 1.

MARYSVILLE, MO.—C. H. Hollid has sold his greenhouses to Mrs. Mary Weisenberger for a consideration of \$4,050. Mr. Hollid intends moving on a farm.

FAR ROCKAWAY, N. Y.—Mrs. Nora Fitzsimmons, florist, has leased the Peter Scouler store on Central avenue near Clark avenue, which she will open in a few days.

VAN BUREN, O.—Messrs. A. W. Turner and C. A. Keller have purchased the S. M. Hartman greenhouse, and will establish it in the southwest part of town. It will be in full operation before Fall.

BROCKTON, MASS.—The greenhouses on Copeland street owned formerly by Nicol Brothers and one time by Copeland & Cooper, have changed hands and have been bought by Wm. J. Marshall of Togus, Me.

ROSES

500 Bridesmaid

Grafted, 3 inch pots, \$12.00 per hundred

500 Bride

Grafted, 3 inch pots, \$12.00 per hundred

1000 Chatenay

Own roots, 3 inch pots, \$8.00 per hundred

Extra Fine Stock

ROBERT SIMPSON, Clifton, N. J.

ALTERNANTHERA

P. Major, 2-in., 2c. Aurea Nana, Rosea, 2-in., 2c.

AGERATUM, white, Pauline Gurney, 2-in., 2c.

ASTERS, Semples, pink, white, crimson, and purple, \$3.00 per 1000.

CENTAUREA GYMNOCARPA, Dusty Miller, 2-in., 1½c.

COLEUS, 2-in., 2c.

HELIOtropE, dark, 2-in., 2c.

SALVIA BONIFRE, 2-in., 1½c.

ROOTED CUTTINGS, prepaid per 100.

Ageratum, white, Gurney, Pauline, 60c.

Salvia Bonifre, 90c.

Alternanthera, 3 kinds, 50c.

Flowering Begonias, 3 kinds, \$1.25.

Double Petunias, 10 kinds, \$1.00.

Coleus, 10 kinds, 50c.

Swainsonia Alba, \$1.00.

Paris Daisy, white and yellow, \$1.00.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

HELIOtropES FOR SALE

3-3½ and 4 in. pots, strong, bushy plants, just coming in bloom, \$3.00, \$4.00 and \$5.00 per 100.

Cash with order, please.

PATEFSON ROSE COMPANY, Paterson, N. J.

GOVERNOR HERRICK VIOLET

The new single violet. Fine, strong, healthy plants, \$5.00 per 100; \$50.00 per 1000. Write me about it today.

LOUIS D. Mc COY, Spring Valley, N. Y.

Arrived in fine condition the following ORCHIDS

Cattleya Labiata, C. Percivaliana, Laelia (Cattleya) Crispa, L. Proestans, L. Dayana, (C. C.) Cuneata, M. Candida, M. Clowesii, Oncidium Crispum, O. Marshallianum, O. Luridum, O. Varicosum Rogersii, and others. Write for prices.

LACER & HURRELL, Summit, N. J.

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER.

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other wants; also of Greenhouse, Land, Second-hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line 7 words to the line, set solid, without display. No advt. accepted for less than thirty cents.

Display advertisements in these columns, 15 cents per line; count 12 lines ageto to the inch. [If replies to Help Wanted, Situation Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]

Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—By seedsman and cataloguer; must be first-class references given. Address, Joseph, care The Florists' Exchange.

SITUATION WANTED—By steady, young man, 23, experienced in growing roses, carnations and general greenhouse work. Good references. Address, Florist, Box 6, Summit, N. J.

SITUATION WANTED—Hollander wishes position in greenhouse, 12 years' experience, good designer and best of references. Address, C. H., 102 Pike street, Port Jervis, N. Y.

SITUATION WANTED—As working foreman, good grower of roses, carnations, chrysanthemums, etc. Long experience; first-class references. Address, R. D., care The Florists' Exchange.

SITUATION WANTED—By energetic American as foreman on park or cemetery. Aged 35, single. Can work from blue print. References. Address, E. Raymond, 9 Felton street, Cambridge, Mass.

SITUATION WANTED—By first-rate grower of cut flowers, Christmas and Easter plants, decorative and bedding stock, 20 years' experience. References; full particulars please. Address, R. B., care The Florists' Exchange.

SITUATION WANTED—By practical, all-around grower, 20 years' experience; reliable and not afraid of work. Expert rose and carnation grower. Can take charge. Address, Grower, care The Florists' Exchange.

SITUATION WANTED—By two young Polish men experienced in gardening, fruit, greenhouse and nursery work. Two years in America; good references; graduates of Gardeners' School, with honorable mention. Address, B. care The Florists' Exchange.

SITUATION WANTED—As superintendent and manager, aged 39, 20 years' practical experience. Wholesale and retail in cut flowers, designing, flowering and bedding plants. Nursery, landscape, construction and heating; thoroughly practical and reliable in every way. Expert sale and office man. Good salary expected. No objection to traveling. Coast. References exchanged. Address, R. Y., care The Florists' Exchange.

HELP WANTED

WANTED—Greenhouse hands. In answering, give references, experience had and wages expected. Werick Bros. Co., Pine Ridge, Buffalo, N. Y.

WANTED—On large, up-to-date place, two young men with some experience in rose houses. Address, with references, E. E., care The Florists' Exchange.

WANTED—Good man as grower; smilax, asparagus, vegetable plants and cold frame work. Steady position to right man; wages according to ability. Eden Nurseries, Port Allegheny, Pa.

WANTED—Experienced florist for general greenhouse work; must be willing to work at anything; married or single, steady position to right man. F. C. Schleichert, Florist, Bridgeport, Conn.

WANTED—Young men to assist in rose houses; one with some experience preferred. Good wages with prospect of advancement. Address, with references, R. O., care The Florists' Exchange.

WANTED—A rose grower, wages, \$46.00 per month and one dollar for each full Sunday and full holiday worked. Twelve days' vacation with pay each year. Answer, giving age, nationality and experience, sending references. Benjamin Dorrance, Dorrance, Pa.

WANTED—First-class salesman for nursery stock; must have experience and understand the business and a hustler. Address, with reference and full particulars. Address, E. A. E., care The Florists' Exchange.

WANTED—Experienced rose and carnation grower to take charge of sections. Give references and wages expected in first letter. Lake View Rose Gardens, Jamestown, N. Y.

WANTED—An assistant gardener at once, on private place, for general work. Wages, \$34.00, board and room. Chance for advancement for right man. References. Address, Philip H. Cox, Montclair, N. J.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets, in the middle West. Married man preferred. State age, nationality, wages, etc. Address, G. H., care The Florists' Exchange.

WANTED—An experienced rose grower to take charge of the roses on a medium sized place. A permanent position for a capable, willing and temperate man. In writing, state wages expected and give references. Address, H., care The Florists' Exchange.

WANTED—A good all-around greenhouse man; must be a good rose grower and willing to work at anything in connection with the business. Send references in first letter and state wages expected. This is a good, steady position to the right man. Address, R. E., care The Florists' Exchange.

WANTED—First-class gardener for a commercial house; must be a good grower of chrysanthemums, asparagus, all varieties of ferns, all classes of bedding stock, and a good designer of floral work. Able to take complete charge of 25,000 ft. glass and 10 acres of ground. Address, stating wages expected and references, to E. A. Butler & Son, Niagara Falls, N. Y.

WANTED—Gardener to take interest in a modern greenhouse establishment of about 100 thousand square feet of glass. Must be able to invest from twenty to twenty-five thousand dollars. Correspondents must give some assurance of their reliability and business standing to insure prompt reply. Address, E. C., care The Florists' Exchange.

MISCELLANEOUS WANTS

WANTED—Good, second-hand boiler to heat greenhouse, 30 x 90 feet. Address, W. E. Ashcraft, Swedesboro, N. J.

WILL any grower who has spawn of Agaricus subrufescens, or knows where such mushroom spawn can be had, please communicate with W. R. L. Dwyer, R. F. D. 11, Lancaster, O.

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WANTED TO BUY—1 to 3 greenhouses to be removed, must be up-to-date; state size of glass and condition, with the lowest cash price. F. C. Schleichert, Florist, Bridgeport, Conn.

WANTED—To sell my interest in a good wholesale and retail florist business; 10,000 feet of glass; one acre of land, within 10 miles of Boston. Early market handy. Address, R. H., care The Florists' Exchange.

WANTED TO RENT—A commercial place, from 10,000 feet up; must be in good running order for cut flowers. Pennsylvania preferred. Give full particulars. Address, E. O., care The Florists' Exchange.

WANTED TO RENT—About September, with privilege to buy, an established commercial place, about 8000 to 15,000 sq. ft. of glass, with some ground, in town with over 100,000 inhabitants. Write particulars to Thimm, 35 Horton avenue, New Rochelle, N. Y.

WANTED—To correspond with young man who understands truck farming, who is a good grower of roses, carnations and miscellaneous greenhouse plants, and who would like to come to North Carolina and take part interest in small greenhouse establishment and truck farm business. Must be unmarried, temperate, moral, and have at least one thousand dollars to invest. Address, Greenhouse, care The Florists' Exchange.

FOR SALE OR RENT

FOR SALE—Seven acres of land, four greenhouses, seven-roomed dwelling house; horse, wagon, tools, etc. Situated in a desirable locality on Long Island; one mile from station; 30 miles from New York. Address, R. M., care The Florists' Exchange.

FOR SALE—Retiring from business, \$3000.00 buys about 6,000 sq. ft. of greenhouse with stock, in a lively Massachusetts town, 35 miles from Boston. A grand opening. Address, E. H., care The Florists' Exchange.

FOR SALE—Or to lease for a number of years, two greenhouses, 190 x 20, one propagating house, 90 feet, 800 hot bed sashes, two market wagons, one horse. The greenhouses are stocked with carnations and bedding plants. The family dwelling house, three acres of land; all improvements built last year; barn, tools, etc. The place is situated in the best district of Greater New York, trolley passing the door. A. Sauerwald, Juniper avenue, Mass-peth, L. I.

FOR SALE OR RENT.

Greenhouse and store, fully stocked and equipped, 15,000 feet of glass, in town of 25,000 people. In health and ease of sale. CENTRAL GREENHOUSES, Sandusky, Ohio

FOR SALE—Two greenhouses in a fast growing town, no opposition, doing a first-class business in plant trade, cut flowers and shade and ornamental trees, lawns, etc. A good opening for a hustler. Four seashore resorts within five miles of place. Located two squares from railroad; eight trains a day. Ill health reason for selling. W. J. Hamilton, Box 171, Wildwood, N. J.

FOR SALE—Or lease, seven roomed modern house, greenhouse of 8,000 feet of glass, cypress built, steam-heated. One and a half blocks from city cemetery; one half block from best street car line in a city of 30,000. Established in present location, fifteen years. Can give possession any time after June 3. For information in full, address, Z., care The Florists' Exchange. No trifler need apply.

RARE OPPORTUNITY—For sale at Clifton, N. J., between Passaic and Paterson, florist property, consisting of three greenhouses. Number one and two, 15 x 10 ft. each; greenhouse Number three, 350 x 18 1/2 ft. Lord & Birnham construction, hot water heating. Dwelling house of seven rooms and bath; 437 x 120 ft. of land; 1-2 block running from street to street; unimproved sun exposure. Whole property, including dwelling house, can be purchased for less than Number three greenhouse can be duplicated. Address or apply to J. Walter De Witt, 443 Broad street, Newark, N. J.

STOCK FOR SALE

SALVIA, fine stock, 3/4 in., \$2.00; 3/8 in., \$5.00. Joseph Wood, Spring Valley, N. Y.

1500 AMERICAN BEAUTY PLANTS in 4 in. pots, at \$10.00 per 100; \$80.00 per 1000. Address, John Klotzmann, Madison, N. J.

MIGNONETTE, Giant red, best for Summer cutting. Also other flower plants. Send your order for pansies. Beaulieu, Woodhaven, N. Y.

DOUBLE ALYSSUM, 2 1/2 in. pots, \$2.00 per 100. Salvia Bonfire, 3 in. pots, \$3.00 per 100. Asters, Semple's, 50c. per 100. A. D. Egolf, Lansdowne, Pa.

SWEET POTATO PLANTS, now ready; Yellow Jersey, Red Jersey and Big Stems, \$1.25 per 1,000; 35c. per 100. H. Austin, Felton, Del.

ROSES, Bride, Bridesmaid, Ivory, 2 1/2 in., shipped from 2 in., \$2.00 per 100; \$25.00 per 1000. Wm. B. Sands, Lake Roland, Baltimore, Md.

SALVIA BONFIRE, 2 in., topped and branched. Also Geranium, Galloni, strobil., 3 in. 3c. Feverfew, 3 1/2 in., 6c. Asters, pot grown, 2c. All No. 1 stock. Ellis Brothers & Company, Keene, N. H.

SURPLUS STOCK, Nutt, Ricard and variegated leaved Geranium, in 2 and 3 1/2 in. About 300 Cryptomeria japonica. Fine lot of Asters, ready to shift from 2 in. Write for prices. Byron Thomas, Quakertown, Pa.

BABY RAMBLER ROSES, fine dormant stock, extra well rooted, \$12.00 per 100; 2 1/4 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1,000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

ALTERNANTHERAS, three very best varieties, \$2.60 per 100; \$20.00 per 1000. English Ivy, 4 in., three plants in a pot, nice for cemetery work, \$6.00 per 100. Cash please. Eswell, Kemp, 33 Grove street, Vailsburg, Newark, N. J.

ASPARAGUS PLUMOSUS seedlings, from flats, with special cultural directions for making large 3 in. plants by September, 100,000 ready, \$1.00 per 100; \$10.00 per 1000, prepaid. Cash with order. No personal checks accepted. Bud Park Greenhouses, Kansas City, Mo.

FARUGIUM GRANDE, 4 in. pots, good stock, \$2.00 per dozen. Anthericum vittatum variegatum, 2 in. pots, \$2.00 per 100; 6 in. pots, good, strong stock, \$3.00 per dozen. MIXED Geraniums, 4 in. pots, in bud and bloom, stocky plants. Nutt, Doyle, Grant, Poltevine, La Fayette, \$6.00 per 100. Verbena, 2 1/2 in. pots, \$3.00 per 100. G. E. Fink, Roselle, N. J.

BOSTON FERNS, 5-5 1-2 and 6 in. pots, 25c., 35c. and 40c.; large enough for 6 and 7 in. Scottii ferns, 5 and 5 1/2 in. pots, large enough for 6 and 7 in. pots, 30c. Boston ferns, 8 in., \$1.00 each. Carnations, Queen Louise and Lawson, from soil, \$1.00 per 100. Dracaena indivisa, 4 in. pots, \$5.00 per 100. Strong rooted cuttings, English Ivy, 75c. per 100. Heliotrope, 2 1/2 in. pots, \$2.00 per 100. Mamun Chrysanthemum, 5 1/2 in. pots, \$3.00 per 100. Cochet roses, 2 1/2 in. pots, \$3.00 per 100. Chrysanthemum, 5 1/2 in. pots, all best and new varieties, \$2.00 per 100. Hardy Phloxes, nice field clumps, \$3.00 per 100. Ageratium, Blue Perfection, very bushy, 2 1/2 in. pots, \$2.00 per 100. Verbena, Mammoth, mixed, in bud and bloom, 3 in. pots, \$3.00 per 100. Heliotrope, 4 in. pots, \$5.00 per 100. Petunias, mixed, 3 in. pots, fine, \$2.50 per 100. Geraniums, 3 1-2 and 4 in. plants, in bud and bloom, \$5.00 and \$7.00 per 100. Cash with order. Brabander & Cornells, Somerville, N. J.

FOR SALE

FOR SALE—200 boxes, 10 x 24, double, thick greenhouse glass, Cheap for cash. To move stock. Address, Glass, care The Florists' Exchange.

FOR SALE—Greenhouse material and hot bed sash, milled from Gulf Cypress to any detail furnished. Oxford putty, specially made for greenhouse and hot bed sash. V. E. Keich, 1420 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE—A complete, up-to-date greenhouse, 100 x 20, Furnum steam boiler, patent ventilator, cypress frame. Taken down ready for shipment. Price, \$500. Address, W. E. Ingalls, Bridgton, Ms.

CHARCOAL SCREENINGS.

KEEPS SOIL SWEET. Ask the editor, or send \$1.00 for 100 lb. bag. E. V. Sidell, Poughkeepsie, N. Y.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. KROESCHEL BROS. CO., 33 Erie St. Chicago

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousand feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing a large business all through the season. Address, E. Hppard, Youngstown, O.

FOR SALE

PIPE Good serviceable second hand. No Junk, with new threads, 1 in. 3/4 c.; 1 1/4 in. 4/2 c.; 1 1/2 in. 5/2 c.; 2 in. 7 1/2 c.; 2 1/2 in. 10 c.; 3 in. 14 c.; 4 in. 18 c.; ft. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy working. No. 1 cuts 1 1/2 in. \$3.00; No. 2 cuts 1 1/2-1 1/2 in. \$4.00; Armstrong Adjustable No. 2 cuts 3/4-1 in. \$4.00; No. 3 cuts 1 1/4-1 1/2 in. \$6.50.

PIPE CUTTERS Saunders, No. 1 cuts to 1 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.60.

STILLSON WRENCHES Guaranteed, 12 in., grips 1 1/2 in. \$1.00; 14 in., grips 2 1/2 in. \$1.60; 24 in., grips 2 1/2 in. \$2.25; 36 in., grips 3 1/2 in. \$1.50.

PIPE VISES Read's Best Hinged Vise, No. 1 grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in., guaranteed; 8 1/2 c. for heavy work, guaranteed; 12 1/2 c.

HOT-BED SASH New; Gulf Cypress, 3 ft. x 16 in. \$1.60 up. Second hand sash glazed, \$1.25, good condition.

GLASS New American, 50 ft. to the box. 10 x 12 single at \$1.90. 10 x 12, 12 x 12, B. double, \$2.40 per box. 12 x 14 to 12 x 20 and 14 x 14 to 14 x 20 B. double, \$2.65 per box. 12 x 24 B. double, \$2.30 per box. 16 x 16 and 16 x 18, B. double, \$2.76 per box. 16 x 20 to 16 x 24, double, \$2.35 per box. 6 x 8, 7 x 9, 8 x 10 old, single, \$1.50. 8 x 10 old, single, \$1.50. 10 x 14 second hand ground glass at \$1.50 per box.

MATERIAL AT WOODSIDE, L. I.

Six 100 ft. greenhouses, barns, etc., 12x24 glass; three No. 16 Hitchings hollers; 4 in. cast iron pipe; open business wagon, etc.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

New Locust Posts 2 1/2 to 3 in., 7 ft. long, 20c. each. 4 in., 8 ft. long, 60c. each.

METROPOLITAN MATERIAL CO.

Greenhouses Wreckers 1388-1408 Metropolitan Avenue BROOKLYN, N. Y.

Enclosed please find check, as per your bill, and also find copy of advertisement which you will please insert this week.

We are more than pleased with the results of the advertisements. Yours very truly, North End Nurseries, Chester F. Brainard, Prop.

Thirty cents is the minimum charge for advertisements on this page.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 WEST 28th STREET, NEW YORK
Telephone: 3559 Madison Square
CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

The Deterioration of Plants by Forcing. The Cause; the Remedy.

Paper read by Antoine Winter of Concord & Jones Company, West Grove, Pa., before the Philadelphia Florists' Club at its June Meeting.

Are our roses deteriorating or is it imaginary on our part? The real or supposed deterioration of roses is the subject of considerable discussion whenever practical rose men meet at conventions or clubs.

My honest opinion is that a great many varieties of roses have deteriorated. Why have they done so? I believe the main causes to be over propagation, unnatural conditions in growing the stock plants, under and over watering, over feeding and various others too numerous to mention.

The hybrid tea roses (to the production of which rose breeders are now devoting so much attention) were an unknown factor 35 or 40 years ago. The breeders at that time were disseminating more h. p. varieties than all the other classes combined, the majority of which were introduced by Verdier of Paris.

Now what is the lesson the propagator can learn from observation? Secure the best and most healthy field grown plants for propagation; grow the cuttings from such under natural conditions and continue on this plan for a number of years and the result will be that the roses so grown will not deteriorate.

Now, in conclusion, permit me to ask how many growers there are in the business, in the position to do this? With the wholesale prices of roses where they are at present, there is surely an eternal unfitness of things in our present price of own root roses.

VEGETABLE PLANTS

- LETTUCE, Grand Rapids, Big Boston, 100 1000
Ready May 1st, \$0.20 \$1.00
PARSLEY, Moss curled, .25 1.25
BEETS, Eclipse, .25 1.25
CELERY, White Plume, White Solid, and Celeriac, Giant Prague, .20 1.25
EGG PLANTS, N. Y. Improved, small for transplanting, .25 2.00
EGG PLANTS, from 2 in. pots, 2.00
PEPPER, Bull Nose and Sweet Mountain, .25 2.00
Tomato, Stone, Perfection, Beauty and other varieties, 1.00
Cabbage, Flat Dutch, Drumhead, Hollander, Savory, and other varieties, 1.00
R. VINCENT, JR. & SON, White Marsh, Md.

Begonia Gloire De Lorraine

The finest leaf cuttings obtainable
For delivery from May 1st, 2 1/2 in. pots \$12.00 per 100, \$100.00 per 1000.
Order at once.

JULIUS ROEHR'S COMPANY
Exotic Nurseries, Rutherford, N. J.

BOXWOOD

- Bushes per pair, 60c., 75c., \$1.00, \$1.25 and \$1.50. Pyramids per pair \$3.00.
English Ivy, \$2.00 per doz., \$15.00 per 100.
Anthericum, variegated for vases, \$1.50 per doz.
Aspidistras, green, \$12.00 per doz. in 6 in. pots; \$18.00 per doz. in 8 1/2 in. pots.
Latanias or Livistona Sinensis, 7 in. pots, \$15.00 per doz.; 8 in. pots, \$18.00 per doz.
Dracaena Indiviva, 5 1/2 in. pots, \$4.00 and \$6.00 per doz.
Crimson Ramblers and Dorothy Perkins, fine plants in bloom, \$12.00, \$18.00 and \$24.00 per doz., 6 1/2 in., 7 in. and 8 in. pots.
Dracaena Fragrans, 6 in. pots, \$6.00 per doz.
Asparagus Sprengeri, 3 1/2 in. pots, \$1.25 per doz., \$10.00 per 100.
Kentia, 60c. up to \$15.00 all sizes.
Combinations, \$3.50 to \$10.00 each.
Arancaria Excelsa, \$2.00 to \$3.00 each, 8 in. and 9 in. pots, 4 1/2 x 5 in. pots, \$6.00 and \$9.00 per doz.
Arancaria Plumosa, new 6 in. 1 ft. high, \$12.00 per doz.
Fern Balla, 6 in. 4 in. pots per doz.; 8 in. \$9.00 per doz.
Bridal Myrtle, 4 in. pots \$3.00 per doz.; 6 in. pots, \$9.00 per doz.
Asparagus Plumosus, 4 1/2 in. pots, \$2.50 per doz.
Cocos Weddelliana, 3 1/2 in. pots, \$2.00 per doz., \$15.00 per 100.
Crimson Ramblers for planting out from 2 1/2 in. pots; very fine, \$5.00 per 100.
Chibotum Schledel, 3 in. pots, \$24.00 per doz.
Gardenia in pots, 7 in., large bushy plants, \$9.00 and \$12.00 per doz.
Thapsi humilis, fine bushy plants in 6 1/2-7-8 and 9 in. pots. From \$1.50 to \$5.00 each.
Pheonix Canariensis, 2 ft. 6 in., 10 leaves, \$3.00 per pair; 2 ft. 10 in., 10 leaves, \$4.00 per pair; 3 ft., 10 leaves \$5.00 per pair; 3 ft. 4 in., 10 leaves, \$6.00 per pair.
Bay Trees, standards, 4 ft. 8 in. stem, \$8.00, \$10.00, \$12.00, \$15.00 and \$18.00 per pair. Pyramids, \$12.00 and \$15.00 per pair, 7 ft. to 8 ft. high.
Nephrolepis Whitmani, 6 1/2 in. pots, \$12.00 per doz.
Hydrangea, pink and blue assorted, \$6.00, \$9.00, \$12.00, \$15.00 and \$18.00 per doz., 6 1/2 in., 7 in. and 8 in. pots.
Chrysanthemums, from 2 1/2 in. and 3 in. pots, \$5.00 per 100, assorted varieties, \$45.00 per 1000. J. E. Lager, Rot. d'Italia, Robert Halliday, Mrs. Robinson, J. Jones, white; John K. Shaw, Col. Appleton, Glory of the Pacific, Golden Wonder, Mrs. Beucheler, Alice Byron, Ben Welle, Oakland, Mrs. Weeks, Mrs. Carrington, Polly Rose, White Bonafant, Fred. Peale; White Eaton, Dr. Enguehard, Dr. Galloway; Pompons, Rosinante, Rhoda, Pink Pompons, Dawn, Tennessee, Edna, Regulus, Model of Perfection.

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COLEUS, in eight leading varieties, 2 1/2 in., \$2.50 per 100.
AGERATUM, Dwarf Blue, 2 1/2 in., \$2.50 per 100.
GERMAN IVY, 2 1/2 in. pots, \$2.50 per 100; 4 in., \$6.00 per 100.
CRIMSON RAMBLER ROSES, 7 in. pots, 75c. each.
CANNAS, six leading varieties, 4 in. pots, \$9.00 per 100.
10,000 CHRYSANTHEMUMS, 2 1/2 in. pots, 32 varieties.
ASPARGUS Plumosus Nanus, 2 1/2 in. pots, very fine plants, ready for 4 in., \$3.50 per 100; \$30.00 per 1000.

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Liberty, Richmond, La France, Killarney, 3 1/2 in. pots, \$18.00 per 100
Bride, Bridesmaid, Golden Gate, Kaiserin, 3 1/2 in. pots, \$25.00 per 100

ROSES, Own Roots

- Bride, Bridesmaid, Perle 3 in. pots, \$7.00 per 100
La France 3 in. pots, 9.00 per 100
BEDDING PLANTS, Fine Healthy Stock, Alternanthera Paronychioides Major, (true to name), 2 1-4 in. pots, \$25.00 per 1000. Alternanthera Aurea Nana, 2 1-4 in. pots, \$20.00 per 1000. Centaurea Gymnocarpa, 2 1-4 pots, \$2.50 per 100. Geraniums 3 in. pots, \$5.00 per 100. Salvia Splendens, 2 1-4 in. pots, \$3.00 per 100; 3 in. pots, \$4.00 per 100.

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Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100.
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Gladioli, blooming bulbs extra, fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.
Helletope; Coleus, red and yellow; Cigar Plants; Alternanthera, red and yellow; Verbeas; Scarlet Sage, Bonfire, 2 in. \$2.00 per 100.

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Fancy Plants, small, 60c. per 100; \$5.00 per 1000; bud and bloom, \$1.00 per 100; \$8.00 per 1000.

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Fuchsias 100 100 \$2.00 \$3.00
Helletope, dark 2.00 3.00
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Cannas, 3 in. pots, \$4.00 per 100.
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VINCAS

2 in. pots, \$1.75 per 100; \$15.00 per 1000; samples submitted. Transplanted Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

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Simple's, 5 colors, by mail 40c. per 100; \$3.00 per 1000 by express.

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Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	10.00 to 20.00	Carnations	Inf'r grades, all colors.....	1.00 to 1.50
	extra	5.00 to 10.00		STANDARD VARIETIES { White	1.50 to 2.00
	No. 1	6.00 to 8.00		{ Pink	1.50 to 2.00
	No. 2	4.00 to 6.00		{ Red	1.50 to 2.00
	No. 3	2.00 to 4.00		{ Yel. & Var.	2.00 to 3.00
	Bride, Missd fancy-special.....	4.00 to 6.00		*FANCY— (The highest grades of standard var) { White	2.00 to 3.00
	extra	3.00 to 4.00		{ Pink	2.00 to 3.00
	No. 1	2.00 to 3.00		{ Red	2.00 to 3.00
	No. 2	1.00 to 2.00		{ Yel. & Var.	2.00 to 3.00
	Golden Gate.....	1.00 to 8.00		{ NOVELTIES	3.00 to 6.00
	RICHMOND.....	2.00 to 10.00		GARDENIAS, per doz.....	.50 to 2.00
	Mme. Abel Chateaux	1.00 to 8.00		LILAC, per bunch.....	.10 to .25
	ADRIANUM.....	.50 to 1.00		LILIES.....	4.00 to 6.00
	CROWEANUM.....	1.00 to 1.50		LILY OF THE VALLEY.....	2.00 to 4.00
	ASPARAGUS.....	25.00 to 50.00		MIGNONETTE.....	1.00 to 4.00
Plumosus, bunches.....	15.00 to 25.00	NARCISSUS, White.....	..... to		
Sprengeri, bunches.....	15.00 to 25.00	Yellow.....	.50 to 1.00		
.....	..... to	PRONIES.....	6.00 to 8.00		
CALLAS.....	1.00 to 5.00	SMILAX.....	12.00 to 15.00		
CATLEYAS.....	40.00 to 60.00	SWEET PEAS, per doz. bunches.....	.75 to 2.00		
CYPRIPEDIUMS.....	12.00 to 15.00	TULIPS.....	1.00 to 2.00		
DAISIES.....	1.00 to 3.00 to		
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Philadelphia
News Notes.
Most of the retail stores are doing a good business this week, there being many weddings and commencements. The principal work has been for the Young Ladies' Seminary at Ogontz, and the Bryn Mawr Ladies' College; for these some of the stores had from 100 to 200 orders.

At the meeting of creditors of H. T. Dumont Company and the Rosary Flower Shop, each belonging to H. T. Dumont, the liabilities were given at \$2,300 and assets at \$925, book accounts about \$300 being good; and the store fixtures. Books and store fixtures were turned over to a committee of creditors, who have already realized \$300 on the fixtures, and closed the store.

Pennock Brothers have installed an ice or cold storage machine in the basement of their store, the brine tanks and pipe coils being on top of the refrigerator, in the ice receptacle. They find it very satisfactory; by running the motor one hour a day, the refrigerator is kept at from 43 to 48 degrees.

The Florists' Club meeting on Tuesday evening last was an interesting one, the attendance being very good. Six new members were elected and nine proposed for membership. The convention committees made good reports. The Julius Roehrs Company, Rutherford, N. J., exhibited a new rose, a Wichuraiana hybrid a nursery seedling, after the variety Hiawatha in form, flowers smaller but borne in large clusters. In the opinion of the committee this would make a good forcing plant for Easter. It is quite fragrant.

The paper of Antoine Wintzer, on the "Deterioration of Plants by Forcing," was listened to with great attention and brought out considerable discussion.
DAVID RUST.

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Festiva Maxima

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Baseball.

Smith & Fetters vs. Gasser.

One of the finest ball games of the year was played by the Smith & Fetters and Gasser teams, at Garfield Park, Cleveland, O., Memorial Day afternoon. The Gasser team won by a score of seven to six, Smith & Fetters leading until the seventh innings. This is the first game Smith & Fetters have lost in eight years.

Boston.

News Items.

At the next meeting of the Gardeners and Florists' Club, C. H. Totty will read a paper on "The Past, Present and Future of the Chrysanthemum." This should prove a drawing card, and as it is the last meeting before the Summer vacation season and many important matters are to be brought up, there is every indication that the June meeting will be a record breaker.

The annual rhododendron exhibition of the Massachusetts Horticultural Society will be held Saturday and Sunday, June 8 and 9, at Horticultural Hall, Boston.

The annual rose and peony show will take place the following Friday and Saturday, June 14 and 15, followed on Saturday and Sunday, June 22 and 23, by the rose and strawberry exhibition.

As the season is unusually backward it is expected that these exhibitions will overlap each other somewhat, and classes not competed for on the dates assigned will be continued over to the following week, so that a series of fine weekly exhibitions is assured for the next three weeks.

James Tullis of South Sudbury, one of the leading carnation growers for the Boston market, has been confined to his home for the past three weeks suffering from Sciatica.

W. W. Rawson was chief marshal of the parade celebrations of the centennial of the town of Arlington on Saturday.

A. J. Mohegan of Cambridge is the latest to join the list of benefactors, the lucky lady being Miss Hecht of Roxbury. After a honeymoon trip to Philadelphia and Washington, they will reside in Cambridge.

Washington, D. C.

Club News.

The regular meeting of the Washington Florists' Club was held on the night of June 4, with a good attendance. D. N. Shoemaker, who recently entered the florist business as a grower of carnations, in houses formerly used by Dr. Wehber at Tacoma Park, D. C., was admitted to membership. George H. Cook moved that the club hold a chrysanthemum show next November, the date to be fixed at a subsequent meeting. The motion was carried.

One of the principal features of the evening was the exhibit by President Bisset of several of his newest seedling roses, all descendants of his original success, Queen Beatrice, and comprising the lighter shades. One, a magnificent specimen somewhat of the La France type but possessing many more points of general excellence, was highly praised. Others were attractive by reason of their exquisite shades of silvery pink; one of the latter class won so much favor with Mrs. Gardiner Hubbard, whose estate President Bisset has brought to its present far famed beauty, that she named it "Rosalie" in honor of her granddaughter. Judging from remarks made by Mr. Bisset, there are doubtless other treats in the line of rose novelties in store for the club later on.

J. L. C.

Wholesale Prices of Cut Flowers—Per 100

Boston June 4, 1907	Buffalo June 4, 1907	Detroit June 4, 1907	Cincinnati June 3, 1907	Baltimore June 4, 1907	NAMES AND VARIETIES	Milwaukee June 5, 1907	Phil'delphia June 4, 1907	Pittsburg June 5, 1907	St. Louis June 3, 1907
20.00 to 25.00	20.00 to 25.00	50.00 to 60.00	20.00 to 30.00	to	A. BEAUTY, fancy—special	to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
10.00 to 20.00	15.00 to 20.00	40.00 to 50.00	12.00 to 20.00	25.00 to 30.00	" extra	12.00 to 15.00	10.00 to 12.00	12.00 to 18.00	12.50 to 15.00
4.00 to 10.00	8.00 to 15.00	30.00 to 40.00	6.00 to 10.00	12.50 to 20.00	" No. 1	4.00 to 6.00	2.00 to 3.00	5.00 to 10.00	8.00 to 10.00
2.00 to 4.00	3.00 to 5.00	20.00 to 30.00	3.00 to 4.00	5.00 to 10.00	" Oulls and ordinary	4.00 to 6.00	2.00 to 3.00	3.00 to 6.00	3.00 to 6.00
6.00 to 8.00	7.00 to 8.00	3.00 to 10.00	to 6.00	to 3.00	BRIDE, 'MAID, fancy—special	to 8.00	10.00 to 12.00	to 10.00	5.00 to 6.00
2.00 to 6.00	6.00 to 7.00	to 5.00	to 5.00	to 7.00	" extra	to 6.00	8.00 to 10.00	to 8.00	3.00 to 4.00
1.00 to 2.00	4.00 to 6.00	to 3.00	3.00 to 4.00	5.00 to 6.00	" No. 1	to 5.00	5.00 to 6.00	4.00 to 6.00	to 2.00
to 2.00	2.00 to 4.00	to 2.00	2.00 to 3.00	3.00 to 4.00	" No. 2	to 4.00	2.00 to 4.00	to 2.00	to 2.00
to 2.00	3.00 to 7.00	to 3.00	2.00 to 6.00	4.00 to 8.00	GOLDEN GATE	to 4.00	4.00 to 10.00	to 2.00	2.00 to 6.00
2.00 to 8.00	3.00 to 7.00	to 2.00	2.00 to 6.00	4.00 to 6.00	K. A. VICTORIA	4.00 to 8.00	4.00 to 10.00	2.00 to 10.00	to 2.00
2.00 to 16.00	3.00 to 6.00	to 2.00	2.00 to 6.00	4.00 to 8.00	LIBERTY	4.00 to 10.00	2.00 to 15.00	4.00 to 12.00	to 2.00
to 3.00	to 6.00	to 2.00	2.00 to 4.00	2.00 to 4.00	PERLE	4.00 to 6.00	to 3.00	3.00 to 6.00	2.00 to 5.00
to 1.00	to 2.00	to 60.00	to 2.00	to 1.50	ORCHIDS—Cattleyas	to 60.00	to 75.00	to 1.50	to 2.00
1.00 to 2.00	1.50 to 2.00	to 2.00	2.00 to 3.00	1.00 to 1.50	" Interior grades, all colors	2.00 to 3.00	2.00 to 3.00	to 2.00	1.50 to 2.00
1.00 to 2.00	1.50 to 2.00	to 2.00	2.00 to 3.00	2.00 to 2.50	Standard	2.00 to 3.00	2.00 to 3.00	to 2.00	1.50 to 2.00
1.00 to 2.00	1.50 to 2.00	to 2.00	2.00 to 3.00	2.00 to 2.50	White	2.00 to 3.00	2.00 to 3.00	to 2.00	1.50 to 2.00
1.00 to 2.00	1.50 to 2.00	to 2.00	2.00 to 3.00	2.00 to 2.50	Red	2.00 to 3.00	2.00 to 3.00	to 2.00	1.50 to 2.00
1.00 to 2.00	1.50 to 2.00	to 2.00	2.00 to 3.00	2.00 to 2.50	Yellow and var.	2.00 to 3.00	2.00 to 3.00	to 2.00	1.50 to 2.00
2.00 to 3.00	2.50 to 3.00	to 3.00	3.00 to 4.00	to 3.00	White	to 4.00	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00
2.00 to 3.00	2.50 to 3.00	to 3.00	3.00 to 4.00	to 3.00	Fancy	to 4.00	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00
2.00 to 3.00	2.50 to 3.00	to 3.00	3.00 to 4.00	to 3.00	Varieties	to 4.00	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00
to 4.00	to 3.00	to 3.00	to 3.00	to 3.00	Novelties	to 4.00	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00
to 1.00	.50 to 1.00	1.00 to 1.50	to 1.00	to 1.00	ADIANTUM	to 1.00	1.00 to 1.50	1.00 to 1.50	to 1.00
to 50.00	40.00 to 50.00	to 50.00	40.00 to 50.00	25.00 to 50.00	ASPARAGUS Plum. and Ten	to 50.00	25.00 to 50.00	50.00 to 25.00	to 40.00
to 10.00	20.00 to 30.00	to 15.00	25.00 to 35.00	25.00 to 50.00	Sprengeri, bunches.	to 50.00	20.00 to 40.00	10.00 to 30.00	to 30.00
6.00 to 10.00	8.00 to 10.00	to 15.00	to 6.00	to 6.00	ASTERS	to 7.00	to 10.00	to 10.00	to 12.50
to 1.00	1.00 to 2.00	to 1.00	to 1.00	to .75	CALLAS	to 7.00	1.00 to 1.50	2.00 to 3.00	to .75
4.00 to 8.00	8.00 to 12.00	15.00 to 15.00	to 10.00	8.00 to 12.00	DAISIES	to 18.00	10.00 to 15.00	12.50 to 15.00	to 4.00
to 2.00	3.00 to 4.00	3.00 to 4.50	to 4.00	1.00 to 2.00	GLADIOLUS	to 3.00	3.00 to 5.00	to 4.00	to 4.00
2.00 to 3.00	1.00 to 2.00	to 2.00	to 2.00	to 2.00	LILIES	to 2.00	2.00 to 3.00	to 2.00	to 2.00
to 2.00	2.00 to 3.00	to 2.00	to 2.00	to 2.00	LILY OF THE VALLEY	to 4.00	3.00 to 4.00	to 4.00	to 3.00
to 4.00	to 6.00	to 4.00	4.00 to 6.00	to 10.00	MIGNONETTE, ordinary	to 2.00	2.00 to 3.00	to 2.00	to 3.00
to 15.00	20.00 to 25.00	to 15.00	to 15.00	to 20.00	" fancy	to 6.00	8.00 to 10.00	4.00 to 6.00	to 3.00
					PEONIES	to 25.00	15.00 to 20.00	to 15.00	to 15.00
					SMILAX				

BOSTON, MASS.

Asparagus Plumosus
Mignonette
Lil. Harriell
Brides, 'Malds
American Beauties

WELCH BROS.
PROPRIETORS
CITY HALL CUT FLOWER MARKET
226 Devonshire Street.

Kaiserlin
Carnots
Orchids
Valley
Carnations
Violets

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 2267 and 62

PHILADELPHIA CUT FLOWER CO.
WHOLESALE FLORISTS
1516-18 SANSON STREET
High Grade Cut Flowers
Open Evenings until 8.

EDWARD REID
Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Bet. Market and Chestnut Streets.
CHOICEST STOCK ALWAYS IN HAND
Telephone: 1-42-26-A.

Headquarters in
WESTERN NEW YORK
For Roses,
Carnations
And all kinds of Seasonable Flowers.



WM. F. KASTING
Wholesale Commission Florist
Also dealer in Florists' Supplies and Wire Designs
383-87 Ellicott St. BUFFALO, N. Y.
Give us a trial. We can please you.

June 8, 1907

E. F. WINTERSON CO. Established 1854
 45-47-49 Wabash Avenue, Chicago.
 Wholesale Cut Flowers and Florists' Supplies.
 Shipping Orders Our Specialty.
 Do you receive our Weekly Cut Flower Price List? IF NOT WRITE US.
 The Leading Florists' Supply House of the West.
 Supply Catalogue mailed on request. We carry the Largest Stock of Florists' Supplies in the U.S.

Be your own Commission Man
THE FLOWER GROWERS MARKET
 furnishes the facilities
 See PERCY JONES, Mgr.
 60 Wabash Ave. CHICAGO

THE BUSIEST HOUSE IN CHICAGO
J. B. DEAMUD CO.
 Wholesale Cut Flowers
 51 Wabash Av., CHICAGO
 Consignments Solicited

WIETOR BROS.
 WHOLESALE GROWERS OF
CUT FLOWERS
 All telegraph and telephone orders given prompt attention.
 51 Wabash Ave., CHICAGO

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

CHICAGO ROSE CO.
 Rose Growers and Commission Handlers of Cut Flowers
FLORISTS' SUPPLIES
 Wire Work our Specialty
 56-58 Wabash Ave. Chicago

Zech & Mann
 Wholesale Growers and Shippers of
CUT FLOWERS
 51 Wabash Ave., CHICAGO.
 Room 218. L. D. Phone 3284 Central

All Lending Varieties of Roses and Carnations
PETER REINBERG
 Wholesale Cut Flowers
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 Headquarters for American Beauty Rose

SINNER BROS.
 WHOLESALE CUT FLOWERS
 60 Wabash Ave., Chicago.
 Careful attention to all SHIPPING ORDERS.

A. L. RANDALL CO.
 Western Headquarters for
 Up-to-Date Florists' Supplies
 Write for Catalogue
 No. 19 RANDOLPH ST., - CHICAGO.

Chas. W. McKellar
ORCHIDS
 FANCY VALLEY, ROSES, CARNATIONS,
 and all CUT FLOWERS and GREENS
 51 Wabash Ave., Chicago

VAUGHAN & SPERRY
 Wholesale Florists
 Valley, Carnations and Roses
 58-60 WABASH AVE., CHICAGO.

GEO. REINBERG
 Wholesale Grower of **Cut Flowers**
 CHOICE AMERICAN BEAUTY ROSES
 We will take care of your orders at reasonable prices. Prompt attention.
 35 Randolph Street, CHICAGO, ILL.

J.A. BUDLONG
 37-39 Randolph Street, CHICAGO.
 Wholesale **CUT FLOWERS**
 Roses and Carnations A Specialty.... WHOLESALE GROWER OF

Wholesale Prices of Cut Flowers, Chicago, June 4th, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		STANDARD VARIETIES	
36-inch stems..... per doz.	..... to 8.00	White.....	1.50 to 2.00
30-inch stems..... " "	..... to 2.50	Pink.....	1.50 to 2.00
24-inch stems..... " "	..... to 2.00	Red.....	..... to 3.00
20-inch stems..... " "	..... to 1.50	Yellow & var.....	..... to 2.00
18-inch stems..... " "	..... to 1.00	*FANCY White.....	2.00 to 3.00
12-inch stems..... " "	..... to .75	(The High-End grades-Red.....	2.00 to 3.00
8-inch stems and aborts " "	..... to .50	of Sts'd var.) Yellow & var.....	3.00 to 4.00
Bride Maid, fancy special.....	8.00 to 10.00	NOVELTIES.....	..... to
" extra.....	..... to 6.00	ADIANTUM.....	.75 to 1.50
" No. 1.....	..... to 5.00	ASPARAGUS Plum & Ten.....	.85 to .50
" No. 2.....	2.00 to 4.00	" Sprengeri bunches.....	.35 to .50
Golden Gate.....	2.00 to 8.00	LILIES Longhorn.....	8.00 to 15.00
Uncle John.....	2.00 to 8.00	Orchids-Cattleya.....	..... to 50.00
Liberty.....	2.00 to 8.00	SMILAX.....	10.00 to 20.00
Richmond.....	2.00 to 8.00	LILY OF THE VALLEY.....	2.00 to 4.00
Killarney.....	4.00 to 8.00	HARDY FERNS per 1000.....	2.00 to 3.0
" extra.....	10.00 to 12.00	GALAX.....	1.00 to 1.25
Perla.....	2.00 to 8.00	GARDENIAS.....	.50 to 1.00
Obatensy.....	2.00 to 8.00	FRONIES.....	8.00 to 10.00
Callas	8.00 to 10.00	SWEET PEA.....	3.00 to 1.25
Mignonette.....	2.00 to 6.00	SNAPDRAGON.....	4.00 to 8.00
FOREST-ME-NOT.....	..... to .50	.....	.....

Poehlmann Bros. Co.
 Wholesale Growers of and Dealers in Cut Flowers.
 All telegraph and telephone orders given prompt attention.
 Greenhouses: 35-37 Randolph St., MORTON GROVE, ILL. CHICAGO.

Chicago.
 The Week's News.
 L. H. Winterson and Mrs. Winterson left on Monday night for their new home in Seattle.
 An order was received late Friday afternoon of last week from Kansas City for two thousand ferns and it was necessary to wire the party that they could not be found in the Chicago market—an incident which is unique in the history of this important center, certainly within recent years.
 Peter Reinberg is just starting to cut from a superb crop of Richmond roses, which give promise of unusual excellence for the next month or more.
 Among the June brides will be numbered Miss Bertha Dittmer of Maywood who will be married on the 26th instant to Max Awizuns of the J. A. Budlong sales department. The young couple will reside in Maywood.
 Louis Coatsworth, who is personally superintending the replanting and repairing at New Castle, was in Chicago last Saturday and reports everything progressing nicely at the firm's range in Indiana.
 William Peck of Baraboo, Wis., was in the city last week.
 George Walther made his appearance in the market district last week in a new covered automobile which appears to be well suited to his requirements in the trade. If all the wholesalers and retailers who are reported as intending to purchase horseless vehicles this season succeed in finding what they want, there will be enough owners in the trade to form quite a respectable club before Fall.
 The meeting of the Chicago Florists' Club at Handel Hall Thursday evening next will be an important one. The advertising proposition advanced at the last meeting will be further considered and other vital matters discussed.

ST. PAUL, MINN.
 Send us your Orders for delivery in the Northwest, which will have our best attention.
L. L. MAY & CO.,
 Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.
 WHOLESALE FLORISTS and FLORISTS' SUPPLIES
 Manufacturers of WIRE DESIGNS
 457 Milwaukee St., MILWAUKEE, WIS.
 Phone, Main 874, P. O. Box 103

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES
C. C. Pollworth Co.
 MILWAUKEE, WIS.
 Your Money is well spent when you advertise in
THE FLORISTS' EXCHANGE

E. H. Hmt had a heavy Memorial Day trade in supplies, the call for immortelles and moss wreaths being unusually large.
 Weiland & Risch had a sign posted on Tuesday of last week that they were sold out. Their Memorial Day business exceeded their Christmas business of last year.
 The George Wittbold Company had a large and satisfactory business for the month of May, outside work being particularly heavy. Louis Wittbold has perfected the moulds for his new cement bench, and has already equipped one of the concern's houses with his invention, which has the appearance of being absolutely indestructible.
 John Kruchten had a busy week and with several new consignors is carrying a good stock of seasonal flowers.
 With the advent of the June weddings C. W. McKellar notes a decided increase in the demand for cattleyas.
 Business showed an unusual tendency to hold up after the holiday last week, Wietor Brothers having on Friday the largest trade they ever enjoyed in any one day not preceding a holiday, and not excepting the red letter days following the Iroquois theatre catastrophe two years ago last Winter.
 John Pochlmann of Pochlmann Brothers says the buds were right there and all that was needed was the sunshine that we did not get, to open them; consequently some late orders were necessarily cut.
 George Reinberg's houses were slightly off crop for Memorial Day he having just commenced cutting from a heavy harvest, consequently he was compelled to turn down many good orders.
 O. Johnson feels well satisfied with his first holiday at his stand in the Chicago Rose Company's store, shortage of stock being his only complaint.
 H. Cheeseman of the Vaughan Seed Store's traveling staff has returned from an extended Southern trip embracing nearly all the principal points in that section and occupying about three months. Mr. Cheeseman is very enthusiastic over the horticultural future of our Southern neighbors, and prophesies tremendous strides in the divers branches of the profession in the immediate future. Since his previous visit to that section there has been a 30 per cent. increase in the culture of bulbs for commercial purposes, growers have learned to produce as fine carnations as are turned out anywhere and consumers have ceased to rest content with the never-ending supply of outdoor flowers but demand the choicest roses of greenhouse culture for which they readily pay as much or more than is realized in many Northern cities. The business in the Southern States within the next decade, according to Mr. Cheeseman, promises to be something phenomenal, the greatest difficulty the craft have to contend with at present being the procuring of competent help, many men with references from Northern employers having proved incapable to master the situation under the different climatic conditions. Many growers, who have been systematically and scientifically at work, have produced remarkable results, and they are ready and willing to pay good money for competent assistants. Considerable complaint was found in many locations at the receipt of sleepy carnations received from Northern shippers.
 The bedding plant business has been at its height for the past two weeks and notwithstanding the cold, unseasonable and unsuitable weather has been very heavy. Plants in bloom were scarce for Memorial Day trade and many houses, especially of geraniums, where night firing was impracticable or was abandoned, show the effect of the cold nights. Prices for first class geraniums are generally higher than last year, in some cases twenty-five per cent.
 The retailers who had things much their own way at Easter suffered a decided reverse in the conditions which prevailed last week. One storekeeper in the Loop tells of paying \$6 per hundred for carnations to fill orders taken previous to the sensational and unexpected advance, at 75c. per dozen, on which basis it requires an expert mathematician to figure out a profit.
 Willis N. Rudd, after an extremely busy time in performing his duties as superintendent of Mount Greenwood

HENRY M. ROBINSON & CO.

WHOLESALE FLORISTS
FLORISTS' SUPPLIES and HARDY CUT EVERGREENS

15 Province St.—9 Chapman Place, BOSTON, MASS.
Telephone—Main 2617-2618.

Hardy Cut DAGGER and FANCY Ferns, \$2 per 1000 Green and Bronze GALAX, \$1.50 per 1000. Laurel Festooning for June Decorations, 6c. per yd. Branch Laurel, 50c. per bunch. Sphagnum Moss, 50c. per bag; 5 bags, \$2.00.

AMERICAN BEAUTIES
RICHMONDS
BRIDES and BRIDESMAIDS
GARNATIONS
VALLEY

Everything in the flower line.

Write for Price List.

Florists' Supply Price List on Application



New Crop DAGGER or FANCY FERNS, \$1.50

Galax, bronze or green, 75c. per 1000 or \$6.50 per 10,000 cases.

Use our Laurel Festooning for your June Weddings; 4c., 5c., and 6c. per yard; finest quality and can fill orders promptly.

Try our special 50 lb. cases Southern Smilax, \$6.50.

Laurel Branches, 35c per large bundle.

Send us your orders now for ferns for the coming season, and have them the year round at a reasonable price.

Telegraph Office: New Salem, Mass.

Long Distance Telephone Connection

GROWL FERN CO., MILLINGTON, MASS.



EXTRA FINE FANCY AND DAGGER FERNS

\$2.50 per 1000. Discount on large orders. Leucothoe Sprays \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE

Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season

38 & 40 Broadway. Formerly DETROIT, MICH.

Send for our weekly price list on Cut Flowers.

REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of FLORISTS' SUPPLIES Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax

THE BEST WAY to collect an account is to place it with the National Florists' Board of Trade

56 Pine St., New York
WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

PREPARED PALMS AND PALM LEAVES

in all varieties
Also Moss, Fibre, Needle Pines, Pine Cones, Uva Grasses, etc.
Buy from HEADQUARTERS.

Florida Natural Products Co.
Fernandina, Fla.

SOUTHERN WILD SMILAX
BEAVER'S FADELESS MOSS
NATURAL SHEET MOSS
E. A. BEAVER, Evergreen, Ala.

WIRED TOOTHPICKS

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, BERLIN, N. Y.

Samples free. For sale by dealers.

ALL NURSERYMEN, SEED and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 100 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable to Lowtham, Notts. Address

EDITORS OF THE "H. A."

Chilwell Nurseries, Lowtham, Notts

European Agents for THE AMERICAN CARNATION

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

Cemetery, left on Saturday last for a two weeks' piscatorial outing at Peacock, Mich.

C. M. Dickinson is much gratified at the universal satisfaction expressed by the growers who have tried and continue to use the To-bac-line products both locally and throughout the country.

P. J. Hauswirth who, owing to his location, does not come in for a large share of the general run of Memorial Day cemetery work, had a busy time last week in other lines particularly in connection with the visit to Chicago of General Kuroki, one order being a four foot wreath of jasmine and cattleyas with a mauve ribbon bearing the inscription, "General Kuroki, May 30, 1907," which the distinguished visitor placed at the base of the Lincoln Monument on Thursday. The unique decoration at the banquet given by General Kuroki was contracted for by the Marshall Field Company who furnished the flags, subtleting the mechanical part of the pagoda to the George Wittbold Company and the floral effects which consisted of iris and other appropriate flowers to P. J. Hauswirth who also furnished the flowers for the dinner given to the oriental General by the Commercial Club on Saturday evening, when the principal flowers were American Beauty and Mrs. Marshall Field roses.

Tom Hopkinson has left the Downer's Grove Floral Company and will resume his connection with Vaughan's nursery at Western Springs.

Leonard Kill, accompanied by Mrs. Kill, left on Monday or a two weeks' sojourn at West Baden Springs, Ind. After recruiting there a trip to Louisville is planned.

A. L. Randall Company, who did much to save the market on ferns from cold storage for Memorial Day, has commenced receiving the new crop from Michigan. Mr. Randall thinks that owing to the close proximity of the river and the lake to his Michigan fruit farm the buds have not suffered as much from late frosts as was at first feared.

The first carload of palms and araucarias has been received at Vaughan's greenhouses at Western Springs.

Mr. and Mrs. O. P. Bassett reached home on Saturday morning last, from a four months' tour of Europe having enjoyed perfect health throughout the trip. Mr. Bassett studied the flower business in every large city visited, but did not find anything to compare with American stores except in Paris, where we were excelled in many ways. American Beauty roses of excellent color and quality, with the longest stems from 20 to 24 inches, retailed for \$5 per dozen, but one could procure an armful of single violets with stems twelve inches in length for a dollar.

J. A. Budlong's American Beauty roses were rested during the Winter and an excellent crop is now making its appearance. This house had a splendid holiday trade last week, shipping seventy thousand carnations in two days and other seasonable flowers in proportion.

A very close and interesting game of baseball was played last Sunday afternoon at Washington Park, between Kyle's Florist Nine and the Roosevelts, resulting in a victory for the former by a score of 8 to 7.

The J. B. Deamund Company is receiving a handsome assortment of well-grown gladioli which find a ready market.

Willie Manthey, the bright young assistant in P. J. Hauswirth's Auditorium store, left on Tuesday for New York whence he sailed on Thursday for a two months' visit to Berlin, Germany.

The E. F. Winterson Company received on Monday the first case of this season's crop of Michigan ferns. This concern was well supplied with fresh ferns from a distant source last week and helped several houses who otherwise would have had absolutely none with which to fill orders.

Vaughan & Sperry report a large increase in the Memorial Day business over last year and owing to the good quality of stock a much more satisfactory outcome. This house received a box of Eastern violets on May 31 and will shortly commence to handle John Bruckner's annual daisy crop, which Mr. Bruckner says at the height of the season will exceed fifty thousand a day.

The improvements at Fleischman's Jackson Boulevard store, turning two stores into one and doubling their present facilities, go on apace, yet it will probably be sixty days before the alterations will be complete.

Gus. Balluff has severed his connection with the Alpha Floral Company, and L. R. Bohannon has entered their employ, he having been succeeded at Fleischman's north side store by Mr. Harrison until recently with the Central Floral Company.

Percy Jones came in for his share of the good business last week; in fact, it was the general verdict of the flower market stallholders that the week was one of the best on record.

J. B. Murphy, recently in charge of the rose section of A. Lies' range at Niles Center and previously with the Chicago Rose Company, has purchased the plant and goodwill of the Manistee Floral Company, Manistee, Mich.

WILLIAM K. WOOD.

Rochester, N. Y.

News Items.

Considerable interest is manifest here concerning the possibility of the launching of a new venture by several business men to engage in the rose growing industry. The plans are to build a range of glass suitable for that purpose at a cost not to exceed \$30,000. Only one serious drawback, however, presents itself, and that is the comparatively small amount of sunshine that is recorded here. Rochester needs such an enterprise, as a great number of roses are shipped here the year round, and that the promoters may have every success in locating in a desirable spot not far from here is the earnest wish of local dealers.

In the early days of last month this city felt the dire need of a practical greenhouse foreman to care for its houses located in Highland Park. So the City Fathers decided to place the position on the list for civil service examination. Consequently in due time there appeared in the daily papers a notice that at such a date, such examination would be held for the position, applicants to be required to fill out certain papers, certified to by three reputable citizens, and also by an M. D. stating applicant to be in good physical condition and able to work.

For the benefit of those who might sometime wish to take a similar examination, here or in some other city, perhaps the publication of a few of the questions might give some clue as to what might be required of applicants.

Each question counted for 3 per cent, and there were 25 of these, the last one being "State fully your experience, and where gained, that you think would fit you for the position named herein, 25 per cent." Some of the others follow:

"Write down what you think are the duties of a greenhouse foreman, in connection with a park system." "What is a species?" "How would you propagate a species?" "Describe fully what is meant by a variety." "What is meant by the crown bud and the terminal bud on chrysanthemums?" "What coniferous evergreens can be readily grown from seed, or from cuttings?" "State how to care for same." "How would you graft the various evergreens?" "How many geraniums are required for a bed 15x30 feet?" "How many tulips are required for a bed 15x20 feet."

"How would you propagate chevérias?" "Describe fully what you know concerning the two horticultural groups of orchids." "How would you care for same?" "What are the different groups of begonias known as?" "Name six different groups of roses." "How are hybrid perpetual roses usually grafted?"

No questions relating to soil, manures, temperatures or watering were asked, consequently the four candidates heaved a sigh of relief when all papers were handed in, and after a delay of three or four weeks results were mailed as follows: Mr. Dukelon, present acting foreman, number 1. Ambrose H. Secker, number 2. Wm. Henckel, number 3. Mr. Kidder, number 4. COCKNEY.

CANAL DOVER, O.—C. Betscher says he has over 1,200 sorts of peonies, the plantation occupying about five acres. More than an average crop of bloom is in sight, he says, but as the weather is very cool the flowers may barely be right for the Ithaca (N. Y.) meeting. If, however, nothing interferes, Mr. Betscher states he will make a great showing there. He adds that peonies, generally, are not very well set with buds this year; he is informed by Western growers that they will only have 20 per cent. of a crop, or a little more.

Columbus, O.

A Cold May.

A month ago I wrote that we had experienced the coldest April in years. The same conditions prevail; this very week we have had hard freezing and quite thick snow in some sections. All kinds of planting have been much delayed, and a much larger proportion of the early sowings have rotted in the ground than ever before; for not only has it been cold, but we have had incessant rain. Conditions to date could not be worse. Very little bedding stock comparatively has been set out; this year our florists will find June a good business month.

News Notes.

The State's tribute to Mrs. William McKinley was a very large and elaborate anchor of Golden Gate and Bride roses, and blending varieties of carnations; the piece resting on an American flag of the same flowers. This splendid design was executed by the Franklin Park Floral Company.

The great interest the children are taking in school gardening, is well shown at one of our largest schools; scholars, to the number of over seven hundred, each subscribed three cents, with which money was purchased sufficient California privet to hedge the school property. Under the able supervision of the principal, the entire work was done by the children.

Mayor Badger is taking the greatest interest in the improvement of Franklin Park; he hopes to make it more beautiful than ever before. A new driveway along the north side, with a new entrance, is under consideration. The number of bedding plants to be used will also be greatly increased.

The killing frosts we have been having lately have kept everyone on the anxious seat. Night after night it has been necessary to cover what bedding stock and other tender plants had already been set out. In the fruit belt the growers have been building huge bonfires to protect the orchards.

Last week the Home For Friendless Children held its annual "poesy party," the object being to decorate the grounds with the seeds and plants donated. As usual our club sent a goodly assortment of seeds.

The Columbus Floral Company are very much pleased with the good trade they did all last week for Memorial Day. Being just started they have no previous holidays to compare with, but are satisfied. They sold entirely out of bedding plants.

Flower thieves are getting in their work in all parts of the city. Such plants as geraniums, and in fact anything that has been pot grown and therefore easily lifted and re-potted, are their favorite plunder. There is little doubt that the same plants are again sold on the market. No thief has as yet been caught.

Graff Brothers are delighted with the trade of Memorial Day; they sold everything they could get, and at good prices. William Graff calls it by far the best business ever done in Columbus, for this holiday.

The committee of experts, who will make plans for the permanent beautification of Columbus, are here. Austin W. Lord of New York is chairman; C. Mulford Robinson of Rochester is secretary; the other three members are Messrs. Albert Kelsey of Philadelphia; C. M. Lowrie and H. A. MacNeil of New York. For their plans the city has appropriated \$5,000.

C. A. Roth reports the largest business ever done on a Memorial Day. He made a special run on white stocks, of which he had an enormous quantity of his own growing; they all went at \$1.00 a dozen. Prices as a whole ruled higher than usual, owing to the shortage of hardy stock; what few peonies there were brought \$2.00 a dozen.

Mayer & Gutknecht, the selling agents here for Landreth's seeds for twenty-six consecutive years, report a most satisfactory season, although much later than ever known, on account of the weather. The department stores do not seem to have sold as many seeds as usual; one of the largest is this week offering to close, a dozen packets for eight cents.

F. W.



The Whilldin Pottery Co.
STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

Main Office and Factory,
713 WHARTON STREET, PHILADELPHIA
WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



The Moninger Company Catalogue.

An exceedingly attractive catalogue, entitled "Perfect Greenhouse Construction," has just been issued by the well known house of J. C. Moninger Company, Chicago. Beautiful half-tone reproductions of photographs of ranges of greenhouses constructed by this firm are presented; these include views of many of the largest establishments located all over the country, showing the extensiveness of the concern's business. In addition, many reproductions of drawings showing cross-sections, posts, gutters, ventilators, sash, and other parts of greenhouse equipment, including the Chicago ventilator lifter, are provided; and a host of useful information on the subject of greenhouse construction supplied.

From the catalogue we take the following bit of history concerning the founding and development of the firm, which, we feel sure, will be read with interest:

"In 1849, in Chicago, Frank C. Moninger, who was then a young man, began making hot bed sash for growing early vegetables, selling them to the farmers and truck gardeners located in and near the city. He had no factory and made the sash by hand in a small rented room. What sash he made were made well and his trade increased, the old customers re-ordering and new ones constantly coming in. After about twelve years, during which time the business had grown considerably, the idea of a greenhouse was evolved and one was built for Samuel Garland, Sr., in 1861, out of sash at Des Plaines, Ill. This house is now used for propagating carnations by Samuel Garland, Jr. Other houses were built shortly after this and the method of construction was steadily improved, until finally in 1868 Frank C. Moninger and John L. Diez formed a partnership for the purpose of making greenhouse construction material a specialty, both of them realizing that the increasing demand for better material and lighter construction would mean the specializing of the work. Sash bars were then first manufactured in Chicago and the first of these were supplied to Miller & Hunt, located north of Chicago in what is now Lake View. After these sash bars were introduced other houses were built of them by George Wittbold and Samuel Garland. Inquiries came in from other towns around Chicago and when the firm of John L. Diez & Co. was succeeded in 1892 by the late John C. Moninger, sash bar material had been furnished to florists in nearly every state in the union. On the death of John C. Moninger in 1894, after his being in the business but two short years, the present firm incorporated the business under its present name. The men now at the head of the business were formerly employed by John L. Diez & Co., and John C. Moninger, therefore were thoroughly acquainted with the work and took it up aggressively from the start. The present office and factory occupies almost an entire city block and is the largest plant in the world devoted exclusively to the manufacture of cypress greenhouse roof construction material. The yards contain the largest stock of strictly clear, open air dried, Louisiana Gulf Coast red cypress to be found anywhere outside of Louisiana. This great business has been built up through persistent, determined effort and close attention to the wants of each and every customer. Through experience the manufacture and class of material has been improved every year until now a perfect product is placed on the market at fair and reasonable prices."

IDEAL PLANT FOOD

Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.

EDWARD MACMULKIN,
194 BOYLSTON ST., BOSTON, MASS.

Sheep Manure

Pulverized. Free from all Adulteration.

In Bag, \$18.00 per Ton.

ROBERT SIMPSON
Clifton N. J.

Buffalo, N. Y.

Trade Notes.

W. J. Palmer & Son had the Gleney-Prentice wedding last week. While the decorations were not elaborate at the house, the church (Trinity) was decorated with Gothic arches made of laurel, and two large columns sixteen feet high, topped off with an abundance of hydrangea plants. An abundance of ribbon was used on columns and arches. The same firm had three other decorations the past week, one a table in which they used 3,000 pansies in a wreath encircling the table with a centerpiece of white and yellow daisies; another of Richmond roses and lily of the valley, making a very pretty combination, the other of Mme. Abel Chateaux roses and individual bunches of sweet peas.

W. H. G.

AMHERST, MASS.—Owing to the excessive amount of the State tax this year the committee on ways and means of the lower house of the Legislature could not see the way clear to favor the appropriation of \$22,000 for a new greenhouse for the horticultural department of the agricultural college. The bill will now be advanced to its final passage. It provides \$24,400 for completing Clark hall for the botanical department in charge of Professor G. E. Stone, whose work has been of great value to the florists and gardeners in discovering remedies for the diseases attacking plants growing under glass. He has never appeared as a competitor with producers, but always as co-laborer. With his new facilities Professor Stone will be able to do much better work than was possible under the former conditions.

OGDEN CITY, UTAH.—The Ogden Floral Society has been organized here; T. W. Stilwell was elected president and E. J. Hendershot, Jr., secretary and treasurer. Among other things the society will regulate the price of flowers, wholesale and retail, and will accept bids only through the approval of the society. In this manner, competition will be limited to a small degree which the florists claim will prove satisfactory to the public and agreeable to horticulturists.

EAST ORANGE, N. J.—The home of George Smith, the leading florist of East Orange, was blessed with an infant daughter on May 30. The wires were kept warm for a time with congratulations. Mother and infant are doing well.
J. B. D.

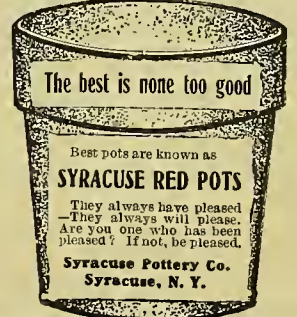
STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate	Price per crate
2800 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20
1800 2 1/4 " " " " 5.25	60 8 " " " " 6.00
1500 2 1/4 " " " " 6.00	HAND MADE
1000 8 " " " " 5.00	48 8 in. pots in crate, \$5.60
800 8 1/2 " " " " 6.80	24 11 " " " " 6.80
600 4 " " " " 4.50	24 12 " " " " 4.80
820 5 " " " " 4.61	12 14 " " " " 4.80
144 6 " " " " 8.18	6 16 " " " " 4.60

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawa Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts., 31 Barclay St., N. Y. City



....Send for Particulars....

REGARDING

Tobakine Products

"THEY KILL BUGS"

"Flowers and Profits"

is a profitable and interesting booklet.

E. H. HUNT, General Agent
76-78 Wabash Avenue, Chicago, Ill.



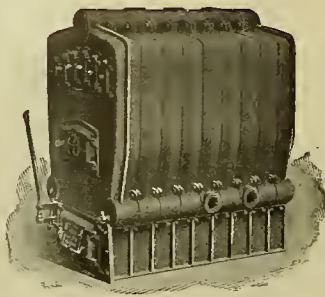
THE BEST
Bug Killer and
Bloom Saver

For PROOF
Write to

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LOUISVILLE, KY.

BROUGHT THE LARGEST RETURNS *
We would ask you now to drop our advertisement. Two-thirds of the returns we have received have come from The Florists' Exchange.
ELLSWORTH BROWN & CO.

H AND C



HOLDING A FIRE

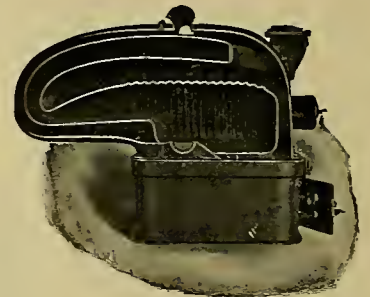
in an even, slow burning way—a way that burns but doesn't clog—burns all the coal on all the grate and not in the center only—that's the kind of test that tests the actual good there is in a boiler—proves the even burning argument—proves the Hitchings Boilers to be the most economical greenhouse boilers.



HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway, NEW YORK.



H AND C

WEATHERED COMPANY.

Builders of Iron and Cypress Greenhouses
Greenhouse Heating and Ventilating Apparatus

P. O. Address, Box 789,
New York City.

Cincinnati, O.

News Notes.

Memorial Day will go down into history as being the first in many years when outdoor flowers did not quite cut a figure; but 1907 is an exception. Inside grown stock of all kinds had their call, and everything sold, even crimson clover. The only complaint heard is, that there was not half enough stock to supply the demand. Funerals and school commencements, with a number of "knot-tyings" will give us a nice business this month. If the flower growers in Ohio were as progressive as the vegetable growers, we would have more stock to sell.

Will Sunderman of Price Hill will build two houses, each one hundred feet long, for growing cut flowers and plants.

F. Lautenschlager, representing Kroeschell Brothers Company, Chicago, was a caller Thursday; he informs me that he has sold this week hot water boilers to heat one hundred and ten thousand feet of glass.

H. Hesse of Hamilton, O., is erecting a range of glass to grow vegetables.

J. F. Fahrenkamp, Plainville, O., is putting up twenty-seven thousand feet, iron construction greenhouses for vegetables. The Cincinnati Greenhouse Construction Company is doing this work, and Kroeschell's No. 13 hot water boiler will do the heating, with their hot water system.

Fred. Bahr, Middletown, O., is putting up a range for vegetable growing; and George F. Moore of Rushville, Ind., is building four houses, each 125 feet long, for cut flower and plant growing. So you see that vegetable growers are waking up, and will grow their products by more improved methods and in well-constructed greenhouses.

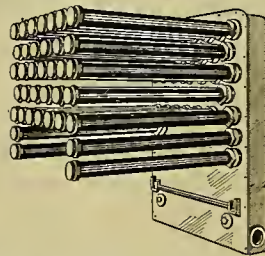
C. J. Ohmer writes me from California that it would open the eyes of the craft around Cincinnati if they could see some of the palms and geraniums grown in the Golden State. He will tour Yellowstone Park before he returns.

Roses and carnations coming into the market now begin to show the traces of Summer. Peonies will commence to come in more plentifully next week unless we have another freeze, which is not unlikely.

J. Chas. McCullough sails soon for Europe. He is one of the progressive seedsmen of the United States and is very popular with the trade.

Mrs. Samuel Batson, wife of The Florists' Exchange's correspondent in Kalamazoo, Mich., accompanied by her boys, sailed from New York, May 25, to visit her old home in Scotland, and all those who are so fortunate as to have her acquaintance, wish her a safe and pleasant voyage and a safe return.

E. G. G.



The LOW BOILER

4 ft. high. Can furnish lower if necessary. This boiler is designed and specially adapted for greenhouse service. The form of construction makes it very efficient and economical. Write for prices and booklet. Free Hose Trial, Pipe Fittings, Valves, Etc.

WM. H. KAY CO., 244 Fulton St., NEW YORK

GREENHOUSE GLASS ALL SIZES

16x24 A. & B. Double a Specialty
C. S. WEBER & Co.,
10 Desbrosses St., New York

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.



Holds Glass Firmly
See the Point at FULL SIZE
PERLESS
Glazing Points are the best.
No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

FRANK VAN ASSCHE GREENHOUSE BUILDER

Private or Commercial Iron or Wood.

Factory and Yards: Fulton and Rose Ave.
and Dwight St., Jersey City, N. J.

Please take out my advertisement, as I am all sold out. Your paper did the best of the lot.

Yours truly,

Samuel Whitton,

Hill Top Greenhouses, Utica, N. Y.

SAVE TIME AND MONEY

OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS

LET US ESTIMATE ON YOUR HEATING,
VENTILATING APPARATUS, HOT-BED SASH

Putty--GREENHOUSE GLASS--Points

AT WHOLESALE

S. JACOBS & SONS,

GREENHOUSE CONSTRUCTION MATERIAL

1365-79 Flushing Ave.,

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Look Here, Mr. Florist and Gardener

WE have just passed through an unusually severe winter and you are apt to forget the many sleepless nights you spent worrying about the temperature of that No. so and so house.

Or the many zero nights that you spent in the boiler pit; maybe you did not have to do the stoking and firing, but *you* certainly had to do the worrying and pay the coal bills.

Now keep the vows you made on those trying occasions, *And Send for me.* I have solved the problem for others, I can do it for you; and remember, I will come recommended by some of the most prominent commercial florists and gardeners in the East, "Personal friends of yours."

Wm. H. Lutton,

Heating Engineer

WEST SIDE AVE. STATION, JERSEY CITY, N. J.



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FOR Greenhouse Glazing

USE IT NOW.

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NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Evans Improved Challenge


Roller-bearing, self-oiling device, automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
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For Greenhouses, Graperies, Hot beds Conservatories, and all other purposes. Get our figures before buying. Estimates freely given

GLASS

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U-BAR GREENHOUSES
 FOR FLORISTS' SHOW ROOMS, PARKS AND PRIVATE ESTATES.
PIERSON U-BAR CO. Send for Catalog
 Designers and Builders U-Bar Greenhouses
 Metropolitan Building, 4th Ave. and 23d St., New York

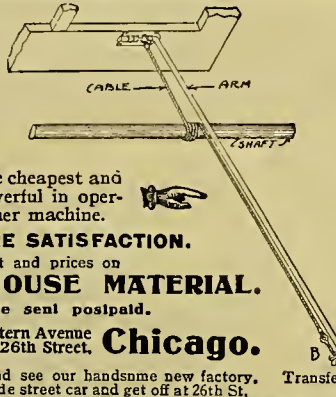


GEO. M. GARLAND
Iron Gutters and Posts
 Patented December 27th, 1898.
 Send for Catalogue.
 Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at Chicago Flower Growers' Market.

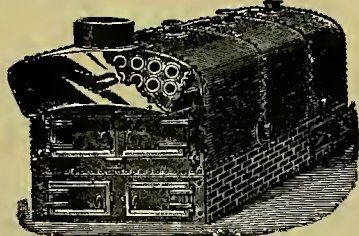
THE JENNINGS IMPROVED IRON GUTTER
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DILLER, CASKEY & KEEN. Successors to JENNINGS BROS.
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The FOLEY VENTILATING APPARATUS.



Has met with great success, being the cheapest and best on the market; simple in make; powerful in operation. Less effort to work than any other machine.
HUNDREDS IN USE GIVING ENTIRE SATISFACTION.
 Send for descriptive pamphlet and prices on **ALL KINDS OF GREENHOUSE MATERIAL.**
 Our large illustrated catalogue sent postpaid.
FOLEY MFG. CO., Western Avenue and 26th Street. **Chicago.**
 Our visiting friends are heartily welcome to call and see our handsome new factory. Transfer to S. Western Ave. from any West Side street car and get off at 26th St.

THE KROESCHELL BOILER
IS THE ONLY PERFECT HOT WATER BOILER



Made in 15 sizes heating 6,000 to 50,000 square feet glass to 60° at 15 below zero.
 Prices and Catalogues on application.
KROESCHELL BROS. CO.
 33 ERIE STREET, CHICAGO.

DO YOU WANT LOW PRICES

or are you willing to pay for honest material and give what it is worth? If you believe that everybody figures on the same material just because you asked for one house so wide and so long, you are much mistaken, and that if his price is lower he is the fellow that should have the order, you are mistaken still more. Now the fact is that no two firms figure on the same quantity and size of material, though they are both estimating on the same sized house. One firm thinks wall blocking, coping and apron is not needed and puts in just a plain ordinary plank in their place—this lowers his price but you get less stuff and the construction is not as good. Our price is reasonable but we estimate on the right quantity, size and quality of material that should go into your greenhouse. You'll get full value for your money if you buy of us.

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 115 E. Blackhawk Street.

IN YOUR NEW HOUSES



You surely wish to combine all approved new features of construction with the best grade of material at reasonable prices.


Write us for **ESTIMATES AND SUGGESTIONS**
 They will interest you.

La. Cypress and Wash. Red Cedar **Greenhouse Material**

Greenhouse Hardware and Parts

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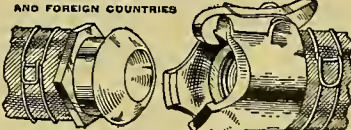
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Are easy to operate. Ready to run any time and give plenty of water and plenty of pressure. What more do you wish?
The Standard Pump & Engine Co. CLEVELAND, O.

Advertise in The Florists' Exchange and be sure of results.

PATENTED IN UNITED STATES AND FOREIGN COUNTRIES



\$3.00 per doz. sets, two pieces.
 \$2.25 per dozen females for faucets.
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IF you are going to build a greenhouse consult the pioneers in the manufacture of the stock. Cypress sash bars 32 feet or longer.

The A. T. Stearns Lumber Co.
 NEPONSET,
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WHOLESALE TRADE LIST

Ageratum Inimitabile, Blue Perfection; **Heliotrope**, Cupheas, Ipomoea, heavenly blue; variegated **Periwinkle**, **Cobaea Scandens**, **Parlor Ivy**, **Lobellias**, dwarf; **Snadragon**, giant white **Nasturtiums**, **Saxifraga Sarmentosa**, **Bouvardia Humboldtii**; **Shasta Daisies** 3 varieties. **Stokesia Cyanea**, Night blooming **Jasmine**, **Hydrangeas**, **Thoe**, **Hogg**, **Otakas**; **Verbonas**, **Patunias**, **Howard's Star**, and **Rosy Morn Patunias**, double white. The above nice plants from 2 1/2 in. pots, 50c. per doz., \$3. per 100.

Fuchsias, in variety; **Heliotrope**, variegated **Geraniums**, Mrs. Parker, **Clematis Paniculata**, **Swaissosa Alba**, **Yellow Daisy**, **Etoile d'Or**, **Feverfew**, **Little Gem**, **Ageratum Inimitabile**, **Nicotiana hybrids**. Strong plants from 3 in. pots, \$4.00 per 100.

Wistaria Sinensis, **Variegated Periwinkle**, **Honeyuckle**, plants from 4 in. pots, \$1.50 per doz.; \$10.00 per 100.

Coleus Varachaffetil, **Golden Badder**, **Queen Victoria**; **Achyranthes Lindenii**, **Golden Feather**; **Alternantheras**, yellow 2 1/4 in. pots, \$2.00 per 100.

Carnations, **Vulcan**, a fine, red variety for Summer blooming \$2.00 per 100.

Seedlings From Flats, **Asparagus Sprengeri**, **Dracaena Indivisa**, **Shasta Daisies**, **Ageratum**, Blue Perfection; **Margarita Carnations** for Summer blooming, \$1.00 per 100.

Clematis, large flowering varieties, fine, healthy 2 year-old plants; home grown; **Jackmanni**, **Henryi**, \$3.00 per doz.

Ampelopsis Veltchli, 3 in. \$5.00 per 100.

Hardy Scotch Pinks, clumps from open ground, 5 varieties \$1.00 per dozen.

Asparagus Plumosus, and **Sprengeri**, fine plants, 5 in. pots, \$2.00 per doz.

Passiflora Coerulea and **Pfordtii**, **Mammoth Beauty**, a hardy variety, 4 in. pots, \$1.00 per doz.; 3 in. pots 75c. per doz.

Pansies in full bloom \$2.50 per 100. **Geraniums** **Mime**, **Sallerol**, strong \$4.00 per 100.

Carnations, **Rooted Cuttings** from soil. **Helen Goddard** pink, **Elton scarlet**, **Gov. Wolcott** white, **Vulcan**, a fine red variety for summer blooming.

11th & Roy Streets,
C. EISELE, PHILADELPHIA, PA.



I Manufacture and Erect

Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your requirements.

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33 Clendenny Ave., Jersey City, N. J

Sash opening apparatus and all kinds of greenhouse structural material.



The STANDARD VENTILATING MACHINERY

The original machine with self ciling caps; the most powerful, least complicated, very compact, with ease of operation.

The New Duplex Gutter over six miles in use and highly recommended; the only drip proof gutter in the market.

The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

The Greenhouse Structural Co.
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Manufacturers of IRON FRAME GREENHOUSES
Re-enforcing for Concrete "Post and Board" Walls.
Ventilating Machinery, Iron Fittings, Iron Purlins and Gutters for wood houses, etc., etc.
Send for catalogue and designs.



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That we manufacture Steam and Hot Water Boilers.
That we contract for and erect Heating Apparatus.
That we make a specialty of curing defective apparatus.
That our staff of Heating Engineers is reliable and competent.
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Where the Clasp Comes In

Last week we said some pretty straight things about the strong points in our galvanized angle iron eave plate—now for that clasp. It makes a dry joint just where the usual wet joint means rapid decay. It leads off all condensation, the thing that causes such havoc with other houses built other ways.

It is fastened with countersunk screws to the eave plate and strongly screwed to the bar, making not a socket but a clasp—a regular grip-joint. This structural point alone adds tremendously to the strength and life of our houses.



It's easy enough to know a house's weak points, but it's another thing to make the weak parts strong—that's our strong point. Clasp and eave plate sold in any quantity you want. Send for circular and prices.

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Greenhouse Designers and Manufacturers.

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1133 Broadway, Corner 26th Street.

BOSTON BRANCH: 819 Tremont Building.
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The Florists' Supply House of America

June Weddings and Commencements

Novelty lace bouquet holders in white, delicate pink, Alice blue and lavender colors, just the thing for commencement bouquets. A full line of Baskets for wedding and commencement orders.

NEW CHIFFON MATS, MINIATURE CHINA SLIPPERS, SWANS, etc.
GRASS GROWING NOVELTIES, HEADS, ANIMALS, etc., and various expressions WHEAT SHEAVES, CYCAS LEAVES

A Complete Line of Everything in Florists' Supplies

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H. Bayersdorfer & Co., 1129 ARCH ST., PHILADELPHIA, PA.

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- - - IS SURE TO BRING RESULTS - - -

THE FLORISTS' EXCHANGE

We are a sturdy plant that grows into a vigorous plant
 A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL

Vol. XXIII. No. 24 NEW YORK AND CHICAGO, JUNE 15, 1907 One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
 Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Enchantress and Laween types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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

YOUNG Rose Stock

Only a Few Thousand Left

Bride, Bridesmaid, Kaiserin, Carnot, Wellesley, Richmond, Killarney, Chate-nay, Tom Field and American Beauty.

WRITE FOR PRICES

W. H. ELLIOTT, Brighton, Mass.

Canna King Humbert

Grand Orchid flowers with bronze Musa-like leaves, strong 3 inch. Doz. \$3.00, 25 for \$6.00 Get it now.

Asparagus Plumosus Nanus

Fresh greenhouse grown seed of highest vitality, grows into money quickly. Per 1,000, \$4.00; 5,000 for \$17.50; 10,000 for \$30.00.

RUSTIC HANGING BASKETS

	9-inch	11-inch	12-inch	14-inch
Each	\$0.85	\$ 1.00	\$ 1.25	\$ 1.50
Dozen	9.50	11.00	13.00	16.00

BEST GRADE CANE STAKES

6-8 feet.....100 for \$1.00; per 1000, \$6.00

Lil. Harrisii, Freesias, French Romans, Paper White Narcissus Write for Price List

Vaughan's Seed Store

14 Barclay St., New York Tel. 1676 Cortlandt
 CHICAGO, 84 Randolph St. Greenhouses, Western Springs

Dahlias Geraniums

PLANTS

We offer a collection of standard sorts that is second to none in the country, as far as covering the field of distinct useful varieties and novelties, running in price from \$2.00 per 100 to 60 ets. each.

We will send 1000 our selection, 50 each, 20 kinds for \$18.00 in either Cactus, Decorative or Show, or to include some of all classes, or 500, 26 each of 20 kinds for \$9.00, not less than 500 at this price.

HARDY PHLOX, Coquelicot, Matador, Nuit, Bridesmaid, Andreas Hoffer, etc., splendid stock from 2-in. pots, \$3.00 per 100; \$25.00 per 1000.

Hardy Chrysanthemums

Large flowering or Aster varieties, \$3.00 per 100, \$25.00 per 1000.
 Small flowering or Button varieties, \$2.00 per 100; 18.00 per 1000.

ALTERNANTHERA, six varieties, \$2.00 per 100; \$18.00 per 1000.

HARDY ENGLISH IVY, extra strong, \$18.00 per 1000. \$2.00 per 100;

SMILAX, good stock, \$2.00 per 100; \$18.00 per 1000.

Standard varieties and novelties for \$2.00 per 100 up to 75c. each. We will send one thousand in twenty varieties. Our selection single and double for \$15.00.

Caesar Franck. Beautiful soft crimson Ivy Geraniums, 1905 Novelty, 25c. each, \$1.50 per doz., \$10.00 per 100.

Alliance. The handsome semi-double hybrid between an Ivy and a Zonal color of the Col. Baden-Powell, strong robust grower, \$1.50 per doz.; \$10.00 per 100.

Special offer for a short time

To introduce the newer varieties and to give an opportunity to have them thoroughly tested we will for a short time send one each of 100 varieties of the 1905 and 1906 novelties, our selection for \$10.00 cash. This collection will include those of such noted introducers as Bruant, Lemoine, Rozain-Bouchalat and H. Cannell & Sons and represent one of the finest collections of geranium novelties ever offered in this country. Do not ask us to send less than 100 at this price. If you haven't our Geranium Catalogue send for it.

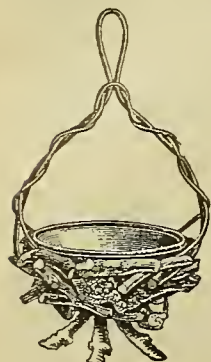
All stock is in A No. 1 condition and from 2 in. pots, unless otherwise stated.

Our wholesale catalogue to the trade only.

Visitors always welcome. Cash With Order.

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

Hanging Baskets



10 in Bowl	\$1.10	Doz.	\$11.00
12 " "	1.25	"	13.00
14 " "	1.50	"	16.00

RUSTIC SETTEES	\$7.00
" WINDOW BOXES	1.25
" ARM CHAIRS	3.25
" TUBS	1.25
" TUBS, on Stands	2.75
CANES for Chrysanthemums, 1000,	6.00

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

RAWSON'S GOLD MEDAL STRAIN PRIMULA CHINENSIS

Are today The Choicest Primulas grown in America. The seeds are raised for us exclusively by an English grower who has the reputation of producing The Finest Primroses in Great Britan.

NOW IS THE TIME TO SOW

Pure White, Brilliant Pink, Deep Blue, Chiswick Red, Crimson, Salmon, Christmas Red and Superior Mixture at 50c. per 100 seeds or \$4.00 per 1000

OUR SEED IS STRONG IN GERMINATION

W. W. RAWSON & CO.
5 UNION STREET, BOSTON, MASS.



Established 1802.

Thorburn's Seeds

Asparagus Plumosus Nanus Seed

Send for prices.
COLD STORAGE

Lily of the Valley Pips

best possible grade, in cases of 1000 and 3000 pips each, at \$12.00 per 1000.

Advance orders now being booked for Bermuda Easter Lilies and Roman Hyacinths. Send for prices.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place, New York.

Everything of the highest grade.

ASTER SEEDS

There is ample time to sow Asters for general crop. The seeds we offer are 1905 crop and of our own growing. Several of our customers advise us that they germinate a hundred per cent.

	Td. Pkt.	1/4 oz.	Oz.
Queen of Market, in separate colors, white, light pink, rose, lavender and purple	.....	\$0.10	\$0.16 \$0.50
Snowdrift, early white	.....	.35	1.00 3.00
Daybreak	.....	.25	.40 1.25
Carlson's Branching, separate colors, shell pink, lavender, white and late white	.....	.20	.30 .80
Late Branching, in separate colors, white, shell pink, light pink, bright rose, lavender and purple.	.....	.20	.30 .80

Special prices quoted on large quantities.

NATHAN SMITH & SON, Adrian, Mich.

PALM SEEDS

FOR IMMEDIATE DELIVERY.

	Per 100	Per 1000
Kentia Belmoreana	.....\$0.75	\$ 6.50
Latania Borbonica	..... .40	2.50
Livistona rotundifolia	..... 1.75	15.00
Phoenix rupicola	..... 1.00	7.50
Phoenix reclinata	..... .50	3.00
Phoenix Canariensis	..... .50	3.00
Dracena Indivisa, \$2.00 per lb., per oz. 15c.		
Asparagus plumosus nanus, greenhouse grown, 75c. per 100 seeds, \$1.00 per 250 seeds, \$3.00 per 1000 seeds.		
Asparagus Sprengerii, 10c. per 100 seeds, 50c. per 1000 seeds,		

ARTHUR T. BODDINGTON,
342 W. 14th Street, New York City

XXX SEEDS

CHINESE FIMBROSE. Finest grown, large flowering, fringed, single and double. 15 varieties, mixed, 500 seeds, \$1.00; half pkt., 50c.
CINERARIA. Finest, large flowering, dwarf, mixed, 1000 seeds, 50c.
GIANT PANSY. The best large-flowering varieties, critically selected, 5000 seeds, \$1.00; half pkt., 50c.; 500 seeds of Giant Mima. Perret pansy added to every \$1.00 pkt. of Giant Pansy.
PRIMULA OBCONICA GRAND. Giant flowering mixed, 1000 seeds, 50c. Cash. Liberal extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.

Choice Pansy Seed a Specialty

Ask for price list and testimonials received from American nurserymen.

V. FROMHOLD & COMPANY
Pansy Seed Growers,
Naumburg On Saale, Prov. Saxony, Germany

Giant Cinerarias

Mixture of perfect Colors.
Dwarf Hybrids } Each separate
Semi-Dwarf Hybrids } Tr. Pkt. \$0.50
6 Tr. Pkts. \$2.50
O. V. ZANGEN, Seedsman, HOBOKEN N. J.

LILY BULBS, Sound and Plump

AURATUM 8 x 9—130 to the case—\$6.00 per Case.
9 x 11—90 to the case—\$6.30 per Case.

FUNKIA VARIEGATA

\$3.00 per 100, \$25.00 per 1000. Strong, Divided Shoots.

Stump & Walter Co

50 BARCLAY STREET, NEW YORK

200,000 CALLA LILY BULBS --- ÆTHIOPICA



Calla Aethiopica, 10 inches circumference.	100	1000
" " " "	9	\$10.00 \$90.00
" " " "	8	9.00 80.00
" " " "	7	8.00 70.00
" " " "	6	7.00 60.00
" " " "	5	5.50 45.00
" " " "	4	4.50 35.00
" " " "	3	3.50 25.00
" " " "	2	2.25 15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My second car leaves for the East promptly on July 15. If cash is sent with the order I will prepay the freight, which is 15 per cent. value of the bulbs.

A. MITTING, 17-23 Kennan St., SANTA CRUZ, CAL.

WANTED WANTED WANTED

People who are desirous of receiving the best stock in **Bulbs, Plants, etc.**, at reasonable prices!

Prices will be cheerfully given to those applying to

F. W. O. SCHMITZ, Prince Bay, N. Y.

JAMES VICK'S SONS, Seedsmen

Rochester, N. Y., May 21th, 1907.

Florists' Exchange, New York City. Gentlemen: In our letter of last week we hinted at plans for increasing our rapidly growing Wholesale Department. One of the lines along which we are working is the Fall Bulb Trade in which we are making a special feature of **Import Prices** on orders which are sent to us now.

For Quality our stock cannot be surpassed. The truth of this statement is supported by the fact that our Bulb business has nearly doubled in three years. If this does not show that our customers are pleased with our bulbs, we do not know what would. If any of your readers want rock-bottom import prices we invite them to send us a list of their wants and get our quotations, or else drop us a postal for our Import Bulb List. Yours very truly,

JAMES VICK'S SONS.

PALM SEED

Sabal Palmetto, the hardiest of all tall growing palms, 30c. per 100 or \$2.50 per 1000. The same from 2 in. pots, four leaves \$3.00 per 100. **Latania Borbonica,** 4 in. pots, \$3.00 per 100, showing character leaves; 3 in., \$5.00 per 100; 2 1/2 in. pots, \$3.00 per 100; **Chamaerops Excelsa,** 2 1/2 in. pots, \$3.00 per 100; 3 in. pots, \$5.00 per 100, showing character leaves.

B. M. WICHERS & COMPANY, Gretna, Pa.

—Established 1824—

BRIDGEMAN'S SEED WAREHOUSE, RICKARDS BROS., Props.

IMPORTERS AND GROWERS OF HIGH GRADE

Seeds, Bulbs, Plants, Etc.

37 EAST 19th St., Near Broadway, NEW YORK CITY

Tel. 4235 Gramercy.

SEEDS

Hollyhock, Chatier's Primula, obconica, grandiflora, etc., etc., etc. **Giant Cinerarias, Giant Pansy, Imperial strain. Carnations, Margaret; Bellis perennis, etc.,** each kind, pkt., 25c.

IMPERIAL SEED & PLANT COMPANY, Grange, Balto. Md.

BRAINS

are used in mixing our

Pansy Seed

BODDINGTON'S "CHALLENGE"

Mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self colors, the Giant striped and margined, and the Giant blotched—all carefully mixed in proportion—the finest that money can buy—the finest your money can buy. A Florist, who has grown it, said "Why don't you call it Defiance?" Trade pkt. 75c., 1/4 oz., \$1.60, 1/2 oz. \$2.75, oz. \$5.00. New crop ready July. Order Now.

ARTHUR T. BODDINGTON,
342 West 14th St., New York City.



Lambert's Pure Culture Mushroom Spaw. Produced by new grafting process from selected and prolific specimens, thoroughly acclimatized. Has never failed to run. Sold by Leading Seedsmen. Practical instructions on "Mushroom Culture" mailed free on application. **American Spaw Co.** St. Paul, Minn.

PERENNIAL FLOWER SEEDS

Calceolarias and Cinerarias, W. & O's selected strain. Sure Crop Mushroom Spaw; English and Pure Culture. Central Park Lawn Grass. Special prices on application.

WEEBER & DON, Seed Merchants and Growers
114 Chambers Street, NEW YORK

Commercial Violet Culture

Price, \$1.50

The Florists' Exchange, 2-8 Duane St. New York

Sago Palm Stems

(CYCAS REVOLUTA)
 We Have All Sizes—State What You Want
 10 lbs. \$1.00. 25 lbs. \$2.00; 100 lbs. \$7.50; per case
 (300 lbs.) \$21.00.
 Single Tuberos Begonias, Large bulbs, separate
 colors, per 100 \$1.75, per 1000, \$15.00.
 Double Pearl Tuberoses, write for prices.
 Highest Quality French and Dutch Bulbs.
 Now is the time to book your orders.
JOHNSON SEED CO. 217 Market St.
 PHILADELPHIA, PA.

ESTABLISHED 1900

POAT BROS.

BULB GROWERS

ETTRICKS, VA.

NARCISSI
TULIPS

DAFFODILS
IRIS, ETC.

Send For Catalogue.

Florists Bulbs

Import Orders Now Booked.
 Best Grades Only.
 Write For Prices.

W. C. BECKERT,
 ALLEGHENY, PA.

DAHLIAS

2 inch pots, 30 or 40 varieties, at
 \$25.00 per 1000. Not less than five of
 a kind at thousand rates.
ELIZABETH NURSERY CO., Elizabeth, N. J.

C. C. Morse & Co.
 SEED GROWERS, San Francisco, Cal.
 Address all communications to our permanent
 address, 48 to 56 Jackson Street.
**ONION, LETTUCE AND SWEET PEAS AND
 ALL OTHER CALIFORNIA SPECIALTIES**
 Warehouses, Santa Clara. Farms and
 Farm Headquarters, Carnadero, near Gilroy.

Cold Storage Lily Bulbs

FOR IMMEDIATE DELIVERY OR UP TO AUGUST 1st

Lil. Auratum.	100	1000	
8-9 in., 130 in case...	\$5.00	\$48.00	
Lil. Babrum,			
7-8 in., 200 in case...	6.50	60.00	
Lil. Rubrum.			
8-9 in., 200 in case...	8.00	75.00	
Lil. Rubrum,			
9-11 in., 100 in case...	12.00	110.00	
Lil. Melpomene,			
Same price as Lil. Rubrum.			
Lil. Album,			
8-9 in., 220 in case...	8.50	80.00	

Case Lots at 1000 price.

Japanese Bamboo Stakes

for tying Lilies, Roses, Chrysanthemums, Etc.; more durable than any wooden or Southern Cane Stake.
 6 ft. long, 3/4-in. diameter, 70c. per 100, \$5.00 per 1000, \$9.00 per 2000.

Send for our Fall 1907 Catalog.

H. H. BERGER & CO., 70 Warren St., NEW YORK CITY

Extra Heavy Bamboo Stakes

Where very strong support is needed:
 5-7 ft. long, 1 1/2"-2" diameter, 75c. per doz., \$5.00 per 100.

Seeds for Present Sowing

Asparagus plumosus nanus,	100	1000	
(True Greenhouse)....	\$0.40	\$3.00	
Asparagus plumosus nanus,			
Lathouse grown .....	.25	1.75	
Asparagus Sprengeri,			
Fresh crop .....	.15	.75	
Primula sinensis ambriata, fresh crop,			
Pure white	100	1000	
Pure white, yellow eye			
Fiery red .....	.25	2.00	
Beautiful Rose			
True blue			
Yellow or salmon			

From Flats: Asparagus Pl. Nanus Seedlings. \$1.25 per 100, \$10.00 per 1000.
 From Flats: Fern Seedlings, fine assorted. Adiantum, Aspidium, Cyrtomium, Davallia, Pteris, etc. \$1.25 per 100, \$10.00 per 1000.

FISCHER'S GRAND FREESIA PURITY

Will be ready for delivery in July.

PRICES:
 1st grade, \$2.75 per 100; \$22.00 per 1000
 2nd grade, \$2.25 per 100; \$18.00 per 1000;
 250 at 1000 rates.

All orders up to 1000, sent free by mail.
 Limited quantity of MAMMOTH BULBS,
 at \$4.00 per 100.
 Cash with order from unknown parties.

Rudolph Fischer,
 SANTA ANITA, LOS ANGELES CO., CAL.

All Bulb Growers

should not fail to send for our

"Special Bulb Offer"

It will be sure to interest you. Address

HUBERT BULB CO.
 R. F. D. No. 2 PORTSMOUTH, VA.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

"MARKETING FRUIT AND TRUCK CROPS" is the title of a very useful illustrated bulletin (116) just issued by the Maryland Agricultural Experiment Station, College Park, Md.

Bulletin No. 282 of the New York Agricultural Experiment Station at Geneva announces that the cultures for legume inoculation, sent out in dry form on cotton, are unsatisfactory. This applies to both forms of package, paste-board boxes and metal tubes, used for distributing the cultures. The bulletin will be sent without charge by the Station.

For the year ending June 30, 1906, Piedmont, Italy, shipped to the United States clover seed to the value of \$12,549 as compared with \$2,412 in 1905.

BOSTON.—Thos. J. Grey is planning a European trip this summer, the first in many years. He expects to sail on the 29th inst. and will tour the British Isles and Holland making selections of bulbs and plants while there.

New York.—Vaughan's Seed Store received at this port a big consignment of new crop of their special English mushroom spawn. This firm is closing arrangements now for several carloads of this season's crop of Kentucky blue grass.

Judging from the number of delegates, who already have secured accommodations at the Hotel Astor, Times Square, the headquarters of the American Seed Trade Association for the forthcoming convention here, there will be a gratifyingly large attendance. Arrangements for entertainment are progressing most satisfactorily under the direction of Chairman M. H. Duryea, and a pleasant as well as a profitable time is assured to all fortunate enough to be present. The committee feels that it is quite capable of attending to and carrying out its part of the program, and this it will do in the way of providing a banquet and otherwise, having in view only that which will conduce to the greatest delectation of its anticipated large number of guests.

IMPORTS OF SEEDS, ETC.—June 4.—O. G. Hempstead & Company, 10 cases plants; Maltus & Ware, 18 tubs bay trees, one case plants; Chas. F. Meyer, eight cases plants; T. C. Pollock, one case plants; Smith & Bolzenthal, 14 tubs laurel trees, 13 cases plants; Maltus & Ware, two cases plants; S. D. Crosby Company, 30 bushels garden seed; H. Frank Darrow, 12 cases plants; Knauth, Nachod & Kuhne, eight cases plants, etc.; Peter Henderson & Company, three cases plants; Hampton, Jr. & Company, two cases plants. June 5.—A. E. Outerbridge & Company, three packages plants; Maltus & Ware, eight cases plants; George Perez, two cases plants; Hensel, Bruckmann & Lorbacher, one sack seeds. June 6.—New York & Cuba Mail S. S. Company, 20 packages plants. June 7.—McKesson & Robbins, 10 bags roots, three bags seed.

COLD STORAGE LILIES

ALL LIVE AND UP-TO-DATE FLORISTS GROW THEM

The forcing of cold storage lilies is no longer an experiment. If you have not already grown some of these we can refer you to hundreds of florists who make a success of this method and have lilies "all the year around."—The same as Lily of the Valley.

Our lilies are bought for and placed in cold storage for the express purpose of delivering bulbs in the summer time.

LILIIUM longiflorum and giganteum take about two months to bloom from time of planting from cold storage. Speciosum from five to six months, so that longiflorum wanted for Thanksgiving and Christmas should be planted about Oct. 1st, and speciosum and auratum about July 1st.

We have limited quantities of the following varieties on hand and offer subject to being unsold and at the prices named; Will hold not later than Oct. 1st, for our customers without any additional charges for cold storage. **ORDER TO-DAY.**

All cases are repacked before shipment.

LILIIUM LONGIFLORUM GIGANTEUM—Cold storage.	per	per
7 to 9-inch bulbs, 300 in	100	1000
case	\$8.00	\$75.00
LILIIUM LONGIFLORUM GIGANTEUM—Cold storage.		
8 to 9-inch bulbs, 200 in		
case	5.50	50.00
9 to 11-inch bulbs, 120		
in case	9.00	80.00
11 to 13 inch bulbs, 75		
in case	16.00	150.00

Full cases sold at 1000 rate.

ARTHUR T. BODDINGTON. 342 W. 14th St., New York City

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
 Successors to L. K. PEACOCK, Inc.
 ATCO N. J.

IF YOU NEED

Summer-Flowering Bulbs

German or Japan Iris,
 write us for prices. We have the stock and can give you satisfaction.
JOHN LEWIS CHILDS, Floral Park, N. Y.

TOMATO



COLORED VEGETABLE SEED BAGS

Send for Cat. and Prices.

Herndon, Lester & Ivey Co.,
 Richmond, Virginia.

ROEMER'S SUPERB PANSIES

The finest strain of Pansies in the World. (Largest Award International Exhibition Dusseldorf, 1905. Catalogue free on application.)

FRED. ROEMER, Seed Grower,
 Quedlinburg, Germany.

BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

FISKE'S HIGHEST GRADE Seeds and Bulbs

ALWAYS RELIABLE

H. E. FISKE SEED COMPANY
 12 and 14 Faneuil Hall Sq., Boston, Mass.

PLANT CULTURE

The Best Book for the Plant Grower \$1.00

A. T. DE LA MARE PTG. & PUB. CO. LTD., 2-8 DUANE STREET, NEW YORK.

CHICAGO.—The Leonard Seed Company reports business as about normal for the season notwithstanding the brilliant opening with the advent of the remarkably warm weather at an unusually early date. The onion set prospect is good though somewhat backward as a good stand has been made and warm weather is all that is now required to develop the crop. The prospect for turnip seed business, which is now opening, is good.

The W. W. Barnard Company reports June 1 seed account collections as remarkably good which indicates general prosperity throughout the trade. A. H. Goodwin, vice-president of the company, has just returned from their pea fields near Sturgeon Bay, Wis., and though all pea crops are backward they show a universal good stand.

J. C. Vaughan is still in New York. At the Randolph street store, owing to the cool weather business has continued particularly good over an unusually long season.

From present indications there will be a good delegation of Chicago seedsmen at the meeting of the Seed Trade Association in New York, June 25-27, all the principal houses signifying intention of having one or more representatives there. From farther west some of the dealers who would like to be present write that owing to the lateness of the season they will be unable to leave their business.

Peter Hollenbach, after spending a few days among the onion set growers making a personal inspection of the progress of the crops, has been over in Missouri where he has other business interests.

Winterson's Seed Store is having a heavy trade in bedding plants.

W. K. W.

IOWA SEED DEALERS ORGANIZE.—The seed merchants of the State of Iowa met at the Chamberlain Hotel, Des Moines, Wednesday of last week, and formed the "Iowa Seed Dealers' Association." There were present eighteen persons representing the following firms: Hamilton Brothers, Cedar Rapids; O. A. Talbot & Company, Keokuk; Sioux City Seed & Nursery Company, Sioux City; Adams Seed Company, Decorah; M. L. Webster, Independence; Shugart-Ouren Seed Company, Council Bluffs; Younkerman Seed Company, Council Bluffs; J. W. Ratekin, Shenandoah; A. A. Berry Seed Company, Clarinda; Henry Fields, Shenandoah; N. J. Burt & Company, Burlington; E. J. Hohberger and Iowa Seed Company of Des Moines.

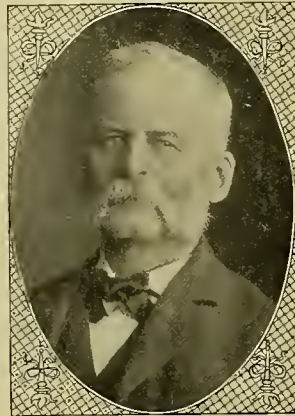
The organization was completed by the election of Chas. N. Page, president; Henry Fields, vice-president; W. C. Adams, secretary, and J. T. Hamilton, treasurer. The executive committee consists of the president, secretary, treasurer, and H. A. Johns of Sioux City and J. W. Ratkin of Shenandoah.

A SEEDSMAN HONORED.—At the same meeting at the Michigan Agricultural College at which the degree of Doctor of Laws was conferred upon Editor Collingwood, noted last week, the degree of Doctor of Science was conferred upon William W. Tracy, Washington, D. C., in recognition of his work for the betterment of practical seed growing. We think that, as the honor to Dr. Collingwood was the first time that the value of the work of an agricultural editor has been so recognized, so in the case of Dr. Tracy it is the first time that the really scientific character of such practical work as he has been engaged in has been thus acknowledged.

NOTES FROM DENMARK.—The cauliflower plants for this year's crop have wintered fairly well, but the cabbage planted November last, especially the Danish Roundhead (short), have been damaged by black frost; 30 to 40 per cent. of the heads died off, and this may seriously influence the crop of seeds.

A Most Extraordinary Man.

An answer to a lady who requested to know "Why a Gardener was the most extraordinary man in the World? Because no man has more business on earth, and always choosing good ground for what he does." He commands his own Thyme, is Master of the Mint, raises his own Celery every year, and it is a bad year, indeed, that does not produce him a Plum. He meets with



Dr. W. W. Tracy

more Boughs than a Minister of State, has more beds than a French King, and has in them more Painted Ladies', more genuine Roses and Lilies than are to be met at a Country Wake. He makes Raking his business more than his diversion, as many fine Gentlemen do, but makes it an advantage both to health and fortune, which is the case with few others. Though plain in his own dress, with his Bachelor's Buttons, yet he encourages Coxcombs with Princes' Feathers, and greatly admires the Pride of London, and with pleasure beholds Love-lay-bleeding under a Weeping Willow. His Wife has as much of Lad's Love and Heart's Ease as she can desire, and never wishes for Weeds. Distempers, fatal to others, do not hurt him for he thrives most with a Consumption. He is a great Antiquarian, having in his possession Adam's Needle, the Tree of Life, Jacob's Ladder, Solomon's Seal, the Holy Thorn, Venus's Looking Glass, The Arms of France, and the Crown Imperial. He is well acquainted with the Globes, and has crossed the Line oftener than any Mariner in Great Britain. He is the King of Spades, is happy with his beautiful Queen Margaret, can boast of more Laurels than Alexander the Great and of more Bleeding Hearts than your Ladyship; but his greatest pride and the world's envy is that he can have Yew whenever he pleases.—From Cannel's Floral Guide, 1907.

300,000 ASTER PLANTS Queen of the Market, in white, pink and mixed colors; late branching, white, pink, lavender and mixed colors; Ostrich Feather, Ray Aster and Victoria, strong, stocky plants, ready to plant out at \$2.50 per 1000; in 5000 lots, \$2.00 per 1000.
Gustav Pitzonka, Bristol, Pa.

BARGAIN TO CLEAR

TUBEROUS ROOTED BEGONIAS
Fine large bulbs. Single Orange, White, Red, Yellow and Mixed. Price, per 100, \$1.50, per 1000, \$14.00.

CYCAS REVOLUTA STEMS
Very profitable. Pot on for early winter. Assorted cases, 1 to 5 lbs., and 5 to 10 lbs. Price, 10 lbs. \$1.00, 25 lbs. \$1.00, 100 lbs. \$7.25, per case (300 lbs.) \$21.00.

ASPARAGUS PLUMOSUS NANUS SEED
True greenhouse grown, of good tested germination. Price, 50c. per 100, \$3.00 per 1000.

GIANT PRIMULA SEED. Finest Mixed, 1/2 trade pkt. 50c., trade pkt. \$1.00. **Kermesina Splendens**, grand crimson, 250 seeds 50c, 1000 seeds \$1.75. **Alba Magnifica**, soow white, 250 seeds 50c., 1000 seeds \$1.70. **Peach Blossom**, 250 seeds 50c., 1000 seeds \$1.70.

PRIMULA OBCONICA. Grandiflora, mixed, trade pkt. 30c. Grandiflora, Rosea, trade pkt. 40c. Grandiflora, Pure White, trade pkt. 40c.

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

CATALOGUES RECEIVED.

VAUGHAN'S SEED STORE, Chicago and New York.—Illustrated Catalogue of Bulbs, Seeds, Plants, etc.

J. M. THORBURN & COMPANY, New York.—Wholesale Trade Price List of Turnips, Radish, Spinach, and other Seeds.

KROESCHELL BROTHERS COMPANY, Chicago.—Illustrated Catalogue of High Grade Greenhouse Boilers. Gives much valuable information about heating and piping greenhouses. The many testimonials printed show the popularity of this firm's boilers among florists.

BILTMORE NURSERY, Biltmore, N. C.—This is one of the handsomest catalogues that has come to our desk this season. The offerings are most comprehensive, each subject enumerated being fully described, the common as well as the botanical name, native country, etc., being given, rendering the catalogue valuable as a work of reference. The pages are profusely and beautifully illustrated with half-tone engravings, specially prepared for the pamphlet, and enhance its value in a marked degree. The various groupings include Cone-Bearers or Evergreens, Deciduous Broad-leaved Evergreen Trees, Broad-leaved Evergreen Shrubs, Deciduous Shrubs, Roses, Miscellaneous Shrubs, Vines, Ornamental Grasses and Bamboos, Hardy Ferns, Aquatic and Bog Plants, Herbaceous Perennials. These are followed by the Price List and a complete index.

SURPLUS STOCK

5 in. R. A. Nutt, \$20.00 per 100; 3 in. Ricard, \$6.00 per 100.
Ivy Geraniums, 3 in., \$8.00; 2 1/2 in., \$3.50 per 100.
Salvia, 4 in., \$8.00 per 100; 2 1/2 in., \$2.50 per 100.
Sweet Alyssum, 2 1/2 in., \$2.50 per 100.
Alternanthera, 2 1/2 in., red, pink and green, \$2.50 per 100.
Cannas, assorted, 4 in., \$5.00 per 100.
Caladiums, 4 in., \$10.00; 5 in., \$20.00 per 100.
Heliotrope, 3 in., \$6.00; 4 in., \$8.00 per 100.
Echeveria Metallica, fine, large, 5 in., 25c. each.
Mme. Salleron Geraniums, 2 1/2 in., \$2.50; 3 in., \$6.00 per 100.
Cobaea Scandens, 3 in., \$6.00 per 100.
Germany Ivy, \$2.00 per 100.
Coleus, assorted, 2 1/2 in., \$2.50 per 100.
Dusty Miller, \$2.50 per 100.
Pennisetum, \$2.50 per 100.
Santolina, 2 1/2 in., \$2.50; 3 in., \$3.50 per 100.
Roses, Bride-smid, 2 1/2 in., \$3.50 per 100; Golden Gate, 2 1/2 in., \$4.00 per 100; Richmond, 2 1/2 in., \$3.00 per 100.

CHRYSANTHEMUMS

100 S. T. Wright, 600 Dr. Engelhard, 500 Wm. Duckham, 150 Lady Harriet, 80 Et. Bonnefoid, 200 Holiday, 2 1/2 and 3 in., \$2.50 per 100.
Cash or C. O. D.

W. J. & M. S. VESEY, Fort Wayne, Ind.

POINSETTIAS

June delivery, 2 1/2 in., \$5.00 per 100; \$45.00 per 1000; 3 in., \$7.00 per 100; \$65.00 per 1000.
FUCHSIA, Little Beauty, 2 in., 4c. Mixed, standard varieties, 3 in., 6c.
GERANS, Boston, 2 1/2, 3, and 6 in., 4c., 5c., and 35c. **ASPARAGUS Sprenger, 3 in., 5 in., 12c. and 25c.** **Barrowsii, 3, 4 and 5 in., 10c., 15c. and 35c.** **ADIANUM CROWEANUM, 6 and 7 in., 50c and 75c.** **DRACAENA INDIVISA, 5 and 6 in., 20c. and 30c.** **ALTERNANThERA Sprenger, 3 in., 4c.** **GERANIUMS, in bloom, Standard varieties, 3 and 4 in., 5c. and 8c.** **SALLERON, 3 in., 4c.** **ALYSSUM, Little Gem, 2 1/2 in., 2c.** **COLEUS, Verschaffeltii, Firebrand, Golden Bedder, and mixed, 2 1/2 in., 2c.** **ALTERNANThERA, Aurea Nona and Brillantissima, 2 1/2 in., 2c.** **CENTPAUREA Gymnocarpa, 2 1/2 in., 2c.** 1000 rate on this 2 1/2 in. stock, \$17.50.

BAUR FLORAL CO. ERIE, PA.

A FEW GOOD THINGS YOU WANT

Cash with Order.
Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100.
Asparagus Sprenger, 2 in., \$2.60 per 100; 3 in., \$6.00 per 100.
Geraniums, S. A. Nutt, John Doyle, Pericos, Ricard, Double Gen., Grant, La Favorite, 2 in. pots, \$2.60 per 100; 3 in. \$6.00 per 100. Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellane, Poltevine and Vland, 2 in. pots, \$3.00 per 100; 3 in., \$5.00 per 100.
Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100.
Scottii Ferns, 6 in., 30c. each.
Vinea Var., 2 in., \$2.00 per 100.
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Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s properly packed in good order.
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Medium Tall,	60c.	\$1.00
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PRIMULA

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Combining a wide range of colors, magnificent trusses, 1/2 trade pkt., 60c., \$1.00 per trade pkt., 3/4 oz., \$2.00.

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THE
**BOOK OF WATER
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GIVING IN FULL DETAIL ALL THE PRACTICAL INFORMATION NECESSARY TO THE SELECTION, GROUPING AND SUCCESSFUL CULTIVATION OF AQUATIC AND OTHER PLANTS REQUIRED IN THE MAKING OF A WATER GARDEN AND ITS SURROUNDINGS, AND COVERING ALL CONDITIONS FROM THAT OF THE AMATEUR WITH A FEW PLANTS IN TUBS TO THE LARGE ESTATE OR PARK

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On English Manetti; immediate delivery, \$10.00 per 100.

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CLEMATIS; AMPELOPSIS; ROSES, field-grown; HYDRANGEA, P. G., Standard and bush-form; PEONIES, IRIS, PHLOX, SHRUBS, VINES, SHADES, and CONIFERS. Price List ready August 15th. Send list of wants for low prices on large orders booked early. Use printed letter-head; we sell to the Trade only.

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1000 VARIETIES OF FIELD GROWN PERENNIALS

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Trees and Shrubs

Immense quantities, low prices. Price list on application. Peonies a specialty.

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Quantities of BLUE OTAKSA HYDRANGEAS For Sale

Beautiful Specimens 8 or 9 years old in Ivy green half-barrels, \$15.00, \$18.00, \$20.00 and \$25.00 per pair, according to size.

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PLANT CULTURE PRICE \$1.00

THE BEST BOOK FOR THE PLANT GROWER.

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WM. WARNER HARPER, PROPRIETOR Chestnut Hill, Philadelphia, Pa.

Nursery Stock for Florists' Trade

Specialties for Fall Peonies Evergreens W. & T. SMITH CO., Geneva, N. Y.

ARISTOLOCHIA SIPHO

Strong, \$25.00 per 100.

Double Flowering ALMOND, 3 to 4 ft., \$15.00 per 100. Oriental PLANE, 2 to 2½ in., \$125.00 per 100. Send list of wants for prices. Ask for catalogue.

HIRAM T. JONES, Unio County Nurseries Elizabeth, N. J.

Controlling Plant Diseases and Insects.

The Maryland Agricultural Experiment Station at College Park, Md., has just issued a very serviceable bulletin (115) on the subject of the "Control of Insect Pests and Diseases of Maryland Crops." A portion of the pamphlet is devoted to brief descriptions showing how some of the more common diseases of plants may be recognized, a list of insects attacking the plants specified with illustrations, as well as setting forth suggested remedies therefor, from which we quote as under:

Aster.
YELLOW.—China asters are affected with a disease similar to peach yellows. Destroy affected plants.

Calla.
SOFT-ROT.—(*Bacillus aroidae.*) The leaves rot off near the ground. Select healthy corms for planting and change the soil of beds every three or four years.

Carnation.
DISEASES.

RUST. (*Uromyces caryophyllinus.*) Small, dark purplish brown spots breaking through the leaf surface. Destroy diseased portions and use clean stock for propagation. Spray with Bordeaux mixture adding 2 pounds soap to the barrel. Some varieties are more subject to the rust than others.

SPIONOMOSE. Many small brownish spots and yellowing of affected leaves due to aphid punctures and associated with bacteria appear on the foliage. (See methods of controlling aphids.)

LEAF MOULD. (*Heterosporium echinulatum.*) Causes dark, unsightly often ring-like spots on the leaves, etc. Spray with Bordeaux mixture every two weeks, adding soap to make it stick.

STEM-ROT. (*Rhizoctonia.*) No good remedy.

Some other less prominent fungous diseases are leaf spot, anthracnose and wilt. Also a disease in which the buds mature but fail to open, has been seen in Maryland.

INSECTS.
APHIS. (*Aphis sp.*) Plant louse, injures by sucking. Apply fir-tree oil, 1 to 20, or common soap, 5 ounces to one gallon water.

Chrysanthemum.
DISEASES.

LEAF-SPOT. (*Septoria chrysanthemi.*) Dark colored spots on the leaf. Spray with Bordeaux mixture or if it is undesirable to discolor the leaves with this spray, use ammoniacal copper carbonate or other clear fungicide.

RUST. (*Puccinia chrysanthemi.*) Dark brown, raised spots as large as a pin head scattered over the leaves. Pick off and burn rusted portions and use healthy shoots for propagation. Often quite serious.

INSECTS.
APHIS. (*Aphis sp.*) Plant louse, injures by sucking. Apply fir-tree oil 1 to 20, or common soap solution.

TWO-SPOTTED RED-SPIDER. (*Tetranychus bimaculatus.*) See geranium.

Geranium.
A rot causes the young plants to die in the cutting bed and a leaf-spot mars the foliage. Both are caused by bacteria. Use clean soil and disinfect the benches. Frequent spraying with Bordeaux mixture will keep the diseases down.

MEALY BUG (*Pseudococcus citri.*). Injures by sucking. Contact insecticide. Kerosene or soap emulsion.

RED SPIDER (*Tetranychus bimaculatus.*) Spray with soap and water or water alone, hitting both sides of leaves. The mite seems to thrive in dry atmosphere.

Lilac.
POWDERY MILDEW (*Microsphaera alni.*) gives the leaves of lilac a grayish coating in Autumn. It rarely does harm. Sulphur dust should control it.

OYSTER-SHELL SCALE (*Lepidosaphes ulmi.*) Common on this plant, see bulletin 111, of this Station. Apply 15 per cent. kerosene emulsion middle of May.

Rose.
DISEASES.

POWDERY MILDEW (*Sphaerotheca panosa.*) The leaves are somewhat wrinkled or curled and covered with a whitish powder. Troublesome in greenhouses when there is uneven temperature. It is bad on some varieties especially the Ramblers outdoors. Dust with sulphur outdoors or spray with Bordeaux mixture. Inside observe proper regulation of heat and spread sulphur paste on heating pipes.

LEAF-BLOTCH (*Actinonema rosea.*) Radiating black patches appear on the leaves and soon cause them to drop. Spray with Bordeaux mixture or one of the clear fungicides in Midsummer.

RUST, LEAF-SPOT AND ANTHRACNOSE are less troublesome.

INSECTS.
ROSE SCALE (*Aulacaspis rosea.*) Injures by sucking. Apply strong soap solution. Cut out badly infested branches.

PLANT LICE (*Aphis sp.*). Injures by sucking; apply 10 per cent. kerosene emulsion.

ROSE CHAFER (*Macrodactylus sub-spinosus.*) Hand picking. Continuous application of arsenate of lead may assist in controlling them.

Violet.
LEAF-SPOT (*Alternaria violae.*) Circular brown spots on the leaves. This and other violet diseases can best be controlled by growing only the strongest and healthiest plants that can be secured and keeping them under the best condition throughout the year, removing or burning all diseased parts and disinfecting the houses and beds.

BLACK OR BROWN APHIS (*Rhopalosiphum violae.*) Plant louse; sucks leaves. Fumigate with hydrocyanic acid gas. Seek further advice before using.

TWO-SPOTTED RED-SPIDER (*Tetranychus bimaculatus.*) See geranium.

ROSES

500 Bridesmaid

Grafted, 3 inch pots, \$12.00 per hundred

500 Bride

Grafted, 3 inch pots, \$12.00 per hundred

1000 Chatenay

Own roots, 3 inch pots, \$8.00 per hundred

Extra Fine Stock

ROBERT SIMPSON, Clifton, N. J.

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.
 Orlando Harrison, Berlin, Md., president; J. W. Hill, Des Moines, Ia., vice-president; George C. Scager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

HORTICULTURAL SOCIETY OF MISSOURI.—We acknowledge, with thanks, receipt of the forty-ninth annual report of this society. It is replete with information of the most valuable character to the horticulturist. Excellent portraits of the officers, and other illustrations, are included. L. A. Goodman, Kansas City, Mo., is secretary.

PACIFIC COAST NURSERYMEN'S ASSOCIATION.—The fifth annual meeting of this association will be held at Salem, Oregon, July 10, 11 and 12, 1907, in connection with the Salem Cherry Fair (under the auspices of the Marion County Horticultural Society). Many prominent horticulturists will attend, and there will be the finest display of cherries ever seen on the Pacific Coast; a large number of silver cups having been offered as premiums. The cost of annual membership is \$2.

Special railroad rates have been granted. Those intending to be present, should address either C. A. Townson, Tacoma, Wash., or F. W. Power, Oregon Nursery Company, Salem, Ore., president of the Association.

NURSERYMAN SHIPPERS' TABLE, Supplement Number 2.—This very useful document has just been issued by E. Albertson, special representative of the American Association of Nurserymen, and W. C. Reed, chairman of the association's transportation committee. It gives full information regarding express rates on plants, trees, etc., setting forth in full Classification No. 17, revised to November 15, 1906. Among other things, it is stated in regard to general special rates, that these "take the place of the special twenty per cent. off from merchandise rates which have been applied heretofore on trees, plants, etc., but have now been abolished. These general special rates will be found in almost all cases fully equal to, and in many cases, much better than the twenty per cent. off."

Regarding freight rates, the table states that, so far efforts have been unavailing in the matter of securing cancellation of the exceptions (to the Western Classification applying 16,000 min.) by the Transcontinental Freight Bureau to shipments along the Pacific coast; also as to effecting a change in the classification of apple and locust seed. These subjects are still under consideration.

Attention is called to the following matters connected with billing goods:

A mistake so often made by shippers in billing such plants as blackberry, raspberry, gooseberry, currants, shrubs, etc. (which are dormant plants and should take same rate as trees) as plants which take first-class rate, is one that should be avoided, as claims on account of same are hard to collect and usually not large enough to pay to bother with, yet in the aggregate amount to quite a heavy loss. If billed as dormant plants would take tree rate, but is more confusing than if simply billed trees, to which class they belong, and save danger of confusion.

"Another mistake often made is in not inserting the county on the billing—often there are two or more railroad or express offices of same name in state and shipments are held up till county is ascertained—this often causes losses.

"Sometimes shipments are directed to points not on either railroad or water transportation routes and sometimes billed to some nearby station (freight or express). Instead of so directing they should be marked to freight or express station, and postoffice of consignee, if different, also put on shipment so proper notice can be given on arrival of goods.

"All shipments should be plainly marked and on express shipments weights should be marked on package, while on freight shipments weight should be given on shipping bill or bill of lading.

"All shipments entitled to special rates should have marked plainly on packages contents of same.

"Where possible routings should also be marked on all shipments and bills of lading.

"By noting carefully above suggestions many mistakes, delays and overcharges can be avoided."

Fruit Injured by Bordeaux Mixture.

Fruit growers who desire to prevent or lessen injury from spraying apple trees with Bordeaux Mixture should send to the New York Agricultural Experiment Station at Geneva for Bulletin No. 287. By a very thorough series of tests it has been proven that there is such injury, and that it may sometimes, though not often, do as much harm as the apple scab the spraying is intended to prevent. The test proved very clearly that it is the Bordeaux Mixture that causes the injury, not the arsenites used with it, that weather conditions have much to do with the development of the russetting of the fruit and spotting the leaves which characterize the trouble, that an excess of lime is not a preventive of the injury, and that strong Bordeaux causes greater injury than weaker mixtures. The Station recommends spraying in dry weather, if possible; and suggests a trial of the 3-3-50 formula for Bordeaux.



Flower Spray of Apple

Seasonable Topics.

In early Summer, when the young wood of trees and shrubs is half ripened, it is a good time to make cuttings of it, placing them in a greenhouse, when they root very soon. Potted then there are nice plants by Fall, ready for planting out the next Spring.

Deutzia Lemoinei is in growth intermediate between that of *D. gracilis* and the taller kinds represented by *D. scabra*. It is a good thing, the growth fitting it for many positions, and its flower-laden shoots proving most useful for florists' use. It flowers rather later than *gracilis* and before *scabra*.

The fruit of *Columbus* gooseberry is large, greenish yellow, and it ripens in this vicinity—Philadelphia—about the first week in August.

Viburnum plicatum is without doubt the most useful one for florists to grow. Another variety, *V. rotundifolium*, has larger and whiter heads, but it is not quite as hardy as *plicatum*, sometimes losing an inch or two of the ends of its shoots in hard Winters. Where it does well it is a beauty.

The cool Spring has been a boon to the nurseryman. Usually May is one of his most trying months, because of the dry weather than generally accompanies it. This year rains have been frequent, keeping up sales until June, and enabling his own and his customer's stock to get good hold of the soil. It should mean stands of the finest stock for Autumn selling.

Memorial Day Flowers.

The cold weather of May brought about a curious combination of flowers for Memorial Day. For the first time within the recollection of the writer the Grand Army Posts were able to add lilacs to their list of available flowers. Every season shows that among hardy shrubs the old reliables are snowballs and weigelas. These are bulky and lasting, which suits for the making up of bouquets, for which purposes the Posts here use flowers. Usually the wives of the veterans meet the afternoon preceding Memorial Day and make bouquets, one for each grave, and when they are over 1,200 such bouquets required, as is the case in Germantown, Pa., something that will make a show quickly is wanted, and this want the snowball and the weigela fills. *Spiraea Reevesii* was also in good shape for cutting, as well as the snowballs. Both the old snowball and the *plicatum* were available, but neither one was in perfection, and weigela was hardly open as well as it should have been. Another flower which helped out well was the flag. Great quantities of the *Iris florentina* were used; also of the blue veronica.

A great deal of the *Viburnum tomentosum* was available, but it did not meet the requirements of the occasion. It is handsome on the bush, but quickly fades when cut, as do spiræas.

In addition to the flowers required for the cemeteries the Posts use large bouquets for the empty chairs representing the deceased comrades of the year, on the occasion of their services on the Sunday preceding Memorial Day. Quite a number of flowers are employed for this—roses from greenhouses and outdoor stock. As one Post alone had 19 empty chairs, and the bouquets are of large size, there is a big sum of money necessary to pay for all the flowers required.

Besides cut flowers thousands of pot plants are used, largely geraniums. These are contributed by children of the public schools, being bought of neighboring florists. The Germantown Post had over 1,000 such pot plants, and as the plants would represent a cost of 10c each, it gives an idea of what a call Memorial Day makes on the florist and the nurseryman.

JOSEPH MEEHAN.



An Apple Tree in Full Blossom
 As grand a sight as any afforded by our finest flowering shrubs or trees,
 and an inspiration to the horticulturist

ROSE PLANTS

2 1/2 in. POT PLANTS		3 1/2 in. POT PLANTS			
	per 100	per 1000			
Am. Beauty	\$0.00	\$50.00	Richmond	\$5.00	\$40.00
Richmond	2.50	22.50	Bridesmaid	5.00	40.00
Bridesmaid	2.50	22.50	Bride	5.00	40.00
Uncle John	2.50	22.50	Ivory	5.00	40.00
Chatenay	2.50	22.50	Perle	5.00	40.00
Bride	2.50	22.50	Chatenay	5.00	40.00
Ivory	2.50	22.50	Sunrise	6.00	50.00
Liberty	4.00	35.00			
Perle	4.00	35.00			
Sunrise	5.00	40.00			

One Year Old Bench Plants, **Bridesmaid, Bride, Chatenay, Ivory, Uncle John, Sunrise and Perle,**
\$5.00 per 100 \$40.00 per 1000.

Chrysanthemums

2 1/2 in. POT PLANTS

WHITE		YELLOW	
	per 100		per 100
Chadwick	\$2.00	Golden Chadwick	\$2.50
Estelle	2.00	Yellow Eaton	2.50
T. Eaton	2.50	Col. Appleton	2.00
PINK		RED	
Dr. Enguehard	2.00	Black Hawk	2.00

Peter Reinberg

51 Wabash Ave. CHICAGO

GRAFTED ROSES

On English Manetti Stock

3 in. pots; A No. 1 plants.

Chatenay	\$10.00 per 100
Wellesley	
Kaiserin	\$12.00 per 100
Moulton	
Own roots, from grafted stock, 3 in. pots.	
Moulton	\$6.00 per 100
Kaiserin	
Wellesley	\$5.00 per 100
Brides	
Maids	
Chatenay, 3 in. pots,	\$5.00 per 100.

S. J. REUTER
WESTERLY, R. I.

ROSES

American Beauty, 3 1/2 in.	\$6.00
Bridesmaid and Bride, 3 1/2 in.	45.00
Carnation Crusader, 2 1/2 in.	27.50
Carnation Boston Market, 2 1/2 in.	27.50
Cash or O. O. D. unless known.	

BRANT & NOE FLORAL COMPANY,
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BROUGHT THE LARGEST RETURNS
We would ask you now to drop our advertisement. Two-thirds of the returns we have received have come from The Florists' Exchange.
ELLSWORTH BROWN & CO.

Roses Fine Healthy Stock

6000 Bride and Bridesmaid, grafted, 3 1/2 in., \$12.00 per 100.
20,000 Brides, Bridesmaids, Killarney, Chatenay, Gates, Ivory, Richmond, own roots, 3 1/2 in., \$8.00 per 100.

P. R. QUINLAN, Syracuse, N. Y.

BABY Rambler, in bloom, 2 1/2 in.	COCHETS, M. Nell, Bessie Brown, La Franco, etc., 2 1/2 in.	KAISERIN, Jacq., Planter, Charis, Sc.
2 1/2-in. pot, own root.	ROSES Vinea, Maj. Var and Colens.	

See full price list, page 717, May 25.
THE LEEDLE FLORAL COMPANY
SPRINGFIELD-OHIO

ROSES

For June delivery, strong, healthy plants. Cash with order.

300 American Beauty, 4 in. pots,	\$3.00 per 100.
2200 Richmond, 4 in. pots,	\$6.00 per 100.
\$50.00 per 1000.	
1700 Brides, 4 in. pots,	\$5.00 per 100; \$40.00 per 1000.

ALFRED P. SMITH, Madison, N. J.

KAISERIN ROSES

2 1/2 in. pots \$3.50 per 100; \$30.00 per 1000.
3 in. \$6.00 per 100.

Carnations all sold.
E. H. PYE, Upper Nyack, N. Y.

ROSES

The weather so far has been very favorable to the rose grower; the late frosts holding back outdoor flowers of all kinds, and at the same time enabling the grower to keep his buds in good color and size though it has been necessary to have the fires going a little all the time in order to keep the stock clean.

It is still too early to think of re-planting, as for the next week or two there is a good demand for clean stock, and the prices will average much better than next Fall, so there need be no hurry about this work. Of course the larger plants have it well under way, but here it is a matter of necessity and not of choice; for if planting be not started early the work would all come at one time, and as help is usually scarce, it would be impossible to get through in time.

Keep the young plants moving; do not allow them to get potbound. If in a smaller size than 4-inch pots, they can be put into that size, and if there is danger of them becoming potbound therein, the plants can be knocked out, the ball rubbed off a little and repotted in the same pot, when they will keep on growing and be in fine shape five or six weeks later. If the tops are very bushy, pinch out the taller shoots. After this repotting give a good soaking, and then keep the plants a little dry till new roots appear, when more water can be afforded; but do not allow them to get dust dry.

On bright days, look over the front rows both morning and afternoon, and water the dry plants; as these are exposed so much they require a large amount of water. Never syringe the pot plants when the roots are dry, or a severe scalding will result. Watch out for red spider on young stock; this pest easily obtains a foothold, and is hard to dislodge, so syringe on every favorable opportunity, being careful to get at the bottom leaves and still not wash the plants out of the pots.

It is needless to say that the plants must be fumigated quite often to keep green fly in check. Remove all buds as soon as they reach the size of a pea, taking off at least one leaf with them to insure a stronger break.

The old plants, of course, do not require such great care now, only give all the food you can, and large quantities of water, keep the stems away from the glass and out of the walks; and if disbudbed, the buds will be much larger, though this work is usually neglected judging by the appearance of most places at this time of the year. PENN.

ROSE CANCKER IN CENTRAL AND NORTHERN EUROPE.—Rosarians must be on their guard against a fungus (*Coniothyrium*) which is the cause of a canker on the shoots of most descriptions of the rose, attacking the stock as well as the variety that is budded or grafted upon it, says the Horticultural Trade Journal, England. This enemy is comparatively new in Europe, and is found in widely separated places in the German Empire, Austria and Silesia, and is the most desolating malady yet known among roses. In the last-named province the disease has been remarked for the last ten years in many gardens, and is quite independent of the kind of soil, or nature of the manure applied. The only species hitherto immune are *R. rugosa* and *R. centifolia cristata*. The fungus constituted as being *Coniothyrium Wernsdorffiae*, spreads in the bark, and later infects the wood, causing brown, and eventually, black patches, and the certain death of the plant. The removal of the infected shoots, as soon as the patches are noticed, down to sound tissue and at once burning them is recommended, dressing the wounds made by the knife with grafting wax. So far, however, no certain remedy has been discovered that will stop its ravages.

TWO-YEAR-OLD American Beauty Plants

\$50.00 per 1000

CHICAGO CARNATION CO., Joliet, Ill.

ANNY MÜLLER

The Pink Baby Rambler

Similar in habit to the Crimson Baby Rambler, flowers almost as large as Hermosa, soft bright pink in color. Fine for bedding and pots. Established plants from 2 in. pots, \$12.50 per 100; \$100.00 per 1000. **CLOVELDE SUIPERI**, from 2 in. pots, \$3.50 per 100; \$30.00 per 1000.

Perennial Gardens Co. Toledo O.

LOOK HERE

Grafted rose plants, 2 1/2 and 3 in. pots, \$12.00 per 100; \$100.00 per 1000. **Brides, Bridesmaids, Killarney, Richmond.**

Brides, Bridesmaids, own roots, 3 in., \$6.00 per 100; \$50.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE, BRIDGEPORT, CONN.

Roses! Roses!

3000 strong **BRIDESMAIDS** and **BRIDES**, out of 3 in. pots, \$5.00 per 100. Cash or References.

WERICK BROS. CO.
PINE RIDGE, BUFFALO, N. Y.

ROSES

BRIDE, BRIDESMAID, RICHMOND, strong, healthy stock, 3 in., ready to plant, at \$5.00 per 100.

GEO. E. CAMPBELL, Flourtown, Pa.

CARNATIONS

Field Grown Plants, Rooted Cuttings and Pot Plants in season

SMITH & GANNETT, GENEVA, New York.

MABELLE

Grand New Pink Carnation for 1907. A few thousand R. C. and pot plants still left. Order quick. This variety is a money maker.

Price of rooted cuttings, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000.

Price of pot plants, 2 1/2 inch, \$3.00 per doz.; \$15.00 per 100.

THE H. WEBER & SONS CO., OAKLAND, MD.

CARNATIONS

F. DORNER & SONS CO.
LAFAYETTE, IND.

JOHN E. HAINES

The Originator of three varieties:

John E. Haines Carnations	100	1000
Imperial	\$ 6.00	\$ 50.00
Pink Imperial	12.00	100.00

Headquarters at Bethlehem, Pa.
Orders taken now for field-grown plants at same price as for rooted cuttings.

JOHN E. HAINES, Bethlehem, Pa.

S. J. GODDARD

Framingham, Mass.
Rooted Carnation Cuttings a Specialty.
Correspondence Solicited.

CARNATIONS FROM POTS

5000 The Queen, \$2.50 per 100; 500 Flamingo, \$2.50 per 100; 300 Lady Bountiful, \$3.50 per 100.

CANNAS, unnamed, 3-in., \$3.00 per 100; 4-in., \$4.00 per 100; **GERMAN IVY**, 2 1/2-in., \$2.00 per 100; **ASPARGUS Sprenger**, 3-in., \$4.00 per 100.

Cash with order.
S. G. BENJAMIN, Fishkill, N. Y.

Your Money is well spent when you advertise in
THE FLORISTS' EXCHANGE

LIST OF ADVERTISERS

Table listing various florists and their addresses, including names like Allee J K, Allen W S Co, Amer Spawen Co, etc.

Table listing florists and their addresses, including names like Weeber & Don, Welch Bros, Winterson E F & Co, etc.

INDEX TO STOCK ADVERTISED

Table listing various plant species and their prices, including Aceratum, Adiantum, Ageratum, etc.

BOXWOOD

English Ivy, \$2.00 per doz., \$15.00 per 100. Anthurium, variegated for vases, \$1.60 per doz. Aspidistra, green, \$12.00 per doz. in 6 in. pots; \$18.00 per doz. in 6 1/2 in. pots.

ANTON SCHULTHEIS, College Point, L. I. N. Y.

FOR SALE CHEAP BRIDES, BRIDESMAIDS, METEORS and CHATENAY rose plants own roots from 2 1/2 in. and 4 in. pots. Also 700 Chatenay one year old from bench. Utica, N. Y.

American Association of Nurserymen. The thirty-second annual meeting of the American Association of Nurserymen was opened at the Cadillac Hotel, Detroit, Mich., on Wednesday, June 12, with a large attendance at the opening session.

GIANT PRIMULAS ENGLAND'S PRIZE STRAINS Absolutely unsurpassed in size and brilliancy of color. English Prize Fringed Mixed, per 100 seeds 25c.; per 500 \$1.00; per 1000 \$1.75.

CHANGES IN BUSINESS.

HARTFORD, CONN.—The firm of DeFong and Anderson has been dissolved by mutual consent. GALESBURG, ILL.—Leslie Mason will build greenhouses here, and engage in the wholesale and retail florist business.

JOHNSON'S PRIZE WINNER PANSIES JOHNSON'S KINGLY PRIZE WINNER PANSIES are the product of the World's Leading Fanny Specialist, and absolutely unsurpassed in quality by any strain extant.

HELIOTROPES FOR SALE 3-3/4 and 4 in. pots, strong, bushy plants, just coming in bloom, \$3.00, \$4.00 and \$6.00 per 100.

PATERSON ROSE COMPANY. Paterson, N. J.

ASPARAGUS SPRENGERI About 1,000, 2 to 2 1/2-in. pots, good plants, \$2.00 per 100; \$18.00 for the lot.

BENJAMIN ST. JOHN, Darien, Conn.

Variegated Agaves FOR SALE, ranging in size from 8 ft. high to 6 inches. Will sell cheap on account of moving. M. BULLOCKE 85th St. and 2nd Ave., BROOKLYN, N. Y.

ROSE PLANTS

Maida, Brides, Kaiserin, Gataa, Uncle John, Rosalind Orr English, Chantey, from 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; from 3 1/2 in. pots, \$6.00 per 100; \$55.00 per 1000.

Richmond, from 3 1/2 in. pots, \$6.50 per 100; \$60.00 per 1000.

American Beauties, from 2-in. pots, \$5.00 per 100; \$45.00 per 1000; from 2 1/2 in. pots, \$6.00 per 100; \$50.00 per 1000; 3-in. pots, \$7.00 per 100; \$60.00 per 1000.

Benched Beauties. Elegant stock for planting, 6.00 per 100; \$45.00 per 1000, for two weeks only.

CHRYSANTHEMUMS

One hundred and fifty thousand Rooted Cuttings and 2 1-2 in pot plants.

WHITE.			
	R. C. per 100	2 1/2 in. per 1000	
Touset	\$3.50	\$32.00	\$5.00
Kalb	2.00	17.50	2.50
Madam Paul			
Sahut	5.00	45.00	7.00
Robinson	2.00	17.50	2.50
Alice Byron	2.50	22.00	3.00
Adelia	2.00	17.50	3.00
Crawford	2.00	17.50	2.50
Eaton			
Timothy	2.50	22.00	3.00
White			
Bonnaffon	2.50	22.50	3.50
Chadwick	2.50	22.00	3.50
Jeannie Nonin	3.50	32.00	5.00
Merry			
Christmas	2.00	17.50	2.50
RED.			
Shrimpton	2.00	17.50	3.00
Intensity	2.00	17.50	3.00

YELLOW.			
	R. C. per 100	2 1/2 in. per 1000	
October	1.00	10.00	1.00
Sunshine	2.00	17.50	2.50
Halliday	2.00	17.50	2.50
Col. Appleton	2.50	22.00	3.00
Yellow Eaton	2.50	22.50	3.00
Bonnaffon	2.00	17.50	2.50
Golden			
Wedding	2.75	25.00	3.50
Chantauqua			
Gold	2.50	22.50	3.50
Riemann	2.50	22.50	3.50
Monravia	2.50	22.50	3.50
PINK.			
New Rosier	4.00	35.00	5.00
(best early pink)			
Shaw	2.50	22.50	3.50
McNiece	2.50	22.50	3.50
Ivory	2.00	17.50	2.50
Perrin	2.00	17.50	2.50
Dr. Engue-			
hard	2.50	22.50	3.50
Maud Dean	2.50	22.50	3.50

POEHLMANN BROS. CO.

1,000,000 FEET OF GLASS

Send Cut Flower Orders to

Send Plant Orders to Greenhouses,

35 Randolph St., CHICAGO

Morton Grove, Ill.

PHOENIX RECLINATA

6-in. pots, 20 to 24 in. high above pot, 2 ft. spread, 75c each.
 8-in. pots, 24 to 30 in. high above pot, 3 ft. spread, \$1.50 each.
 9-in. tubs, 36 to 42 in. high above tub, 4 ft. spread, \$2.50 each.
 Fine, strong plants. Have only a limited number and have put the price low to close them out.

JOSEPH HEACOCK COMPANY, Wyncote, Pa.

FERNS

Assorted, for jardiniere, strong, healthy plants, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.
 Pteris Adiantoides, 3 in. pots, \$5.00 per 100.
 Cibotium Schiedel, 6 in. pots, \$1.00 each.
 FRANK N. ESKESEN, Main St., Madison, N. J.

NEPHROLEPIS

Whitmani, 2 1/4 in., \$10.00 per 100.
 Boston, 2 1/4 in., \$3.00 per 100.
 Henry H. Barrows & Son, Whitman, Mass.

ASPARAGUS SPRENGERI

2 in. strong, stocky plants, \$2.50 per 100; \$20.00 per 1000.
 DAHLIAS, best varieties, assorted, \$3.00 per 100.

DEAN FERRIS, Peekskill, N. Y.

Whitmani Fern

2 1/4 in., \$10.00 per 100. Scottii Ferns, 2 1/4 in., \$5.00 per 100.

Hardy Ivy, 3 branches, 10 to 18 inches in length, 3 in. pots, \$6.00 per 100.

Kentia Forsteriana, 4 in. pots made-up, strong and bushy, \$25.00 per 100. 5 in. pots, made-up strong bushy, \$50.00 per 100. No order for less than 10 plants accepted.

CHAS. H. CAMPBELL, 3601 GERMANTOWN AVE., PHILA., Pa.

FERNS

Boston and Scottii, also a few Petersoni, same price, 6 in. 40c; 4 in. 15c; Whitmani, 6 in., 75c each.
 KENTIA Belmoreans, 2 1/2 in., \$10.00 per 100.

H. WESTON, Hempstead, N. Y.



Wholesale Price List

Palms and Ferns

Variety	Size	Each	Dozen	100
Areca Intercens	4		\$3.00	
Assorted Ferns for Iceries				\$3.00
Asparagus Plumosus	3	.75		
"	4	1.50	12.00	
"	6	3.00		
Asparagus Sprengeri	2		3.00	
"	3		7.00	
Cibotium Schiedel	6	\$1.00		
Cocos, 3 in a pot	4	75c-\$1.00		
Dracaena Fragrans	5		5.00	
Dracaena Indivisa	3		5.00	
"	6	5.00		
"	30-34 high	.75	9.00	
"	8		12.00	
Dracaena Terminalis	3		2.00	
"	4	.25	3.00	
Japanese Fern Balls			4.00	
Japanese Pines in Japanese jars			4.00	
Latania Bicolorica	5		5.00	
Nephrolepis Barrowsii	2		.75	6.00
Nephrolepis Bostoniensis	2		1.50	4.00
"	3		4.00	8.00
"	4		1.60	12.00
"	4 strong		2.00	25.00
"	6		4.20	
Nephrolepis Petersoni	7		9.00	
Nephrolepis Whitmani	2		1.25	10.00
Phoenix Reclinata, 4-in.			doz.	3.00
"	5-in.		doz.	5.00
Pandanus Uffilis, 5-in.			doz.	5.00
"	6-in.		doz.	6.00

The Geo. Wittbold Co.

1657 Buckingham Place, CHICAGO, - - ILL.

FERNS

Boston, Flarconi, 4-in., 15c; 5-in., 25c; 6-in. 50c; 7-in. 75c; 8-in., \$1.00, \$1.25; 9-in. \$1.25, \$1.50.

Whitmani, 4-in., 35c; 5-in., 50c; 6-in., 75c; \$1.00; 7-in., \$1.50, \$2.00; 8-in., \$2.50; \$3.00, \$3.50.

Kentia, 4-in., 25c; 5-in., 50c; 6-in., \$1.25, \$1.50; large plants, \$2.00 to \$35.00 each.

Latania, 2-in., 3c; 3-in., 6c; 4-in., 15c; 5-in., 25c; 6-in., 50c.

All kinds of bedding plants at reasonable prices.

Hardy Rhododendron, Azalea, Dutchman's Pipe Vines, Clamatia, etc., Boxwood from 20c each to \$5.00.

JOHN BADER, MT. TROY, ALLEGHENY, PA.

DRACAENA INDIVISA

Nice plants. 4 in., \$15.00 per 100; 5 in., \$25.00 per 100; 6 in., \$35.00 per 100.
 CANNAS, Bronze, \$6.00 per 100; Green, \$8.00 per 100.

T.W. A. SMITH, Biddeford, Me.

ROBERT CRAIG & CO. ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS
 Market and 49th Sts. PHILADELPHIA, PA.

Dracaena Indivisa

\$4.00 to \$9.00 per doz.; extra strong plants.
 HERMOSA ROSES, 5-5 1/2 in. pots, \$25.00 per 100.

A. L. MILLER, Jamaica Avenue, Brooklyn, N. Y.

THE WEEK'S WORK.

Timme's Timely Teachings.

In The Field.

Most growers with a large amount of glass-covered area have at their disposal also considerable space suitable for open air culture. Many kinds of plants and any number of species, ordinarily classed as true greenhouse stock, admit of being raised to perfection in the free soil of a well-tilled field. Though it is entirely impossible to fully meet the exact requirements of each and every one of the greatly varying kinds of plants as regards choice of situation or texture and condition of soil, the freedom of growth and unrestricted exposure, as afforded by a temporary stay in the open, alone seem to impart a degree of vigor and unwonted vitality to the plants rarely found in those continually kept under glass. Field-culture as a means of growing young stock quickly and with least expense into saleable size and perfect form gives proof of its unflinching efficiency from year to year. Thus we grow roses, carnations, hydrangeas, stevias, vincas and a number of other kinds of forcing and potted plants into flowering size and serviceable condition within the short period of but a few months. Nearly all plants of the regular greenhouse species reserved for stock should be planted out in the open field and be given plenty of space and good cultivation. While vincas, carnations and the hardier kinds of stock, including dormant roses, could and should be planted out quite early in the Spring, a host of others, such as pot-grown, greenhouse raised young roses, bouvardias, ficus, crotons and all young stock from the intermediate and tropical sections, should never be planted in the open before the season is well advanced—a mistake often made and only accounted for by the great need and prevailing scarcity of indoor and frame room in early Spring. Now, in the middle or at the end of June, it is time to attend to the removal of tender plants from house or frame to the open field. This year especially has so far proved an unfavorable one for an early exposure of half hardy or tender stock and many risks have been run, in most cases needlessly.

Good, thorough cultivation plays a great part in the making of fine stock by field raising. It includes in the first place the best of care in the preparation of the ground set aside for this particular purpose. If not naturally good, it should as far as possible be made so by adding to it those ingredients in its preparation which will improve its character and fertility. Assuming that the land is in good condition for the reception and culture of such valuable stock as here considered, good cultivation then means frequent but careful hoeing, the prevention or destruction of weeds, worms, insects and disease, the staking and tying up of some kinds and the stopping or cutting in of others, the marking or labeling of sporting or abnormal growth, the removal of premature buds or withering flowers and finally, the proper attention in the matter of watering and sprinkling. Many strips of land in garden or field stocked with plants for the greenhouse and to be benched or potted up later on, as seen here and there during the Summer, are in a condition which radically disproves the layman's opinion as to the florists' superiority in gardening. The presence of abounding luxuriant weeds in a cultivated field proves two things: a high state of fertility in the soil and un pardonable neglect on the part of the cultivator to profit thereby. Clean appearance alone does not furnish the principal reason for keeping down weeds. It is a fact, hardly ever deemed worthy of first consideration, that weeds allowed to gain foothold and headway among and about cultivated plants will, in every instance, soon get the better of these as regards moisture and nutriment from the soil and room, light and air above it. Much of the stock grown outdoors, even by professional florists, and even by such as have plenty of good land all around them, is planted with barely enough room between rows and plants for unhindered spread, too closely for anything like good cultivation.

In the Greenhouses.

We are now entering upon a season when the interior of our plant houses presents its most uninviting aspect; scattered bunches of picked over plants here and there, empty pots not yet gathered up and put away in orderly manner, benches partly or entirely bare of anything attractive in the plant line, some undergoing reconstruction, others being got ready for refilling with new stock for another season's yield. A not altogether pleasant odor pervades the establishment. Hammer and saw, now relieved from duty in the packing room, and file and chisel, industriously used in the repair or rearrangement of piping, are now or will soon be busily employed in filling the houses with clatter and clangor. This is a period of multifarious activity, when much hard but necessary work must be done, a time when clever dexterity and wise supervision do wonders in the performance of duties inevitably connected with the culture of plants under glass.

Much of the work here alluded to should be taken in hand as soon as ever possible, not as is so often the case, delayed until the latter part of Summer when we are hurried on by the near approach of an untoward season to a degree incompatible with thoroughness of workmanship or the timely housing and subsequent welfare of stock. As a matter of fact the time allowed for bench building, reconstruction and repairs of all kinds must nowadays be cut as short as possible, and is becoming more limited from year to year. Empty and non-producing glass structures, as could be seen throughout the entire Summer season in times gone by, are a standing reproach to the thrift of their owner.

Speed and despatch, however, should go hand in hand with thoroughness. Every bench before being refilled, should be examined as to its soundness, should undergo thorough-going repairs, if found to be necessary, or be re-built when any sort of patching up becomes a hopeless task. The same advice holds good when applied to any part of the heating apparatus, an entire house or a block of houses.

Stock of whatever kind coming very near to being worthless or unsalable, left-over and crippled plants of questionable value and short-lived hedging or bulbous stock now beyond its usefulness, should not be allowed to stand around in unsightly array and in the way of preparations for the coming season. Nor should such rubbish be offered for sale at any old price; it does no good, hurts your reputation as a good grower, do what you will in the way of explanation, and adds so little to your net returns and so much to the well founded reasons for complaint from quarters outside and within the trade, that transactions of this kind must seem a most inglorious ending of a most prosperous season.

Potted plants of species usually offered at holidays, having remained unsold but worthy of being kept on for next season's forcing, will with few exceptions do better during the Summer when given a somewhat sheltered and partly shaded position out-of-doors, the pots sunk into the ground or some loose material as straw, hay, tanbark or spent hops, to prevent the rapid drying out of the roots. On the other hand, we see many fine specimens from hothouse and greenhouse transferred to the open every Summer of such plants as bougainvillea, camellia, phyllocactus, epiphyllum, palms and large leaved decorative plants, which would fare far better if kept in the moderately moist atmosphere and under the lightly shaded glass roof of an airy greenhouse. Most tropical plants may be treated in like manner during the hot Summer months, thus giving room for repairs and a thorough clean up in show or hothouse.

Newly started young stock yet in flats or small pots now needs good attention as to watering, shading, transplanting and ventilation. Outdoor frames now nearly emptied by the brisk demand for all sorts of bedding material, afford the best place at present for all or most of this young stock, destined to help fill the houses anew and most easily injured by neglect.

It is now time to finish preparing borders, benches and compost for the planting of roses, chrysanthemums, violets, carnations, gardenias, amilax, asparagus, maidenhair and Boston ferns.

FRED W. TIMME.

FERNS

MY SPECIALTY

CIBOTIUM SCHEDEI, King of Ferns; looks, grows, keeps and sells good. 2-in., \$3.00 per doz; \$20.00 per 100. 4 in., 35c. each; \$4.00 per doz.; \$30.00 per doz.; \$150.00 per 100. For larger sizes, prices on application.

ADIANTUM FARLEYENSE, 2 in., \$1.20 per doz.; \$9.00 per 100; \$85.00 per 1000.

ADIANTUM RHODOPHYLLUM, 2 in., \$4.00 per 100.

ADIANTUM LATHAMI, 2 in., \$4.00 per 100.

Fresh, home-grown fern spores always on hand. Write for list. Orders booked now for Fern Seedlings for June, July and August delivery. Over one million in stock, \$1.00 per 100; \$3.50 per 1000. Shipped in or out of flats:—

J. F. ANDERSON, Short Hills, N. J.

Orchids

We have on hand splendid importations of

CATTLEYA GIGAS
CATTLEYA LABIATA

Write for our tempting prices

JULIUS ROEHRS CO.

Orchid Growers and Importers

RUTHERFORD, N. J.

We are now taking orders for a grand lot of **CATTLEYA TRIANAE**, 400 bulbs to a case, at \$50.00 net cash, per case, which we expect to arrive here some time in June. Will sell cheaper if ordered in quantities. Solicit correspondence. Same established plants of **CATTLEYA GIGAS**, **MENDELII**, **SCHROEDERAE** and **TRIANAE**, from \$2.00 to \$5.00 per plant.

JOHN DE BUCK,
Collector of Orchids,

COLLEGE POINT, N. Y.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.

Sander, St. Albans, England

and
235 Broadway, Room 1, New York City

ORCHIDS ORCHIDS

Arrived in fine condition, Cattleya Percivaliana, Cigras, Sanderiae, Speciosissima and Oncidium Kramerianum and others. Write for prices. Telephone, 143 Madison, N. J.

ORDONEZ, DE NAVE CO., MADISON, N. J.
8 SAMPSON AV., P. O. BOX 105

ORCHIDS

Arrived in fine condition the following

Cattleya Labiata, C. Percivaliana, Laelia (Cattleya) Crisp, L. Praestans, L. Dayana, Miltonia Cuneata, M. Candida, M. Clowesii, Oncidium Crispum, O. Marshallianum, O. Luridum, O. Varicosum Rogersii, and others. Write for prices.

LAGER & HURRELL, Summit, N. J.

Jensen & Dekema
CARNATION SPECIALISTS

674 W. Foster Ave., CHICAGO.

ASPARAGUS

Per 100
60,000 Plumosus Seedlings \$1.00
Plumosus, 2 in. pots, July 10..... 2.00
Sprengeri, 2 in. pots, ready..... 2.00
ALTERNANTHERA, yellow and red 2.00

JOS. H. CUNNINGHAM,

Hydrangea Otaksa, Asparagus Sprengeri, Vinca Variegata

2 1/2 in., at \$2.50 per 100.

Grevillea Robusta out of 4 in. (fine for window boxes and decorative purposes), \$15.00 per 100.

ROSES Bride, Gate, Ivory, Perle and Malde, out of 3 in., \$6.00 per 100; \$55.00 per 1000.

Hydrangea Otaksa 15,000. Or-Fall delivery. Prices on application.

JOHN C. HATCHER, Amsterdam, N. Y.

TO CLOSE OUT FOR LATE PLANTING

SALVIA, 2 1/2-3-4 in. pots, \$1.50-\$2.50-\$4.50 per 100.

VINCA, 3-4 in., \$10.00 per 100.

PARLOS IVY, 3 in., \$3.00 per 100.

CANNAS, Austria, 2 in., \$2.00 per 100.

PETUNIAS, double and single, 2 1/2 in., \$1.50 per 100.

VERBENAS, 2 1/2 in., \$1.50 per 100.

PHLOX DRUMMONDI, 2 1/2 in., \$1.50 per 100.

J. S. BLOOM, RIEGELSVILLE, PA.

Vinca Variegata

Strong, from 4-in. pots, \$8.00 per 100.

Double White Geraniums
4 and 5-in. pots, in flower.
Cash or satisfactory reference.

Theo. E. Edwards, Bridgeton, N. J.

ASTERS

Simple's, 5 colors, by mail 40c. per 100; \$3.00 per 1000 by express.

Per 100
PHLOX, dwarf compacta 2 in. . . 2.00
CENTAUREA GYMNOCARPA, (dusty miller) 2 in. 2.00
ZINNIA, fine double, 2 in. 1.00
COSMOS, early dwarf and giant, 2 in. 1.00
ASPARAGUS Sprengeri, strong, 3-in., \$5.00 per 100; 2-in., fine, \$2.50 per 100.

Cash with order please

GEO. J. HUGHES, Berlin, N. J.

CYCLAMEN

Splendens Gigantum Hybrids

This strain has no equal or better, in five true colors, including fringed varieties, well grown plants, from 2 1/2-in. pots \$5.00, from 3-in. pots \$7.00 per 100. Satisfaction guaranteed.

PAUL MADER, East Strausburg, Pa.

VEGETABLE PLANTS

LETTUCE, Grand Rapids, Big 100 1000
Boston, Boston Market and Tennis Ball, Ready May 1st. \$0.20 \$1.00
PARSLEY, Moss Curled 26 1.25
BEETS, Eclipse 26 1.25
CELERY, White Plume, Giant Fascal, Golden Heart and other varieties 1.00
EGG PLANTS, N. Y. Improved, small for transplanting 25 2.00
TOMATO, Stone, Perfection, Beauty and other varieties. 1.00
CABBAGE, Flat Dutch, Drum-head, Hollander, Savory, and other varieties 1.00
R. VINCENT & SON, Jr. White Marsh Md.

CANNAS

Per 100
My selection from pots..... \$4.00
PRIMROSES, Chinese, Forbesi, Obconica, Alba and Rosea, July 1.... 2.00
FANSY SEED, Large flowering, oz. \$4.00.

CASH DELAWARE, O.

ALTERNANTHERA

P. Major, 2-in., 2c. Aurea Nana, Rosea, 2-in., 2c.
AGERATUM, white, Pauline Gurney, 2-in., 2c.
ASTERS, Semples, pink, white, crimson, and purple, \$3.00 per 1000.
CENTAUREA GYMNOCARPA, Dusty Miller, 2-in., 1 1/2c.
COLEUS, 2-in., 2c.
HELIOTROPE, dark, 2-in., 2c.
SALVIA BONIFIDE, 2 in., 1 1/2c.
ROOTED CUTTINGS, prepaid per 100.
Ageratum, white, Gurney, Pauline, 60c.
Salvia Bonifide, 90c. Alternanthera, 3 kinds, 60c. Flowering Begonias, 8 kinds, \$1.25. Double Petunias, 10 kinds, \$1.00. Coleus, 10 kinds, 60c. Swainsona Alba, \$1.00. Paris Daisy, white and yellow, \$1.00.

Cash or C. O. D.
BYER BROS., Chambersburg, Pa.

FOXGLOVE

Plants from 3-in. pots..... 3 1/2c.
Canterbury Bella, 3-in. 2 1/2c.
Coreopsis lanceolata, 3-in. 3 1/2c.
Lavender true, 2-in. 6c.

FERNS

Extra fine stock, 3-in. pots of Holly Fern, Polypodium aureolatum, Pteris caerulea alba, etc., 5c. to close them out. Speak quick, only 1500 left.

One No. 4 Weathered Boiler in good order, \$30.00. Also, 100 Boxes, 12x16; 20 Boxes, 8x10, glass.

R. G. HANFORD, Norwalk, Conn.

ENGLISH IVY

R. C., 75c.; 2 in., \$2.00.

REX BEGONIA, 2 in., \$3.00; 4 in., \$8.00. **ASPARAGUS SPRENGERI**, 2 in., \$2.00 per 100. **ABRACADABRA**, 50c. and 75c. each. **CANNAS**, Austria, \$1.50; **Amarica**, \$1.50; **D. Harum**, \$2.00; **Pennsylvania**, \$1.50; **K. Gray**, \$3.00 **Marlborough**, \$2.00; **Italia**, \$1.50; **A. Bonivar**, \$2.00; **C. Henderson**, \$2.00; **Egandale**, \$3.00 per 100.

Will exchange for Enchantress, Boston Market or Guardian Angel Carnations

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Field-grown, ready to plant out. White, Shell Pink, Bright Pink and Purple, \$2.50 per 1000. Oimstead's White, best second early ASTER for florists' use in cultivation \$3.00 per 1000.

A. & G. ROSBACH, Pemberton, N. J.

Vegetable Plants

Cabbage, Wintners-stadt, and Sure Head, Strong plants, \$1.00 per 1000; \$8.00 per 10,000. Cauliflower, early Snowball, fine stock plants, \$3.00 per 1,000; in 5,000 lots, \$2.50 per 1,000.
Gustav Pitzonka, Bristol, Pa

FOUNDED IN 1888



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

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

An Appreciation.

Editor Florists' Exchange:

Allow me to compliment you upon the splendid reproduction of the photograph of my seedling melon; it certainly made a fine picture and came out beyond my expectations. The seedling is one of the most satisfactory melons I have ever handled; for cropping, size, and quality it is O. K. Wm. Turner.

A Peony Check List.

This very valuable document has now been issued by the New York State College of Agriculture—Department of Horticulture—Cornell University. It includes the leading varieties of peonies, of which authentic descriptions can be found in horticultural literature. The number of names listed is 2,706.

We congratulate the Cornell Experiment Station and the Committee on Nomenclature of the American Peony Society, under whose joint auspices the work has been prepared; and especially are the thanks of the horticultural world in general, and of peony growers in particular, due to John Eliot Coit, of Cornell, on whose shoulders the labor of compilation has largely fallen, for his painstaking, exhaustive efforts, which have resulted in the most excellent production now presented. As Professor John Craig well says in the preface to the list, "the Committee on Nomenclature was fortunate in being able to co-operate with the Experiment Station, and the Experiment Station was fortunate in finding a man willing and equipped for the work."

It is pointed out that the check list is neither complete nor perfect. It is sent out for the two-fold purpose of giving a fairly comprehensive and accurate presentation of references to peony names and pictures, and making some attempt at a standardized method of spelling. Mr. Coit and those associated with him will welcome criticism and suggestion. Either will manifest interest in the enterprise, and this is vital.

The following particulars, taken from the introductory chapter, will give an idea of the plan and scope of the Peony List:

"The two chief purposes of the peony investigation are: (1) to bring order out of the confusion which exists in regard to the names of varieties, and (2) to offer simple but complete and accurate descriptions for the short and unsatisfactory descriptions of the earlier writers. The information which is being gathered in connection with this work falls naturally into two classes, viz., that which is gathered from books, periodicals, manuscripts, correspondence, etc., and that which is obtained from direct observation of the plants themselves. The facts presented in this check-list belong to the first mentioned class. It is intended to publish a later bulletin containing all the facts gathered from the plants themselves.

"Every looming season, scores of new seedlings receive names, many of which instead of being new have already been used over and over again with increasing confusion. This check-list should act as a guide to prevent mistakes of this kind in future. It should also serve as a standard for spelling in peony nomenclature. The spelling of the varietal names of peonies is surely in a distressingly bad condition. An average list received by us from a well known peony grower contained 14 names, 30 of which were incorrectly spelled. In nearly every case in this check-list the earliest authentic publication has been adopted as the correct spelling.

"This check-list also indicates all those varieties which have been found to be illustrated, the place where the picture may be found, and states whether the illustration is a half-tone or a colored plate.

"The success of an old variety may be estimated to some extent by a study of this list. Old varieties which have been mentioned many times in print and are represented by many plots in the Cornell Experiment (which indicates that they are to-day offered for sale by many nurserymen) may usually be accepted as successful and valuable varieties.

"To examine all current trade-catalogs has been impossible, therefore as fair a representation of them as practicable was selected, and an effort was made to secure catalogs from all those who made a specialty of peonies.

"We wish to acknowledge the valuable work of A. H. Fewkes, the secretary of the American Peony Society, who compiled the references to Kelway's early catalogs and secured the original Japanese names of many varieties which have been obtained from Japan. Each one of his references has been credited to him thus: 'Fewkes' MSS.' A. Dessert of Chenonceaux, France, has also compiled much valuable information as to early European varieties, and his list has for the past year or two circulated in typewritten form among the members of the American Peony Society serving as a check-list or guide. Many errors, due to copying, have crept into this list, yet it has been the most reliable list available up to the present time. Every entry in Mr. Dessert's list has been incorporated into this check-list and credit given to Mr. Dessert thus: 'Dessert's MSS.' These two are the only manuscripts which have been used in compiling this check-list.

"It was decided to have only one alphabetical scheme and to combine in it all varieties of herbaceous and tree peonies (moutans). References to the type species are treated as though the specific name was a varietal name as far as alphabetical position is concerned.

"This check-list is horticultural in its nature rather than botanical. It differs from a botanical check-list in several points. It is arranged alphabetically; the credit for a given variety is given to the originator (when known) instead of to the first describer as in botanical usage; few references to monographs or strictly botanical works are cited under the name of the species, such being reserved for a later descriptive publication.

"Nothing whatever is attempted in this paper toward classification or a working out of the synonymy, for the plants themselves must be made the basis for such work. All names whether synonyms or not are listed and their references given.

"In several catalogs not bearing date of publication were not considered. In some cases the dates were secured through correspondence; in other cases where the date of peony names was manifestly spurious, the catalog was rejected on the ground that it was not dated.

"We wish in this connection to call attention to a point which is often ignored by some of the growers. A varietal name should not be translated, but should retain the language in which it was first published. For example, Duc de Wellington should never be written Duke of Wellington. There is a peony originated by Guerin in France and named in French Reine (which means Queen Victoria). There is also another and very different peony originated by Kelway in England and named in English Queen Victoria. It will thus be seen that a translation of these names would lead to utter and continued confusion. A rigid adherence to this rule in the case of the Japanese and Chinese names would seem to entail a hardship on Europeans and Americans. Therefore for the sake of accuracy of record, these names are entered in this check-list in the original, while the final disposition of such names is a matter for the future deliberation of the Committee on Nomenclature.

"Another and very important source of error is the distribution of roots bearing carelessly written and illegible labels. The various shipments to the Cornell Station established this fact beyond dispute. Many of the lots bore labels which took hours of vexing and discouraging work to decipher, and many could not be read with certainty. Other lots, however, bore neatly printed labels which did not leave a shadow of doubt as to their wording. We wish to strongly urge the use of printed or at least legibly written labels, for we are convinced that a large amount of confusion may be avoided by due care in this particular.

"Another source of confusion is the common method of attaching the labels. Nearly every box of roots we received contained loose labels in the bottom, and our collection of unnam'd plants is therefore needlessly large. It is the common custom to cut off the old stalks about three inches above the crown, and to these smooth and slippery ends the labels are often loosely wired in such a careless manner that there is nothing to prevent their slipping off. In some cases the label is wired to a branch of the root. The roots, however, are very brittle and the branch bearing the label is often broken off.

"The best and most satisfactory way to label large peony roots is to use a label with a hole near one end. A stout cord is passed through the label and between the central or main forks of the root, and between the stub of the stalks, fitting closely down between the buds and securely tied. It is practically impossible for a label thus attached to become detached in any way without breaking the cord.

"Again, confusion sometimes arises directly in the nursery row itself, and this is often due to the fact that in digging, pieces of the fleshy roots are broken off and being overlooked are left in the soil to sprout up later and cause trouble. On this account it is advisable to rotate the crop and not to follow peonies with peonies the very next year.

"We regret to say that a part of the confusion exists as a direct result of the renaming of old varieties. This is done by careless, irresponsible or unscrupulous growers and dealers. These persons represent one of the greatest obstacles to our already too difficult task of bringing order out of chaos; they are a serious handicap to the horticultural progress of the day. Let us illustrate. On working over the trade catalogs, one came to hand which contained in its general list of herbaceous peonies ninety-seven names, no one of which had occurred previously in any of our lists or card indexes. No intimation was made in this catalog that any of these were new varieties, coming out of a clear sky, as it were. We grew suspicious and wrote to the firm for an explanation. Their answer was as guileless as it was interesting. 'Certainly,' they said, 'we bought a large job lot of roots without names and supplied the names ourselves that they might sell better.' It was with a large sigh of relief that we noted their catalog was not dated and on this ground it was at once consigned to the waste-basket. But in cases where the magnitude of this sin is fully realized by the offender, the spurious names may be masked and smuggled into long lists of orthodox names in such a way as to make it impossible in every case to single them out. We find that American catalogs are just as bad in this regard as the European, and the enormity of this offence should in some way be impressed on all those interested in peony growing on both sides of the Atlantic. We are placing this important matter thus boldly before the peony-loving public in order that a sentiment shall be developed which will frown down frauds of this kind. The best we can hope for is an honor system which will prevent any man smirching his own character and injuring his fellow grower by such unprofessional and dishonest action.

"As soon as the work of examining the various lists of varieties was begun, it became very evident that there was no uniformity or system whatever in the alphabetical classification commonly used. The first step therefore was to formulate a few rules for guidance which would insure uniformity and make the list easier to use. Our scheme was already worked out and in use at the time P. Rivoire's article appeared on the subject in the 'Revue Horticole' (May 1, 1905, p. 214).

If any difficulty is experienced in finding a name in the list, the following rules should be consulted:

Rules of Classification.

I. When a variety is named for a person, the surname shall be taken as the index word, followed by a comma with all the Christian names, titles, prefixes, etc., following.

Example: Guerin, Madam Jules.

II. Where a variety is not named for a person, the leading noun shall be taken as the index word.

Example: Queen, double Crimson.

III. Where all the words are adjectives or Latin words, they should be retained in the order in which they were originally published. Where the original order has changed from long usage, they should be cross-indexed.

Examples: Old double Red; Nobilissima superba alba.

IV. A possessive noun should follow the modified word with comma.

Example: Perfection, Richardson's.

V. In doubtful cases they should remain in the order in which they were originally published and be cross-indexed when necessary.

Example: Rose Brilliant.



S. A. F. O. H. Bowling Trophy

Donated by The Whillidin Pottery Co., Philadelphia, Pa.

VI. A variety which is named for an exposition at which it is shown, should be indexed under the word "Exposition" followed by the name of the exposition and any other words composing the name.

Example: Exposition de Lille, Triomphe de.

VII. After the surname the initial of the first name should be used for indexing, and if Christian names are all alike, Mr. should precede Mrs.

VIII. A varietal name should remain in the language in which it was first published until officially passed upon by this society.

"Note. One star before the name indicates that the variety has been pictured. The star is repeated in citing the reference to the place where it may be found. Two stars indicate a colored plate."

The subjoined page taken from the list will give an idea of its character generally.

- 1. ABANI, P. (Kelway) (1) 1886, Kelway Cat., Fewkes' MSS.
- 2. ABIAH, P. (1) 1906, Kelway Cat. p. 103.
- 3. ABIANUS, P. (1) 1884, The Florist p. 109.
- 4. A BO KIU, P. (1) 1903, Jap. Cat. Fewkes' MSS.
- 5. ABOLANI, P. (1) 1884, The Florist p. 109. (2) 1889, The Garden, Vol. 36, p. 9.
- 6. ABOLUS, P. (1) 1884, The Florist p. 109.
- 7. ABORA, P. (Kelway) (1) 1886, Kelway Cat., Fewkes' MSS.
- 8. ABOTIS, P. (Kelway) (1) ? Kelway Cat., Fewkes' MSS. (2) 1888, The Garden, Vol. 33, p. 619. Cornell Plot No. 1607.
- 9. ABOUT, ADMIRAL; P. (1) Cornell Plot No. 1.
- 10. ABOUT, EDMOND; P. (Crousse, 1885) (1) 1885, Dessert's MSS. (2) Cornell Plots No. 2, 1608.
- 11. ABRON, P. (1) 1884, The Florist, p. 110. (2) 1899, Shady Hill Nursery Cat. p. 144.
- 12. ABRUPOLIS, P. (1) 1884, The Florist p. 109. (2) Cornell Plot No. 6.
- 13. ABYLA, P. (1) 1888, Garden and Forest, Vol. 1, p. 224. (2) 1899, Shady Hill Nursery Cat. p. 144.

OUR READERS' VIEWS

A Word With Job.

Editor Florists' Exchange:

"A little nonsense now and then
Is relished by the wisest men."

Environment not yet having overcome heredity, the human posey is still in the same old rut as when the above couplet was written, which accounts for the popularity of the intellectual treacle furnished by Job, John Birnie, the Ginger Jar Man, and occasionally by

JOHN G. ESLER.

Gladiolus America.

Editor Florists' Exchange:

We have been interested in the articles that have been appearing from time to time in your columns regarding Gladiolus America. There have certainly been some strong and telling points brought out in favor of America, and as it is such a valuable variety we are not surprised that different growers are trying to claim the credit for its production.

One of the writers, who signs himself "M. C.," makes a strong point against Mr. Christy and Mr. Groff when he says that if they had had this variety for so many years the bulblets would still be in their stock, and surely if America increases as fast as Mr. Groff claims, namely two to five thousand per cent., he would have a larger stock of it than anyone else in the world after growing it so many years.

We note what Mr. Groff says regarding his No. 119 seedling and Mr. Cowee's No. 869, and in regard to this would like to say that during the S. A. F. O. H. convention in Washington in 1905, Mr. Cowee showed our representative a seedling gladiolus that he thought might be the same as America, but after he had seen the latter staged, he changed his mind and said nothing more about it, as he plainly saw that his was an entirely different variety. If Mr. Groff is so sure that his No. 119 is identical with America wouldn't it be a good plan for him to send some gladiolus expert some of the bulbs for testing this Summer? Of course, it would be necessary for him to use the bulbs from his original stock which he has numbered 119.

He also makes the statement that a number of his customers claim to have received America in their stock during the past years. Would he have any objection to giving the names of some of these customers and let them speak for themselves? On the other hand, we know of customers who have purchased Groff's hybrids for several years and are willing to say that America was never discovered in any of these that they ever grew.

Regarding the contention of the variety being a cross between gaudavensis and Childsii, we would say that we are responsible for this part of the argument. Anyone familiar with gladioli, who has taken the trouble

to examine the bulblets as they are attached to the bulbs in the Fall, will find that they are inclined to be similar to the Saundersoni type, which species is one of the parents of the Childsii strain, and on these grounds we called it a cross between the gaudavensis and Childsii.

Floral Park, N. Y.

JOHN LEWIS CHILDS.

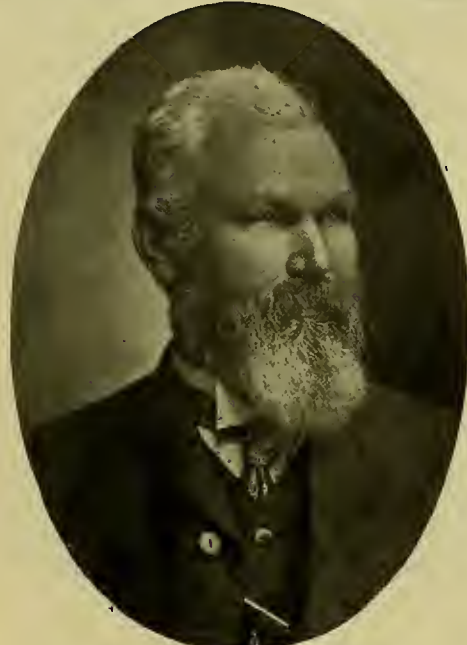
Reforming Trade Journalism.

Editor Florists' Exchange:

The policy of The Canadian Florist in eliminating the purely personal items from its columns, leads me to ask "what is news?" as applied to the trade journals. Is it the price lists? Or the essays (usually printed several weeks after being read)? Or the cultural articles? Or the reports of societies? These are all admirable in their way and purely impersonal, but I am extremely dubious if they will by themselves alone keep up anything but a very select circulation.

As I take it, advertising matter is the life blood of the trade journal and to secure this the subscription list becomes of paramount importance; to hold the same against all comers is doubtless a matter requiring a considerable amount of tact and ability, hence the question as to what is news must be of some interest to you and your subscribers.

My experience among florists leads me to believe that the "trade notes" (which are largely personal)



The Late Julius F. Kretschmar

form one of the chief items of interest among the craft and this is followed closely by the advertisements as we are all buyers at some time or other. Of course, personal items must be largely of local interest only, and what might interest Chicago highly may be of no moment in New York or San Francisco. But shall we on that account deny the Chicago man his little joke? For is not The Florists' Exchange national? Indeed are not there many in the trade who are known throughout the country, and who are loved and respected likewise; and are not their sayings and doings of general interest?

Again, do we not rejoice in the correspondence column and enjoy the "Homeric combats" between the mighty ones trenchant with pen and steeped in experience; and have we not time and again gained considerable knowledge of plant life and human nature thereby?

Speaking for myself, I loved to read the chatty, sunshiny articles on plant culture by our old friend Scott, so lovably human if not always wise, and deeply regret his inability to continue them. I love the direct, "toe the mark" epistles of John Birnie, Patrick O'Mara and many others whose personalities are unknown to me. I am glad when I see old "Phil" roll up a good score at the alleys, also when I learn there are occasional florists human enough to enjoy a ball game, or race-horse meet or even a pugilistic affair; and I trust it will be long before they may cease to do these things or be ashamed to have them recorded.

In conclusion, Mr. Editor, I believe the average florist to be a pretty fair sample of human nature, and the trade journals should be broad enough to swallow him down whole, giving him his journalistic food in "men's" full size doses and not "fear of giving offense capsules."

SAMUEL BATSON.



Julius F. Kretschmar.

Julius F. Kretschmar, one of the pioneer florists of the Flatbush section of Brooklyn, N. Y., died at his residence, 237 Lincoln road, on Saturday, June 8, 1907. Some years ago Mr. Kretschmar suffered a paralytic stroke, from which he never fully recuperated. He was, however, able to go around, and a day or two before his death witnessed the Sunday school children's parade in Brooklyn, returning home from which he was again stricken with paralysis and never rallied.

Mr. Kretschmar was born at Langensalza, Thuringia, Germany, on May 9, 1845. After passing through the public school, at the age of 14 years he entered as an apprentice in the business of his father, who was a florist, where he remained until he was about 20 years of age, coming to the United States in 1864, when he entered into partnership with his brother, Cuno, who had preceded him, and embarked in the florist business in Brooklyn, N. Y. In June of the same year they were reinforced by the remaining members of the family. The elder Mr. Kretschmar brought with him many European novelties in plants and seeds; among the latter being seeds of the now well-known smilax, and his firm might be said to have been the introducers into this country of that serviceable plant.

The property on which the greenhouses were built had advanced in value from \$7,000 to \$44,000 in five years, so the concern concluded to purchase other ground on East New York avenue, Flatbush, removed there in 1870, and built greenhouses. Mr. Kretschmar here began to interest himself in hybridizing petunias, producing several good double kinds. He was also the originator of the double zonal pelargonium Henry Ward Beecher.

In 1881 a change took place in the business, the deceased and his brother, Herman G., leaving the old establishment to their elder brother, Cuno, and starting a greenhouse plant at Clarkson street, Flatbush. During the occupancy of this establishment, the firm was noted for the excellence of the stock it produced, both in plants and cut flowers. Considerable attention was devoted to carnation hybridizing, one of the good varieties obtained being Ruth Cleveland. Owing to ill health, Kretschmar Brothers disposed of their plant in 1893 to Charles E. Koch, who now operates it. They then made a trip to Europe, and on their return the following year, located at West Nyack, N. Y., where they again entered the florist business. While here Mr. Kretschmar suffered his first stroke of paralysis; this was followed by others, and his health became generally impaired. Herman G., was also ill, and the Nyack place was disposed of, but through unforeseen circumstances had again to be taken over by Kretschmar Brothers, and is now being operated by two sons of Herman G.

Mr. Kretschmar was a member of the New York Florists' Club, and a life member of the S. A. F. O. H., and when in good health was a regular attendant at the meetings of each of these organizations. He was an enthusiastic bowler, having been one of the organizers of the Flatbush Florists' Bowling Society, in which he took particular interest when his health permitted. He was a pleasant, sociable gentleman, and was held in high esteem by his brother florists, and was unmarried. Funeral services were held at his late residence on Tuesday last; the body was cremated.

William Krumm, Sr.

William Krumm, Sr., seventy-six years old, who had been a resident of St. Joseph, Mo., for forty-two years, died June 2, at his home. He was formerly a contractor, but in late years had been engaged in the business of florist. He was a Mason and Odd Fellow, and is survived by several children.

Standard Roses.

In years past many attempts have been made to have success with imported standard roses, but always with unsatisfactory results. Various reasons have been assigned for the failure, the one most generally accepted being the exposure of the stems to the hot sun in Summer. There is but little doubt that this exposure is against the well doing of not only standard roses, but of many other standard trees and shrubs, the exposure of the stems being an unnatural one.

Attempts are now making to grow the standard roses grafted or budded on the Rosa rugosa stock, and so far with very promising results. This stock is an exceedingly vigorous one, and it seems likely it will endure the hot sun better than the old style stock, the Rosa canina. One thing that would add to the chance of full success would be the growing of these standards in partial shade, for, undoubtedly, it is the lack of it that adds to the difficulty of growing them.

J. M.

The Temple Flower Show, London, Eng.

The Royal Horticultural Society may be congratulated on the great success of what is now regarded as the most important horticultural event of the year. The attendance has been on the increase from year to year, and this year the receipts for admission considerably exceeded any former record. Among the visitors were about 200 nurserymen and others interested in horticulture from the continent. France, Belgium, Holland, and Germany were well represented. We were not favored with visits from any of the Royal Family, but the leading aristocracy were well represented; and the leading nurserymen from all parts of the Kingdom were there.

Taking the exhibits there were nearly 300 entries, but there was an absence of really startling novelties.

The hybrid spireas, Queen Alexandra and Peach Blossom, which were of lovely shades of pink, and came from Messrs. Gt. Van Waveren & Kruyff, Holland, were much admired and Messrs. Cuthush & Sons, who are the retail agents, hooked many orders. Among other things which sold well were the Japanese stunted trees. Messrs. Carter & Company's representative told me that they had done a larger trade than ever before.

ROSES.—These were a great feature, but in place of the large specimens of the hybrid perpetuals one used to see years ago, we now have the Ramblers and other decorative types. We have several additions to these. Paradise, single, pink with white base to petals, which are curled backwards, very free and likely to take a leading position. Aennchen Müller, a pretty pink semi-double, with twisted petals, is another which is likely to become popular; this has been well shown by Messrs. W. Paul & Sons. The new Baby Rambler from Dorothy Perkins, "Maman Levavasseur," shown by Messrs. Levavasseur & Sons, Orleans, France, was very pretty. It is a counterpart of Madame Levavasseur, with flowers of the same color as Dorothy Perkins. The same rose was shown by Messrs. Merryweather & Sons under the name of Phyllis, and as there is likely to be confusion by having two names so near alike the last would be the better name of the two. Another good rose which received an award of merit, was Dr. William Gordon, a large, full bright rosy pink variety, which should be a useful sort for cutting from. Queen of Spain, from Messrs. S. Bide & Sons, Farnham, was well shown; it is a lovely shade of blush with a rosy tint, a rose which ought to be useful either for market or the exhibition stands.

CARNATIONS.—These were never so extensively shown before at the Temple; all the leading growers came forward with really good exhibits, but nothing very special was seen in new varieties except H. Burnett's Marmion, a very large flower of a lovely shade of rosy red shading off to white. The flowers have more the appearance of a Malmaison, but Mr. Burnett says it is free flowering and a true Winter sort. The American varieties were most in evidence, and it is interesting to note that after being grown here for a year or two they improve in quality. Robert Craig, Fiancée, White Perfection and several others are much better than when first grown. Of English sorts Britannia will remain a favorite; and the Malmaisons are as popular as ever.

SWEET PEAS.—Very fine exhibits of these were made, H. Eckford maintaining his position as a leading grower. H. J. Jones had some promising seedlings; W. J. Unwin also had some very fine unnamed seedlings which we shall look forward to seeing again. C. W. Breadmore is another raiser who showed well. In many of the miscellaneous exhibits sweet peas were prominent, yet a few years ago it was rare to see them at this show.

FERNS.—These were not quite so extensively shown and there were no quite new varieties submitted. Messrs. T. Rochford & Sons staged some very fine plants of *Nephrolepis todaioides*, and from E. Neuhert, Wandsbek, Germany, came some grand plants of *Nephrolepis Whitmani*. The latter is not quite so heavy in the fronds as *N. todaioides*, but it is quite a matter of personal opinion as to which is the better; they are both good. In Messrs. H. B. May & Sons' exhibit they were both well shown, and being grown under the same conditions demonstrated their distinctness. In the same exhibit *Polypodium Mayi* and many other good things made up a grand display, well meriting the award of a gold medal, which was given. Messrs. Hill & Son also put up a fine exhibit, which included many choice things.

ORCHIDS were a leading feature and the Veitchian cup, offered for the best exhibit in the show was secured by Major Halford for a very fine group in which was included a grand variety of *Miltonia vexillaria*, considered the gem of the show. Some wonderful varieties of *Odontoglossum crispum* were shown by various exhibitors. Orchids are still very popular, yet it would seem from the results of a recent auction sale of choice sorts that, financially, their value is decreasing; but this is probably owing to the increasing number of new varieties we are getting. If some-

thing very remarkable is shown at one meeting we may see another better at the next.

TUBEROUS BEGONIAS.—These were grandly shown, and it would seem almost impossible to make further advance on what we now have, especially the double varieties as shown by Messrs. T. S. Ware, Blackmore & Langdon, B. R. Davis & Sons, J. Laing & Sons, and A. Gwillin. Those of Messrs. R. P. Kerr & Sons were of remarkable quality.

Messrs. Carter & Co., Holborn, were extensive exhibitors of calceolarias glonias, cinerarias, hegonias, and many other subjects. Messrs. Sutton & Sons, Reading, filled a large space with well grown plants of schizanthus, calceolarias, *Primula japonica* (in distinct colors), nicotianas (hybrids), and others of the highest quality.

More tent room was provided than we have previously had, and every available corner was well filled. Taking the whole, there was not an exhibit that was not worthy of its position.

ROSE FRAU KARL DRUSCHKI.—This rose is selling well in the market, and Mr. Harkness, of Hitchin, who is a large wholesale grower, tells me that he has already booked orders for 12,000 for Autumn delivery.

A. HEMSLEY.



Rose White Killarney,

Originators, Waban Rose Conservatories, Natick, Mass.
Photo. by J. W. Duncan.

New Rose White Killarney.

This new rose is a sport of the now popular variety Killarney. It originated at the Waban Rose Conservatories, Natick, Mass., and Mr. Montgomery has had an observant eye on it for the past two seasons, and is satisfied that it will make a valuable addition to the list of hybrid tea roses for forcing. It is of a beautiful pure white color and has the same free form of flower that is characteristic of the parent. It has proved a strong grower and will be introduced by the raiser, if it continues to give the satisfaction it has already given.

J. W. DUNCAN.

Stray Notes from Across the Atlantic.

The weather in the United States seems to be of a very mixed order of late and on the whole a great deal more than our own. We had no frosts in May approaching those recorded in The Florists' Exchange for May 13. Nevertheless, it has been had enough, for practically everything has stood dormant for weeks save in sheltered districts. Spring sown sweet peas, planted from pots in early April, made no growth until the latter end of May; in fact, many plants were a great deal worse at that date than when first put out, and my collection of 50 novelties and unnamed seedlings has given me a great amount of concern, for it is only natural that the most valuable sorts suffer most. Naual, I say, but it is pure cussedness. However, the change in the temperature during the past few days gives us hope.

I was much interested in the paper read by S. S. Skidelsky. A gentleman in New York recently informed me that America was quite a century behind

this country as regards gardening generally. Over here, practically every village has its own local show, and it is perhaps a matter for surprise when I say that villages of about 200 or 300 souls can run shows which yield a balance on the right side. Of course, a great deal of financial support is given by interested ladies and gentlemen. These minor shows influence the public at large, and so horticulture continues to grow.

Many of our greatest exhibitions started from very small beginnings. Shrewsbury, which is by no means a big town, although a very ancient one, runs an annual show, which requires about 60,000 superficial feet of tenting. An average of 70,000 people attend this exhibition during the three days it is open. The takings at the gate reach well over £1,000. About 90 special trains run into the town on the third day. This show grows bigger every year. Rain or fine, it is always a success. Yet it is only run by the Shropshire Horticultural Society, and is not really a national affair. York and Wolverhampton also run monster floral fetes.

There is undoubtedly sound sense in all that Mr. Skidelsky says. If you can only knock the silly and selfish ideas out of the dog in the manger sort of people, a big national show ought to and will succeed. The trade men are the men to grip hold of it. Our Temple show is almost entirely a trade show. No prizes other than medals and certificates are given, yet every one clamors for space.

From my little knowledge of American traders, I should say there are heaps of men who can help to make the Chicago idea a success. Both wholesale and retail people ought to make a splash. The public will turn up right enough, and good business will follow.

Kent, England.

T. A. WESTON.

Silk Fibre Made from Pineapple Leaves.

Vice-Consul J. K. Foster writes from Newcastle that experiments made in Queensland with the leaves of the pineapple plant have shown that there is a fiber in them which may be used in the production of a useful kind of silky cloth. As to the particulars, he adds:

"The fiber experimented upon has simply been obtained by the soaking of the leaves until the outer covering could be easily removed, and the soft, jelly-like substances around the fiber passed away. The fiber, when dried, has been found to be of fine texture and of good staple and strength. Some of it has been exhibited at Rockhampton, and a sample has also been placed in the hands of a firm of ramie dealers and spinners to discover its market value. There is a great demand for all kinds of fibers, and this may be found to be a valuable one. Possibly, there is here the utilization of a waste product. The leaves of this ground fruit have ever been destroyed as worthless, but if the fiber can be used it will be an additional source of profit to the pineapple growers. The process of extracting the fiber from the leaves need not be an expensive one, and if some new kind of silky material can be obtained it will produce no small amount of wealth. Pineapple silk may become the fashion. It will be worth while to make further experiments."

LITTER AND MANURE.—The value of manure in a great measure depends on the kind of litter used in bedding the animals. Some materials are better absorbers of the liquid manure and some of them contain a larger amount of plant food than others.

Generally the best litter for average use is straw. Next to it is chaff or dead leaves. Peat moss and pure peat, of course, are the best of all kinds of litter, but there are many parts of the country where these can not be obtained.

As between straw and dead leaves, the purpose for which the manure is needed should decide which should be used. If a great deal of nitrogen and but little phosphoric acid and potash are desired, then dead leaves are better than straw. If more potash than any of the other elements be desired then the litter should be principally straw.

W. H. Beal, of the Department of Agriculture, shows the fertilizing constituents in a ton of the different kinds of litter to be as follows:

A ton of dead leaves contains 16 pounds of nitrogen, 6 pounds of phosphoric acid, 6 pounds potash.

A ton of straw contains from 8 to 12 pounds of nitrogen, 6 pounds of phosphoric acid, 12 to 32 pounds potash.

A ton of peat moss contains 16 pounds nitrogen.

A ton of sawdust contains from 4 to 14 pounds nitrogen, 6 pounds phosphoric acid, 14 pounds potash.

A ton of peat contains from 20 to 30 pounds nitrogen.

The lack of corkiness in some sweet gum trees leads many to think there are two varieties of the tree, but as they become larger they all look alike. The same thing is noticeable in the mossy gum oak, as regards its corkiness. But in this oak the lack of corkiness in some trees seems persistent and the cups of the acorns are less mossy.

Gladiolus Praecox.

Gladiolus praecox is one of this year's novelties of great promise, and for commercial value especially, as flowering plants are produced within three to four months. This gladiolus originated with Fred. Roemer, of Quedlinburg, Germany, and was obtained by intercrossing the early flowering plants of gandaveisii, Lemoinei Childsii and manceanus.



Seeds sown in a temperate frame the first of March, will germinate in from three to four weeks. As the growth advances and weather permits ventilation should be given to get good sturdy plants. A transplanting, although not essential if seeds are sown thinly, is of great benefit to the plants. Soon the seedlings are strong enough to stand feeding, and a mulching of bone dust or pulverized sheep manure should be afforded.

During the first year the bulbs of the seedlings attain the size of that of a crocus bulb. The second year they are as large as usually offered in commerce.

As stated by the originator bulbs of Gladiolus praecox, two years old, produce two and more spikes of normal size.

Spike of Gladiolus Praecox

more spikes of normal size.

Rats.

There is no more destructive animal, none more obnoxious, either in city or town, than the common rat. Its depredations create losses of thousands of dollars annually; therefore any remedial measures looking toward its extermination are to be welcomed. A bulletin (Farmers', 297) treating on the "Methods of Destroying Rats," has just been issued by the Department of Agriculture, in which such measures for combating the brown rat, as poisons, traps, ferrets, fumigation, etc. are provided. From the document in question we make the subjoined extracts:

Poisoning.

BARIIUM CARBONATE.—One of the cheapest and most effective poisons for rats and mice is barium carbonate, or barytes. This mineral has the advantage of being without taste or smell; and, in the small quantities used in poisoning rats and mice, is harmless to larger animals. Its action on rodents is slow, but reasonably sure, and has the further advantage that the animals before dying, if exit be possible, usually leave the premises in search of water. Its employment in houses, therefore, is rarely followed by the annoying odor which attends the use of the more virulent poisons.

The poison may be fed in the form of a dough made of one-fifth barytes and four-fifths meal, but a more convenient bait is ordinary oatmeal, with about one-eighth of its bulk of barytes, mixed with water into a stiff dough; or the barytes may be spread upon bread and butter or moistened toast. The prepared bait should be placed in rat runs, a small quantity at a place. If a single application of the poison fails to drive all rats from the premises, it should be repeated with a change of bait.

STRYCHNINE.—Strychnine is a more virulent poison, but its action is so rapid that the animals often die upon the premises, a circumstance which prohibits its use in occupied dwellings. Elsewhere strychnine may be employed with great success. Dry strychnine crystals may be inserted in small pieces of raw meat, Vienna sausage, or toasted cheese, and these placed in the rat runs; or oatmeal may be wet with a strychnine sirup, and small quantities laid out in the same way.

Strychnine sirup is prepared as follows: Dissolve a half ounce of strychnia sulphate in a pint of boiling water; add a pint of thick sugar sirup and stir thoroughly. A smaller quantity of the poison may be prepared with a proportional quantity of water. In preparing the bait it is necessary that all the oatmeal should be moistened with sirup. Wheat is the most convenient alternative bait. It should be soaked over night in the strychnine sirup.

OTHER POISONS.—The two poisons most commonly used for rats and mice are arsenic and phosphorus, nearly all commercial preparations containing one or the other as a basis. While experiments prove that rats have great powers of resistance to arsenic, it may sometimes be used advantageously as an alternative poison. Preparations of phosphorus sold by druggists are often too weak to be effective; and home-made mixtures, when of sufficient strength, are dangerous, as rats may carry the baits into walls or crannies and thus cause fires. For these and other reasons the Biological Survey does not recommend preparations containing phosphorus.

POISON IN THE POULTRY HOUSE.—For poisoning rats in buildings and yards occupied by poultry, the following method is recommended: Two wooden boxes should be used, one considerably larger than the other, and each having two or more holes in the sides large enough to admit rats. The poisoned bait should be placed on the bottom and near the middle of the larger box, and the smaller box should then be inverted over it. Rats thus have free access to the bait, but fowls are excluded.

Trapping.

Trapping, if persistently followed, is one of the most effective methods of destroying rats. The improved modern traps with a wire fall released by a baited trigger and driven by a coiled spring have marked advantages over the old forms, and many of them may be used at the same time. These traps, sometimes called gullotine traps, are of many designs, but the more simply constructed are to be preferred. Probably those made entirely of metal are the best, as they are less likely to absorb and retain odors.

Gullotine traps should be baited with small pieces of Vienna sausage (Wienerwurst) or bacon. The trigger wire should be bent inward to bring the bait into proper position to permit the fall to strike the rat in the neck.

Other excellent baits for rats are oatmeal, toasted cheese, toasted bread (buttered), and sunflower or pumpkin seeds. When seed, grain, or meal is used with a gullotine trap, it may be placed on the trigger plate, or the trigger wire may be bent outward and the bait sprinkled under it.

Wire cage traps (French) also are useful for catching rats, but in the long run the kinds recommended above are much more effective. While trapping, all other food should be removed and the trap bait should be changed often. Rats are very suspicious, and baits and traps should be handled as little as possible. Increased success may be secured both in trapping and poisoning if the rats are fed for a night or two with the kinds of food to be used for bait.

Use of Ferrets and Dogs.

A ferret is useful for the purpose of driving rats out of burrows and other hiding places so that dogs can capture them. An experienced person with dogs and ferrets trained to work together can kill many rats when they are numerous. But the amateur ferreter is likely to be greatly disappointed.

Fumigation.

Rats may be destroyed in their burrows in the fields, and, still more important, in leaves and rice-field dikes, by the use of carbon bisulphid. A wad of cotton or

Conclusions.

By the persistent use of traps, occasional resort to poison, and the exercise of forethought in the construction of farm buildings so as to minimize the opportunities for harborage, farmers and others may prevent the greater part of the loss and annoyance they now experience from rat depredations. The same statement applies in great measure to city and village conditions. Hence co-operation in the warfare on rats is particularly important and can not be too strongly urged.

CLUB AND SOCIETY DOINGS.

THE COLUMBUS FLORISTS' CLUB met by special invitation at the extensive greenhouses of the Fifth Avenue Floral Company, Monday evening, June 3, and were entertained in the most enjoyable manner. President Sherman F. Stephens occupied the chair; every other officer of the club was also on hand, besides the largest gathering of members and friends seen at any meeting of the year. Especially were the ladies well represented. Perhaps the most interesting feature of the meeting was the awarding by the president of the club's prizes for the best displays of plants and cut flowers, as indicated by the largest "point totals" given by the prize committee during the past Winter season (that is, from October to May). These awards were made as follows: I. D. Sieber, with a season's total of 123 points, received the club's first prize; R. A. Currie came next; the third prize going to Sherman F. Stephens. So much pleased are all of us with the plan,



Gladiolus Praecox

other absorbent material is saturated with the liquid and pushed into the burrow, the opening being packed with soil to prevent escape of the gas. All animals in the burrow are asphyxiated. Fumigation about buildings is not so effective, as the gas can not readily be confined.

Rat-Proof Construction.

The best way of excluding rats from buildings, whether in the city or country, is by the use of cement in construction. As the advantages of this material are coming to be generally understood, its use is rapidly extending to all kinds of building. Dwellings, dairies, barns, stables, chicken houses, ice houses, bridges, dams, silos, tanks, cisterns, root-cellars, hotbeds, sidewalks, and curbs are now often made wholly of concrete. In constructing dwelling houses the additional cost of making the foundations rat-proof is slight as compared with the advantages. The cellar walls should have concrete footings and the walls themselves be laid in cement mortar. The cellar floor should be of "medium" rather than "lean" concrete, and all water and drain pipes should be surrounded with concrete. Even an old cellar may be made rat-proof at comparatively small expense. Rat holes may be permanently closed by a mixture of cement, sand, and broken glass or sharp bits of stone.

Natural Enemies of Rats.

The value of carnivorous mammals and the larger birds of prey in destroying rats should be more fully recognized, especially by the farmer and the game preserver. Chief among the animals that are useful in destroying these rodents are the fox, skunk, and weasel, and the larger species of owls and hawks. Rats destroy more poultry and game, both eggs and young chicks, than all the birds and wild mammals named combined, yet some of our most useful birds of prey and carnivorous mammals are persecuted almost to the point of extinction. An enlightened public sentiment should cause the repeal of all bounties on these animals and afford protection to the majority of them.

that there is no question about the "point awards system" being a yearly regular feature in the future. Nothing has ever done so much to build up our club as the splendid displays of plants and flowers we have had at every meeting. James McKellar, as chairman of the picnic committee, made a full report of the progress so far made; at least two special cars will be necessary to carry the party to Buckeye Lake, July 17 next. The affair will be a regular old-fashioned basket picnic; and as regards the sports and games with prizes, these features will be arranged by the committee.

M. B. Faxon made a full and final report of the distribution of vegetable and flower seeds for the children's home and school gardens. This season much more eager interest has been shown by the children than ever before, and the distribution has been much wider, more than three thousand children having been supplied with the penny packets of seeds. This work is now recognized by the community as doing a great deal of good, but it remains to be seen if the many conflicting plans of doing it can in seasons to come be brought under one head to the mutual benefit of all.

The next meeting of the club will be on Tuesday evening, June 11, when a rose and strawberry show will be held in the rooms in the Brent Building. This affair bids fair to be well attended, and the competition keen for the prizes. The coming chrysanthemum show was also discussed, and every grower especially urged by the committee and the president to do his best.

At this meeting Frank Keop, who is with the Clover Hill Greenhouses, was elected an active member; and there are still more to come. F. W.

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephones, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words: each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 28th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. FOLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLOAL CO., 1705 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dayton, O.

W. G. MATTHEWS, FLOALIST, 16 West Third Street. Flowers in any arrangement for all occasions for Dayton and vicinity. Personal attention given to all orders. Long distance telephones.

Dallas, Texas.

LANG, THE FLOALIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Louisville, Ky.

JACOB SCHULZ, 644 4th Avenue. Personal attention given to out-of-town orders for Louisville and surrounding territory. Have a choice line of seasonable flowers always in stock; delivery facilities perfect.

Indianapolis, Ind.

BERTEEMANN BROS. CO. Our facilities for executing orders in an efficient manner are unexcelled. Our shipping territory includes the surrounding states. High grade flowers; expert workmanship.

Albany, N. Y.

EYES, 11 North Pearl Street, cut flowers or floral designs delivered to any part of Albany and vicinity on telegraphic order. Personal attention given and satisfaction guaranteed.

THE NEW JERSEY FLORICULTURAL SOCIETY.—The display of orchids at the society's rooms in Orange on June 7 maintained the same standard of excellence as has characterized its previous exhibits. Lager & Hurrell's natural hybrids attracted particular attention, especially hybrid number one, Cattleya Mossiae × C. Percivaliana, and C. Mendelii superbissima, Phalenopsis Cynthia (Schilleriana × Aphrodite) and a white sobralia (macrautha × Kunastiana). Julius Roehrs Company staged their new Rambler rose, "Julius Roehrs," pink, with a yellow center, which showed well under the electric light. George Graves (gardener, Edwin Thomas), had Odontoglossum vexillarium; three plants in five inch pans, carrying ninety flowers, were particularly fine, and Laelio-Cattleya Martinetti. Charles Hathaway,

(gardener, Max Schneider), staged Veitch's hybrid columbine, Gladiolus Peachblow and carnations Enchantress and Victory; John Crosby Brown (gardener, Peter Duff), roses Richmond and American Beauty; Stewart Hartshorne (gardener, A. T. Capara), Azalea mollis and rhododendrons; Stewart Dixon (gardener, Albert Larsen), Phoenix Roebeleni; the Colgates (gardener, William Reid), a specimen phoenix.

The rose night noticed for this evening was finally abandoned, because of the season. Schedules for the forthcoming Fall show were distributed and a dahlia night for the September meeting debated. There was no paper read, and the strenuous season showed itself in a small attendance. J. B. D.

THE NEW YORK FLORISTS' CLUB met on the evening of June 10, 1907, in the Hotel Earlington, West Twenty-seventh street. This was the last meeting before the Summer recess; President Totty occupied the chair, and there was a fair attendance.

The members decided to have a field day in Bronx Park on Wednesday, June 12, when it would then also be possible to take in the exhibition of the Horticultural

The president appointed Messrs. Scott, O'Mara and Jaenicke a committee to draw up resolutions on the death of Julius F. Kretschmar, one of the oldest members of the club; and Messrs. Wallace, O'Mara and Birnie to perform a similar duty in connection with the death of the father of E. V. Hallock.

President Totty, in urging a large representation of the club at the forthcoming convention of the Society of American Florists at Philadelphia, appointed the following gentlemen as a committee on transportation and arrangements: Messrs. F. H. Traendly, Secretary Young and J. B. Nugent, Jr. It is expected that the New York delegation will leave on the Monday afternoon preceding the opening day (Tuesday) of the convention, the first session being held at 10 a. m.

Quite a discussion ensued on the selection of a permanent meeting place for the club, in which the discontinuance of the "caotteen" came in for a share of consideration, and the matter was referred to the Board of Trustees with power to act. It is expected that some suitable room will be secured before the Fall season opens.

Among those present was J. C. Vaughan, of Chicago, who spoke interestingly on the coming shows to be held in that city, mentioning particularly the chrysanthemum show in the Fall, and the proposed national exhibition. Mr. Vaughan said that he would be glad to see a meeting of the S. A. F. O. H. general committee at some point in the East for the members to pledge themselves to take hold and push the last named exhibition forward. He spoke of the good Spring season experienced by horticulturists generally this year. He believed that the stocks planted would, in the main, do very well, and argued that horticulturists must not get too much like the farmers who are always complaining about their crops.

W. P. Craig, of Philadelphia, was also a visitor, and told of the progress making along all lines for the coming S. A. F. convention. Among other things, Mr. Craig said that it would be possible for every delegate to obtain hotel accommodation within 150 yards of Horticultural Hall. A large number of delegates were expected and all would, he was sure, go away feeling that they had been well entertained. In addition to Horticultural Hall, the theater across the street had been secured for the exhibition, which promises to be a large one.

John Birnie conveyed to the club the compliments of John Westcott, of Philadelphia, vice-president S. A. F. O. H., asking the members' presence at the coming convention.

Mr. Nugent presented a proposition from the "Little Mothers' Society" of New York, to the effect that the club hold a show in the Waldorf-Astoria some time in the Fall on behalf of that organization. The matter was referred to the exhibition committee.

The essay committee announced that when the club again reconvened they hoped to present an illustrated lecture by G. V. Nash, of the New York Botanical Garden, on "Water Lilies"; also a paper by Henry Saxton Adams, Wellesley, Mass., on the subject of "School Gardens." Mr. Adams being chairman of the Committee on School Gardens of the Massachusetts Horticultural Society, in which he is very enthusiastic, and has been extremely successful in building up in the community of Boston.

The meeting then adjourned till the second Monday of September.



Four Foot Wreath of Cape Jasmine and Cattleyas Placed By General Kuroki at Base of Lincoln Statue, Lincoln Park, Chicago, Memorial Day, 1907

Artist, P. J. Hauswirth

Society of New York. A large number signified their intention of being present.

The outing committee submitted samples of the program for the annual outing, which this year takes place on Tuesday, July 2, at Witzel's Point View Grove, L. I. There is a long list of prizes for the occasion, most of them being devoted to events in which the children will participate. There will be a ladies' bowling match, a baseball game for bachelors versus benedicts, fat men's race, married men's race, married ladies' race, etc., in all some twenty-six events. It is stated that the majority of the prizes to be given will be in gold. The affair promises to be the most enjoyable the club has ever had in this line, and the outing committee thanked the advertisers and donors of the premiums for their assistance toward that consummation.

The committee on closer relations with the S. A. F. O. H., reported that after consideration of the matter they had been unable to evolve any practical plan whereby affiliation could be effected; it was thought that the national society should submit some uniform proposition to all the horticultural organizations whose affiliation was desired, for discussion and action.

Mr. O'Mara reported progress for the committee on closer relations with the Horticultural Society of New York in exhibition matters.

Mr. Traendly stated he had been advised that the total amount of the guarantee fund in connection with the proposed National flower show at Chicago, to be held under the auspices of the Society of American Florists, had been subscribed, and he therefore withdrew his motion that the club contribute \$250 to the fund.

FOR THE RETAILER

For reproduction on this page, we solicit from our readers engaged in the Retail Trade, good, clear photographs of subjects that are of general interest, such as store interiors, designs of different classes, new delivery wagons, etc.

Summer Window Decoration.

There is almost a general tendency among retail florists to allow their window displays, and even their stores, to have a neglected appearance during the Summer months, more especially in the larger cities, where the majority of their best customers either go to Europe or to their country homes. This is no doubt a great mistake, as nothing looks worse than a neglected window or a dusty store. One can never tell what moment one of his best customers may drop in, and if there is only one customer a day the window and store should always look bright and clean. The excuse seems to be, "it does not pay to keep a large stock during the Summer." This is an error. It may not pay to carry a large stock of cut flowers, but there are many ways of keeping a store attractive without spending a fortune on a class of stock that may have to be thrown away.

Stove or tropical plants do splendidly in the window during the warm months, and will always prove attractive on account of their unusual coloring and manner of growth. Nepenthes or pitcher plants are very suitable for suspending in the window, and if properly cared for will do well. The plants must never be allowed to get dry, and the "pitchers" should be kept filled

BOHN SYPHON REFRIGERATOR

..FOR FLORISTS..

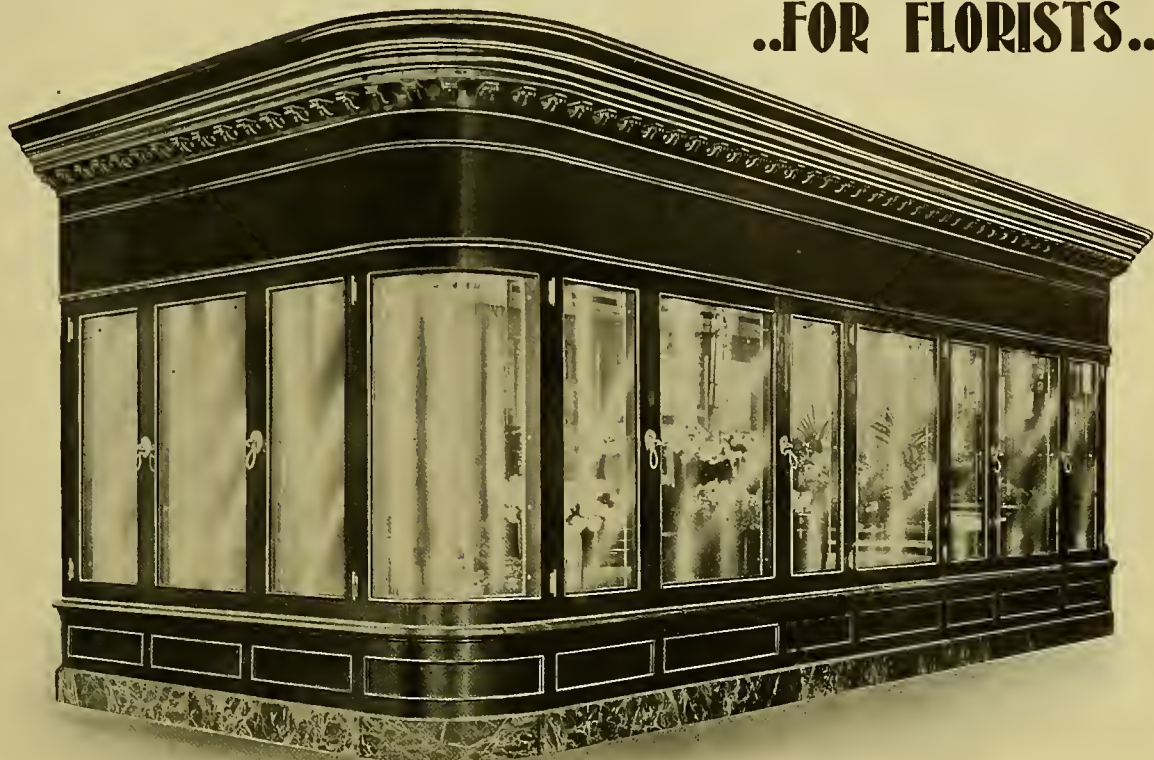
St. Paul, Minn., May 10, '07.
WHITE ENAMEL REFRIGERATOR Co., St. Paul.

Gentlemen:—We have now used the new show case which you installed for us about six months ago. We can say that it is everything you promised for it, and that is "perfection."

We don't know what else we could say except the first case which you built for us about seven years ago helped materially to our success. Your system is certainly ideal for keeping flowers.

The workmanship on this new case could not be better. We have had people say, "Why that is more finely finished than our piano."

Yours truly,
HOLM & OLSON.



STYLE "L" BUILT FOR HOLM & OLSON. ST. PAUL, MINN.

A Live Florist Cannot Afford to be Without a Bohn Patent Syphon Refrigerator.

Everyone who is familiar with it says "It is the Ideal Florist's Refrigerator."

Write for Catalogue, Dept. No. 36.
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WHITE ENAMEL REFRIGERATOR CO., St. Paul, Minn.

with water. Platyceriums or staghorn ferns are always a curiosity. Phyllotenum Lindoni is a stove plant that does splendidly in the store or dwelling, although generally supposed to be very tender. Heliconia aurea striata diffeuhachias, marantas dracenas, aloccasia, Ficus elastica variegata, and Ficus Parcelli are all plants rarely seen, except in the greenhouse, and are sure to be attractive in a Summer window.

There are many tropical flowering plants that will grow and flower continuously. The anthuriums are perhaps the best. Ixoras and the flowering aroids are bound to attract. Strelitzia regina, the bird of paradise flower, is always beautiful. Rare varieties of Summer flowering orchids help greatly and show to best advantage when on the plants. A window devoted exclusively to ferns, is always good. Asplenium nidus avis, the Australian bird's nest fern, Cibotium Schiedeii, and a host of others will make a display that will seldom have to be changed.

Aquatic Displays.

Later on in the season, aquatics are particularly adaptable; a display of this order looks cool and restful to the passerby. A Broadway florist has done wonders in this line, and has a very complete display every Summer, which, besides being a great attraction, brings quite a little business for aquatics.

A large tank about twelve inches deep occupies the entire space of one large window. It has the appearance of a reservoir, the sides being banked with growing Selaginella serpens and S. denticulata. Tall growing aquatics, Cyperus alternifolius, C. Papyrus, the Egyptian paper plant, and Sagittaria latifolia, the common arrowhead, being used in the background. Water

hyacinths, duckweed, and other floating varieties will grow and do well. Then a continuous supply of cut water lilies, with their foliage, add color and are good for selling purposes. Nelumbium speciosum (the Egyptian lotus) and its varieties are very showy, and stand out of the water on good long stems. There are also several nymphæas that are very pretty with a variety of coloring. N. sulphurea, pale yellow; N. odorata, white and scarlet, scented; N. odorata gigantea, pale blue and the pink variety N. odorata rosea. The bottom of the tank is covered with small white pebbles or silver sand; a fountain rises in the center of the pond, and throws a fine spray over the whole arrangement, keeping it cool and fresh-looking. Gold fish, lizards, frogs, etc., are also introduced, and give it a touch of life.

Japanese windows, although not new, can be made very effective; in fact, a miniature landscape, if well carried out, never fails to draw a crowd, and there is always an opening for new ideas in that line. A small outlay and a little ingenuity will work wonders.

D. RAYBUN.

GROWING OF PLANTS UNDER SHADE.—In experiments the Bureau of Plant Industry of the Department of Agriculture has found that under normal climatic conditions the area at the Arlington farm enclosed by shade cloth usually carries a somewhat higher temperature and greater humidity than the surrounding air. During seasons of excessive rainfall these conditions become injurious rather than beneficial to most crops. While lettuce and gladiolus were a marked success during the past year under shade, when the humidity was excessive, the similar work on carnations was not as satisfactory as during the previous season.

Meeting of American Peony Society.

Editor Florists' Exchange:

May I call the attention of your readers to the meeting of the American Peony Society which takes place in Ithaca, N. Y., on June 18 and 19? The exhibition and meeting will be held in the new Agricultural College Hall. The exhibition will take place in the auditorium, and such meetings as are called will be held in the lecture rooms of the horticultural department.

The season is exceptionally late. This will reduce the number of blooms which the experimental plot at Cornell will be able to furnish, but I confidently hope that we shall be able to make an interesting contribution to the collection. I trust that there will be a large gathering of peony enthusiasts. They will be welcome to Cornell at this commencement period, and will no doubt be interested in many features of university life in addition to the subject-matter under consideration.

Cornell University.
JOHN CRAIG.

I wrote you yesterday that our peony meeting was fixed for June 18 and 19. It now seems more than probable that we will postpone the meeting until the 27th and 28th of June. The abnormally low temperature has so retarded the development of the flowers that it seems altogether desirable to make this postponement in order that our visitors may be able to see the maximum number of plants in bloom. Mr. Fewkes will definitely notify you of the change.

JOHN CRAIG.

* [Secretary Fewkes confirms, by a telegram received here Wednesday morning, the postponement of the meeting of the American Peony Society until the dates given by Professor Craig—June 27-28. Ed. F. E.]

GRAFTED ROSES

FINE STOCK. READY NOW.

- Richmond, \$2.00 per doz., \$14.00 per 100. \$120.00 per 1000.
- Killarney, \$2.00 per doz., \$15.00 per 100.
- Etoile De France, 3 in. pots, \$3.00 per doz., \$18.00 per 100.
- Kaiserin, Carnot, \$2.00 per doz., \$15.00 per 100.
- Bride, Golden Gate, Wootton, 2 1/4 in. pots, \$2.00 per doz., \$12.00 per 100.

ROSES OWN ROOTS

- Richmond, \$6.00 per 100; \$50.00 per 1000.
- Perle, Suoest, \$5.00 per 100
- Bride, Bridesmaid, Golden Gate, \$4.00 per 100; \$38.00 per 1000.

ASPARAGUS

- PLUMOSUS NANUS, 2 1/4 in. pots.. Per 100 \$4.00
- " " 3 in. pots .. 8.00
- " " 4 in. pots .. 10.00
- SPRENGERI, 2 1/4 in. pots..... 3.00
- " " 3 in. pots..... 3.00
- " " 4 in. pots..... 3.00

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- From 2 1/2 in. pots. Fine stock.
- Ben Wells, Lady Cranston, F. S. Vallis, Merstham, red; Merstham, yellow; Mrs. Wm. Duckham, 75c. per doz.; \$5.00 per 100.
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- Dr. Engeshard, Geo. S. Kab, Meta, Mrs. Coombs, Nagoya, Opa, Robert Halliday, Wm. Duckham, 60c. per doz.; \$4.00 per 100; \$30.00 per 1000.
- Autumn Glory, Ada Spanting, Cremo, Cullingfordii, Dorothy Devens, Harry May, H. W. Risman, J. E. Lager, J. H. Troy, Mrs. J. Jones, Mrs. Baer, Major Bonaffon, Niveus, Timothy Easton, W. H. Lincoln, 50c. per doz.; \$3.00 per 100.

SEND FOR CATALOGUE

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We have the following stock in any size and quantity:

- SALVIA Splendens, Bonfire and St. Louis, 2 1/2 in. pots, \$3.00 per 100; 3 in. pots, \$4.00 per 100; 4 in. pots, \$6.00 per 100.
- COLEUS, in eight leading varieties, 2 1/2 in., \$2.50 per 100.
- AGERATUM, Dwarf Blue, 2 1/2 in., \$2.50 per 100.
- GERMAN IVY, 2 1/2 in. pots, \$2.50 per 100; 4 in., \$6.00 per 100.
- CRIMSON RAMBLEE ROSES, 7 in. pots, 75c. each.
- CANNAS, six leading varieties, 4 in. pots, \$9.00 per 100.
- 10,000 CHRYSANTHEMUMS, 2 1/2 in. pots, 32 varieties.
- ASPARAGUS Plumosus Nanus, 2 1/4 in. pots, very fine plants, ready for 4 in., \$3.50 per 100; \$30.00 per 1000.

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- Liberty, Richmond, La France, Killarney, 3 1/2 in. pots.....\$18.00 per 100
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THE DILLON GREENHOUSE MANUFACTURING PLANT FOR SALE OR RENT. Mail all inquiries to

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- Dwarf, 2 in., \$1.75 per 100.
- ASTERS, transplanted, 40c. per 100; \$3.00 per 1000; strong stock seedlings in all colors, Queen of the Market, Semple's Branching, etc., 30c. per 100; \$2.00 per 1000.
- GERANIUMS, stroog, 4 in. stock, all colors, all double, 5c. Cash.

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Strong plants from 3 1/4 in. pots (30 fine named varieties) \$6.00 and \$8.00 per 100.

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	Size pots	Per 100
Achyranthes, Emersonii, etc.	2 1/4	\$3.00
Ageratum, White and blue	3	5.00
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Cuphea Platycentra,	2 1/4	3.00
Canna, fine Varieties as List.	3 1/4	6.00-8.00
Colons, all the leading Varieties	2 1/4	3.00
" " " " " "	3	4.00
English Ivy	2 1/4	8.00
Feverfew, double white.....	2 1/4	3.00
Fuchsia, double and single....	3	4.00
" " " " " "	2 1/4	3.00
Geraniums, double and single.	3 1/4	7.00
" Strong	2 1/4	8.00
" Special Color or variety	2 1/4	8.00
" Double and single	2 1/4	3.00
" Ivy Leaved	3 1/4	8.00
" Ivy leaved double, best var.	2 1/4	4.00
Heliotrope, light and dark varieties	3 1/4	6.00
" " " " " "	2 1/4	3.00
Ivy, German	2 1/4	3.00
Lautana, 12 best varieties....	3	5.00
Moonflower	4	10.00
" " " " " "	2 1/4	4.00
Petunias, single	2 1/4	3.00
Salvia, splendens and Bedman....	3 1/4	5.00
" " " " " "	2 1/4	3.00
" " " " " "	3	3.50
Smilax,	3	4.00
Tropaeolum, double red and yellow	2 1/4	4.00
Vinca, variegata and elegantissima ..	3	4.00
" " " " " "	3	5.00
" " " " " "	2 1/4	4.00
Verbenas, Mammoth Strain....	2 1/4	3.00
Violets, Marie Louise, \$3.00 per 100; \$25.00 per 1,000.		

VERBENAS

Best Mammoths, from pots.....\$3.00

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THE JENNINGS STRAIN.

A few more left; strong plants at \$1 per 100, transplanted, ready to bloom. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn.
Growers of the Finest Pastes

Notes from the Shrub Border.

There are few seasons like the present when flowering and ornamental shrubs attain such luxuriant wealth of bloom. The continued cool season and copious rains have materially helped in the development of the plants, and although the past Winter was severe on many species, yet the majority of them seem to have regained renewed vigor, consequently have been much more showy than they generally are. Of course, the season is late and many of the species which are generally past flowering in May are yet in their full glory. Many of the native species are more showy than their exotic brethren, and deserve to be used much more extensively for ornamental planting than they are.

In the early days of Spring we see such shrubs as the forsythias, with their wealth of golden yellow, but scarcely less showy are the native spice bush, Benzoin odoriferum, and the more rare leatherwood. *Direa palustris*, which though slow growing makes a well formed plant four feet high. The cornelian cherry, *Cornus Mas*, is a very pretty plant when a well shaped specimen is seen; last Winter in certain locations was very severe on many of its flower buds.

Among the early flowered trees are the many varieties of magnolias, and one of the most meritorious is *M. stellata*, which though having smaller flowers than any of the others is, on a lawn, much more attractive than some. Following these earlier flowering plants come the many species of prunuses and a variety which should be much more used than it is, is *triloba flore plena*. I think this plant should be always classed among the best shrubs.

The crab apples have been exceedingly fine this season and although many of the species are past, the best of them all is now in its full glory. I refer to the variety *Malus ioensis flore plena*, or as it is more popularly called, *Betche's* double flowering crab. The individual flowers of this variety are large, semi-double, of the pleasing pink color so well liked in an Enchantress carnation, and then the fragrance of the native species is far superior to any of the others. Although the double form is by far the best, still the single variety is very ornamental as well as its Eastern neighbor, *Malus coronaria*. Other early sorts which are well worth growing are the several forms of *baccata*, *floribunda*, *Halleana* or as it is perhaps better known *Parkmani*, *Neidzwetzkyana*, *toringo*, *Sargenti* and *Schiedeckeri*.

Following the crab apples the lilacs have the largest number of varieties that attract attention. As a general thing these are all past in this locality, two or three weeks earlier than they will be this season. *Syringa chinensis*, both the light and dark forms, are very attractive shrubs and are much more admired by many people than the popular hybrid varieties, many of which are of poor color and of a stiff habit, which is anything but pleasing. Some of the best double sorts, with fine large trusses, are *Louis Henry*, *Marechal de Bassompierre*, *Dr. Masters*, *Souv. de L. Thibaut*, *William Robinson*, *Compte de Kerchove*, *Prince de Beauvau*, *Dr. Stockhard*, *Condoret*, *Maxine Cornu*, and *Mme. Cassimier Perrier*. The latter variety is white and very fine. The best whites are *Marie Legraye*, *Virginalis*, *Mme. Moser*, and *alba major*. A few of the other sorts of medium or dark shades of color of much merit are *Alvin Mocquery*, *President Carnot*, *Professor C. S. Sargent*, *President Grevy*, *Souv. de L. Spath*, *Dr. Lindley*, *Caroli*, *Ambrose Verschaffel*, *amena*, *President Massart* and *Triomphe d'Orleans*.

The *loniceras* this season are better than I have ever before seen them and their flowers seem to last much longer on account of the cool weather. There are a great many varieties of more or less merit; the most showy are the forms of *tatarica* and *bella*, in almost all shades of pink and white. *Ruprechtiana* is a fine variety, and one of the

lesser known sorts of a very pleasing habit is *Kokrokowi*. *Morrowi* must, of course, not be forgotten, for it is one of the best of all the varieties.

Many of the azaleas are just beginning to make a magnificent show while some of the earlier sorts have just passed. The native sorts should be much more used than they are. One of the best has been very fine this year. I refer to *Vaseyi*, which is the earliest to flower and its beautiful delicate shades of pink are very fine. It is followed by *canescens* and *nudiflorum* which are both now in fine form, and *calendulacea* is just beginning to open. *A. Kämpferi* is a fine form of the Indian azalea which has proved perfectly hardy; and then there is *sinensis* in many shades of color and the *Ghent* hybrids which are just in bud.

The red buds, *Cercis canadensis*, has been very fine of late; the variety *alba*, which is of recent introduction, is a very good shrub. The Japanese variety is not hardy here.

Fraxinus Bungeanus is a flowering ash rarely met with; it is a large growing shrub and rather pretty at this season. The *fobergillias* are native shrubs which are rare; there are two varieties, *major* and *carolina*, with but little difference except that the former grows taller and is consequently the more showy of the two. *Cornus florida* and the variety *rubra* have not been so good here this season on account of the flower buds having been Winter-killed; last year the red variety was one of the most showy plants in our borders.

Exochorda grandiflora is very fine this season. *Staphylea colchica* makes a grand shrub when well established; it is at present very fine. *Halesia tetraptera* is the only hardy species with us, and it is a glorious mass of snow-drop like flowers at present.

Sambucus racemosa makes a showy large shrub at this season, and its flowers will be followed later by bright red fruit. *Rhodotypos kerrioides* is just in bloom, and it has the commendation of continuing to flower throughout the season. This is also true of the single and double forms of *Kerria japonica*, which though old-fashioned are both valuable when given a good setting.

Few of the *viburnums* are yet in bloom. The earliest to flower is *Lantanoides*, but it is rarely found in cultivation. *Tomentosum* is just opening, and is very attractive. I notice also that *Wrightii* is in flower, but it is not so attractive in blossom as it is when it shows its beautiful clusters of bright scarlet fruits. *Viburnum Lantana* is rather pretty in flower, and so is *prunifolium*.

Xanthoceras sorbifolia is just in bloom, and what a fine plant it is, but how hard it is to manage; you have it established and then, presto! it dies, and you cannot tell the reason. *Enkianthus campanulatus* and *japonicus* are both rather rare, having generally been considered not hardy; but they are perfectly so and are, though not imposing, rather interesting shrubs for the border.

Several of the *spiraeas* are now in bloom. The old-fashioned *prunifolium flore plena* still holds its own as one of the best. The variety *Van Houttei* is just opening. Several of the *euonymuses* are now in flower, but they are not showy; it is later on in the season, when they are in fruit, that they are attractive. *Cydonia japonica* in many colors has been showy recently. There is a dwarf species known as *pygmaea*, which was brought from Japan by Professor Sargent, and which grows about a foot high; it is a very fine dwarf shrub.

Many of the *barberies* are very pretty at the present time, and none more so than some of the hybrid forms of *vulgaris*. *Amurensis* is a large flowered form which is quite distinct, and which is very attractive when in fruit. *Thunbergii* is not showy in blossom.

Ledum latifolium is a pretty dwarf shrub; and some of the *genistas* are becoming beautiful with their bright golden hues.

Paeonia moutan, though not generally seen in the shrub border, is one of the best shrubs, and when plants once become established, they soon reach a good size and are very fine when in flower.

Only a few of the roses are yet in bloom. *Rosa arkansana* is one of the first and one of the best wild roses; it is soon followed by *spinosissima*, *cinnamomea*, *blanda*, *lucida* and many others.

Boston, Mass. J. W. DUNCAN.

Syracuse, N. Y.

The Onondaga Valley, stretching several miles out from the city, possesses now as in the past considerable interest to plant lovers. As far back as 1801 when the valley was the home of the Iroquois as well as the grand camping grounds of the Mohawks, Cayugas, Oneidas, Tonawandas and Onondagas an old resident informs me that it was an Indian squaw who first discovered the trailing arbutus in this valley and first brought it to notice. Around the old beleaguered forts in this beautiful valley it is said the first wild flowers of Central New York have always bloomed.

The establishment of P. R. Quinlan is one of the largest in this city, or vicinity and nestles snugly in the foothills of the valley on a fertile tract of land where a natural supply of water is at all times available for the requirements of a large plant growing establishment. In company with Mr. Quinlan it was your correspondent's pleasure to be shown over this well kept area of glass. The houses are all comparatively new, having seen but a few years' service, and are of the King construction.

Besides the several houses devoted to roses and carnations there is quite a range given over to plant growing. One large house, about twenty by two hundred feet, was well filled with such stock as crotonas, dracenas, kentias, orchids and Whitmani ferns. The collection of orchids was brought from Venezuela by Mr. Quinlan while on a trip there a couple of years ago; they are now well established and several handsome cattleyas were in bloom. A large house is devoted to Asparagus plumosus with one bed for elegantissima fern and another for callas. Some of the asparagus beds are allowed to run to long strings for decorative purposes, while others are used for the daily cut for both of the Quinlan stores in the city. Another large house is filled with poinsettias, rex and tuberous rooted begonias as well as gardenias.

Adiantum Croweanum is extensively grown; a large house being given up to it. The plants are growing on benches and making a splendid new growth. Fully ten thousand plants must have been in this house.

The houses of roses and carnations looked well considering the lateness of the season. The rose house is 200x104 feet, each house or section having four 6-foot beds, about twelve beds in all, two of which are devoted to Killarney, two to Mme. Abel Chatenay, and the remainder to Bride, Bridesmaid and Golden Gate. Grafted stock as well as own root plants are used; the Chatenay, however, are on their own roots.

In this house is a bed of a new rose,

a sport from Bridesmaid and several shades darker in color. It has thick leathery foliage and is a profuse bloomer as well as a rampant grower. The foliage is of such a heavy texture that it will resist mildew. Mr. Quinlan thinks well of it, but has not as yet begun to consider its introduction to the trade.

A house, 200x36 feet, is devoted to American Beauty. The carnation houses are of the same construction and dimensions as the rose department. The high gutters of this construction are very much to be desired. There is plenty of head-room for even a very tall man, to walk underneath. This coupled with the light iron posts gives the house a light, airy appearance. There is practically nothing that would obstruct the view from one end to another. The beds are all low, and while they have the appearance of solid beds are not really so, as they all have tiled bottoms resting on a brick foundation.

In the plant houses there are fully 20,000 young roses in 4-inch pots that Mr. Quinlan will shortly offer to the trade. The varieties are all desirable for commercial use. Geraniums in 4-inch pots were on hand also in large numbers.

Mr. Quinlan has about twenty acres of splendid land that he uses for his hardy stock. In a well prepared patch was a lot of 53,000 carnations that were beginning to make some growth. About half of this lot will be offered to the trade in a few months. Twenty-six thousand plants are required to fill the large carnation house.

Mr. Quinlan has been identified with the nursery and florist business in Central New York from his boyhood and while he has been eminently successful in that particular line he finds time to go out after business in other fields. He is president of the Warner Quinlan Asphalt Company and is also identified with several others of the many prominent industries of Syracuse.

Henry Morris has a city store, with ten large greenhouses at Elmwood where the greater part of his supply is produced. He has a nice stock of decorative plants, and grows ferns, roses and gardenias. His greenhouses face a prominent thoroughfare on which he has his office building and adjoining this is a very elaborate potting shed with glass front, all steam heated. Mr. Morris believes in plenty of room to work in. He has taken out quite a large excavation which he has prepared for the installation of a new eighty horse power steam boiler to heat his entire plant. The hot water boilers now in use will be abandoned after this season.

W. Wheedon, who conducted a cut flower store on Warren street has just gone out of business. This firm used to be Wheedon & Hencle; the latter gen-

leman withdrew some time last Spring and Mr. Wheedon has conducted it since that time until a few days ago when he determined to try his fortune in other fields.

Gustav Bartholome, who for some time past has conducted a greenhouse business opposite Woodlawn Cemetery, is about to make a new move. Mr. Bartholome has purchased some property adjoining his present stand and will this Summer begin the erection of a few good greenhouses on a larger and better scale. His office building and greenhouses are at present on leased land. Through years of good business and management he is now in position to have a modern place where he hopes to be able to give his patrons a larger and more varied stock to select from.

Henry Burt reports good business in the plant trade. Bannister Brothers have abandoned their store on West Genesee street and now have a good office building in connection with their greenhouses on Cayuga street.

L. E. Marquisee has a thrifty looking lot of greenhouses on Delaware street. Carnations are his hobby. He has lots of good things in store in that line for future notice and introduction.

W. Menelly & Son are also well to the front. Constant attention to business and untiring efforts to please have made them the possessors of a good growing plant and business enough to keep them at all times well occupied. J. M.

Plattsburg, N. Y.

The Winter is so severe at this point that many of the well known hardy flowering shrubs will not endure it. Viburnums, forsythias, weigelias, deutzias and California privet are no longer planted on that account. The same is true of the retinisporaa and hiotas of the choicer varieties. The short season gives the plants but little chance to get established. On June 9 lilacs were just budding, the peonies had not as yet opened. The planting of shrubs at some of the railroad stations was in progress; they looked as dormant as a birch broom. Spiraeas were chiefly used; oo tender plants had at that date been put out, the florists waiting for warmer weather. The apples were in bloom, and an apple blossom wedding was one of the features in local society that week.

Wm. Cook takes care of the best end of the Plattsburg trade. J. M.

VIOLET CULTURE

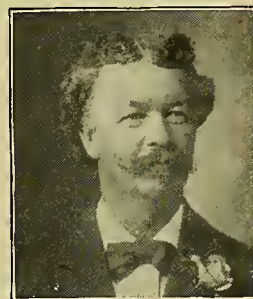
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Therefore we now sell our surplus stock of Bedding Plants at Cracker-Jack low prices.



- GERANIUMS, 12 best, leading varieties, 8 new kinds, large plants, mixed or named. 4-in. pots, \$7.00 per 100.
- AGERATUM, dwarf, best blue variety, 4 in. pots, \$7.00 per 100; 2 1/2 in., \$3.00 per 100.
- BEGONIA Glorie de Lorraine, 3-in. pots, raised from leaf cuttings, \$3.00 per doz.; \$25.00 per 100.
- HELIOTROPES, 4 in. pots, \$6.00 per 100.
- NASTURTIUMS, dwarf, all colors, \$7.00 per 100.
- FUCHSIAS, mixed, good varieties, 5 to 5 1/2 in. pots, 15c. to 20c. each; 4 in. pots, \$1.20 per doz.
- CANNAS, 10 good varieties, 4 in. pots, \$8.00 to \$10.00 per 100.
- HONEYSUCKLE, 5 in. pots staked up, 15c. each.
- DAISIES, Queen Alexandra and Marguerite (white), 5 1/2 to 6 in. pots, 20c. to 25c. each.
- MUSK PLANTS or MEMULUS MOSCHATUS, 2 1/2 in., \$3.00 per 100.
- PETUNIA, single California giant, ruffled or blotched, 3 in. pots, \$4.00 per 100. Inimitable or dwarf variegated, 2 1/2 in. pots, \$3.00 per 100.
- VERBENAS, all shades, 2 1/2 in. pots, \$3.00 per 100.
- COLEUS, Queen Victoria, Golden Bedder, Verschaffeltii, 2 1/2 in. pots, \$3.00 per 100. Fancy varieties, 2 1/2 in. pots, \$3.50 per 100.
- PHLOX DRUMMONDI, 2 1/2 in. pots, \$3.00 per 100.
- IVY, English or hardy, 12 in. long, 4 in. pots, \$8.00 per 100. IVY, German or Parlor, 2 1/2 in. pots, \$3.00 per 100.
- CENTAUREA GYMNOCARPA or Dusty Miller, 2 1/2 in. pots, \$3.00 per 100.
- CUPHEA or CIGAR PLANT, 2 1/2 in. pots, \$3.00 per 100.
- LOBELIA, dwarf or trailing, 2 1/2 in. pots, \$3.00 per 100.
- SWEET ALYSSUM, Little Gem, have 10,000 of them, 2 1/2 in. pots, \$3.00 per 100.
- MARIGOLD, Eldorado Africana and Gold Ring, dwarf, 3 in. pots, \$4.00 per 100.
- COSMOS GRANDIFLORA, white, red or pink, three plants in a 3 in. pot, separate colors, \$3.00 per 100.

- SCARLET SAGE, Clara Bedman or Bonfire, 4-in. pots, \$7.00 per 100.
 - THUNBERGIA or BLACK-EYED SUSAN, 2 1/2 in. pots, \$3.00 per 100.
 - MAURANDYA BARCLAYANA, 2 1/2 in. pots, \$4.00 per 100.
 - ARAUCARIA ROBUSTA COMPACTA, Spring 1906 importation. Have about 300 of this variety, only specimens, perfect tiers. Adapted for the lawn, front porches, cottages, hotels, etc. 7 in. pots, 4-5 tiers, 5 year old, 20 to 28 in. high, as broad as long, price, \$1.75-\$2.00-\$2.50 to \$3.00 each.
 - ARAUCARIA GLAUCA, large specimens, 8 year old, 38 to 40 in. high, 26 to 40 in. wide, 5 to 6 tiers, \$3.00-\$4.00-\$5.00 each.
 - ARAUCARIA, new importation. First consignment about 5,000, arrived (Saturday, May 4), per steamer Man-tou from Antwerp, and thereafter by every steamer up to June 1. Araucaria Excelsa, in their original packing, left planted in pots, 3 tiers, 10 to 12 in. high, 50c., larger sizes, 60c.-75c.-\$1.00 to \$1.25 each. Robusta, Compacta and Glauca from \$1.00-\$1.25 to \$1.50 each.
 - COCOS WEDDELIANA, 3 in. pots, 16 to 18 in. high, 15c. to 20c. each.
 - ASTERS, Enchantress, new, large blooming varieties, 3 in. \$4.00 per 100. Victoria, 8 shades, separate or mixed, \$3.00 per 100.
- Don't Forget We Lead the World in
- MOON VINE:**
- Watch and be careful; don't buy Morning Glory for Moon Vine.
- We grow only the best varieties, A. W. Smith's hybrid or Ipomea Noctiflorum, for which we have during the past 20 years a world wide reputation. We ship every Spring from 20,000 to 25,000 plants to every state and territory in America as far as Mexico. 4 in. pots, nicely staked up, 30 to 36 in. high, \$12.00 per 100; 2 1/2 in. pots, nicely staked up, \$5.00 per 100.
- NOTICE! Above Moon Vine is the earliest variety in existence, blooms freely, in big clusters, pure white; waxy flowers, very fragrant and as big as a saucer.
- Cash with order please.
- All goods must travel at purchaser's risk.

GODFREY ASCHMANN,

Importer, Wholesale Grower and Shipper of Pot Plants, 1012 West Ontario St., Philadelphia, Pa.

A COMPARISON OF COSTS

\$46⁸⁰

Is the cost of a one inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$140⁴⁰

Is the cost of a three inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$280⁸⁰

Is the cost of a six inch advertisement in every issue of *The Florists' Exchange* for one year, 52 issues. Total circulation, 369,200.

\$369²⁰⁰

Is the cost of the one cent stamp required to mail 369,200 circulars, exclusive of the great additional cost of paper, printing, addressing, etc.

The advertisements in *The Florists' Exchange* are ALWAYS read. The circular generally goes into the waste basket, without being read.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

THE FLORISTS' EXCHANGE

CLASSIFIED ADVERTISEMENTS

CASH WITH ORDER.

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or Other Wants; also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line 7 words to the line, set solid, without display. No advt. accepted for less than thirty cents.

Display advertisements in these columns, 15 cents per line; count 12 lines as to the inch.

[If replies to Help Wanted, Situations Wanted or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]

Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having the answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—As foreman or head gardener; experienced; best of references. Address, N. G., care The Florists' Exchange.

SITUATION WANTED—By seedsman and catalogue man; first-class references given. Address, Joseph, care The Florists' Exchange.

SITUATION WANTED—By first-class gardener and florist in private place. Can furnish references; can bring own helper. Address, M. J., care The Florists' Exchange.

SITUATION WANTED—By a single man, aged 45, up-to-date in all greenhouse and commercial work. Address, with wages and particulars, English, 412 Grand Street, Jersey City, N. J.

SITUATION WANTED—A young man, 19, willing to learn greenhouse work would like to get a position on a country place as assistant in greenhouses. Address, N. X., care The Florists' Exchange.

SITUATION WANTED—As working foreman or as head gardener on private place. New England States preferred. Aged 33, married and best of references. Address, N. Z., care The Florists' Exchange.

SITUATION WANTED—By first-class propagator and foreman of hardy perennials and nursery stock. Best of references. State wages and particulars at once. Address, C. W. Schneider, florist, Little Silver, N. J.

SITUATION WANTED—By two young Polish men, experienced in gardening, fruit, greenhouse and nursery work. Two years in America. Have good references; graduates of Gardeners' School, with honorable mention. Address, B. care The Florists' Exchange.

SITUATION WANTED—By experienced florist as foreman or grower on commercial place. References as to being capable, reliable and sober, also good designer. American, married man. New York State or N. E. preferred. Address, N. Y., care The Florists' Exchange.

SITUATION WANTED—As head gardener on private estate. Am in possession of a thorough knowledge of the work; good fruit grower; aged 36, nationality English, married, no family. Will be at liberty first of July. Can produce good references from present and past employers. Address, N. A., care The Florists' Exchange.

SITUATION WANTED—As foreman by first-class grower of roses, carnations, chrysanthemums and general work. A 1 reference. Have been eight years with one of the leading florists of the East. Am employed at present, but an desirous of getting a place where my services would be worth more than in my present position. Address, N. W., care The Florists' Exchange.

HELP WANTED

WANTED—Experienced foreman for rose establishment. Salary, \$100.00 per month and dwelling house. Address, N. S., care The Florists' Exchange.

WANTED—A competent, single man to take charge of a section of a tea rose house. Good wages. Address, A. R., Florist, Madison, N. J.

WANTED—Two rose growers to work under foreman. Wages, \$55.00 per month. Address, N. B., care The Florists' Exchange.

WANTED—An experienced working foreman on commercial place; must be good rose and carnation grower. Address, with references, Welles, 366-8 West 11th street, New York City.

WANTED—Experienced florist for general greenhouse work. Must be willing to do anything in reason. Married man. \$41.00 and cottage to live in, nice place. Address, Livingston Greenhouses, Livingston, Mont.

WANTED—A good grower of carnations and roses. German married preferred. Must thoroughly understand his business as grower. To such a man I will pay \$15 per week as a start. Give references from last employer in first letter. Address, Muskogee Carnation Company, Muskogee, Okla.

HELP WANTED

WANTED—Greenhouse hands. In answering, give references, experience had and wages expected. Verlick Bros. Co., Pine Ridge, Buffalo, N. Y.

WANTED—On large, up-to-date place, two young men with some experience in rose houses. Address, with references, E. E., care The Florists' Exchange.

WANTED—Young man to assist in rose houses; one with some experience preferred. Good wages with prospect of advancement. Address, with references, R. O., care The Florists' Exchange.

WANTED—Experienced rose and carnation growers to take charge of sections. Give references and wages expected in first letter. Lake View Rose Gardens, Jamestown, N. Y.

WANTED—Good man as grower; smilax, asparagus, vegetable plants and cold frame work. Study position to right man; wages according to ability. Eden Nurseries, Port Allegheny, Pa.

WANTED—Married man who understands growing carnations, chrysanthemum and general line of pot plants, as assistant. Single man who understands growing ferns and palms. State salary expected in first letter. Address, South, care The Florists' Exchange.

WANTED—Foreman, experienced, to grow carnations, chrysanthemums, Easter and bedding stock; one who is capable of handling men and must be good at making up funeral work. Address, N. E., care The Florists' Exchange.

WANTED—A married man as assistant gardener on private place. Wife must be able to do laundry work for small family. Send references and state wages expected in first letter. Address, E. L. F., care The Florists' Exchange.

WANTED IN SEED STORE—Experienced man to take charge of flower seed and bulb department. A first class, permanent situation to right party. State experience, salary wanted and whether any experience on the road. Address, Seeds, care The Florists' Exchange.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets, in the middle West. Married man preferred. State age, nationality, wages, etc. Address, G. H., care The Florists' Exchange.

WANTED—Two men to work in greenhouses; must have at least two years' experience. Single men preferred. A good, steady position for the right party. Please state wages and furnish references from former employer. Address, P. O. Box 783, Columbus, O.

WANTED—An experienced rose grower to take charge of the roses on a medium sized place. A permanent position for a capable, willing and temperate man. In writing, state wages expected and give references. Address, H., care The Florists' Exchange.

WANTED—A man with several years' experience to take charge of our mail order plant trade. One who has had experience in handling both mail and express orders, also must be a good propagator. Please furnish references and state wages. Address, P. O. Box 783, Columbus, O.

WANTED—A single man to take charge of a small range of glass; one competent of growing carnations, asparagus, etc.; also Spring flowering plants. Must be sober, industrious and well recommended. Good wages to right party. Apply, W. O. Kent, 22 Oakridge Avenue, Summit, N. J.

WANTED—A good all-around greenhouse man; must be a good rose grower and willing to work at anything in connection with the business. Send references in first letter and state wages expected. This is a good, steady position to the right man. Address, R. E., care The Florists' Exchange.

WANTED—First-class gardener for a commercial house; must be a good grower of chrysanthemums, asparagus, all varieties of ferns, all classes of bedding stock, and a good designer of floral work. Able to take complete charge of 25,000 ft. glass and 10 acres of ground. Address, stating wages expected and references, to E. A. Butler & Son, Niagara Falls, N. Y.

WANTED—First-class sales man for nursery stock; must have experience and understand the business and a hustler. Address, with reference and full particulars. Address, E. A. E., care The Florists' Exchange.

WANTED—A competent florist; one who knows the business of making up bouquets and floral designs for funerals, weddings, banquets, etc., all work pertaining to the florist business (not growers). Will give a capable man an interest in the business, as much stock as would like to have large or small; will give such a man the entire charge and management of the business. In a growing southern city, healthy climate, and a fine, well-established business, with a best class of trade. About a \$15,000 business last year, with a bright prospect of a large increase the coming year. This is an unusually fine opportunity for a man with some capital, who wishes to take an interest in the concern and manage a first-class florist store. Address, J. M. C., care The Florists' Exchange.

MISCELLANEOUS WANTS

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same in writing. Address, F. W., care The Florists' Exchange.

WILL any grower who has spawn of Agaricus subfuscens, or knows where such mushroom spawn can be had, please communicate with W. R. L. Dwyer, R. F. D. 11, Lancaster, O.

WANTED—First-class greenhouse plant. Will buy on easy terms. Must be within twenty miles of New York. Write full particulars to C., care The Florists' Exchange.

WANTED—Partner. A good knowledge of general gardening and first-class references are the only capital required. Address, D. Holahan, Box 61, Oyster Bay, L. I., N. Y.

WANTED—To sell my interest in a good wholesale and retail florist business; 10,000 feet of glass; one acre of land, within 10 miles of Boston. Early market handy. Address, R. H., care The Florists' Exchange.

WANTED—Partner to take interest in a modern greenhouse establishment of about 100 thousand square feet of glass. Must be able to invest from twenty to twenty-five thousand dollars. Correspondents must give some assurance of their reliability and business standing to insure prompt reply. Address, E. C., care The Florists' Exchange.

FOR SALE OR RENT

TO LET RETAIL FLORIST STORE—With three greenhouses attached; great chance for the right man, at 98 Broad street, Newark, N. J. Address, Thomas Elsum, 243 Belleville avenue, Newark, N. J.

FOR SALE—Seven acres of land, four greenhouses, seven-roomed dwelling house; horse, wagon, tools, etc. Situated in a desirable locality in Long Island; one mile from station; 30 miles from New York. Address, R. M., care The Florists' Exchange.

FOR SALE OR RENT.

Greenhouse and store, fully stocked and equipped, 15,000 feet of glass, in town of 25,000 people. Ill health cause of sale. CENTRAL GREENHOUSES, Sandusky, Ohio

FOR SALE—Or lease, seven roomed modern house, greenhouse of 8,000 feet of glass, cypress built, steam-heated. One and a half blocks from city cemetery; in one half block from best street car line in a city of 80,000. Established in present location fifteen years. Can give possession any time after June 3. For information in full, address, Z., care The Florists' Exchange. No trifler need apply.

FOR SALE—Or to lease for a number of years, two greenhouses, 190 x 20, one propagating house, 90 feet, 800 hot bed sashes, two market wagons, one horse. The greenhouses are stocked with carnations and bedding plants. Three family dwelling house, three acres of land; all improvements built last year; barn, tools, etc. The place is situated in the best district of Greater New York, trolley passing the door. A Sauerwald, Juniper avenue, Maspeth, L. I.

RARE OPPORTUNITY—For sale at Clifton, N. J., between Passaic and Paterson, florist property, consisting of three greenhouses. Number one and two, 15 x 10 ft. each; greenhouse Number three, 350 x 18 1/2 ft. Lord & Bornham construction, hot water heating. Dwelling house of seven rooms and bath; 437 x 120 ft. of land; 1-2 block running from street to street; uninterrupted sun exposure. Whole property, including dwelling house, can be purchased for less than Number three greenhouse can be duplicated. Address or apply to J. Walter De Witt, 443 Broad street, Newark, N. J.

STOCK FOR SALE

SALVIA, fine stock, 2 1/2 in., \$3.00; 3 1/2 in., \$5.00. Joseph Wood, Spring Valley, N. Y.

ASTER PLANTS, all the leading varieties, 40c. per 100; \$3.00 per 1,000. Paul Thomson, West Hartford, Conn.

ROSES, Brides, Bridesmaid, Ivory, 2 1/2 in., shifted from 2 in., \$3.00 per 100, \$24.00 per 1000. Wm. B. Sands, Lake Roland, Baltimore, Md.

BOSTON FERNS, 5, 6 1/2 and 8 in. pots, 25c., 35c. and 40c., large enough for 6 and 7 in. Scott's ferns, 6 and 6 1/2 in. pots; large fern, 6 and 7 in. pots, 30c. Carnations, Queen Louise and Lawson, from soil, \$1.00 per 100. Dracena Indivisa, 4 in. pots, \$5.00 per 100. Strong rooted cuttings, English Ivy, 75c. per 100. Heliotrope, 2 1/2 in. pots, \$2.00 per 100. Mamam Cochet roses, 2 1/2 in. pots, \$3.00 per 100. Chrysanthemums, 2 1/2 in. pots, all best varieties, \$2.00 per 100. Hardy Phloxes, nice field clumps, \$3.00 per 100. Ageratium, Blue Perfection, very bushy, 2 1/2 in. pots, \$2.00 per 100. Verbena Manchot, seeded in bud and bloom, 3 in. pots, \$3.00 per 100. Heliotrope, 4 in. pots, \$5.00 per 100. Petunias, mixed, 3 in. pots, \$2.50 per 100. Geraniums, 3 1/2 and 4 in. pots, in bud and bloom, \$5.00 and \$7.00 per 100, with order. Brubander & Cornells, Somerville, N. J.

STOCK FOR SALE

CABBAGE, Early, Late and Premium Flat Dutch Succession and Savoy. Will have delivery of all varieties by July 15. Samuel W. Shanklin, White Marsh, Blato, Co., Md.

COLEUS, in standard varieties, 2 1/2 in. stock, at 2c. FUCSIA, 3 1/2 and 4 in. stock, fine, five best varieties, mixed, at 3c. Cash with order. Le Page Brothers, P. O. Box 526, Stamford, Conn.

SALVIA BONFIRE, 3 in. topped and branched, 4c. Geranium Salleroni, strong, 3 in., 3c. Feverfew, 3 1/2 in., 6c. Asters, pot grown, 2c. All No. 1 stock. Ellis Brothers & Company, Keene, N. H.

GERANIUMS, fine, healthy plants, from 4 in. pots, in bloom, \$7.00 per 100; were \$10.00 to \$15.00. Will do nicely for stock plants. All standard colors. Cash with order. The Geo. E. Geider Estate, Nazareth, Pa.

BABY RAMBLER ROSES, fine, dormant stock, one year, \$12.00 per 100; 2 1/2 in. pot plants, extra well rooted, \$4.00 per 100; \$30.00 per 1,000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

FOR SALE

FOR SALE—Two electric delivery wagons, almost new, cost \$5,000 each. Very cheap. Photograph will be sent on application. FLEISCHMAN FLORAL COMPANY, 25th St. & Broadway, New York City.

FOR SALE—Greenhouse material and hot bed sash, milled from Gulf Cypress, to any detail furnished. Oxford putty, specially made for greenhouse and hot bed sash. V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

CHARCOAL SCREENINGS.

KEEPS SOIL SWEET. Ask the editor, or send \$1.00 for 100 lb. bag. E. V. Sidell, Poughkeepsie, N. Y.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousand feet were erected, and at present am shipping a large range to California; also the Standard Steam Trap and the ventilating Machine. My business is thoroughly established; none better; and is doing a large business all throughout the season. Address, E. Hippard, Youngstown, O.

FOR SALE GREENHOUSE PIPE

4-inch boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. KROESCHELL BROS. CO., 33 Erie St. Chicago

FOR SALE

PIPE Good serviceable second hand. No Junk, with new threads, 1 in. 3 1/4; 1 1/2 in. 4 1/4; 1 3/4 in. 6 1/4; 2 in. 7 1/4; 2 1/2 in. 10c.; 3 in. 14c.; 4 in. 19c.; ft. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES new Economy, easy working, No. 1 cuts 1/4-1 in. \$2.00; No. 2 cuts 1/4-1 1/2-2 ins. \$4.00; Armstrong Adjustable No. 2 cuts 1/4-1 in. \$4.00; No. 3 cuts 1/4-1 1/2-2 ins. \$6.50.

PIPE CUTTERS Saunders, No. 1 cuts to 1 in. \$1.30; No. 3 cuts to 3 in. \$3.00; No. 4 cuts to 4 in. \$4.60.

STILLSON WRENCHES Guaranteed. 12 in., 18 in., grips 2 in. \$1.60; grips 1 1/2 in. \$1.10; in. \$2.25; 36 in., grips 3 1/2 in. \$4.50.

PIPE VISES Reed's Best Hinged Vice, No. 1 grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in., guaranteed; 8 1/2c. for heavy work, guaranteed; 12 1/2c.

HOT-BED SASH 8 1/2 in. Gulf Cypress, 3 ft. x 4 ft. 80c.; glazed complete \$1.60 up. Second hand sash glazed, \$1.25, good condition.

GLASS New American, 50 ft. to the box. 10 x 12 single at \$1.90. 10 x 12, 12 x 12, B double, \$2.40 per box. 12 x 14, 12 x 20 and 14 x 14 B double, \$2.65 per box. 12 x 12 B double, \$2.90 per box. 16 x 16 and 16 x 18, B double, \$2.76 per box. 16 x 20 to 16 x 24 double, \$2.96 per box. 6 x 8, 7 x 8, 8 x 10, single, \$1.60. 8 x 10, 10, single, \$1.60. 10 x 14 second hand ground glass at \$1.50 per box.

MATERIAL AT WOODSIDE, L. I. Six 100 ft. greenhouses, barns, etc., 12x24 glass; three No. 16 Hitchings boilers; 4 in. cast iron pipe; open business wagon, etc.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices. New Locust Posts 2 1/2 x 3 in., 7 ft. long, 20c. each. 4 in., 8 ft. long, 50c. each. 4 in., 8 ft. long, 80c. each.

METROPOLITAN MATERIAL CO.

Greenhouse Wreckers 1888-1408 Metropolitan Avenue, BROOKLYN, N. Y.

New York.

News of the Week.

The weather continues extremely cool for the season of the year, and planting operations of all kinds are yet in progress. The planting season this year would seem to be a record breaker, and there is no doubt that the trade in general, whether nurserymen, cut flower or bedding plant growers, the season has been a highly profitable one.

The new fern, *Nephrolepis Amerpohlii*, was shown in New York for the first time by Wm. P. Craig, Philadelphia (who, we understand, controls the stock of this fern), at the club meeting on Monday night, and everybody was much impressed with its beauty. Its delicate fronds give it a fine feathery effect which should make it a very valuable adjunct to our list of decorative ferns used for table purposes.

The Julius Roehrs Company showed a few sprays of a new single Rambler rose, which is evidently a most floriferous variety, judging from the number of clusters of buds on the few sprays exhibited. The color is a very pleasing rose pink, and the variety should prove a valuable addition to the list of roses grown for pot work. Mr. Roehrs informs us that the rose will be named Julius Roehrs.

Fred Siebentopf, driver for F. Weise, florist at Richmond Hill, Brooklyn, was found unconscious beside his wagon on Saturday last, June 8. Successful efforts were made to revive him, and it was learned that his wagon had been struck by some passing vehicle which threw him to the ground and rendered him unconscious. He had no recollection of what kind of a vehicle struck him, but the probabilities are that it was some automobile, the occupants of which did not think enough about the occurrence to stop and see what damage they had done.

The Saturday Evening Mail of June 8 showed illustrations of a few of the vine-clad dwellings and club houses in the heart of the city. Among those pictured were the residence of J. Pierpont Morgan and the building occupied by the Princeton Club, both of which are covered with ampelopsis; also the Calumet Club's building, which is covered with ampelopsis and wisteria, and the residence of Henry W. Poor, which is profusely ornamented with window and veranda boxes and bay trees, the latter being placed upon the piazzas, which opens from the second floor of the building.

The plant auction season, owing to the cool Spring, gives evidence of being prolonged farther into the Summer than is usual. Sales at present are being largely attended, and the business done is well up to the aggregate of other years.

John Weston, who for some time has been located at Patchogue, L. I., has moved to Valley Stream, N. Y., and will build two greenhouses, each 28x200 feet, of the King Construction truss style. The heating and ventilating of the new houses will be installed by Hitchings & Company.

John Birnie was recently serenaded by a band of pipers, much to his delight. If there is one instrument more pleasing to Mr. Birnie than another, although he is a great lover of any and all kinds of music, it surely is the bagpipes, the national instrument of his homeland. He recently paid a visit to Philadelphia, but whether or not the serenading was due to his safe arrival home from that speedy city we are not informed.

The venerable Samuel Henshaw, who has been ill for some time, is, we are glad to say, sufficiently improved to leave the hospital and be taken to his home.

George Darsley, the well-known florist of Jersey City, N. J., has sold his property and will retire from business.

Peter Daly, florist of New Durham, has also sold his greenhouse property there, and will devote all his time to a civil service appointment he holds from this city.

A. M. Henshaw, wholesale florist at 52 West Twenty-eighth street, will, on the 1st of July, move to more commodious quarters at 44 West Twenty-eighth street, the store directly over that occupied by Traendly & Schenck. The need of more room for his ever increasing business is the reason of Mr. Henshaw's removal.

Steffens & Company is the name of a new firm making wire designs for the trade, at 466 Sixth avenue. Mr. Steffens has for sixteen years been engaged in the wire work department of the firm of Reed & Keller of this city.

S. A. Woodrow, lately with William Starke in Twenty-ninth street, has opened a wholesale plant store at 53 West Thirtieth street. B. Ezechel is also conducting a wholesale cut flower business at the same address.

The Kervan Company, dealers in florists' greens, are using a runabout automobile for delivery purposes.

The many friends of President Stewart of the S. A. F. O. II. in this city are sorry to learn of the serious illness of Mrs. Stewart, who is suffering from an attack of pneumonia, her condition at last reports being considered serious.

Wednesday of this week was the field day of the New York Florists' Club, and a number of the members spent the afternoon in Bronx Park visiting the greenhouses and other interesting parts of the park and attending the annual meeting and exhibition of the Horticultural Society of New York.

A rumor comes from Canada of the death of John Nicol, formerly a florist in Jersey City, N. J., but we have been unable to get confirmation of the report.

A. H. Laugjahr closed his store at one o'clock as a mark of respect to his uncle, Julius F. Kretschmar, who died on Saturday last, and whose funeral services were held on Tuesday afternoon.

The officers of the Chrysanthemum Society of America held a meeting on Wednesday in the American Institute rooms to further the plans for the forthcoming exhibition, which is to take place in this city during Autumn.

Among the visitors in town this week were W. P. Craig, Philadelphia, Pa., and J. C. Vaughan, Chicago, Ill.

Mr. and Mrs. J. M. Connelley, Charleston, S. C., were in the city this week on their way to Saratoga Springs.

On Wednesday, the members of the New York Florists' Club were to hold a field day in Bronx Park, and it had been arranged to meet at Secretary John Young's office, and from there journey to the park in a body, but alas, seven members only put in appearance.

On arrival at the park, the party was met by G. V. Nash, superintendent, and escorted through the range of greenhouses. After a close inspection of the many collections of plants contained in this immense glass structure, Mr. Nash piloted the party to the Museum Building where the seventh annual Summer exhibition of the Horticultural Society of New York was holding, under the management of Adam Miller, for the Botanical Garden. On the exhibition tables were collections of single petunias, by Gertrude Barth; pyrethrum seedlings, collections of iris and flowering shrubs, cut flowers, from George Hale, Red Bank, N. J.; herbaceous peonies and flowering shrubs from F. R. Pierson Company, Tarrytown, N. Y.; orchids from Lager & Hurrell, Summit, N. J.; flowering shrubs from Wm. McCollom, Islip, L. I., and a collection of almost 300 varieties of shrubs from Julius Heurlin, Blue Hills Nurseries, South Braintree, Mass. Flowering shrubs were also shown by Howard Nichols, Yonkers, N. Y. The Garden management staged a number of native ferns; seedling irises were shown by Frank Presby.

The election of officers of the Horticultural Society was held at the May meeting with the result that all of the old board was retained in office. Two changes were made in the council board. R. Taylor and Dr. McDougall retired and F. R. Pierson and F. L. Atkins were elected to the vacancies.

Walter Mott has, with his family, moved to Sharon, Pa., to join forces with M. I. O'Brien. Mr. Mott proceeds direct to Sharon, but Mrs. Mott and the children will spend a few days at Buffalo and Jamestown en route. They left Brooklyn on Wednesday, June 12.

Julius Heurlin of the Blue Hills Nurseries after setting up his exhibit in Bronx Park Museum building, left for Detroit, Mich., to attend the convention of the American Association of Nurserymen.

SAN FRANCISCO, CAL.—On June 9 fire destroyed the wholesale houses of the Customs Seed Company.

St. Louis, Mo.

News Notes.

The trustees of the Florists' Club held a meeting at Beyer's place last Saturday night, to make final arrangements for the club's smoker to be held on the 29th, and announced that they had set the date for the Florists' Club's annual picnic for July 25, at Romona Park, the place where it was held last year, and that, as usual, there will be music, dancing and games of all kinds. The feature of the afternoon will be the baseball game between the wholesalers and retailers; this was the great drawing card last year. The trustees will have full charge, and Messrs. Smith, Beyer and Frank Weber are the right men and have the right place to make it pleasant for the members and their friends.

Charles Wors is not selling downtown now, as he has the West End Heights cut flower privilege for the Summer. He reports that he is doing quite well considering the light attendance, the nights being too cool.

It has been reported that the wholesalers are contemplating closing shop during the months of July and August at 5 p. m., and half day on Saturday.

Robert Beyer surprised some in the trade by coming downtown the past week and insisting that he could bowl as well as he used to. I promised him that I would not publish the scores, so I'll keep my word.

Chris and his trick dog Jack, who hold fort at Smith's, are preparing for a great stunt at the club's celebration on the 29th. He will be assisted by Charlie and Oscar. The wholesale quartette is also in practice.

N. Bova & Sons, who bought out James North at 616 North Vandeventer place, have named the firm the Red Bud Floral Company.

Arthur Ellison was helping out the Ellison Floral Company the past week. The company had a number of large wedding decorations, so Arthur's vacation came in handy.

Robert Tesson, well-known in the trade, as representing his mother, Mrs. Laura Tesson, has sold 20 acres of their land where the big greenhouse stood. The price paid was \$250,000. They will retain the other ten acres for a homestead. The Louisiana Purchase Exposition Company used the entire tract during the World's Fair, utilizing the greenhouses for growing plants, the rental being for the life of the exposition, \$50,000, after which the greenhouses were sold, and since that time Mr. Tesson has been out of the florist business. He still takes a great interest in it, and no doubt will some day be back in the business as a grower, for as such, none had better success than he.

E. W. Guy of Belleville called last week. He, with his mother and uncle, will settle up his father's estate at St. James next week.

Quite a number of our local seedsmen are making preparations to attend the American Seed Trade Association convention at New York, June 25-27.

Secretary Beneke reports that eight of the fourteen who attended the first meeting of the Florists' Club in 1857 will attend the celebration on June 29. They are Luther Armstrong, S. Kehrman, James S. Wilson, Wm. Ellison, Chas. A. Juengel, E. W. Guy, Alex. Waldhart and Richard Frow. No doubt it will be a great treat to the younger members to hear remarks from these gentlemen. St. PATRICK.

Newport, R. I.

News and Trade Notes.

The planting of trees and shrubs is pretty nearly finished and it seems to be generally conceded that the season has been a good one, both as far as orders were concerned and the time available for filling them. Bedding out is still in full swing. Jobbing gardeners and gardeners of private estates are alike busily engaged in the work to the exclusion of nearly everything else.

The almost utter destruction of English ivy on several of the important extensive places here and the absolute necessity of it being replaced about cleaned out the Newport growers of these plants. Ivy is used in Newport for every conceivable purpose—in narrow borders in the grass along driveways, planted thickly along the edges of shrubberies, being pegged down closely to the soil, and in many other ways.

The seed houses are sending their representatives here to look for Fall bulb orders. Last week W. E. Marshall

Cultural Directions

Are leaflets written by practical men especially for the use of amateur customers.

If you have a counter trade, either in plants, seeds, flowers or bulbs, you should have a supply of these leaflets on hand to present to your customers when they seek cultural information about their purchases.

(The leaflets embrace over forty subjects.) We can supply them at \$2.50 per 1000, or 500 for \$1.50, and can make a reduction of those prices on large quantities.

At a small extra cost we can put your imprint on each leaflet.

Try a thousand and see what a help they are in selling goods.

The following "Culturals" are particularly seasonable for your customers at the present time:

Chrysanthemums, Dahlias, Hyacinths, Lilies, Lily Culture, Tulips, Freesia, Vegetables.

THE FLORISTS' EXCHANGE

P. O. Box, 1697 NEW YORK

CHRYSANTHEMUMS

From 2 1/2-in. pots for sale.

October Frost, Beatrice May, Roselet, Goldmine, \$3.00 per 100.

Pacific, Omega, Mertham's Yellow, White Coombe, Appleton, Alice Byron, Balfour, Ivory, Pink Ivory, Brutus, Chadwick, Yellow Chadwick, Maud Dean, Helen Frick, Jeannie Nonin, General Macco, \$2.00 per 100.

Cash with order.

GEO. DARSLEY, 176 Claremont Avenue, JERSEY CITY, N. J.

BEGONIA VERNON

By the thousand, in flower and bud, best of reds. SALVIA, OUSTY MILLER, at \$2.00 per 100; \$18.00 per 1000. Call or address

W. B. WOODRUFF, Florist, Westfield, N. J.

The LOW BOILER

4 ft. high. Can furnish lower if necessary. This boiler is designed and specially adapted for greenhouse service. The form of construction makes it very efficient and economical. Write for prices and booklet. Free Hose Trial, Pipe Fittings, Valve, Etc.

WM. H. KAY CO., 244 Fulton St., NEW YORK

and W. Rickards made the round of the Island.

F. M. Smythe was also here over Sunday; the Wadley & Smythe store on Bellevue avenue is open.

Joseph Leikens has had his store open for some time.

The lilac is now in full bloom and all the retail flower stores are full of it. Cut flowers in roses and carnations dropped in price considerably in a little more than a week with the quality much inferior to that seen around Decoration Day.

The Knights Templar Commanderies of Pawtucket and Westerly were entertained here last week by Washington Commandery of this city; many of the florists are members of this organization.

Alexander MacLellan contends that dahlias as a rule succeed best when planted not before the middle of June. Mr. MacLellan has had long experience, and he should know about as well as anyone.

There is a brisk demand here now for dwarf growing cannas as well as for the choice varieties of more robust growth.

NEWARK, N. Y.—Jackson & Perkins Company are establishing a specimen garden of roses which they intend shall eventually include all varieties that are sufficiently hardy for outdoor planting in Western New York. More than seven hundred and fifty different kinds were set out the past Spring, and many others will be added next season. In laying out the planting, each class of roses was placed by itself, and under each class the kinds of similar colors are grouped so as to facilitate the study and comparison of them. The garden will also be used as a place for carrying on hybridizations with a view to obtaining valuable new sorts, and special attention is to be paid to this line of work in the future.

The Largest Growers of Chrysanthemums in America

Rooted Cuttings out of sand.

Table listing various chrysanthemum varieties and their prices per 100. Includes categories like White, Yellow, and Pink.

Roses from 2 1/2 inch pots

Table listing various rose varieties and their prices per 100 and per 1000. Includes varieties like Brides, Bridesmaids, and Richmond.

WIETOR BROS., Wholesale Growers of Cut Flowers, 51 Wabash Ave. CHICAGO

Chrysanthemums

Out of 2 1/2 in. pots, \$4.00 per 100; Pink and White Ivory, Pacific, Adela, Jerome Jones, Yellow Jones, J. K. Shaw, Leach, Maceo, Polly Rose, Byron, Bergman. \$6.00 per 100; Jeannie Nonin, Yellow Duckham, White Chadwick, McArthur. Rose out of 3 in. pots: Killarney, on own roots, fine stock, \$6.00 per 100; \$65.00 per 1000. POINSETTIAS, out of 2 1/2 in. pots, \$5.00 per 100.

Herman C. Steinhoff WEST HOBOKEN, N. J.

CHRYSANTHEMUMS

October Frost, 2 1/2 in., \$3.00 per 100; \$25.00 per 1000. White Shaw, 2 1/2 in., \$3.00 per 100; \$25.00 per 1000. Testout, Ivory and Yellow Bonnaffon, 2 1/2 in., \$2.00 per 100; \$20.00 per 1000. White Duckham, \$2.00 per doz.; \$12.00 per 100. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

CHRYSANTHEMUMS

Jerome Jones, Enguehard, Shaw, Touset, Nonin, Willowbrook, Pacific, Appleton, Intensity, Byron, R. C., \$2.00 per 100. Strong 2 1/2 in. Jerome Jones, \$2.00 per 100. Clifford Bruton DAHLIA ROOTS, \$6.00 per 100.

THE FLORISTS' EXCHANGE, Franklin & St. Paul Sts., BALTIMORE, Md.

Looking for a good, late, Yellow MUM? Invest in

GOLDEN DOME

There is nothing to equal it. Stock ready now. \$35 per 100; \$5 per dozen. S. S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa.

Chrysanthemums

Balfour, Fick Coombs, Nellie Pocket, Dr. Enguehard, Maad Dean, Appleton, Wm. Duckham, C. Touset, Robinson, Yellow Sport of Queen, 2 in. pot plants. \$2.00 per 100. Wenonah Carnation Gardens, - Wenonah, N. J.

CHRYSANTHEMUMS CARNATIONS and ROSES

Novelties and all the standard varieties. MOSCHOSMA RIPARIUM, a valuable new Christmas flowering plant. Write for descriptive circular and price list. CHARLES H. TOTTY, Madison, N. J.

CHRYSANTHEMUMS, Jeannie Nonin, 2 in. pots, 5c. each; from flats, 2 1/2 c. each. Yellow Bonnaffon, from flats, \$2.00 per 100. G. H. MONROE, Prop., Richmond Nurseries, Richmond, S. I.

CHRYSANTHEMUMS

ROOTED CUTTINGS 3,000 Ivory, white, 2,500 Alice Bryoo, 500 each, M. Mann, Robt. Halliday, M. Bonnaffon, Mrs. Whildin, \$2.00 per 100; \$15.00 per 1000. Cash with order or C. O. D. WM. SWAYNE, Box 226, Kennett Square, Pa.

GERANIUMS

RICARD, POITEVINE, VIAUD, DOYLE, 3 in., bushy plants, \$4.00 per 100. Rooted cuttings, \$10.00 per 1000. Cash with order. PETER BROWN, Lancaster, Pa.

GERANIUMS Fine 4 in. stock, \$6.00 per 100; \$50.00 per 1000. CALIFORNIA VIOLETS, well rooted, cold frame grown, \$1.00 per 100; \$8.00 per 1,000.

CHRYSANTHEMUMS, J. Nonin, fine plants, cold frame grown, \$3.00 per 100; \$25.00 per 1,000. Cash with order. Idlewild Greenhouses, 89 So. Main St., Memphis, Tenn.

GERANIUMS 2 1/2 in. at \$2.00 per 100; \$13.00 per 1000, as follows: Ricard, Nutt, Atkinson, Viaud, Castellane, Ferns, Boston, Trego, Telegraph, 2 1/2 in. Boston, Scottii, Pierston, Barrowsii, \$3.00 per 100; \$25.00 per 1000. 3 in. Boston, Scottii, Pierston, \$5.00 per 100; 4 in., \$10.00 per 100. 6 in. pans Pierston, Boston, \$3.00 per doz. 8 in. pans Boston, \$5.00 per doz.

NATIONAL PLANT CO., Deyton, O.

GERANIUMS

S. A. Nutt, Telegraph and Mme. Buchner (white), 4 in., fine stock, in bud and bloom, \$8.00 per 100. VINCA, variegated, 5 in., stock plants of same, \$12.00 per 100. Nice for tub work in bud and bloom. Cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.

GOVERNOR HERRICK VIOLET

The new single violet. Fine, strong, healthy plants, \$5.00 per 100; \$50.00 per 1000. Write me about it to-day. LOUIS D. Mc COY, Spring Valley, N. Y.

CANNAS

Strong plants from pots, 20 leading varieties, \$5.00 per 100. ESTATE OF DAVID FISHER, Woburn, Mass.

VARIEGATED FUNKIAS

out of 3 in pots, \$5.00 per 100 K. E. JUUL, Elizabeth, N. J.

ASPARAGUS

Ready to Ship. Per 100 ROBUSTUS, 3 in. \$5.00 PLUMOSUS, 2 1/2 in. 3.50

Send for Complete Lists ALBERT M. HERR, LANCASTER, PA.

GERANIUMS

Ready for bedding out

S. A. Nutt, Marquis de Castellane, La Favorite, A. Ricard, John Doyle, Beauty de Poitevine, Jean Vind, Mme. Jaulin, Alice de Vincennes, Mrs. E. G. Hill, 3 1/2 in. pots, \$5.00 per 100. HELIOTROPE, two varieties, 3 1/2 in. pots, \$5.00 per 100. CANNAS, pink bloom, Martha Washington and Canna Duke, 4 in. pots, \$5 per 100. VERBENAS, fine plants, in bud and bloom, 3 in. pots, \$2.50 per 100. BEGONIA Metallica, 3 in. pots, \$4 per 100. PHELOX Drummondii, 3 in. pots, \$2.50 per 100. IVY, German, Garden Glory and Incomparable, 3 1/2 in. pots, \$5.00 per 100. Single PETUNIAS, 3 in. pots, \$2.50 per 100. HELIOTROPE, two varieties: AGERATUM, PARLOE IVY, VINCA Variegata, SALVIA Splendens, 2 1/2 in. pots, \$2.00 per 100. Cash with order.

WM. J. CHINNICK, TRENTON, N. J.

COLEUS

Golden Bedder, Crimson Verschaffeltii and 16 fancy bedding varieties, 2 in. pots, \$1.60 per 100; \$16.00 per 1000.

GERANIUMS

Nutt, Buchner, Poitevine, Doyle, 3 in. pots, \$3.00 and \$4.00 per 100. FANCY PLANTS, small, 60c. per 100; \$6.00 per 1000; bud and bloom, \$1.00 per 100; \$8.00 per 1000.

Table listing various plant varieties and their prices per 100 and per 1000. Includes Heliotropes, Salvia Bonfire, Ageratum, Gurney & Pauline, Labella Compacta, Blue, Marguerite Carnations, Asters, Red, White and Blue, Phlox, mixed, Verbeas, Red, White and Blue, Canna, 3 in. pots, \$4.00 per 100, Double Petunias, 3 1/2 in. pots, \$4.00 per 100.

CASH WITH ORDER. ERNEST HARRIS, DELANSON, N. Y.

Geraniums

Finest Stock, best variety, most in bloom and bud. 4-in., \$4.00 per 100; \$36.00 per 1000; out of 2 1/2-in., \$2.00 per 100. Ivy Geraniums, 4-in., \$5.00 per 100. Heliotrope, Enchelas, Double Petunias, and Salvia, in bud and bloom, \$4.00 per 100. Verbeas, Phlox, Dusty Millers, Cigar plants, Coleas, and Thunbergia, \$2.00 per 100, out 2 1/2-in. pots, fine plants in bud and bloom.

J. C. SCHMIDT, Bristol, Pa.

GERANIUMS

Rooted Cuttings, from sand. Ready now a fine lot of John Doyle, Ricard and L. Francis at \$10.00 per 1000.

Send for Complete Lists ALBERT M. HERR, LANCASTER, PA.

100,000 Geraniums

Finest stock in the country; most in bud and bloom. Poitevine, Nutt, Buchner, Ricard, Castellane, etc., heavy 3 in., \$3.00; 3 1/2 in., \$4.00; extra large, \$6.00 per 100. 8 varieties for stock true to name, strong 3 in. and 4 in., \$26.00-\$36.00 per 1000. Coleas, yellow, red and fancy, strong, 2 in., \$1.75 per 100; \$16.00 per 1000. 25,000 Salvia Bonfire and Splendens, large, 3 in., \$2.50 per 100. Surplus Pots, Standard, 2 in., 3 in., 4 in., and 6 in., at \$2.00, \$3.00, \$6.00 and \$10.00 per 1000, packed. Alternantheras, red and yellow, \$2.00 per 100. Cash please. All stock guaranteed No. 1 WM. S. HERZOG, MORRIS PLAINS, N. J.

GERANIUMS

Well Grown Stocky Plants, 4 in., \$8.00 per 100, NUTT, DOUBLE GEN'L GRANT, JOHN DOYLE. We ship in light crates, well packed.

S. J. REUTER Wesleyly, R. I.

GERANIUMS GERANIUMS

The following varieties in 4-in. pots, in bud and bloom, in fine condition: S. A. Nutt, Beante Poitevine, La Favorite, John Doyle, Brunati, Mar. Castellane, Trego, Mme. Buchner, Richard Brett, Ricard, Francie Perkins, Jean Viaud, Double Grant, Mar. De Montmort, and several others, \$6.00 per 100. The selection of sorts to remain with us. Cash must accompany all orders.

J. E. FELTHOUSEN, 154 Van Vranken Ave. SCHENECTADY, N. Y.

GERANIUMS

3 in., \$2.50 per 100; 4 in., \$5.00 per 100. BOSTON FERNS, fine, 3 in., \$6.00 per 100. CHRYSANTHEMUMS, 2 1/2 in., \$2.00 per 100. SALVIA and HELIOTROPE, 2 1/2 in., \$2.00 per 100. CANNAS, \$1.60 per 100. Cash with order please.

W. H. PARSIL, R. F. D. Chatham, N. J.

GERANIUMS

S. A. NUTT, in bloom, \$6.00 per 100. Cash. HENRY EICHHOLZ, Waynesboro, Pa

ROSES = CHRYSANTHEMUMS = BOUVARDIA = COLEUS

GRAFTED ROSES

We offer this year the following assortment: **Bride**, **Bridesmaid**, **Bon Silence**, **Ivory**, **Gen. McArthur**, **Kate Stoullon**, **Killarney**, **Mme. Caroline Testout**, **Mme. Heste**, **Marchal Niel**, **Souvenir De Wootton**, **Tom Field**, **Uncle John**.

The above grafted from 2 1/2 inch pots, \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1/2 inch pots, rooted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

The **Baby Rambler**, \$2.50 per doz.; \$16.00 per 100.

American Beauty. On own roots, from 2 1/2 inch pots, \$5.00 per 100; \$76.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000. June delivery.

Mme. Abel Chateaux, and **Richmond**, own roots 2 1/2 inch pots, \$6.00 per 100; \$50.00 per 1,000.

CHRYSANTHEMUMS

WHITE

Early—**Polly Rose**, **Willowbrook**, **White Shaw**.

Mid-Season—**Miss Minnie Wanamaker**, **Ivory**, **Mrs. H. Robinson**, **Niveus**, **Queen**, **Alice Byron**, **Eureka**.

Late—**Mrs. McArthur**, **Chadwick**, **Adelia**.

PINK

Early—**Glory of the Pacific**.

Mid-Season—**J. K. Shaw**, **Adela**, **Mrs. Perrin**, **A. J. Balfour**, **William H. Duckham**, **Dr. Enguehard**.

Late—**daud Dean**, **The Harriott**.

YELLOW

Early—**Monrovia**.

Mid-Season—**G. Pitcher**, **Col. D. Ap-pleton**, **Mrs. William Duckham**.

Late—**Major Bonnaffon**, **H. W. Rel-man**.

RED

Merstham's Red, **Cullingfordii**, **Matchless**. Rooted Cuttings, \$2.00 per 100; \$15.00 per 1,000.

NEWER VARIETIES

From 2 1/2 in. pots, \$6.00 per 100. Rooted Cuttings, \$4.00 per 100.

Beatrice May, mid-season white

Mrs. James Marshall, mid-season pink.

Mayor Weaver, mid-season pink.

Mrs. Swinburne, late white.

Jennie Nolin, late white.

Early Snow, early white.

Rosier, early pink.

Old Gold, late yellow.

October Frost, early white.

Mrs. Clay Frick, (white Duckham), 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100.

BOUVARDIA

Tunboldtii **Corymbifera**, from 2 1/2 inch pots, \$8.00 per 100; \$45.00 per 1,000. This is the large White Jeesamine flowered. The best variety in cultivation.

COLEUS

VERSCHAFFELTII, **Golden Queen**, **Golden Bedder**, **Fire Braad**, **Queen Victoria**, **Jaocy Colena** in variety, 2 inch pots, \$2.00 per 100; \$15.00 per 1,000.

VERSCHAFFELTII, **Golden Queen**, **Golden Bedder**, 3 inch pots, \$3.00 per 100.

The above in rooted cuttings 60c. per 100; \$5.00 per 1,000.

STEVIA

2 1/2 in. pots, \$2.50 per 100; \$20 per 1000.

SALVIA, **AGERATUM**, **HELIOTROPE**, 2 inch pots, \$2.00 per 100; \$15.00 per 1,000.

A. N. PIERSON, CROMWELL, CONN.

CANADIAN NEWS

MONTREAL. — Weather conditions have at last taken a turn for the better, and during the last three days the bedding plant business has been booming. Everybody wants their plants at once, and I am afraid there is considerable Sunday work going on filling window boxes, etc.

The Spring importations of palms, arriving as they did before there was any room for them, have taxed the ingenuity of the greenhouse men, especially this season, as shipments are much larger than heretofore. And this in the face of the 25 per cent. duty imposed at the request of a few florists who thought of stopping the dumping of palms by foreign growers into the auction rooms in Montreal, which, by the way, has not had the effect intended; for **Kentia Forsteriana**, five to nine feet high, were sold the other day for \$3 each—about half of what they cost to import. It seems a pity that we should pay this duty on plants that are not grown in Canada, and will not be for a long time to come.

Stocks of bedding plants are not any too large, even for a late season, and, judging from the present demand, it looks as if all will be sold. **Dominion Park**, our Summer amusement resort, will set out twelve thousand plants this season; **William Ewing & Company**, seedsmen, have the order.

Harris & Hopton have a very large stock of scarlet geraniums in prime condition, and **Mr. Hopton** reports a good demand for them.

P. McKenna & Son will shortly open a new store in what will be **Bennet's Theatre** building when completed. This stand is in the heart of the crowded St. Catherine street, West, and a good business is assured from the start.

Harris & Hopton will also open a new store shortly.

Wilshire Brothers have purchased their greenhouse property at **Outremont**, and will add to their greenhouse area at once.

Mr. Pinoteau, the city gardener, and his staff are busy planting the squares this week.

The store men report a scarcity of carnations. There is a good demand for cut flowers, and plenty of funeral work. Lots of wedding decorations are booked for June, none of them that I know of being of very great importance. **W. C. H.**

Ogdensburg, N. Y.

The **Lawrance** greenhouses are the only ones in the city. **Mr. Lawrance** had built last season two houses, 22x100 feet each, by the **King Construction Company**, one house for roses, and one for carnations. A new steam boiler has been recently added and a new smoke stack. **Mr. Lawrance** issues a plant catalogue to his retail trade, and offers a varied assortment of plants and shrubs suitable to the rigorous climate of his section. The cut flower and plant trade in and around the **Thousand Islands** is brisk during the Summer months. **Mr. Lawrance** handles a large portion of this trade. **J. M.**

Washington, D. C.

Memorial Day Exercises.

One of the chief features of public interest to Washington and vicinity on Memorial Day, was the liberation of a small boat laden with flowers donated by florists and others, which was intended as an offering to those who had perished in the waters of the Potomac, and whose bodies had never been recovered. This idea was inaugurated several years ago by a **Mr. S. R. Whitney**. The boat was permitted to drift until sunk by natural laws, and its contents distributed by wind and wave wherever chance might take them.

At **Norfolk, Va.**, a boat 13 feet long, commemorative of the 13 original states, and named in honor of **Miss Clara Barton**, whose kind acts to suffering humanity have given her an immortal name, was set adrift upon the waves loaded with flowers. It was hoped that some of the blossoms might find their way to the resting place of some hero.

J. H. Small & Sons recently prepared three large set pieces to be sent to Mississippi for the unveiling of the **Jefferson Davis** statue there. They were in charge of a special person appointed to look out for their safe delivery. One piece representing the seal of Mississippi, was made of asparagus and immortelles; a bronzed cypress leaf garland, the interior of which was filled with a Confederate flag worked in red and white immortelles, composed the second piece; while the third, an emblem of the **United Daughters of the Confederacy**, was about 50 inches square, and handsomely constructed of blue, red and yellow immortelles.

Commencements, weddings and funeral work are keeping the trade busy. The supply since last week has increased, owing to more favorable weather conditions. The excessive rains have interfered with planting. The daily increasing June demand for cut flowers is in excess of the supply. Business for the week has been very satisfactory.

June 9 was Confederate Memorial Day at **Arlington Cemetery**, several thousand people attending the ceremonies. The decorations consisted of small bunches of sweet williams, daisies, double **deutzia**, hardy roses, carnations, etc. **George H. Cooke** supplied 267 bunches, and donated some loose flowers. A large box of pansies and double **deutzia** was sent from the **White House**. A large cypress palm garland, the center of which was composed of the **Southern Cross** made of immortelles, and the lower portion filled with peonies and roses, and tied with red white and blue ribbon, produced the best display. This cross was surrounded by a living cross of about 80 young ladies dressed in white, with broad red sash across the shoulder, and each holding a red peony. The floral piece was made by **J. H. Small & Sons**, and was particularly effective. **Z. D. Blackstone** supplied a goodly quantity of the loose flowers, and also made a donation.

J. H. Small made the opening address at the laying of the foundation stone of the new **Masonic Temple** by **President Roosevelt** last week. **JAS. L. CARRERY.**

Oh when you want the business done,
By play that's strong and steady,
just take a look at old Slug Shot,
For that's the stuff that's ready.



KILLS POTATO BUGS, CURRANT AND CABBAGE WORMS.

Slugs on Roses,
Aphis on Roses,
Bugs on Asters
Sow Bugs,
Curculio on Plums

Caterpillars,
Bugs on Melons,
Cut Worms,
Lice on Fowls,
Tobacco Worms,

&c.

SLUG SHOT &c. IS SOLD BY SEED DEALERS

Send for Pamphlets

B. HAMMOND, - Fishkill-on-Hudson, N. Y.

Oswego, N. Y.

Patrick Campbell is the only one of the trio of **Oswego** florists that has a city store. He reports business good and is to make several substantial improvements to his greenhouses this Summer.

The **Stewart** greenhouses are to be greatly improved this season and put in good condition for Fall. All the greenhouse benches are of concrete. New roofs and some new outer walls will be soon added that will give **Mr. Stewart** an establishment he may be proud of.

The **Workman** greenhouses front on **Lake Ontario**, being within 200 feet of the water's edge—a most beautiful site. It was formerly a private place before **Mr. Workman** purchased the greenhouse property. The greenhouses are all under one roof and have cement floors and

CHRYSANTHEMUMS

Polly Rose, **Pacific**, **John K. Shaw** and **Enguehard**, \$3.00 per 100; \$15.00 per 1000.

GOLDEN BEDDER COLEUS, 2-in., \$1.50 per 100; \$15.00 per 1000.

ALTERNANTHERAS, red, \$2.00 per 100; \$18.00 per 1000, all strong 2-in. stock.

HELIOTROPE, 3-in., \$3.00 per 100.

JOHN F. BORN & BRO., ALLENTOWN, PA.

benches. They are of the best construction and need to be in their exposed location. **Mr. Workman** has a model establishment and reports business good. **J. M.**

MILWAUKEE, Wis.—**Herman Staeps**, one of our leading growers, lost his residence by fire last Saturday; the loss was partly covered by insurance. **P.**

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 WEST 28th STREET, - - - NEW YORK
Telephone: 3559 Madison Square
CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

REVIEW OF THE MARKET

NEW YORK.—The cut flower market is showing signs of a break in prices all around. Roses are not what may be termed plentiful by any means, but there seems to be such a quantity of other stock in the market, peonies in particular, that values on roses show a decided weakening. Carnations are abundant, and the falling off in the prices of these is even more marked than in the case of roses. Gardenias are quite plentiful, as also are cattleyas; just at this time the right kind of business is not forthcoming, for which these flowers can be used, and they are not clearing out at all satisfactorily. The same remarks also apply to lily of the valley, which is not bringing the prices that were obtainable a week ago. Lilies are arriving in extremely large numbers, and they can be had at a flat price of \$4 per 100, which is a very low figure when compared with what ruled two weeks ago.

Peonies are coming in very plentifully now, and while here and there efforts were made to secure prices approximating 75c. or \$1 per dozen, energetic buyers were able to get what they wanted at from \$3 to \$4 per 100. Sweet peas continue plentiful and show a general weakening in values. The demand for smilax and other greens is also somewhat slower than it has been.

CHICAGO.—It was with surprise that the firm condition of the market was viewed after Decoration Day right up to the locking of the doors on Saturday night, and though a gradual decline was anticipated last week it caused something of a shock to see prices cut in two, in many cases, on Monday morning and to follow throughout the week an inclination toward lower rather than higher values.

Carnations, which owing to the continued cool weather, appear of a quality never surpassed and seldom equalled at this season of the year, were forced on the market in quantities far in excess of demands; and tea roses, although in some cases showing the effects of ravages by thrips, were supplied in top notch grades of a superior character for June, with American Beauty, which would be classed as fancy special at any time, were all more abundant than the requirements of the trade could consume, resulting in considerable speculation in job lots of the inferior grades or held over stock. And all this in the face of a week's business which at times showed a decidedly lively aspect both in shipping and among the local purchasers.

Peony prices were more than cut in two. In some cases, reds going as low as 40c per dozen, with good white or pink holding pretty well up. 75c to \$1.25; and some, though few compared to past seasons, were placed in cold storage.

Excellent longiflorum lilies are to be had in plenty, and though the stems are not long the flowers are of remarkable size and substance. Out of door candid lilies from Indiana at \$1 per dozen spikes are offered by commission houses, though the blooms appear to show the effects of the cold weather in the absence of foliage the flowers are in good condition.

This week opened with no relief from the congestion of stock in sight; large consignments of flowers coming in from all growers, the quality being excellent. The hardy fern situation has been somewhat relieved by the receipt of large invoices, though the best goods still bring \$4 per thousand, with a prospect of a lower price during the week.

PHILADELPHIA.—All prices are ruling lower this week, there being a large quantity of flowers on hand and the demand not very good. Local business is quiet, but a good shipping trade has relieved the market considerably. American Beauty roses are far in excess of demands; \$3 per dozen is asked for the very best flowers, most of the stock being sold at \$20 per 100.

Peonies are now coming in from local growers; prices range from \$5 to \$10 per 100. The best quality tea roses sell at from \$3 to \$10 per 100. There is a very large quantity of poor stock arriving every day, which goes to the street men at low prices.

Carnations are in good supply and the quality is fully as good as in Midwinter, owing to cool nights; the best

flowers sell at \$3 to \$4 per 100. Sweet peas are in large supply; the very best only selling; 75c to \$1 per 100 are the highest prices realized. Daisies have been in good demand at \$1 to \$1.50 per 100. Gladiolus go at \$1 per dozen for the best; antirrhinum, \$1 per dozen for the long stemmed. Lily of the valley is in good supply at \$2 to \$4; cornflowers bring 50c to \$1; sweet sulcas, \$3; stocks, \$2 to \$5 per 100.

Good Asparagus plumosus fetches 50c per bunch. D. R.

BOSTON.—Business has been good for this season of the year. Stock is not so overabundant as it generally is about this time, when there is warm weather to rush plants into bloom. Roses are plentiful, but they are of good quality. There are good American Beauty and many fine Richmond. No outdoor roses will be here for two weeks yet, which helps the indoor cultivators materially. Carnations remain of excellent quality and there seems to be a good demand for them. Not many lilies are in at present. Sweet peas continue of fine quality. Lily of the valley has had a good call recently, even if much of it has been outdoor grown. Peonies are very late this season, but in another week they will be plentiful; so far only a few early varieties have made their appearance. J. W. D.

ST. LOUIS.—The trade has suffered a great deal this Spring, owing to the unseasonable weather which has prevailed here; the greenhouse men more than the retailer or wholesaler. This is about the last week of the florist season, as all social doings will be laid aside until next Fall—a long time to wait for those who have made no money; but those who have can take things easy.

Stock in cut flowers the past week was again stacked up at the wholesale houses, who report light demand. Prices were low and in order to dispose of the consignments the commission men had to resort to job lot values on carnations and roses. Of course, this has only reference to second grade stock, as extra fine select is scarce, for which a good price is still obtained. Best select roses bring from \$6 to \$8 per 100; firsts, \$4 to \$5, and seconds, \$1 to \$2 per 100; the latter are very plentiful.

Carnations, too, are down in price; selects do not realize over \$2; good firsts, \$2, and common, \$1 to \$1.50 per 100. There were more than the demand called for all of the past week. Lily of the valley is back to \$4 for the fancy, and has sold well all week. A few callas and Harrisii lilies are still coming in. Plenty of outdoor stock is now in the market at cheap prices, such as daisies, cornflowers, Cape jasmines, General Jacqueminot roses; and there are plenty of common dagger ferns; also other greens. ST. PATRICK.

MILWAUKEE.—Decoration Day business was beyond expectations and it was certainly a very profitable holiday for growers of stock under glass as there was no outdoor stock to be had in this vicinity owing to the very late season. High prices were obtained for roses, carnations and other greenhouse grown stock; in fact, prices averaged up as well as at any other holiday in the year. Warm weather, however, following Decoration Day caused quite a slump in the market. Carnations dropped to the \$1 mark. There are also plenty of tulips, lily of the valley, sweet peas and other stock coming in which is usually past before the first of June.

All varieties of bedding stock have been moving very slowly until the past week when everybody was crowded with work, the quality of both roses and carnations now is superior to anything we have had before in this market at this season of the year. P.

CINCINNATI.—Business during the past week has been good. Carnations are quite plentiful and fetch fair prices. Roses as a general thing are getting bad doses of mildew. Sweet peas are in fair supply and have a good call. Peonies are just arriving and are not in great demand; the crop will be very short and the flowers are not very perfect. Jack Frost is the fellow to blame. E. G. G.

INDIANAPOLIS.—A heavy accumulation of flowers now seems unavoidable, as warmer weather has brought

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forth quickly buds which have been at a standstill for a fortnight. The several divisions of the business are moving briskly and a large proportion of the surplus may be disposed of. Regular counter trade is most gratifying. Funeral work has been well apportioned among the retailers, for it kept all of them busy. Several decorations are on hand, but there seems to be an aversion to any large or elaborate affair this season.

The variety of stock is all that is to be wished for, and the quality is uniformly good.

A sharp decline in carnation prices occurred this week. The best grades are selling at \$2 to \$2.50 per 100; a few fancy bring \$3 per 100. Harrisii lilies are in excess of the demand at \$10 per 100. The calla season is practically over; the few offered bring \$12.50 per 100.

Thousands of peonies are being cut, so it will be impossible to dispose of all profitably. The present price is \$4 per 100; the anticipated one, \$1.50 to \$2 per 100. The wise growers are sending their product North in advance of the season. Roses of all kinds are plentiful and usually good. Mme. Abel Chatenay and Richmond are the choicest, with three-foot stems, at \$8 to \$10 per 100. Killarney retails well at \$2 to \$3 per dozen.

Feverfew, Ten-week stocks and hydrangeas may be had at very reasonable prices.

Sweet peas are always in demand at 50c to \$1 per 100.

The green goods market is heavily stocked with Asparagus plumosus and Sprengerii as well as smilax. Heavy shipping orders are being filled.

Tomlinson Hall market is loaded with peonies and bedding stock; business there is reported excellent. I. B.

WASHINGTON, D. C.—In commemoration not only of the dead slain in battle, but likewise of deceased relatives and friends, hosts of Washingtonians sought the various cemeteries on May 30 to strew flowers upon the graves. Despite the fact that cold weather had caused an almost unprecedented short supply of flowers from the outside, a considerable quantity was shipped from the South, and local greenhouses supplied the rest. Mock orange and weigelia, which by reason of the late season were just in their prime, afforded some relief to the situation and met with public favor. Peonies were scarce and in great demand, and with a continuation of prevailing weather conditions, these flowers will not reach the maximum crop for a week or ten days hence; all are below the average in quality thus far. Florists generally had about all they could do May 29 and 30, and owing to scarcity of the season and more bulky grades of flowers, enjoyed better sales with less labor attached to handling. Everything sold at a good price. A very noticeable coincidence of the season was a lack of the usual stagnation which takes place after a holiday; business has kept up considerably above the average. On Saturday, while one of the worst rain storms of the season prevailed, a visit to the stores revealed a brisk demand for all kinds of stock. Many weddings are somewhat accountable for this condition, as the regular Spring trade continues to suffer from the unseasonable weather. But few of the society people have left town yet, this also helps the trade to a marked degree. J. L. C.

KALAMAZOO, MICH.—Memorial Day trade certainly surpassed all records here both as regards prices and profits. No outdoor flower being available, the growers and retailers were taxed to their utmost resources, and it must be conceded to have been a most profitable business as far as concerned. Everything salable in cut flowers and pot plants was disposed of, and while the latter averaged up at about the usual prices, cut flowers soared as high or higher than the Christmas figures—a thing entirely unheard of here. As usual, carnations were in greatest demand and went at \$5.00 to \$1.50 per dozen, the latter figure representing quite a considerable percentage of the stock sold. Very few were sold at 50c, 75c, to \$1 being the usual price. Roses brought

75c to \$1.50 per dozen, jasmines, 50c. per dozen. The bulk of the business was done with the above, and when one remembers that only the week previous both roses and carnations were offered at 35c. to 50c. per dozen, the jump to \$1 and \$1.50 must have given some of our good citizens a severe jolt. However, little complaint seems to have been made, as the public realized the situation, so all are satisfied with the week's trade.

The weather continues much too cold for this season, and outdoor stock makes slow growth.

Mrs. Samuel Batson and family sailed on May 25 for a Summer's visit to her old home in the Highlands of Scotland. S. B.

ROCHESTER.—Business here the past week has been exceptional, especially the few days preceding Memorial Day. The weather still keeps cool, with reports of light frosts, and in this we seem to be in the same condition as other sections of the country, but "it's an ill wind," etc., as the growers of cut flowers can testify. With the approach of Memorial Day, the market price of cut flowers advanced, and those having any quantity to dispose of were soon sold. Roses sold at from \$4 to \$10 per 100; carnations, \$2.50 to \$4; tulips, \$2 to \$2.50; sweet peas, 60c. per 100. Cut sprays from flowering shrubs were very scarce, no snowball blossoms being offered at any of the stores; what few sprays of lilac were sold readily brought 5c. per spray. Considering the many acres devoted to nursery stock in and around Rochester, the prices quoted can be taken as near high water mark as usually at this time the market has been flooded with everything, and it may perhaps be quite a few years before cut early tulips will be offered for sale on Memorial Day. The plant trade also received its annual impetus, and from now on, as soon as tulips and other bulbs stock can be disposed of, the regular planting season will go merrily on. COCKNEY.

COLUMBUS.—For the past month plans have been making by all the craft here for a large business for Memorial Day. But even with all our preparations, a great many would-be customers were disappointed; the trade was simply enormous, nothing like it was ever known here before. The writer visited many greenhouses, beginning early on Wednesday morning, and at every one the answer given to a customer was either "little or nothing left" or "sold out." As we all expected, the practically entire absence of outdoor flowers was a great obstacle; but we had a good supply of greenhouse stock, and it all went. At one greenhouse I counted fifty-three women get out of an electric car and make a rush upon the four of five clerks of the establishment—I hope they got their orders filled. I believe that with all that was sold, twice as much more could have been had we had it on Wednesday. Roses brought from \$1.50 to \$5 for American Beauty; carnations, \$1 to \$1.25; stocks, \$1; peonies, \$1.50 to \$2; Cape Jasmine, 75c.; and callas, \$3 per dozen. Marguerites, sweet peas, and pansies, together with what snowballs, columbines, and any other hardy stock we had, were bunched together as fast as possible, and sold for 50c. to \$1 a bunch. We had a chance this year to realize what immense quantities of wild flowers are used usually; that is, flowers gathered by the public, with which the florists have nothing to do. Had we given this matter the consideration it deserved (knowing how very scarce all outdoor stock would be) every one of us would have purchased twice the quantity of cut flowers for Memorial Day that we did—and even then sold out clean. F. W.

FIRMS WHO ARE BUILDING.
ONEONTA, N. Y.—John Strong is adding to his establishment materially by the erection of three new greenhouses this Summer.
LEBANON, TENN.—The Lebanon Floral Company is enlarging its greenhouse plant to double the present size and making other improvements.

June 15, 1907

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Prices quoted are by the hundred unless otherwise noted

Roses	A. BEAUTY fancy-special.....	10.00 to 20.00	extra.....	5.00 to 10.00			
	" No. 1.....	6.00 to 8.00	" No 2.....	4.00 to 6.00			
	" No 3.....	2.00 to 4.00	Bride, Maid fancy-special.....	4.00 to 5.00			
	" extra.....	3.00 to 4.00	" No. 1.....	2.00 to 3.00			
	" No. 2.....	1.00 to 2.00	" No. 2.....	1.00 to 2.00			
	Golden Gate.....	1.00 to 6.00	RICHMOND.....	2.00 to 10.00			
	Mme. Abel Chateauy.....	1.00 to 6.00	ADIANTUM.....	50 to 1.00			
	CROWNEANUM.....	1.00 to 1.50	ASPARAGUS.....	25.00 to 50.00			
	Plumosus, bunches.....	15.00 to 25.00	" Sprenger, bunches.....	15.00 to 25.00			
	CALLAS.....	6.00 to 7.00	CATTLEYES.....	40.00 to 60.00			
	CYPRIPEDIUMS.....	12.00 to 15.00	DAISIES.....	1.00 to 3.00			
	In'tr grades, all colors.....	.50 to 1.00					
	STANDARD VARIETIES { White.....	1.00 to 1.50					
	{ Pink.....	1.00 to 1.50					
	{ Red.....	1.00 to 1.50					
	{ Yel. & Var.....	1.00 to 1.50					
	*FANCY.....	1.50 to 2.00					
	(*The highest grades of standard var)	1.50 to 2.00					
	NOVELTIES.....	2.00 to 3.00					
	GARDENIAS, per doz.....	.50 to 2.00					
	LILAC, per bunch.....	.10 to .25					
	LILIES.....	1.50 to 4.00					
	LILY OF THE VALLEY.....	1.00 to 2.00					
	MONONETTE.....	..... to					
	PEONIES.....	3.00 to 4.00					
	SMILAX.....	12.00 to 15.00					
	SWEET PEAS, per doz. bunches.....	.75 to 1.00					

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Philadelphia.
News Gittings.
The solid silver cup to be given by the Whilldin Pottery Company as a howling prize at the S. A. P. convention, has been on exhibition in the window of Bailey, Banks & Biddle on Chestnut street this past week. It is a handsome trophy. The howling committee of our club is to decide what the cup is to be offered for.
The Henry F. Michell Company will also give a prize for howling; they are having something unique made, and we hope to present a photograph of it later.
Pennock Brothers had 360 orders for the commencement at Bryn Mawr College last week; their entire force worked all night getting these out.
The Wm. Graham Company has its entire decorating force working on orders for the Elks convention which takes place here in July. In addition to decorating large stores and clubs the firm also has the contract for all bunting, flags and electrical lighting for the Court of Honor to be erected by the city which will be located on Broad street from Race to Spruce streets.
John Westcott is down at Waretown getting things in shape for the annual opening, which owing to the late season will occur late in this month.
Keller Brothers, Morristown, Pa., report a very good season in flower pots; all sizes have sold well, and no surplus of stock has accumulated.
The rhododendron display at the Andorra Nurseries is attracting numerous visitors these days. Mr. Harper considers the display unprecedented and attributes the rare beauty of the great array of rhododendrons to the late Spring, which has made the flowers slow in maturing.

DAVID RUST.

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SAN ANTONIO, TEX.—Chrysanthemums in bloom in the month of May was one of the peculiar conditions existing in San Antonio on account of the Fall and Winter weather which prevailed here.

HIGHLAND PARK, ILL.—Ernest Wienhoeber, the well-known Chicago florist, has bought Bobolink farm, southwest of this city, for \$27,500. He is to fix up the place finely in a landscape way and make it one of the most attractive spots on the Green Bay road. Formerly the family spent the Summer at Waukegan.

Cincinnati, O.

News Notes.
Max Rudolph has bought out his partner in the greenhouse business at College Hill, O., and will now conduct it in his own name.

I notice in the last issue of The Florists' Exchange, page 771, an article suggesting that the heads of the different florists' clubs and horticultural associations of the United States be called upon to use their best endeavors to promote membership in the S. A. F. O. H., and that the respective officers be called upon to meet in Philadelphia at the August convention. This suggestion is all right. I favor anything that will advance the interests of the mother society, and possibly you might, by calling such a meeting, get the officers in question to become members, which, to a large extent, is not the case now. Then, possibly, they might map out some scheme whereby a few of the members of the smaller organizations could be induced to come into the fold. But, to my mind, the best way to get members is for the S. A. F. O. H. to pay a first-class lecturer to visit the different societies, deliver an instructive lecture, and then and there make a plea for the grand old mother society, the S. A. F. O. H.
E. G. G.

New Orleans, La.

News Notes.
Charles Eble having purchased a portion of a square near his present location, which is situated in the heart of the garden district, will, when his present lease expires, build a modern residence and a range of glass to grow stock for his Baronne street store.

On a recent visit to Audubon Park head gardener Weller pointed out to me a plant of the new climbing Asparagus Ducheni. This is the most distinct of the newer varieties of asparagus. From a small plant received from the Botanic Garden at Washington a few months since and planted out in Horticultural Hall, it has grown to fine proportions. It might be described as a giant climbing A. Sprengeri, with glossy leaves, and no doubt will become very popular for cutting; although it can never take the place of Asparagus plumosus, where a heavier class of green is required it will be just the thing. Another plant that Mr. Weller is very proud of is that beautiful cycad, Ecephalartos Lehmanni. The plant at the park is a regal specimen and had just matured a new crown of leaves. He has also a magnificent specimen of Cycas circinalis.

The writer has noticed that in several places in this city that interesting parasitic plant dodder (Cuscuta americana) has established itself on the privet hedges, sometimes in just small patches, at others it covers the whole hedge. From a botanist's point of view it is interesting, but I am inclined to think that to the gardener it may become a nuisance.
CRESCENT CITY.

Wholesale Prices of Cut Flowers—Per 100

Boston June 11, 1907	Buffalo June 10, 1907	Detroit June 4, 1907	Cincinnati June 3, 1907	Baltimore June 10, 1907	Milwaukee June 11, 1907	Phil'delphia June 4, 1907	Pittsburg June 12, 1907	St. Louis June 11, 1907
20.00 to 25.00	20.00 to 25.00	50.00 to 60.00	to 30.00	to 20.00	A. BEAUTY, fancy—special	to 25.00	20.00 to 25.00	20.00 to 25.00
10.00 to 20.00	15.00 to 20.00	40.00 to 50.00	to 20.00	to 25.00	" extra	15.00 to 18.00	15.00 to 20.00	12.50 to 20.00
4.00 to 10.00	8.00 to 15.00	30.00 to 40.00	10.00 to 20.00	15.00 to 20.00	" No. 1	10.00 to 12.50	10.00 to 12.00	6.00 to 8.00
2.00 to 4.00	3.00 to 5.00	20.00 to 30.00	to 6.00	6.00 to 10.00	" Culls and ordinary	4.00 to 8.00	2.00 to 3.00	3.00 to 4.00
6.00 to 8.00	7.00 to 8.00	3.00 to 10.00	to 6.00	to 6.00	BRIDE, "MAID, fancy-special	to 10.00	to 12.00	to 10.00
4.00 to 6.00	6.00 to 7.00	to 3.00	4.00 to 5.00	to 6.00	" extra	to 6.00	to 10.00	to 6.00
2.00 to 4.00	4.00 to 6.00	to 2.00	2.00 to 3.00	4.00 to 5.00	" No. 1	to 4.00	5.00 to 6.00	3.00 to 4.00
1.00 to 2.00	2.00 to 4.00	to 1.00	1.00 to 2.00	2.00 to 3.00	" No. 2	to 2.00	to 4.00	to 2.00
to 2.00	to 3.00	to 3.00	2.00 to 4.00	3.00 to 6.00	GOLDEN GATE	4.00 to 6.00	4.00 to 10.00	2.00 to 5.00
to 3.00	to 7.00	to 2.00	2.00 to 6.00	4.00 to 6.00	K. A. VICTORIA	4.00 to 6.00	4.00 to 10.00	2.00 to 4.00
to 15.00	to 6.00	to 2.00	to 3.00	to 5.00	LIBERTY	4.00 to 10.00	2.00 to 15.00	3.00 to 10.00
to 3.00	to 6.00	to 2.00	to 3.00	to 5.00	PERLE	4.00 to 6.00	4.00 to 6.00	2.00 to 4.00
to 6.00	to 10.00	to 2.00	to 1.00	to 1.50	ORCHIDS—Cattleyas	to 60.00	to 75.00	to 1.00
to 1.50	to 2.00	to 1.00	to 1.00	to 1.50	" inferior grades, all colors	to 1.00	to 2.00	to 1.50
to 2.00	to 3.00	to 2.00	to 2.00	to 2.00	" White	to 2.00	to 3.00	to 1.50
to 1.00	to 2.00	to 2.00	to 1.50	to 2.00	Standard	to 2.00	to 3.00	to 1.50
to 1.00	to 1.50	to 2.00	to 1.50	to 2.00	Varieties	to 2.00	to 3.00	to 1.50
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	Red	to 2.00	to 3.00	to 1.50
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	Yellow and var.	to 2.00	to 3.00	to 1.50
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	White	to 3.00	to 4.00	to 2.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	Fancy	to 3.00	to 4.00	to 2.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	Varieties	to 4.00	to 4.00	to 2.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	Novelties	to 3.00	to 4.00	to 2.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	CARNATIONS	to 2.00	to 3.00	to 2.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	ADIANTUM	to 1.00	to 1.50	to 1.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	ASPARAGUS, Plum. and Tea	to 1.00	to 1.50	to 1.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	Sprengeri, bunches.	to 20.00	to 30.00	to 20.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	ASTERS	to 50.00	to 50.00	to 50.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	GALLAS	to 50.00	to 20.00	to 25.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	DAISIES	to 2.00	to 3.00	to 2.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	LILIES	to 75	to 1.00	to 1.50
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	LILY OF THE VALLEY	to 3.00	to 1.50	to 2.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	MIGNONETTE, ordinary	to 12.50	to 10.00	to 15.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	" laocy	to 3.00	to 5.00	to 4.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	PEDNIES	to 3.00	to 5.00	to 4.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00	SMILAX	to 2.00	to 3.00	to 2.00
to 2.00	to 3.00	to 3.00	to 2.00	to 2.00		to 25.00	to 20.00	to 15.00

BOSTON, MASS.
WELCH BROS.
PROPRIETORS
CITY HALL CUT FLOWER MARKET
226 Devonshire Street.
Can furnish at short notice, Price according to quality of goods. Long Distance Telephone 6267 and 62

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CUT FLOWER CO.
WHOLESALE FLORISTS
1516-18 SANSOM STREET
High Grade Cut Flowers
Open Evenings until 8.

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Wholesale Florist
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Headquarters in WESTERN NEW YORK
For Roses, Carnations
And all kinds of Seasonable Flowers.
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Wholesale Commission Florist
Also dealer in Florists' Supplies and Wire Designs
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J. B. DEAMUD CO.
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CUT FLOWERS
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 lers of Cut Flowers
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SHIPPING ORDERS.

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ORCHIDS
 FANCY VALLEY, ROSES, CARNATIONS,
 and all CUT FLOWERS and GREENS
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 Wholesale Florists
 Valley, Carnations and Roses
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J.A. BUDLONG
 37-39 Randolph Street, CHICAGO.
 Wholesale
 Roses and Carnations
 A Specialty....
CUT FLOWERS
 WHOLESALE GROWER of

Wholesale Prices of Cut Flowers, Chicago, June 11th, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		STANDARD VARIETIES	
38-inch stems.....per doz.	..... to 3.00	Whits.....	1.00 to 2.00
30-inch stems.....	..... to 2.50	Pink.....	1.00 to 2.00
24-inch stems.....	..... to 2.00	Red.....	1.00 to 2.00
20-inch stems.....	..... to 1.50	Yellow & var.....	1.00 to 2.00
12-inch stems.....	..... to 1.00	*FANCY (The high-est grade).....	2.00 to 3.00
8-inch stems.....	..... to .75	of Std. var. } Yellow & var.....	2.00 to 3.00
12-inch stems and shorts.....	..... to .50	NOVELTIES.....	..... to 2.00
Bride Maid, fancy special.....	..... to 8.00	ADRIANTUM.....	.75 to 1.50
EXTRA.....	..... to 5.00	ASPARAGUS, Plum. & Ten.....	.35 to .50
No. 1.....	..... to 4.00	" Sprenger, bunches.....	.35 to .50
No. 2.....	3.00 to 4.00	LILIES, Longiflorum.....	8.00 to 15.00
Golden Gate.....	3.00 to 8.00	" Candidum (spikes).....	..... to 3.00
Uncle John.....	3.00 to 8.00	Orchids—White, as.....	..... to 50.00
Liberty.....	3.00 to 8.00	SMILAX.....	10.00 to 20.00
Richmond.....	3.00 to 8.00	LILY OF THE VALLEY.....	2.00 to 4.00
Killarney.....	4.00 to 8.00	HARRY FERNS per 1000.....	2.50 to 4.00
Perle.....	10.00 to 12.00	GALAX.....	1.00 to 1.25
Obatsny.....	3.00 to 6.00	GARDENIAS.....	.50 to 1.00
Callas.....	3.00 to 8.00	FRONIES.....	3.00 to 8.00
Mignonette.....	8.00 to 10.00	SWEET PEAS.....	.50 to 1.25
FORGET-ME-NOT.....	2.00 to 6.00	SNAPDRAGON.....	4.00 to 8.00
.....	..... to 1.00	.....	.....

Poehlmann Bros. Co.
 Wholesale Growers of
 and Dealers in **Cut Flowers.**
 All telegraph and telephone orders given prompt attention.
 Greenhouses: 35-37 Randolph St., MORTON GROVE, ILL. CHICAGO.

ST. PAUL, MINN.
 Send us your Orders for delivery in the Northwest, which will have our best attention.
L. L. MAY & CO.,
 Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.
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 Your Money is well spent when you advertise in
THE FLORISTS' EXCHANGE

E. H. HUNT
The Old Reliable
 FOR
CUT FLOWERS AND SUPPLIES
 76-78 Wabash Avenue, CHICAGO.

Chicago.
The Week's News.
 The closing of numerous private schools on the north side and other residential sections which started in last week has added materially to the total work of the retailers in those localities.
 Paul Pavelchik, one of the oldest wire workers in Chicago, whose place of business was at 3301 Hoyne avenue and who has been furnishing the florists with wire designs for the past twenty-five years, died of brain fever at his home 3362 Hamilton avenue on June 1.
 E. H. Hunt is putting out an innovation in the form of wire in all sizes, suitable for stemming or winding bunches or sprays, wound on spools, one pound to the spool. The manufacturers are putting these up in this form at the special request of this house.
 A traveler who recently returned from an extended business trip which took him pretty thoroughly through the district dependent on this market for cut flowers, remarked a few days since that seldom did he see a box of flowers opened that there were not more or less of the heads of carnations and roses snapped off, which in the aggregate entails a considerable loss on the consignees. From personal observation I can assert that it is not owing to lack of pains on the part of the small army of young men who devote themselves to this work in Chicago; and when the above re-

marks were quoted to a well-known packer with whom a complaint on this ground is so rare that the last one has passed out of memory, he said that the remedy was very simple which he explained in the following manner: "When the box is filled ready to nail up, place a flat cleat in the center and drive it down hard on the ends of the stems to hold the flowers firmly in place, but when the upright cleats, forming the receptacle for the ice, are put in place, never press them hard on to the stems but leave ample leeway or else in the more or less rough handling of the boxes some of the heads will surely be snapped off. Let every Chicago packer try this method, and the complaints of loss from this cause will at once be eliminated."

Although prices were low compared to the previous week E. C. Amling said at the close of last week that business, referring to the amount of stock handled, had held up remarkably well.
 One more hail storm, which it is hoped may be the last of the succession, visited the north part of the city on Tuesday afternoon of last week. The stones were too small to do much damage, but the storm which was only of about two minutes' duration was very severe while it lasted, the ground being nearly covered in that short time.

E. A. Kanst, 5700 Cottage Grove avenue, will supply all applicants with the advance premium list offered for this Fall's flower show of the Horticultural Society of Chicago which will be held in the Coliseum, October 31 to November 6, inclusive. Intending exhibitors should not fail to procure a copy of this schedule of prizes and cultivate their products according to its precepts.
 Applications have been made to and are now under consideration by the South Park Board for the establishment of parks in the Hegewisch, South Deering, Grand Crossing, Dauphin Park, and South Chicago sections at a total cost of two million dollars.

The scarcity of hardy ferns has caused a scouring of the woods in the suburbs and even into Indiana, but the results generally do not compare favorably with the more distant products.
 The impression seems to prevail not only among the retailers who are unanimous, but among commission men, that such high prices as ruled here Decoration Day are a positive detriment to the trade. Retailers stated that when intending purchasers were informed of the price of goods they frequently laughed, turned on their heels and departed.

W. N. Rudd has been for a considerable time endeavoring, owing to conflicting duties, to withdraw from the position of secretary-treasurer of the Horticultural Society of Chicago, but his resignation has been refused or held in abeyance until at last, owing to his insistence, it has been accepted and resolutions commemorating of the unflinching performance of his duties and unswerving loyalty to the organization adopted with the recommendation that a suitable medal of the society be struck for him as a token of appreciation of his long continued service to the society.

The bulk of the peony harvest last year, which was of unprecedented proportions, was practically gathered and hundreds of thousands placed in cold storage some days previous to the middle of June—a decidedly different condition from that presented this season, when the storing of stock had hardly commenced at the same date.

It is said by members of the club that suggestions for a good place to hold the annual picnic are in order and Morton Grove which has been mentioned seems to be perfectly satisfactory.

N. C. Moore & Company, Morton Grove, estimate their peony crops for this season at not over one-eighth of the last year's harvest, and Vaughan & Sperry state that advices received by them from many scattered sections of the district contributing to this market place this year's product at from ten to twenty per cent. of expectations.

At the J. A. Budlong greenhouses an immense well was constructed last Summer, but as it was found to be inadequate to the requirements of the establishment another even larger, being 24 feet deep and 22 feet in diameter, is now being dug.

The growers and purveyors of young chrysanthemum plants report a business this season from all sections far in advance of anticipations and over-topping

HENRY M. ROBINSON & CO.

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FLORISTS' SUPPLIES and HARDY CUT EVERGREENS

15 Province St.—9 Chapman Place, BOSTON, MASS.
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Hardy Cut DAGGER and FANCY Ferns, \$2 per 1000 Green and Bronze GALAX, \$1.50 per 1000.
Laurel Festooning for June Decorations, 6c. per yd.
Branch Laurel, 50c. per bunch.
Sphagnum Moss, 50c. per bag; 5 bags, \$2.00.

AMERICAN BEAUTIES RICHMONDS BRIDES and BRIDESMAIDS CARNATIONS VALLEY
Everything in the flower line.
Write for Price List.



Florists' Supply Price List on Application

New Crop DAGGER or FANCY FERNS, \$1.50

Galax, bronze or green, 75c. per 1000 or \$6.50 per 10,000 cases.



Use our Laurel Festooning for your June Weddings; 4c., 5c., and 6c. per yard; finest quality and can fill orders promptly.

Try our special 50 lb. cases Southern Smilax, \$6.50.
Laurel Branches, 35c per large bundle.

Send us your orders now for ferns for the coming season, and have them the year round at a reasonable price.

Telegraph Office: New Salem, Mass.

Long Distance Telephone Connection

CROWL FERN CO., MILLINGTON, MASS.

EXTRA FINE FANCY AND DAGGER FERNS

\$2.50 per 1000. Discount on large orders. Loucothoe Sprays \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE

Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season
38 & 40 Broadway. Formerly DETROIT, MICH.
Miami Ave. Detroit, Mich.
Send for our weekly price list on Cut Flowers.

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Green and Bronze Galax Leaves

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WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

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MANUFACTURERS
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DIMENSIONS: Base 14 inches, Height to Top of Dome, 25 inches
QUALITY: Base of Metal
FINISH: Black and Verde, Catch Basin and Dome of Leaded Glass

A Portable Electric Luminous Fountain

No Water Connection
Self Contained

No Florist should be without a Fountain. As a Centerpiece for Banquets and Weddings it has no Equal. Very attractive Window and Store Decoration. Order Now. The Demand is big.

Write for further Designs and Prices

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SOUTHERN WILD SMILAX BEAVEN'S FADELESS MOSS NATURAL SHEET MOSS E. A. BEAVEN, Evergreen, Ala.



PREPARED PALMS AND PALM LEAVES

in all varieties
Also Moss, Fibre, Needle Pines, Pine Cones, Uva Grasses, etc.
Buy from HEADQUARTERS.

Florida Natural Products Co.
Fernandina, Fla.

the large trade in this branch of preceding years. Some of the growers have been short of some varieties, but as will be seen by reference to our advertising columns they are now prepared to furnish a very full list.

The Mrs. Marshall Field rose houses in the Robey street section of the Peter Reinberg range, which were planted but a few weeks ago, have made a remarkable growth and give glowing promise for the future.

A. F. Longren, traveling representative of The Chicago Carnation Company, was in the city the first of the week and visited Jensen & Dekema's establishment particularly to take a look at W. N. Rudd's new scarlet carnation which is to be put on the market by this concern next Spring. Mr. Longren expressed himself as well satisfied with the habit and growth of the new variety which has not yet been named.

The superb collection of orchids, embracing 2,700 plants of 1,000 varieties, which Harry G. Selfridge on his departure to his new home in England loaned to the Lincoln Park conservatories, is in profuse bloom and attracting thousands of visitors. The hybrid cattleya named after Mrs. Selfridge, ivory white with purple lip and throat of orange gold, one of six of the variety extant, is now in bloom, and owing to the position occupied in Chicago by its namesake is sought out by all comers.

Horace R. Hughes has a number of novel and interesting ideas which he uses successfully in attracting trade to his Van Buren street store, one of which is a small deer park adjoining the store property, in which are confined a buck and two does. One of the latter recently gave birth to a fawn and one Saturday evening, two weeks ago, as soon as the youngster was strong enough to frisk about the daily papers made mention of the unusual event in the densely populated section of a big city. Mr. Hughes estimated that as a result five thousand people visited his store on Sunday and his books showed sales for the day aggregating just five times the amount of his average Sunday's business.

The Chicago Florists' baseball nine received a trimming at Riverview Park on Sunday afternoon by Charlie's Colts. It was a good game though the score of 11 to 1 would not indicate it.

At Wieter Brothers' greenhouses carnation planting inside of stock carried in pots commenced this week, and some fifty thousand plants will be so treated, not going into the field at all.

A. O. Wild of the concern of C. & M. Wild, peony specialists, of Sarcoxie, Mo., was a Monday visitor to the market section. L. Wasserman of Muskegon, Mich., was in the city the first of the week looking up building material. J. and E. J. Bertermann of Indianapolis were noted among this week's callers in Chicago.

Former president W. F. Kasting of Buffalo, was in the city this week in connection with business pertaining to the International Flower Show, to be held here next year.

Continued improvements of an important nature are much in evidence at the Poehlmann Brothers Company's establishment at Morton Grove, among them being a cold storage cooler which is being installed at Plant B, and one is ordered for Plant A, on the completion of the new shipping house now in course of construction.

A few Chicago nurserymen attended the meeting of the American Association of Nurserymen at Detroit this week.

WILLIAM K. WOOD.

Boston.

Exhibition Notes.

The annual rhododendron show of the Massachusetts Horticultural Society was announced for Saturday last, and although there was a first class exhibition of reasonable flowers only a few rhododendrons were in the hall. The season has been so late and changeable that it has been hard to arrange proper dates for the different exhibitions. Last week's announcements have again all been changed and the regular rhododendron show will be held June 15, followed by the peony and rose show on June 22-23 and by the rose and strawberry show June 29-30.

The exhibition on Saturday was composed mostly of the late flowering Darwin and parrot tulips, herbaceous plants and tree peonies. Some new plants of exceptional merit were on exhibition noticeable among which was a fine lot of pot plants of *Spiraea Queen Alexandra*, a new variety of a pleasing soft pink color and the winner of the society's silver medal. It was exhibited by R. & J. Farquhar & Company, who also had a fine display of herbaceous plants and a splendid collection of tulips of which they exhibited many hundreds of blooms. They also staged magnificent plants in tubs of *Wistaria multiflora* which with their long pendulous blossoms proved quite an attraction.

Perhaps the finest exhibit in the hall was the collection of seedling tree peonies put up by Chas. Sander, gardener to Professor C. S. Sargent, Brookline. This collection contained many fine colors and blooms of enormous size and was well worthy of the silver medal awarded it.

Another attraction was formed by the fine plants of *Caleolaria rugosa* Golden Gem, and the new hybrid variety *Stewartii*, which recently captured the society's silver medal. These plants were exhibited by James Crosbie, gardener to Mrs. J. W. Tufts; he also exhibited a fine specimen plant of *Clerodendron Balfourii*, for the superior cultivation of which he received a first class certificate of merit.

The Blin Hills Nurseries had on exhibition a fine lot of hardy herbaceous plants, their magnificent vases of trolis in variety being a great attraction. Robert Cameron, for the Harvard Botanic Gardens, exhibited a fine collection of herbaceous plants and a table of breeder tulips which had many rich colorings in them.

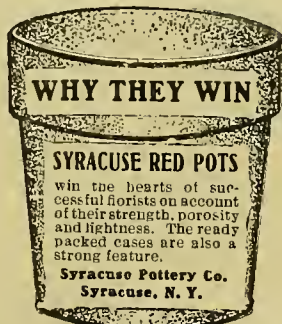
W. W. Rawson & Company were also exhibitors of late tulips showing a collection of excellent blooms.

E. Johansson, gardener, to Mr. J. E. Rothwell, exhibited a table of cut orchid blooms the like of which he is famed for putting up. Other exhibitors were Martin Sullivan, gardener to Mr. W. Whitman, and J. L. Smith, gardener to Mrs. A. W. Blake, each showing azaleas. Wm. Rnst, gardener to Dr. C. G. Weld, staged lily of the valley; Mrs. E. M. Gill, a miscellaneous lot of flowers, and Warren Heustis & Son a collection of hardy shrubs. The vegetable classes were well represented notwithstanding the lateness of the season. The exhibition was open all day Saturday and on Sunday afternoon when the attendance of the public was very satisfactory.

News Notes.

Mrs. Wm. J. Stewart is seriously ill of pneumonia at her home in Winchester.

S. Wax of Wax Brothers has gone on his annual vacation; he has taken Mrs. Wax along.



STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate	Price per crate
1500 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20
1500 2 3/4 " " " 5.25	60 8 " " " 8.00
1500 2 7/8 " " " 6.00	48 9 in. pots in crate, \$5.50
1000 3 " " " 6.50	48 10 " " " 4.80
800 3 1/2 " " " 6.50	24 11 " " " 8.60
500 4 " " " 4.50	24 12 " " " 4.80
300 5 " " " 4.50	12 14 " " " 4.80
144 8 " " " 8.18	6 16 " " " 4.60

Send pane, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

Hilfinger Bros., Pottery, Fort Edward, N. Y.
August Kolker & Sons, Agts., 31 Barclay St., N. Y. City

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THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES

NIKOTEEN LIQUID

FOR SPRAYING OR VAPORIZING

PRICE \$1.50 PER PINT BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES.

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PLEASE STOP MY ADVERTISEMENT AND SEND BILL TO DATE. I AM WELL PLEASSED WITH THE RESULTS.
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SOUTHAMPTON, N. Y.

TO-BAK-INE PRODUCTS

THESE products will positively destroy all insect pests (including White Fly, Red Spider, and Thrip) that attack greenhouse grown stock.

To-Bak-Ine Fumigating Paper contains more Nicotine per sheet than any other. It kills the bugs and does not harm the blooms or plants.

Per box of 24 sheets (18 x 6).....\$.60
Per case of 288 sheets 18 x 6)..... 6.50

To-Bak-Ine Liquid positively the strongest and best article offered for spraying. It will kill the insects and guaranteed not to spot or discolor the blooms. It can be used with absolute safety on your stock in full bloom.

1-4 pint can.....\$.60
1-2 pint can..... 1.10
1 pint can..... 2.00
1-2 gallon can..... 7.75
1 gallon can..... 15.00
5 gallon can..... 67.50

Send for full spraying information and price on 10-20 and 40 gallon casks with locked faucet.

To-Bak-Ine Fumigating Compound those who fumigate or vaporize will find this the most effective of all compounds. It is used by the biggest growers in the country and it keeps their stock free from insects.

1 pint.....\$2.00
1-2 gallon..... 7.75
1 gallon..... 15.00

Write for prices on cask lots or contract orders of not less than 100 gallons per annum.

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50 BARCLAY ST., NEW YORK

Sheep Manure
Pulverized. Free from all Adulteration.
In Bag, \$18.00 per Ton.
ROBERT SIMPSON
Clifton N. J.

IDEAL PLANT FOOD
Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.
EDWARD MacMULKIN,
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THE AMERICAN GARNATION

Price \$3.50. Send for Samole Pages
A T. DFLA MARE PTG. & PUB. CO., Ltd. 2-8 DUANE STREET, NEW YORK



THE BEST
Bug Killer and Bloom Saver
For PROOF
Write to
P. R. PALETHORPE CO.
LOUISVILLE, KY.



The Whilldin Pottery Co.
STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

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WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



We Haven't Said Much

about that H. & Co. "Oil Itself" Gear because we wanted to catch up with our orders. Now things are humping along so at the factory that your order could be shipped at once. You know we never made an "Oil Itself" Gear that the reservoirs were not completely enclosed. We figured that if left open, dirt and water from syringing would get in. It has already been tested so thoroughly, and everywhere makes such firm friends that we know it's the very gear you want. Right prices too. Get them!

HITCHINGS & CO.

GREENHOUSE DESIGNERS AND BUILDERS

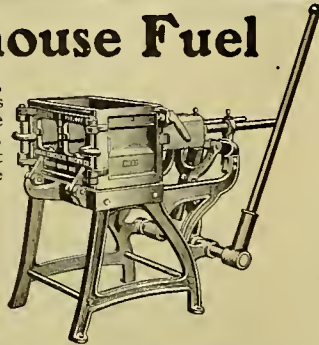
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1170 Broadway

NEW YORK

Save Greenhouse Fuel

With the Ideal Concrete Block Machine, any florist can build his own greenhouses at little cost. Saves in fuel, because the hollow block is practically frost-proof. Lowers insurance rates and ends the cost of maintenance, because Ideal Blocks are fire-proof and everlasting.



IDEAL Concrete Machine

The original and only perfected Concrete Block Machine working on the face-down principle.

Enables the manufacture of Ideal Concrete Blocks from sand, gravel and a little cement at a cost far lower than that of other building materials. May be operated by any man without previous experience. Low in cost, rapid in operation, and can never wear out or break in use.

Write for catalogue and illustrations of Ideal Concrete Block construction, of practical value to every florist. Sent Free.

IDEAL CONCRETE MACHINERY CO., Dept. Z, South Bend, Ind.

J. K. M. L. Farquhar has been in the Adirondacks the past week.

There is every indication of a lively meeting of the Gardeners and Florists' Club on Tuesday the 18th inst., to hear Mr. Totty on the chrysanthemum. The executive committee has been making arrangements for the annual picnic, and the time and place will be announced at the meeting. J. W. DUNCAN.

St. Paul.

Trade Notes.

L. L. May & Co. report the heaviest Memorial Day trade in years; both cut flowers and plants sold remarkably well.

This firm is just now winding up the Spring planting of nursery stock; the weather has been ideal for the nurserymen, consequently sales have been away ahead of those of previous seasons.

J. Hoffman, manager of May's retail department, will be married June 19.

C. F. Vogt reports a heavy Memorial Day trade; he says the largest in years. Unfortunately, his hands and fingers were poisoned, which makes it inconvenient for him to attend to business.

E. F. Lemke had a fine stock of lilies in bloom for Memorial Day, which sold quite readily.

Holm & Olsen handled a large business and are apparently well pleased with results. They are doing considerable in Spring planting. PAUL.

COLUMBUS, OHIO.—Samuel Graff has retired from the firm of Graff Brothers. Hereafter the large business of this floral establishment will be carried on under the name of William Graff, the senior member of Graff Brothers. Samuel Graff has gone to Chicago to live. F. W.

GLASS

100 Boxes, 12x16, second quality, double thick, ready for shipment about July 20. Also 20 boxes, 8x10, same grade. This glass will be carefully packed by experienced men. Prices, on application.

R. G. HANFORD, NORWALK, CONN.

Rome, N. Y.

W. H. Orendorff, who for some time past has conducted a florist business on Linden street, is reported to be going out of the business.

The Humphreys Floral Company is the style of a new concern that has succeeded C. B. Humphrey, the death of Mr. Humphrey causing the change. Mr. Humphrey, Jr., and a sister are identified largely with the new enterprise, and have a good stock of all that goes to make up the stock-in-trade of a well equipped retail establishment.

E. J. Byam has a large area of glass and a fine stock all in the pink of perfection. His place is a model of neatness, and business is reported as never before having been better.

William T. Hughes is a new comer into the florist ranks of Rome. He has a few well stocked greenhouses on River street and appeared to be very much enthused about the future prospects of his plant. He grows carnations and bedding plants and carries a small stock of decorative material. J. M.

Keeps Him Sold Close.

My stock in general is almost sold out, and has been kept sold up very close all the season by my advertisement in The Florists' Exchange only. DANIEL K. HERR.

Look Here, Mr. Florist and Gardener

WE have just passed through an unusually severe winter and you are apt to forget the many sleepless nights you spent worrying about the temperature of that No. so and so house.

Or the many zero nights that you spent in the boiler pit; maybe you did not have to do the stoking and firing, but **you** certainly had to do the worrying and pay the coal bills.

Now keep the vows you made on those trying occasions, *And Send for me.* I have solved the problem for others, I can do it for you; and remember, I will come recommended by some of the most prominent commercial florists and gardeners in the East, "Personal friends of yours."

Wm. H. Lutton, Heating Engineer
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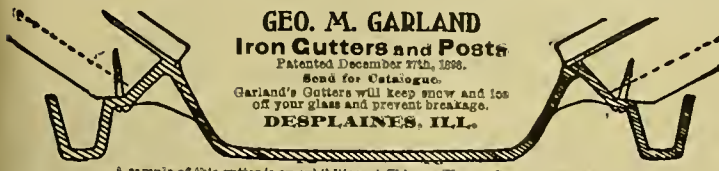
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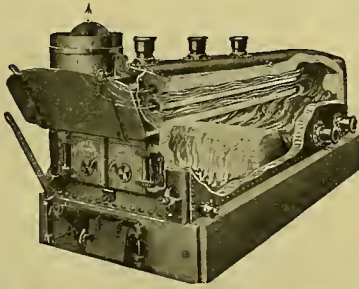
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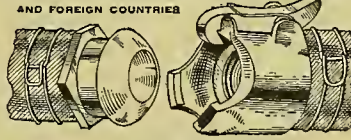

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 is now ready for you and a postal card will bring it. It contains 95 pages of matter that will be of interest if you are going to build a greenhouse. You will find all kinds of greenhouse details fully illustrated, also several plates showing actual blue prints reproduced, together with views of sixty prominent ranges throughout the country. Send for one today and then get our estimate on that new house. The postage costs us six cents and the book including the postage cost us \$1.00, but we send it free to everyone.

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Ageratum Inimitable. Blue Perfection; **Hellebore**, **Ipomoea**, heavenly blue; variegated **Periwinkle**, **Parlor Ivy**, **Lobellias**, dwarf; **Snapdragon**, giant white **Nasturtiums**, **Saxifraga Sarmientosa**, **Bouvardia Humboldtii**; **Shasta Daisies** 8 varieties, **Stokesia Cyanea**, Night blooming **Jasmine**, **Hydrangea** Thos. Hogg, **Otaks**; **Petunias**, **Howard's Star**, and **Rosy Morn Petunias**, double white. The above nice plants from 2 1/2 in. pots, 50c. per doz., \$3. per 100.

Fuchsias, in variety; **Heliotrope**, variegated **Geraniums**, Mrs. Parker, **Clematis Paniculata**, **Swainsona Alba**, **Feverfew Little Gem**, **Ageratum Inimitable**, **Nicotiana** hybrids. Strong plants from 3 in. pots, \$4.00 per 100.

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Seedlings From Flats, **Asparagus Sprengeri**, \$1.00 per 100.

Clematis, large flowering varieties, fine, healthy 2 year-old plants; home grown; **Jackmanii**, **Henryi**. \$3.00 per doz.

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Asparagus Plumosus, and **Sprengeri**, fine plants, 5 in. pots, \$2.00 per doz.

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

Vol. XXIII. No. 25

NEW YORK AND CHICAGO, JUNE 22, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention.
 Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

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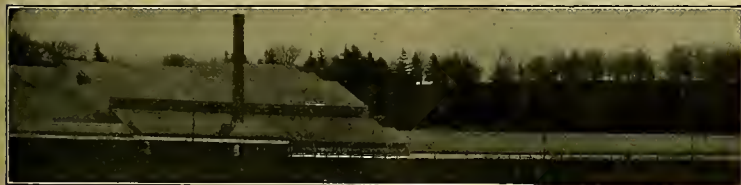
There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, duldest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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Asparagus Plumosus

Nanus

Cut strings 8 feet long
 50 cts. each

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Canna King Humbert

Grand Orchid flowers with bronze Musa-like leaves, strong 3 inch. Doz. \$3.00, 25 for \$6.00. Get it now.

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Fresh greenhouse grown seed of highest vitality, grows into money quickly. Per 1,000, \$4.00; 5,000 for \$17.50; 10,000 for \$30.00.

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	9-inch	11-inch	12-inch	14-inch
Each	\$0.85	\$ 1.00	\$ 1.25	\$ 1.50
Dozen	9.50	11.00	13.00	16.00

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 in 6 good varieties, \$3.00 per 100.

Special offer for a short time

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Trade pkt. 75c., 1/2 oz., \$1.60, 1/2 oz. \$2.75, oz. \$5.00. New crop ready July. Order Now.

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Kentia Balmoreana \$0.75 \$ 6.00
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Asparagus plumosus nanus, greenhouse grown, 75c. per 100 seeds, \$1.00 per 250 seeds, \$3.00 per 1000 seeds.

Asparagus Sprengeri, 10c. per 100 seeds, 50c. per 1000 seeds,

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Mixture of perfect Colors.

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Before placing your order for

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write us for prices on home-grown bulbs that can be supplied after October 1; not too late for outdoor planting.

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COLORED VEGETABLE SEED BAGS

Send for Cat. and Prices.

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Sabal Palmetto, the hardiest of all tall growing palms, 30c. per 100 or \$2.50 per 1000. The same from 2 in. pots, four leaves \$3.00 per 100. **Lalania Borbonica**, 4 in. pots, \$3.00 per 100, showing character leaves; 3 in., \$5.00 per 100; 2 1/2 in. pots, \$3.00 per 100; **Chamærops Excelsea**, 2 1/2 in. pots, \$3.00 per 100; 3 in. pots, \$6.00 per 100, showing character leaves.

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NEW CROP—NOW READY

The Jennings' strain, large flowering, in great variety of fancy colors, finest mixed, \$1.00 pkt. of 4,000 seeds, \$4.00 per ounce; three ounces, \$11.00. Price to seedsmen on application. Cash with order.

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 IMPORTERS AND GROWERS OF HIGH GRADE

Seeds, Bulbs, Plants, Etc.

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Advertise in **The Florists' Exchange** and be sure of results.

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Having succeeded to the business of my father, I shall continue to furnish the same High Grade Pansy Seed as that sold by him for so many years. The public may rest assured that I shall spare no expense to maintain it high standard. **Zirngiebel's Giant Market Pansy**, 2,000 seeds, \$1.00. **Zirngiebel's Giant Fancy Pansy**, 1,000 seeds, \$1.00. **Zirngiebel's Superb Giant Prize Pansy**, 1,000 seeds, \$1.50.

Fresh crop of seed ready July 1; plants after August 15. All packages of seed sold by me will bear my signature; none genuine unless bearing my full name.

DENYS ZIRNGIEBEL, NEEDHAM, MASS.
 GREENDALE CONSERVATORIES
 Established 1866.

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We handle the strains famous in Europe as "Ronsdorfer and Lattman's Hybrids" which are much superior to the ordinary commercial strains in size, shape and color.

PRIMULA OBCONICA GRANDIFLORA.
 1/2 Tr. Pkt. 1 Tr. Pkt.
 Alba, white \$0.30 \$0.50
 Coerulea, blue 40 .75
 Kermsinea, carmine 30 .50
 Lilacina, lilac 30 .50
 Oculata, dark eyes 30 .50
 Sanguinea, blood red 40 .75
 Mixed colors 30 .50
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 Fringed mixed colors 30 .50
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PERENNIAL FLOWER SEEDS

Calceolarias and Cinerarias, W. & O's selected strain. Sure Crop Mushroom Spaw; English and Furs Culture, Central Park Lawn Grass.

Special prices on application.

WEEBER & DON, Seed Merchants and Growers
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PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

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ENGLAND'S PRIZE STRAINS
 Absolutely unsurpassed in size and brilliancy of color.
 English Prize Fringed Mixed, per 100 seeds 25c.; per 500 \$1.00; per 1000 \$1.75.
 Tr. Pkt. Tr. Pkt.
 Obconica Grandiflora Mixed... \$0.20 \$0.30
 Stelata (Star Primula)..... .30 .50
 Forbesi (Baby Primrose)..... .25 .40

CINERARIA AND CALCEOLARIA
INCOMPARABLE GIANT STRAINS
 Tr. Pkt. Tr. Pkt.
 Cineraria English Prize..... \$0.60 \$1.00
 Mixed..... .30 .50
 Calceolaria English Prize..... .60 1.00
 Mixed..... .60 1.00

JOHNSON'S PRIZE WINNER PANSIES
JOHNSON'S KINGLY PRIZE WINNER PANSIES are the product of the World's Leading Pansy Specialist, and absolutely unsurpassed in quality by any strain extant. We offer seed as follows: 1000 seeds, 30c.; 2000 seeds, 50c.; 5000 seeds, \$1.00; 1/4-oz. \$1.25; per oz., \$5.00.

Highest quality French and Dutch Bulbs. Now is the time to book your orders. Our prices will interest you.
JOHNSON SEED COMPANY
 217 Market St., PHILADELPHIA, PA.

COLD STORAGE LILIES

ALL LIVE AND UP-TO-DATE FLORISTS GROW THEM

The forcing of cold storage lilies is no longer an experiment. If you have not already grown some of these we can refer you to hundreds of florists who make a success of this method and have lilies "all the year around."—The same as Lily of the Valley.

Our lilies are bought for and placed in cold storage for the express purpose of delivering bulbs in the summer time.

LILIUM longiflorum and **giganteum** take about two months to bloom from time of planting from cold storage. Specimens from five to six months, so that longiflorum wanted for Thanksgiving and Christmas should be planted about Oct. 1st, and **speciosum** and **auratum** about July 1st.

We have limited quantities of the following varieties on hand and offer subject to being unsold and at the prices named; will hold not later than Oct. 1st, for our customers without any additional charges for cold storage. **ORDER TO-DAY.**
 All cases are repacked before shipment.

LILIUM LONGIFLORUM GIGANTEUM —Cold storage. per per 7 to 9-inch bulbs, 300 in 100 1000 case..... \$8.00 \$75.00
LILIUM LONGIFLORUM MULTIFLORUM —Cold storage. per per 9 to 10 inch bulbs, 200.....100 1000 in case.....11.00 100.00
LILIUM SPECIOSUM RUBRUM —Cold storage. 8 to 9-inch bulbs, 200 in case..... 8.00 75.00 9 to 11-inch bulbs, 150 in case.....12.50 110.00
LILIUM SPECIOSUM MELPOMENE —Cold storage. 8 to 9-inch bulbs, 200 in case..... 9.00 80.00 9 to 11-inch bulbs, 150 in case.....12.00 115.00
LILIUM AURATUM —Cold storage. 8 to 9-inch bulbs, 160 in case..... 5.50 50.00 9 to 11-inch bulbs, 120 in case..... 9.00 80.00 11 to 13 inch bulbs, 75 in case.....16.00 150.00

Full cases sold at 1000 rate.

ARTHUR T. BODDINGTON. 342 W. 14th St., New York City

Japanese Bamboo Stakes

for tying Lilies, Roses, Chrysanthemums, etc.; more durable than any wooden or Southern Cane Stake.
 6 ft. long, 3/8-in. diameter, 65c. per 100, \$5.00 per 1000, \$9.00 per 2000.

Extra Heavy Bamboo Stakes
 For young trees, etc.
 Where very strong support is needed: 5-7 ft. long, 1 1/2"-2" diameter, 75c. per doz., \$5.00 per 100.

Seeds for Present Sowing

Asparagus plumosus nanus, (True Greenhouse)..... \$0.40 \$3.00
Asparagus plumosus nanus, Lathouse grown..... .25 1.75
Asparagus Sprengeri..... .15 .75

From Flats: Asparagus Pl. Nanus Seedlings. \$1.25 per 100, \$10.00 per 1000.

From Flats: Fern Seedlings, fine assorted. Adiantum, Aspidium, Cyrtomium, Davallia, Pteris, etc., \$1.25 per 100, \$10.00 per 1000.

SPECIAL OFFER
 ON ALL ORDERS REACHING US BEFORE JULY 15th WE ALLOW A DISCOUNT OF 5% FROM OUR FALL BULB LIST.

H. H. BERGER & CO.
 70 WARREN ST., NEW YORK

Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent free upon request as soon as issued.

Vick's Superb Pansy Seed,
 All the best varieties in separate colors. VICK'S SUPERB MIXTURE, the best strain from all the leading named sorts: 1/2 ounce, 55c.; 1/4 ounce, \$1.60; ounce, \$6.00.

James Vick's Sons,
 Rochester, N. Y.

200,000 CALLA LILY BULBS --- ÆTHIOPICA



Calla Æthiopica, 10 inches circumference.. \$10.00 \$90.00
" " 9 " " " " 9.00 30.00
" " 8 " " " " 8.00 70.00
" " 7 " " " " 7.00 60.00
" " 6 " " " " 5.50 45.00
" " 5 " " " " 4.50 35.00
" " 4 " " " " 3.50 25.00
" " 3 " " " " 2.25 15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My second car leaves for the East promptly on July 15. If cash is sent with the order I will prepay the freight, which is 15 per cent. value of the bulbs.

A. MITTING, 17-23 Kennan St., SANTA CRUZ, CAL.

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing GROFF'S HYBRIDS, NAMED NOVELTIES of rare beauty, MIXTURES and COLLECTIONS to color and face Mixtures of all colors. Write for it.

ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM BERLIN, N. Y.

WANTED WANTED WANTED

People who are desirous of receiving the best stock in **Bulbs, Plants, etc.**, at reasonable prices!

Prices will be cheerfully given to those applying to
F. W. O. SCHMITZ, Prince Bay, N. Y.

ASTER SEEDS

There is ample time to sow Asters for general crop. The seeds we offer are 1906 crop and of our own growing. Several of our customers advise us that they germinate a hundred per cent.

Queen of Market, in separate colors, white, light pink, rose, lavender and purple..... \$0.10 \$0.15 \$0.50
Snowdrift, early white..... .35 1.00 3.00
Daybreak..... .25 .40 1.25
Carlson's Branching, separate colors, shell pink, lavender, white and late white..... .20 .30 .80
Late Branching, in separate colors, white, shell pink, light pink, bright rose, lavender and purple. .20 .30 .80

Special prices quoted on large quantities.

NATHAN SMITH & SON, Adrian, Mich.

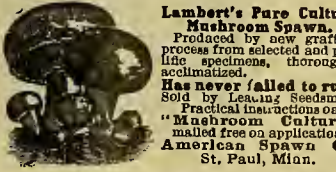
SEEDS Hollyhock, Chatier's Primula obconica, Grandiflora, veris, elatior, Giant Cinerarias, Giant Pansy, Imperial strain. Carnations, Margaret; Bellis perennis, etc., each kind, pkt., 2c.
 IMPERIAL SEED & PLANT COMPANY, George, Balto. Md.

C. C. Morse & Co.

SEED GROWERS, San Francisco, Cal.
 Address all communications to our permanent address, 48 to 66 Jackson Street.
ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
 Warehouses, Santa Clara. Farms and Farm Headquarters, Carnadero, near Gilroy.

FISKE'S HIGHEST GRADE

Seeds and Bulbs
ALWAYS RELIABLE
H. E. FISKE SEED COMPANY
 12 and 14 Faneuil Hall Sq., Boston, Mass.



Lambert's Pure Culture Mushroom Spawn.
 Produced by new grafting process from selected and profile specimens, thoroughly acclimatized.
Has never failed to run. Sold by Leading Seedsmen. Practical instructions on "Mushroom Culture" mailed free on application.
American Spaw Co. St. Paul, Minn.

DAHLIAS

2 inch pots, 30 or 40 varieties, at \$25.00 per 1000. Not less than five of a kind at thousand rates.
ELIZABETH NURSERY CO., Elizabeth, N. J.

ESTABLISHED 1900

POAT BROS.

BULB GROWERS

ETTRICKS, VA.

NARCISSI TULIPS DAFFODILS IRIS, ETC.

Send For Catalogue.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
 Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

MT. STERLING, KY.—The Bluegrass Seed Company has been organized with a capital stock of \$8,000, and will build two large warehouses.

WARSAW, IND.—Rains last week devastated the lowlands about Nappanee, ruining the onion fields, the largest in the middle West. Losses are estimated at \$500,000.

WASHINGTON, IA.—The F. B. Mills Company of Rose Hill, N. Y., has, after investigation, finally decided to open a branch here. Work has commenced on a brick warehouse, 40x100 feet. The change has been made to better facilitate the work of filling the Western orders of the concern.

MARIETTA, PA.—Charles Johnson, seedsman, sails for Europe on June 27. He will make a tour of inspection of the seed growing districts in France, particularly the crops under cultivation by Denaiffe & Son. He will also visit the most prominent European seed centers.

FREDERICK COOPER, seedsmen, Wellington, New Zealand, is patriotic. In his catalogue as well as on his envelopes he uses the following sentence: "Maoriland produces the softest wool, the most tasty butter, the tenderest mutton, the toughest footballers, why not the most productive seeds?"

CHICAGO.—A. J. Pieters, president and manager of the A. J. Pieters Seed Company, Hollister, Cal., and formerly with the Department of Agriculture passed through here on his way East last week; and Howard Earl of Burpee & Company's Philadelphia house stopped off in Chicago before continuing his way West.

Winterson's Seed Store has been making some architectural changes and improvements including a stairway leading from the seed store to the E. F. Winterson Company cut flower store in the basement.

Charles Hollenbach of the committee on transportation says it looks bright for a good representation from here for the American Seed Trade Association meeting, he having nearly a carload of bookings for sleeping car accommodations, over a week in advance of the date of departure.

The elongated season keeps up the rush of business at Vaughan's Seed Store, so far making it impracticable to proceed with the annual stock taking which is generally over before this time. J. C. Willison of Wood, Stubbs & Company, Louisville, Ky., and representing the new paper, The Market Growers Journal, was in Chicago the first of the week.

J. C. Vaughan returned from New York on Monday.
 Charles P. Braslan of the Braslan Seed Growers' Company, San Jose and Coyote, Cal., was in town the first of the week and from here started East.
 W. K. W.

GOVERNMENT INSPECTION OF SEEDS.—Commenting on the beneficial work of the Department of Agriculture in improving the seed supply of the country, through tests for purity and the publication of the names of firms selling seeds that contain adulterants, the Breeders' Gazette, Chicago, points out the advantage that a firm can acquire when it avails itself of the aid of the law, in this wise: "Before us lies a circular from a western seed house advertising its alfalfa seed. This is the statement: 'Our brand has been tested for purity by the United States Department of Agriculture.' That will carry conviction. The ability to sell from a stock which has been found free from adulteration by the Department is worth many dollars to a seedsman. The only wonder is that all the reputable seedsmen did not promptly apply to the Department for its aid in protecting themselves in their purchases and in promoting sales through the stamp of purity affixed by 'Uncle Sam.' We are working toward a much cleaner condition of our seed trade and to that consummation the reputable seedsmen can lend powerful aid."

So that what was in the beginning viewed by many in the light of hardship and injustice, has turned out to be a great advantage—in an advertising way. But should the "tested brand" fall short in any particular after it has reached the purchaser, will "Uncle Sam," by his "stamp of purity," be held responsible and pay the piper?

SEEDS FOR THE UNITED STATES.—The British Vice-Consul at Kansas City reports that there is a good opening for agricultural and horticultural seeds, says the Horticultural Trade Journal, England. Doubtless American seedsmen can fill this opening.

A recent consular report states that in 1906 onion seed to the value of \$14,729 was exported from the Canary Islands to the United States. The crop of onion seed, it is said, was enormous and far exceeded the demand. It is estimated that over 40,000 pounds were left on the hands of the dealers.

NEW YORK.—The twenty-fifth annual convention of the American Seed Trade Association will be held in the Hotel Astor, Times Square, from June 25 to 27 inclusive. A large gathering is assured.

IMPORTS OF SEEDS, ETC.—June 8 and 9.—H. Nungesser & Company, 200 packages seeds; J. A. Manda, one case live plants. June 10.—J. W. Hampton, Jr. & Company, 12 double bushels grass seed, J. M. Thorburn & Company, 21 bags grass seed. June 13.—Schieffelin & Company, 16 packages deciduous plants. June 14.—Vaughan's Seed Store, nine cases bulbs.

European Notes.

The weather in Northern Europe keeps unseasonably cold although we have not as yet copied the example of New York in the matter of snowstorms. Everything in the way of cultures all over Europe is in a very backward state (fully four weeks behind), but in spite of this the plants that are alive are very promising and rains are abundant.

The culture that has the finest appearance is lettuce of which the acreage is unusually large this year. In one district more than 250 acres are standing, the bulk of the seed is for home consumption.

Radishes have tested the honor and honesty of the growers and brought defaulters to the front. Some of the merchants have had stock seed, placed in the hands of growers in February, returned to them during the past few days when it is three months too late to place it elsewhere. Of course, if there is a good crop this year there will be a great rush for the culture next season, and then some of the defaulting gentry who are now bean mad will be punished.

Mr. and Mrs. W. Atlee Burpee and two children have arrived in London—this will put the sweet pea enthusiasts on the *qui vive*. It is to be hoped that the sweet peas will be ready for the exhibition.

At the recent horticultural display in Paris one of the British firms exhibited a collection of sweet peas which was universally admired. Truly times have changed.

EUROPEAN SEEDS.

CATALOGUES RECEIVED.

RICKARDS BROTHERS, New York.—Illustrated Catalogue of Bulbs, Roots, Herbaceous Plants, Implements, etc.

W. MAUGER & SONS, Gnerney, Channel Islands.—Illustrated Wholesale Bulb Catalogue.—A very comprehensive and interesting document.

FREDERICK COOPER, Wellington New Zealand.—Price List of Vegetable, Flower, Tree, Shrub and Agricultural Seeds, Horticultural Sundries, etc. Illustrated.

THE COTTAGE GARDENS COMPANY, Queens, N. Y.—Peony Catalogue, 1907.—A neatly printed and well illustrated catalogue, containing useful cultural instructions and enumerating and describing a comprehensive list of these popular plants. The firm's stock this year, it is stated, consists of over 50,000 plants in, approximately, 400 varieties.



BARGAIN TO CLEAR

TUBEROUS ROOTED BEGONIAS

Fine large bulbs. Single Orange, White, Red, Yellow and Mixed. Price, per 100, \$1.50, per 1000, \$14.00.

CYCAS REVOLUTA STEMS

Very profitable. Pot now for early winter. Assorted cases, 1 to 5 lbs., and 5 to 10 lbs. Price, 10 lbs. \$1.00, 25 lbs. \$2.00, 100 lbs. \$7.25, per case (300 lbs.) \$21.00.

ASPARAGUS PLUMOSUS NANUS SEED

True greenhouse grown, of good tested germination. Price, 50c. per 100, \$3.00 per 1000.

GIANT PRIMULA SEED. Finest Mixed, 1/2 trade pkt. 50c., trade pkt. \$1.00. **Kermesino Splendens**, grand crimson, 250 seeds 50c., 1000 seeds \$1.75. **Alba Magnifica**, snow white, 250 seeds 50c., 1000 seeds \$1.70. **Pasch Blossom**, 250 seeds 50c., 1000 seeds \$1.70.

PRIMULA OBCONICA. Grandiflora, mixed, trade pkt. 30c. Grandiflora, Roses, trade pkt. 40c. Grandiflora, Pure White, trade pkt. 40c.

Stokes Seed Store
219 MARKET ST., PHILADELPHIA.

Mitting's Calla Bulb Packing Shed.

The illustration herewith shows the calla bulb packing shed of A. Mitting, Santa Cruz, Cal.

Mr. Mitting started in the calla bulb business four years ago. He finds after a thorough investigation that the Calla athiopia grows better in Santa Cruz and Monterey counties than elsewhere in California. The small bulbs are sown like peas, in rows 12 to 14 inches apart, and one half inch in the row. When planted the crown is covered with manure to a depth of four inches. It takes 300,000 small bulbs to plant an acre. The bulbs are dug every three years. So far no disease has appeared in the fields in the counties named.

Florists Bulbs

Import Orders Now Booked.
Best Grades Only.
Write For Prices.

W. C. BECKERT,
ALLEGHENY, PA.

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. PEACOCK, Inc.
ATCO N. J.

AZALEAS

Ask our special prices before ordering elsewhere; grown exclusively for us by Eugene Verveat De Vos, Swyneare near Ghent, Belgium. 250,000 fine shaped plants in his own gardens. Address,

JOHN SCHEEPERS & COMPANY
4 & 6 Old Slip, NEW YORK CITY

PANSY

Michell's Giant Exhibition

This is the finest strain of pansies in existence to-day. A grower wrote and told us he bought some elsewhere for \$10.00 per oz. which was not as good as ours for \$5.00 per oz. 50c. per trade pkt., 1/2 oz. \$1.00, \$5.00 per oz.

CINERARIA

Michell's Prize Mixtures

1/2 Tr. pkt. Tr. pkt.
Medium Tall, 60c. \$1.00
Dwarf, 60c. 1.00

PRIMULA

Michell's Choicest Mixture

Combining a wide range of colors, magnificent trusses 1/2 trade pkt., 60c., \$1.00 per trade pkt., 1/2 oz., \$2.00.

Send for our Wholesale Price List for Florists.

HENRY F. MICHELL CO.
1018 MARKET ST., PHILA.



PHOTO BY SHERER SANTA CRUZ CAL.

Calla Packing House of A. Mitting, Santa Cruz, Cal., Showing a Day's Packing

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

J. W. Hill, Des Moines, Ia., president; C. M. Hobbs, Indiana, vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

Consul Felix S. S. Johnson, of Bergen, reports, under date of May 3, 1907, that the importation into Norway of gooseberry bushes, as well as berries, is prohibited by a recent customs law.

Seasonable Notes.

Those unacquainted with the golden-leaved oak, *Quercus concordia*, can have no idea of its beauty in late Spring, when its foliage is fully displayed. The leaves are not partly, but wholly golden, and of a pleasing yellow at that. It loses much of its golden color as Summer progresses.

The maple known in nurseries as *Acer colchicum rubrum*, is worthy of being better known. It has thick, shining leaves, much divided at the margins. The name *rubrum* comes from its newly made shoots, which are of a deep red. It becomes a large, spreading tree in time.

Purple-leaved maples and all other varieties are readily increased by budding, when the bark runs freely, say about Midsummer. *Schwedleri* and *Neitenbachi* are varieties of the Norway and should be budded on it; the purple sycamore on the sycamore; and in all cases using as a stock the species most closely related to the buds.

Scraggy rhododendrons may be made of good shape by pruning them in early Spring. They will break from old wood, but it takes a little time to make specimens of them. It is thought best to head back every shoot when pruning them instead of a shoot here and there, a more regular growth following.

There is nothing better than sand for shoveling in to cover roots. It finds its way into crevices, fitting closely to the roots; and if the roots have not been allowed to become dry life is as good as assured to them. Succeeding the sand, manure or good soil should be applied.

The Carolina Hemlock.

Although the common hemlock grows in North Carolina it is not the one called Carolina hemlock. This one is the *Tsuga carolinensis*, so named by the late Dr. Engelmann, and it is quite distinct from the common *T. canadensis*. The foliage is larger than that of the other, and no one acquainted with the common hemlock would mistake it for this one.

While mentioning its distinct appearance it may be added that even the common hemlock of North Carolina is distinct from that of the North. Instead of the needles lying flat as do those of the northern one they are arranged more around the stem, showing their undersides to some extent, and as the undersides are of a lighter hue than the upper surface the whole bush has a less green appearance than that of the northern ones. It is a fast grower; and while no one would fail to call it a hemlock, those acquainted with the appearance of the common hemlock of the North would recognize it as not being that tree.

Many persons find trouble in transplanting hemlocks successfully, but those who see to it that the roots are never dry from the time of lifting until replanted, and who also are sure the soil clasps closely the roots when filled in, rarely lose these or any other evergreens.

The failure of evergreens to live comes about from neglecting to keep the roots fresh and from the other causes mentioned. An evergreen will succumb to a root-drying that a deciduous tree would survive.

The Fruiting of Wistarias.

When wistarias are in a young state and growing freely, they rarely flower to the extent they do when of mature growth, and this failure is sometimes a source of surprise to those not acquainted with the fact. Some time ago a party wrote to inquire how it was that her wistaria vine though flowering fairly well, did not bloom nearly as abundantly as one in her neighbor's garden, and, more than this, had hardly a seed pod on it later, while her friend's vine was full of them. It is a law governing all plants that flowering and fruiting is only after growth is well nigh completed. There are a number of years to be devoted to growing and developing, and not until this is accomplished can much be looked for in the way of flowering and fruiting. Wistarias are often planted to run up dead or partly dead trees, and in these cases flowering is scant until the tops of the trees are reached, after which it becomes abundant; but it is only when the vines have nothing further to cling to that fruiting sets in earnest. This is well illustrated in the case of wistarias set out as standards. Having nothing to cling to growth almost

ceases in a few years. What shoots are made are short jointed, and these bear flowers and fruit abundantly. It is, really, a grand sight to see a small standard wistaria well laden with seed pods; and it gives a practical lesson in how to secure seeds for sowing.

Hungarian Lilacs.

Under the name of Hungarian lilacs, nurserymen are listing the *Syringa Josike*, *S. Emodi*, *S. Bretschneideri* and *S. villosa*, all apparently closely allied to each other and all flowering in Spring after common lilacs are out of bloom. The *S. Josike* is properly called Hungarian lilac, Hungary being its native country. *S. Emodi* is a Himalayan species, while *Bretschneideri* is but a variety of it. *Villosa* appears but little if any different from *Emodi*. But all these lilacs named are of great value to planters because that they flower after the ordinary kinds have gone out of bloom for the season. Their growth is more upright than that of the

is no more injury from this cause. Owing to the freezing back of the succulent seedlings the first year a good straight shoot does not always follow. To remedy this, the injured shoot should be cut back to within a few inches of the ground, that a strong, straight growth may result, or when Winter approaches, the first season, a protection of some sort should be given. With a strong, straight shoot secured, there is the basis of a tree of good appearance in after years.

In States too cold to allow of the paulownia becoming a tree it is often grown for its tropical appearance. The shoots kill to the ground in Winter, making, however, strong shoots in Summer, and as its leaves are sometimes 18 inches in diameter on such shoots, its appearance on a lawn is attractive and interesting.

Myrica Cerifera.

When looking for evergreen shrubs for planting purposes the *Myrica cerifera* is greatly overlooked. It is a native shrub, often abundant in localities near the seacoast, and growing also in woods inland; but in the latter situation the plants are never as abundant as they are along the seacoast. The one illustrated is a lawn specimen, and it is a vigorous one, though but a few feet high. It is the evergreen character of this *myrica* that constitutes its chief merit for lawn planting, for there are far too few shrubs of this nature sufficiently hardy to withstand our Winters.

The flowers of this shrub are greenish white, and of no particular attraction; but following them are clusters of berries, each of which is thickly covered with a white wax; and when in this fruiting condition the shrub is very interesting to look upon. This waxy substance is an article of commerce, being the basis of the bayberry tallow and because of this, bayberry is one of the plant's common names; but another, wax myrtle, is the one under which it is better known.

Along our seacoasts the wax myrtle is usually found in open places, but to have the foliage of a deep green color it is better that the plants be in partial shade, for when in the full sun the foliage is of a brownish green, not as attractive as is the foliage of those in the shade.

When inquiries come to those who sell shrubs for something that will grow along the seashore—and such inquiries are many—the wax myrtle is always recommended. It is, certainly, good for the purpose, for it is not only at home in such a situation, but it serves so well to catch the drifting sand, so bushy is the growth it makes. Sand collects about them and although hurrying the bushes almost to their tops they do not mind it. It is a common sight to see drifts of sand 12 feet high from which but a few feet of the wax myrtle emerges, or has not been covered, at the top. And where these bushes are birds rest to eat the fruit of wild grapes and Virginia creeper; and the seeds they drop as well as the seeds of other vines and plants cast upon the heaps of sand soon grow and clothe them in masses of green.

There is a smaller growing species of the *myrica*, *M. Gale*, growing inland near ponds and lakes, but it is deciduous. On the Pacific Coast is a large growing one, *M. californica*, which attains to almost tree size. Then there is the one that used to be called *M. asplenifolia*, but now known as *Comptonia asplenifolia*, the sweet fern, the leaves of which are strongly aromatic. As a fact the leaves of all the *myricas* are sweet scented when crushed; and all in all they are worthy shrubs to plant.

JOSEPH MEEHAN.



Myrica Cerifera, Wax Myrtle.

others, their growth slower, foliage larger the leaves being of a shining green. There is a lilac odor to the flowers, but not to the same degree as in the older sorts.

The color of the *Josike* is of a rosy lilac, that of the others cream white, *Bretschneideri* with rather a shade of pink in it.

These lilacs are of a type planters would do well to consider, because of the lateness of their flowering.

These and all lilacs can be propagated from young green shoots made in Spring when the first sappy stage has passed. Placed in a greenhouse they root quickly, and grown on and encouraged through the Summer, nice plants result by Autumn.

Beauty of the Paulownia.

Wherever the paulownia does well it is esteemed as one of the most desirable of June flowering trees. As a rule, every branch bears a panicle of flowers, and as these are as large or larger than those of the trumpet vine, blue, and of delicious fragrance, it possesses more merit than any other tree, or at least any other tree of its season.

Depending on where growing, it blooms either in late May or in early June. Everyone living within a half mile of a tree of it knows when it is in flower if the wind is in the right direction, its perfume is so refreshing.

The paulownia is a Japanese tree, and in the Middle States it is quite hardy. It makes such a strong succulent growth when young that severe freezings are apt to kill it the first season, as they do some of our succulent growing native trees, such as the catalpa, but after a year or two, when the wood hardens, there

SEEDLING APPLES OF MAINE.—Bulletin 143 of the Maine Experiment Station "The Seedling Apples of Maine" is just being sent out. The purpose of this bulletin is to call attention to those varieties of Maine origin which are worthy of wider dissemination; and to record, as accurately as possible, the history of such varieties.

While Baldwin, Greening, and other standard varieties, mostly of New England origin, will doubtless remain for many years the leading market sorts, new and valuable sorts are continually appearing, and these will be most likely to excel near their native home or in their native state. The wholesale injury to orchards by the cold of the past few years is also an incentive to search out the merits of native hardy varieties.

Among the most valuable of the 38 native sorts mentioned in the bulletin, are Deane, Dudley, King Sweet, Rolfe, Starkey and Stowe. Some of those described in pomological manuals are said to be wholly or practically extinct; though at one time of considerable importance.

An effort is making at the Station to collect in a "Maine Orchard" such native seedlings as seem to merit attention, and owners of valuable seedling apples are requested to forward specimens of the fruit for examination.

10,000 American Arbor vitæ,

(THUYA OCCIDENTALIS.)

Each tree grown wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arbor vitæ will. They have been frequently transplanted and are supplied with an abundance of fine fibrous roots. Can be dug and shipped with ball if desired.

3-4 ft. Size	Per 10.	Per 100.
4-5 ft. Size	\$5.00	\$50.00
	7.50	60.00

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Send to us for Ornamental Nursery Stock of all Kinds.

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F. & F. NURSERIES

Wholesale Growers TREES AND PLANTS in full assortment. Trade Catalogue Free

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Grafted Richmond & Wellesley

On English Manetti; immediate delivery, \$10.00 per 100.

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CLEMATIS; AMPELOPSIS; ROSES, field-grown; HYDRANGEA, P. G., Standard and bush-form; PEONIES, IRIS, PHLOX, SHRUBS, VINES, SHADES, and CONIFERS. Price List ready August 15th. Send list of wants for low prices on large orders booked early. Use printed letter-head; we sell to the Trade only.

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10,000 Berberis Thunbergii, 18 to 24 in., \$50.00 per 1000.

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All are 2 year old transplanted, fine, bushy stock. 2,000 Myrtle, nice plants, \$45.00 per 1000. 8,000 choice Dahlia roots for sale, cheap.

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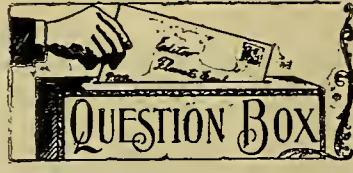
Sphagnum Moss and Cedar Poles
Moss, 5 barrel bale, 21.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Poles, 2 in. batt, 8 ft. long, \$15.00 per 1000; 2 1/2 in. batt, 10 to 12 feet long, \$22.50 per 1000; 1 1/2 in. batt, 5 to 7 ft. long, \$10.00.

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LARGE TREES
OAKS AND MAPLES
PINES AND HEMLOCKS
ANDORRA NURSERIES
WM. WARNER HARPER, PROPRIETOR
Chestnut Hill, Philadelphia, Pa.

Nursery Stock for Florists' Trade
Specialties for Fall
Peonies Evergreens
W. & T. SMITH CO., Geneva, N. Y.

ARISTOLOCHIA SIPHO
Stroog, \$25.00 per 100.
Double Flowering ALMOND, 3 to 4 ft., \$15.00 per 100. Oriental PLANE, 2 to 2 1/2 in., \$125.00 per 100. Seed list of wants for prices. Ask for catalogue.
HIRAM T. JONES, Union County Nurseries Elizabeth, N. J.



(93) FIGS UNDER GLASS.—Would you be kind enough to have William Turner answer a few more of my questions about figs under glass? A year ago I planted my fig trees in the house and this Spring, as he suggested, pinched the shoots at the sixth or seventh leaf; but in most cases instead of figs forming at the axils of the leaves on these shoots, new growths have started. I should like to know whether I ought to rub out this new growth, or should it be allowed to grow? The growth of the end of the branch is the strongest. Would it have been wiser not to have pinched the shoots before the figs were actually formed on the branches?
Del. H. B. M.

—It is rather difficult to answer your question intelligently not knowing the condition of the trees, whether they are growing too vigorously or not, condition of border, etc. There are different causes for the trees not offering to show fruit. The fig tree must be confined to a comparatively small border—not made rich at that—otherwise the trees are apt to go all into wood; at least, until they get thoroughly established and root-bound somewhat. Then again, Winter treatment has a great deal to do with success or failure. Supposing they did not get their proper period of rest; did the trees get a certain amount of frost, were they kept saturated at the roots instead of dry? I do not mean so dry that the wood would shrivel. The fig tree can stand having the border pretty dry and no harm will result, but benefit rather. The aim should be to get the wood thoroughly ripened, otherwise the following season you will get some beautiful long-jointed wood minus the fruit.

The only trouble that I have experienced with our fig house this season was that too many trees had set. But there is no secret in that; it arises from simply paying attention to the trees in Fall and the early part of Winter—that is, ripening up the wood.

If the fig house were a success, you would have your first crop of figs on your last season's wood; then, by pinching again you get your second crop. Where you pinch, at the sixth or seventh leaf, or at the third, should make no difference; in fact, after the trees are established we pinch according to the foliage on them. It is best to avoid overcrowding. After stopping the shoots, of course the trees naturally break away again. If there are more shoots than needed to furnish the trellis; rub off the surplus. One more suggestion: if the trees are growing too strongly, a root pruning next Winter, while they are dormant, would help to produce the desired effect—fruit.
WM. TURNER.

Holland Nursery Stock
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It will interest you
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KOSTER & CO.
Hollandia Boskoop, Holland
Nurseries
Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies
Pot Grown Plants for Forcing
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Trees and Shrubs
Immense quantities, low prices. Price list on application. Peonies a specialty.
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Potted Plants.
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Duke of Marlborough } \$6.00 per 100.
Martha Washington }
Compte de Bouchard }
Prest. Cleveland }
Allemania }
Gladator }
Brandywine } \$7.00 per 100.
Grant Crimson }
Louisiana, \$8.00 per 100.
King Humbert, \$15.00 per 100.
Black Beauty, \$10.00 per 100.
THE CONARD & JONES CO., West Grove, Pa.

Vegetable Plants Cabbage, Winning-
Head, Strang plants, \$1.00 per 1000; \$3.00 per 10,000. Cauliflower, early Snowball, fine stocky plants, \$3.00 per 1,000; in 5,000 lots, \$2.50 per 1,000.
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FISCHER'S GRAND FREESIA PURITY
Will be ready for delivery in July.
PRICES:
1st grade, \$2.75 per 100; \$22.00 per 1000
2nd grade, \$2.25 per 100; \$18.00 per 1000;
250 at 1000 rates.
All orders up to 1000, sent free by mail. Limited quantity of MAMMOTH BULBS, at \$4.00 per 100.
Cash with order from unknown parties.
Rudolph Fischer,
SANTA ANITA, LOS ANGELES CO., CAL.

Our Specialty This Week
PRINCEPS MAXIMUS
First planting size, \$3.50 per 1000.
SEND FOR SAMPLES.
HUBERT BULB CO.
R. F. D, No. 2 PORTSMOUTH, VA.

CANNAS
Two great Gold Medal Cannas.
KING HUMBERT, \$1.50 per doz.; \$10.00 per 100, and MRS. WM. KASTING, \$8.00 per 100. EGAN-DALE and BRANDYWINE, \$6.00 per 100. GRIMSON BEDDER, a superb, handsome bedder, \$5.00 per 100. All the above A No. 1 stock, pot bound out of 3 1/2 in. pots. Cash.
A. CORLIN, Elberon, N. J.

VEGETABLE PLANTS
LETTUCE, Grand Rapids, Big 100 1000 Boston, Boston Market and Tennis Ball, Ready May 1st...\$0.20 \$1.00
PARSLEY, Moss Curled25 1.25
BEETS, Eclipse25 1.25
CELERY, White Plume, Giant Pascal, Golden Heart and other varieties 1.00
EGG PLANTS, N. Y. Improved, small for transplanting25 2.00
TOMATO, Stone, Perfectio, Beauty and other varieties... 1.00
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Vinca Variegata
Strong, from 4-in. pots, \$8.00 per 100.
Double White Geraniums
4 and 5-in. pots, in flower.
Cash or satisfactory reference.
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Hardy Ivy
Only \$5.00 per 100, \$40.00 per 1000
CHAS. H. CAMPBELL
3601 GERMANTOWN AVE., PHILA., Pa.

AMERICAN ASSOCIATION OF NURSERYMEN

J. W. HILL, DES MOINES, IA.

Elected President.

Milwaukee, Wis., chosen as Meeting Place for 1908.

President Harrison in his annual address recommended the establishing of a claim department for the settling of disputed claims between nurserymen as well as with railroad and express companies; he also recommended closer cooperation between nurserymen and their respective state experiment stations in the testing of new varieties. He referred in terms of praise to the horticultural press of this country and the great work it is doing for the nurserymen, urging at the same time the advantage of more live and instructive advertising for the nursery industry.

In regard to advancing prices on stock, President Harrison said:

"My last and most important recommendation to you, is, that we, as nurserymen, should increase the price of our trees and plants in proportion to the increased price in labor and other necessities for growing high grade nursery stock. There has been a demand for cheap trees, and the nurserymen, in their endeavors to meet this demand on the part of planters, have endeavored to furnish a cheap tree. By this we have been in error, and my observation is that the most progressive planters are demanding a higher grade of trees. This will cost the tree grower more money to produce but will also advance the price of his stock; this tendency is encouraging, as the final result will be the production of better stock, which will demand a higher price. Our business does not differ from others; there is more profit in high-grade products, than in low grade. I contend that it is imperative upon nurserymen to produce a higher grade nursery tree, for which an advanced price will be paid, and the present is opportune for emphasizing that feature of our work.

"Has the nurseryman prospered in proportion to other lines of business; if not, whose fault is it? I claim a nurseryman is entitled to as full remuneration as a man in any profession, for no man has to work harder and put in longer hours.

"Fellow-nurserymen, there are many reasons why you cannot grow trees as cheaply as you once did. Are you determined to continue to sell at the same old price? I predict that greater care will be necessary to grow good stock and more rigid inspection will be insisted on in the future. Are you preparing to meet these conditions?

"Let the nurserymen stand together. Let them have confidence and faith in each other; let them know the cost of production and charge accordingly. Let them grow good stock, study the needs of the planters, advise wisely, act conservatively, and above all so conduct their affairs as to bring credit and renown upon a business which is among the most honorable and pleasant, open to intelligent men—that of the nurseryman."

"The Committee on Uniform Inspection, through Professor Craig, its chairman, asked that a representative of the American Association of Nurserymen be elected to co-operate with the representative of the Association of Horticultural Inspectors in pushing legislation before Congress next Winter, which request was granted by action of the convention.

Preparing Nursery Land.

In speaking on the subject of "Preparing Nursery Land," R. G. Chase stated that the land should be plowed in the Fall to a depth of 10 to 12 inches, and again plowed in the Spring if planting is done with spades; where a machine is used for opening the crevice in which seedlings are placed, the compact soil of the late Fall plowing is no objection. He has found it advantageous to fertilize for roses, currants and gooseberries, no matter what the condition of the soil is. Mr. Siebenthaler said that land which had been "tired" should be planted in corn or other cultivated crop for one year in

order to get rid of all roots left in the ground. The next season sow in clover or other grass with a cover crop if necessary. Mr. Mayhew of Texas finds small grain the best to immediately precede a crop of trees, as it is out of the way early and leaves the land clean.

Growing and Grading Apple Seedlings.

In giving his experience with growing and grading apple seedlings, F. W. Watson, of Topeka, Kan., said that their seed is obtained from France, is soaked from five to seven days, planted with a drill, cultivated in rows, and when four or five inches high, brooms are fastened to the cultivators to sweep the rows and keep them clean from insects and worms. Spraying with insecticides begins as soon as the seedlings are seven or eight inches high. Digging commences the last of October,



J. W. Hill,
Pres.-elect American Association
of Nurserymen

a tree digger ten inches wide being used; the seedlings are buried in the field for fifteen to twenty days, after which they are hauled to the grading cellar, where they are graded, tied in bunches and shipped.

E. S. Welch, speaking on the same subject, said that for growing apple seedlings a soil should be selected that has sand enough in it so that it will not form a heavy crust, for it is difficult to get seedlings above the ground with a hard deep crust formed over them.

Growing Peach Trees.

W. T. Hood gave his method of growing peach trees, in brief, as follows: To prepare the bed, plow and smooth up the ground, lay off the beds three feet wide and as long as convenient, dig down about 1 to 1½ inches, spread the seed about two deep, cover about two inches deep, leave until ready to plant, which should be just as soon as some of them commence to crack in early Spring. The ground for growing trees should be prepared by plowing the Fall previous, the top worked up again in the Spring, using the disc harrow, sled or roller, having the ground as level as possible, marking it with a marker to the depth of about two inches, the rows being about 3½ feet apart. The kernels are dropped about every four or five inches, the best results being obtained with seed that is

just opening up. Budding is done from the middle to the last of July, then there is nothing more to be done until the following Spring, when the stocks should be cut off at about the time the buds are commencing to push, down to about ½ inch above the eye of the bud; after they are cut off, as soon as the sprouts commence to push, they are sprouted, requiring about three sproutings and they should be kept growing until they are about 4 to 5 feet high.

Storage of Grape Vines.

E. H. Pratt, of Fredonia, spoke on the storage of grape vines, giving the result of an experiment made in 1901, when boxes of grape vines were kept at a temperature of 33, 34 and 28 degrees Fahr., packed in sun-dried moss, for a period of three months, and on opening were found to be in the same dormant condition, with tops and roots in a perfectly fresh, healthy state. Mr. Pratt stated that he believed all kinds of nursery stock can be safely kept for eighteen months in dormant condition, if stored at the proper temperature, which means four sale seasons in the nursery trade and no loss of stock after it is matured and ready for the market.

Growing Cherry.

On the subject of "Growing Cherry," papers were read by Messrs. W. F. Heikes, of Huntsville, Ala.; J. W. Gaines, of Xenia, O., and Harry D. Simpson, Vincennes, Ind.

Mr. Heikes said that there are imported into the United States from France annually from 10,000,000 to 15,000,000 cherry stocks. Fairly trustworthy figures show that from this number of stocks the output of merchantable trees at two years old, of all sizes, is not more than one-third of the number of stocks planted, and of these not more than one-third will grade 5-8 and up. The first difficulty encountered in cherry growing is in getting a stand. So much depends upon the condition of the plants upon their arrival from France, there being various causes of injury which may happen to them from the time the plants leave the grower in France to the time of their arrival. There is more or less danger of damage from freezing or heating on the way; sometimes the plants are dug too early, or when the ground is too wet, and packed in boxes before they are separated from the mud and properly dried, thus causing a starting of growth in the boxes. In some instances the plants are grown upon land unsuited for their growth, when they suffer in health, quality and appearance.

Mr. Gaines referred to some of the essential features of successful cherry growing. He said the ideal soil for the production of top-notch cherry is a rich loamy clay, with red clay sub-soil underneath six to ten feet below the surface with gravel. Clover plowed down and followed with a crop of corn is a good preliminary method of preparing for the plant. The soil should be thoroughly pulverized and worked up to "garden" conditions. Stocks should be good one year 5 to 8 mm., dug when ripe and kept perfectly dormant until planted. The tops should be trimmed to straight stems and the roots cut back to 4½ inches. Plant as early as the ground can be put in suitable condition; cultivate right along, conserving the moisture with an effectual dust mulch. Budding can be done from July 25 to August 10, sometimes later, according to the condition of the stocks. Tying is an important matter and should be done with carpet warp or white wrapping yarn. The last of February or first of March is the best time to cut off the budded stocks. One year cherry should be pruned in February. Stocks, buds and one year trees should be sprayed throughout the season, using ordinary Bordeaux mixture, five pounds of copper sulphate to fifty gallons of water.

Mr. Simpson stated that their soil was particularly well adapted to the growing of cherry trees, being upland loam with a heavy clay sub-soil. The ground is usually prepared the year previous to setting the mahaleb by planting cow-peas and turning them under in the Fall. No commercial fertilizer is used. Stocks are planted eight inches apart in the row, the rows being three feet eight inches wide. Thorough cultivation is kept up the first season and the stocks often get five to six feet high and ¾ and up in caliper.

Papers on "Growing Ornamentals" were read by Messrs. W. H. Wyman and George C. Perkins.

Storing and Packing Small Fruits.

A paper on "Storing and Packing Small Fruit Plants" was read by W. N. Searf, of New Carlisle, Ohio. He said in part: The growing of small fruit plants is easy, but the packing, care and storage is another proposition. Each class of plants requires different treatment and what would be proper in handling one class is all wrong for some other, strawberry plants being most difficult of all to store and the results very uncertain. Our method for storing strawberries is to pack in shallow cases or flats holding about 2,000 plants each, set the plants on end, using dry moss to pack between each layer. See that the roots of the plants have but little moisture in them, at the same time protecting the roots well from the air that they do not dry out to an extent that injures them. After packing, store the flats in a dry but cool place that will freeze a little, just enough to take up any moisture that may accumulate. They can be held fairly successful in this way for early orders. However, Winter storage is not recommended for the strawberry if possible to avoid it. The next most difficult proposition is the keeping of asparagus roots; here, too, it is necessary to guard against moisture. Store in boxes or barrels that will hold about 2,000 plants each. No packing is necessary except over the top to keep out the air. Store in a dry room with the temperature a few degrees below freezing point. In storing tip raspberries, care must be taken that the roots are matured and the canes well ripened; if possible, they should be dug as late as November 15 to 20. When the roots become dry after digging, they may be packed into tight cases or barrels with a very little dry moss used in packing. Make the cases as nearly airtight as possible by paper lining them. Put a slight weight on the top, so the top layers do not dry out, as they are liable to do if this is neglected. Store the cases in a very dry, cold room, but not exposed to draughts. Blackberries, red raspberries, currants, gooseberries, grape vines and other hardwooded plants we pack in large bins built in our storage cellar. We rick them as we would so much stove wood without packing, then cover the entire bulk with well rotted sawdust which contains a little soil to give it more weight. We are careful to get a layer of several inches of dust around the sides of the rick between the roots and walls of the bins. Then cover the top with about six inches of dust so that all the roots are covered, after this we let in cold enough to freeze the dust solid, even allowing a little frost to creep in to the roots of the plants, thus holding them dormant until ready for use. Our loss in the last four years on good plants at storage time has been practically nothing.

Building a Storage Cellar.

J. M. Underwood, of the Jewell Nursery Co., Lake City, Minn., gave his method of building a storage cellar for nursery stock, his firm having recently constructed a cellar 100x200 feet, in addition to one measuring 57x127 feet constructed over twenty years ago. These cellars are built in a gravel bank, opening to the east, setting back from the brow far enough so that the only space exposed is the doorways. The new cellar is 12 feet in the ground at the sides and ends. The walls are made of stone, the posts are made of concrete and the building is lighted by skylights inserted in the roof. The cost of the entire new building was \$8,530.62.

Various Subjects.

Professor G. G. Hedgcock, United States Department of Agriculture, spoke on the subject of "Apple Crown-Gall and Hairy-Root," illustrating his talk with photographs.

A paper on "Marketing Nursery Stock," by Charles E. Greening, was read by the secretary, and a short talk on the same subject was given by George H. Whiting, of Yankton, South Dakota.

Professor John Craig of Cornell University gave an interesting lecture on "Nurseries of the United States," illustrated by lantern slides of photographs taken by himself during his visits to the various nurseries.

On the question "Shall this Association Attempt to Establish Standard Sizes and Grades of Fruit Trees?" Abner Hoopes said: We are all aware that in some sections the same varieties grow taller and not so large in caliper, while in other sections they grow short-

ROSES = CHRYSANTHEMUMS = BOUVARDIA = COLEUS

OWN ROOT ROSES

2 1/2 in. pots, \$6.00 per 100; \$50.00 per 1,000. **BRIDES, BRIDESMAIDS, RICHMOND, WELLESLEY.**

3 in. pots, \$8.00 per 100; \$70.00 per 1,000. **BRIDES, BRIDESMAIDS, RICHMOND, CHATENAY, IVORY.**

AMERICAN BEAUTY, on own roots, 2 1/2 in. pots, \$8.00 per 100; \$75.00 per 1,000; 3 in. pots, \$12.00 per 100; \$100.00 per 1,000. Ready for immediate delivery.

ASPARAGUS

PLUMOSUS NANUS

2 1/2 in. pots, \$3.50 per 100; \$30.00 per 1,000; 3 in. pots, \$7.00 per 100.

CHRYSANTHEMUMS

WHITE

Early—Polly Rose, Willowbrook, White Shaw, Ivory.

Mid-Season—Miss Minnie Wanamaker, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka, T. Eaton.

Late—Mrs. McArthur, Chadwick, Adelia.

PINK

Early—Glory of the Pacific, Pink Ivory.

Mid-Season—J. K. Shaw, Adela, Mrs. Perrin, A. J. Balfour, William H. Duckham, Dr. Enguehard.

Late—daud Dean, The Harriott.

YELLOW

Early—Monrovia.

Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham.

Late—Major Bonnaffon, H. W. Reiman, Yellow Eaton.

RED

Merstham's Red, Cullingfordii, Matchless. Rooted Cuttings, \$2.00 per 100; \$15.00 per 1,000.

NEWER VARIETIES

From 2 1/2 in. pots, \$6.00 per 100. Rooted Cuttings, \$4.00 per 100. **Beatrice May**, mid-season white. **Mrs. James Marshall**, mid-season pink.

Mayor Weaver, mid-season pink. **Mrs. Swinburne**, late white. **Jeannie Nonin**, late white. **Early Snow**, early white.

Bosier, early pink. **Old Gold**, late yellow.

October Frost, early white. **Mrs. Clay Frick**, (white Duckham), 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100.

BOUVARDIA

Tumboldtii Corymbiflora, from 2 1/2 inch pots, \$5.00 per 100; \$46.00 per 1,000. This is the large white Jessamine flowered. The best variety in cultivation.

COLEUS

VERSCHAFFELII, Golden Queen, Golden Bedder, Fire Brand, Queen Victoria, fancy Coleus in variety, 2 inch pots, \$2.00 per 100; \$15.00 per 1,000.

VERSCHAFFELII, Golden Queen, Golden Bedder, 3 inch pots, \$3.00 per 100.

The above in rooted cuttings 60c. per 100; \$5.00 per 1,000.

STEVIA

2 1/2 in. pots, \$2.50 per 100; \$20 per 1,000. **SALVIA, AGERATUM, HELIOTROPE**, 2 inch pots, \$2.00 per 100; \$16.00 per 1,000.

A. N. PIERSON, CROMWELL, CONN.

er and stouter, so that a tree that is 6 to 7 feet high would be only 5-8 to 11-16 caliper, while the same variety grown in another state would be 3-4 to 7-8 and not over 4 1/2 to 6 feet in height. To avoid the inconvenience caused by such conditions, a standard grade should be established. The only way this could be done would be to select the short growers like the Seckel pear and group them in a section by themselves.

J. H. Dayton spoke briefly on "Need of Co-operation among Nurserymen," and J. W. Hill made a few remarks on "Managing Salesmen."

The following resolution was adopted:

RESOLVED, that the American Association of Nurserymen condemn the Congressional free seed distribution as now conducted, and favor the original provision of the law for the introduction and distribution of new and valuable seeds and plants by the Department of Agriculture.

Election of Officers.

Officers for the ensuing year were elected as follows:

President, J. W. Hill, Des Moines, Ia.; vice-president, C. M. Hobbs, of Indiana; secretary, George C. Seager, treasurer, C. L. Yates, both of Rochester, New York. Executive committee: J. H. Dayton, of Ohio; E. M. Sherman, of Iowa; Henry B. Chase, of Alabama. Milwaukee was chosen as the next place of meeting. E. J.

ROSE PLANTS

2 1/2 in. POT PLANTS 3 1/2 in. POT PLANTS

	per 100	per 1000		per 100	per 1000
Am. Beauty	\$6.00	\$50.00	Richmond	\$5.00	\$40.00
Richmond	2.50	22.50	Bridesmaid	5.00	40.00
Bridesmaid	2.50	22.50	Bride	5.00	40.00
Uncle John	2.50	22.50	Ivory	5.00	40.00
Chatenay	2.50	22.50	Perle	5.00	40.00
Bride	2.50	22.50	Chatenay	5.00	40.00
Ivory	2.50	22.50	Sunrise	6.00	50.00
Liberty	4.00	35.00			
Perle	4.00	35.00			
Sunrise	5.00	40.00			

KILLARNEY

2 1/2 inch pots, Grafted Stock \$12.50 per 100.

One Year Old Bench Plants, **Bridesmaid, Bride, Chatenay, Ivory, Uncle John, Sunrise and Perle**, \$5.00 per 100 \$40.00 per 1000.

Chrysanthemums

2 1/2 in. POT PLANTS

WHITE		YELLOW	
	per 100		per 100
Chadwick	\$2.00	Golden Chadwick	\$2.50
Estelle	2.00	Yellow Eaton	2.50
T. Eaton	2.50	Col. Appleton	2.00
PINK		RED	
Dr. Enguehard	2.00	Black Hawk	2.00

Peter Reinberg
51 Wabash Ave. CHICAGO

TWO-YEAR-OLD American Beauty Plants

\$50.00 per 1000

CHICAGO CARNATION CO., Joliet, Ill.

LOOK HERE

Grafted rose plants, 2 1/2 and 3 in. pots, \$12.00 per 100; \$100.00 per 1000. **Brides, Bridesmaids, Killarney, Richmond.**

Brides, Bridesmaids, own roots, 3 in., \$6.00 per 100; \$50.00 per 1000.

JAMES E. BEACH, 2019 PARK AVENUE BRIDGEPORT, CONN.

PLANT CULTURE

The Best Book for the Plant Grower \$1.00

A. T. DE LA MARE PTG. & PUB. CO. LTD., 2-8 DUANE STREET, NEW YORK.

Own ROSES 1 & 2 Root Year

Strongly rooted, well ripened plants from early Summer propagation in prime condition.

2 1/2 inch pots. \$2.50 per 100; \$22.50 per 1000; **Bride, Bridesmaid, Ivory, Kruger, Marie van Houtte.**

\$2.50 per 100; \$25.00 per 1000; **Baby Rambler, P. & W. Cochet, Gontier, Mrs. de Vairy, Marie Guillot, Battersae, Topitz, Lamazone, Solfatara, W. A. Richardson, P. W. & Y. Ramblers.**

\$3.00 per 100; \$25.00 per 1000; **P. W. & Str. La France, Bessie Brown, Chatenay, Marechal Niel.**

\$3.00 per 100; \$30.00 per 1000; **Kaiserin, Carnot, Sunrise, Charta, Clio, Diesbach, Jacq., Lyonnaise, Plantier, Rohan.**

\$3.50 per 100; \$35.00 per 1000; **Bonstetten, Laing.**

\$4.00 per 100; **M. Dickson, Jubilee, Mousseline.**

\$10.00 per 100; **Etoile de France.** 4 inch pots. **Charta, Clio, Diesbach, Laing, Lambelin, Neyron, Cr. Rambler, P. Queen, Belle, Fern, Belle, R. Cottage, Solfatara, Gc. Baby Rambler, Sc.**

COLEUS, Golden Bedder, 2 1/2 inch pots, \$2.00 per 100; \$15.00 per 1000. Quick shipment; correct packing; true labels.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD-OHIO.

ROSES

A few thousand in prime condition, own roots, 3 1/2-in. pots; will close them out, \$6.00 per 100. Grafts all sold.

P. R. QUINLAN, Syracuse, N. Y.

ROSES Selected 2 1-2 inch stock for immediate planting. \$3.00 per 100; \$25.00 per 1,000

Bridesmaid, Bride, Richmond, Mme. Chatenay, Golden Gate, Uncle John, Ivory, Gen. McArthur, Perle des Jardins.

ROCKFORD SEED FARMS FOREST CITY GREENHOUSES

H. W. BUCKBEE, Rockford, Illinois

ROSES

American Beauty, 3 1/2 in. \$6.00
Bridesmaid and Bride, 3 1/2 in. \$6.00
Cash or C. O. D. unless known.

BRANT & NOE FLORAL COMPANY, W. Peterson & N. 48th Avs., Chicago, Ill.

ROSES

BRIDE, BRIDESMAID, RICHMOND, strong, healthy stock, 3 in., ready to plant, at \$5.00 per 100.

GEO. E. CAMPBELL, Flouertown, Pa.

A RECORD TO BE PROUD OF

The Florists' Hall Association has paid 1,040 losses amounting to \$102,000.00 For particulars address

JOHN C. ESLER, Sadale River N. J.

GRAFTED ROSES

On English Manetti Stock

3 in. pots; A No. 1 plants.

Chatsnay \$10.00 per 100
Wellesley \$12.00 per 100
Kaiserin \$12.00 per 100
Moulton

Own roots, from grafted stock, 3 in. pots.

Moulton \$6.00 per 100
Kaiserin \$5.00 per 100
Wellesley \$5.00 per 100
Brides
Maids

Chatenay, 3 in. pots, \$5.00 per 100.

S. J. REUTER
WESTERLY, R. I.

ROSES

For June delivery, strong, healthy plants. Cash with order.

300 **American Beauty**, 4 in. pots, \$8.00 per 100. 2200 **Richmond**, 4 in. pots, \$6.00 per 100; \$60.00 per 1000. 1700 **Brides**, 4 in. pots, \$5.00 per 100; \$40.00 per 1000.

ALFRED P. SMITH, Madison, N. J.

Grafted Bridesmaids

or best English Manetti, 2 1/2 and 3 1/2 in. pots, \$10.00 and \$12.50 per 100. A few 2 1/2 in. Brides left at \$10.00.

Montrose Greenhouses, MONTROSE, MASS.

ROSE PLANTS

Maids, Brides, Kaiserin, Gates, Uncle John, Rosalina Orr English, Chatenay, from 2½ in. pots, \$4.00 per 100; \$35.00 per 1000; from 3½-in. pots, \$6.00 per 100; \$55.00 per 1000.

Richmond, from 3½-in. pots, \$6.50 per 100; \$60.00 per 1000.

American Beauties, from 2-in. pots, \$5.00 per 100; \$45.00 per 1000; from 2½-in. pots, \$6.00 per 100; \$50.00 per 1000; 3-in. pots, \$7.00 per 100; \$60.00 per 1000.

Benched Beauties. Elegant stock for planting, 6.00 per 100; \$45.00 per 1000, for two weeks only.

CHRYSANTHEMUMS

One hundred and fifty thousand Rooted Cuttings and 2 1-2 in pot plants.

	WHITE.			
	R. C. per	2½-in. per	100	1000
Touset	\$3.50	\$32.00	\$5.00	\$
Kalb	2.00	17.50	2.50	22.50
Madam Paul	5.00	45.00	7.00	65.00
Robinson ..	2.00	17.50	2.50	22.00
Alice Byron.	2.50	22.00	3.00	27.50
Adela	2.00	17.50	3.00	27.50
Crawford ...	2.00	17.50	2.50	22.00
Eaton				
Timothy ..	2.50	22.00	3.00	27.00
White				
Bonnaffon	2.50	22.50	3.50	30.00
Chadwick ...	2.50	22.00	3.50	30.00
Jeanie Nonin	3.50	32.00	5.00	
Merry				
Christmas	2.00	17.50	2.50	22.50
Shrimpton ..	2.00	17.50	3.00	27.50
Intensity ..	2.00	17.50	3.00	27.50

YELLOW.				
	R. C. per	2½-in. per	100	1000
October	1.00	10.00	1.00	10.00
Sunshine	2.00	17.50	2.50	22.50
Halliday ...	2.00	17.50	2.50	22.50
Col. Appleton	2.50	22.00	3.00	27.50
Yellow Eaton	2.50	22.50	3.00	27.50
Bonnaffon ..	2.00	17.50	2.50	22.50
Golden				
Wedding	2.75	25.00	3.50	30.00
Chautauqua	2.50	22.50	3.50	30.00
Gold	2.50	22.50	3.50	30.00
Rieman	2.50	22.50	3.50	30.00
Monrovia ...	2.50	22.50	3.50	30.00
PINK.				
New Rosier.	4.00	35.00	5.00	45.00
(best early pink)				
Shaw	2.50	22.50	3.50	30.00
McNiece	2.50	22.50	3.50	30.00
Ivory ..Pink	2.00	17.50	2.50	22.50
Ferrin	2.00	17.50	2.50	22.50
Dr. Engue-				
hard	2.50	22.50	3.50	30.00
Maud Dean .	2.50	22.50	3.50	30.00

POEHLMANN BROS. CO.

1,000,000 FEET OF GLASS

Send Cut Flower Orders to

Send Plant Orders to Greenhouses,

35 Randolph St., CHICAGO

Morton Grove, Ill.

ROSE PLANTS

OWN ROOTS

RICHMOND, 3 in. pots, per 100 \$8.00

BRIDES, 3½" pots, per 100 6.00

BRIDESMAIDS, 3½ in. pots, per 100 6.00

Not Surplus Stock—Grown to Sell

The LEO NIESSEN CO. 1217 Arch Street, PHILADELPHIA

FOR SALE CHEAP Brides, Bridesmaids, Meteors and Chatenay rose plants own roots from 2½ in. and 4 in. pots. Also 700 Chatenay one year old from bench.

BRANT BROTHERS

Ufica, N. Y.

Jensen & Dekema CARNATION SPECIALISTS

674 W. Foster Ave., CHICAGO.

S. J. GODDARD Framingham, Mass.

Rooted Carnation Cuttings a Specialty. Correspondence Solicited.

CARNATIONS FROM POTS

5000 The Queen, \$2.50 per 100; 500 Flamingo, \$2.50 per 100; 300 Lady Bountiful, \$3.50 per 100.

CANNAS, unnamed, 3-in., \$2.00 per 100; 4-in., \$4.00 per 100; GERMAN IVY, 2½-in., \$2.00 per 100; ASPARAGUS Sprenger, 3-in., \$4.00 per 100. Cash with order.

S. G. BENJAMIN, Fishkill, N. Y.

JOHN E. HAINES

The Originator of three varieties:

	100	1000
John E. Haines Carnations.....	\$ 6.00	\$ 50.00
Imperial	12.00	100.00
Pink Imperial	12.00	100.00

Headquarters at Bethlehem, Pa. Orders taken now for field-grown plants at same price as for rooted cuttings. JOHN E. HAINES, Bethlehem, Pa.

THE WEEK'S WORK.

Timme's Timely Teachings.

Cycas revoluta.

Cycads, unlike palms proper, unfold and complete within the short period of less than a month their entire season's growth in leaves, thus forming a new crown all at one time. Fine old specimens under careful conservatory treatment, well furnished with roots and firmly established in their tubs, usually are quite regular in their production of yearly crowns, pushing forth a new cluster of leaves every Spring from the center of the old one, this latter being pushed aside and downward in the process and often retaining its spotless green color for several seasons. Thus a cycas with a globular, dense and perfectly symmetrical crown becomes a truly beautiful object, highly interesting to many and of considerable value in all attempts at decorative effects.

Considered, however, as purely commercial stock, we must deal in the main with the stems as yearly imported in varying sizes and sold by weight. These stems, though bare of foliage and roots when they arrive, are brimful of dormant vitality, awaiting its opportunity for a re-awakening into active life in response to proper treatment.

In planting imported dormant cycas stems we use pots or tubs much smaller as to width than the size and hulk of the stems would seem to warrant, but look to a comparatively great depth. A good inch of space all around the stem for the ramming in of the soil used in planting, is all sufficient for stems of from four to nine pounds in weight and tolerably straight. A compost somewhat heavy in texture and containing a fair amount of lasting but easily soluble plant food, such as dry or partly decomposed cow manure or crushed bone, will be found to give good results in cycas culture, by which abundant root action and the formation of durable, heavily leaved crowns at regular intervals is understood.

With newly imported stems the grower should first induce root formation before attempting to force out a crown of leaves. Bottom heat and a temperature unreasonably high are favorable to premature top growth, a growth practically worthless, lacking in size, substance and depth of color. Given time in an ordinary warm house, the cycas will be slower in pushing forth a new crown, but having been allowed to form roots these will take an active part in crowning the plant with a vigorous, durable and finely colored top growth. This new growth, while slowly unfolding, must be guarded against bright sunshine by shading, must frequently be sprayed and the soil about the roots kept constantly in a fairly moist condition. The fronds or leaves should first be allowed to attain full size and firmness before a cycas is subjected to hardships such as plants of that character must of necessity undergo at times when banded by or hought from the commercial florist.

Dracæna terminalis.

Nowadays small or medium sized dracænas are so largely made use of in the better class of effective plant arrangements for indoor adornment, and they have proven themselves to be such good, durable and easily managed house plants, that florists have come to consider them indispensable stock for which ample provision must be made every year. None of the many varieties, old or new, as now under cultivation, surpasses *Dracæna terminalis* in point of subtle beauty, stately bearing and manifold utility.

But whether or not *Dracæna terminalis* is fully entitled to a foremost place among decorative plants depends in great part on how far the cultivator was enabled to call forth highly effective color variegation in its foliage. Under ordinary modes of culture this intermingling of harmonious tints, from richest purple to brightest red, is but sparingly or indistinctly displayed on the deep green leaves, sometimes entirely wanting. On the other hand, such violent measures as exposure to bright sunlight, an over-dry air, restricted root room, scanty nourishment or anything tending to put a halt to a normal headway in growth, should, for this very reason, not be employed as means to bring about fine coloring of foliage. Variegation, to be truly beautiful—in this instance at least—should not be an indication of impaired vigor or reduced vitality. It is an attribute not dependent on loss or lack of vital energy, but one whose charm is heightened by and, in fact, inseparable from health and luxuriance in growth.

The finest colored plants of *Dracæna terminalis* are obtained by close attention to what constitutes good culture and this especially during the Summer season. Good drainage in the bottom of the pots for large sized specimens and a kind of soil that comes nearer to being heavy than light or sandy, but which at all times should be porous and fairly rich, keeps them in fine shape for an indefinite time. Under the lightly shaded sashes of a hothed, still supplying heat from underneath and easily managed as to the proper amount of ventilation, young stock grows and colors splendidly. Where large numbers of small or handily sized plants of this useful variety are grown to supply the steadily increasing demand for this class of stock throughout the country, very much may be accomplished with greatly reduced expenses in the growing by bench culture during the Summer. Planted at right distances each way into a nice and pretty rich grade of soil, well cared for as to watering, ventilation, light and sprinkling, the plants make a wonderfully fine growth and usually show a superbly colored foliage by the time they are again potted up. In the lifting and potting it is well to avoid as much as possible any breaking or mutilation of the younger roots lest the loss of some of the lower leaves will be the consequence. If bottom heat at that juncture is available, the shift will cause hardly any break in growth.

Callas.

From about now until the middle or end of August is the season of rest for callas. Water must be withheld and the bulbs be dried off and ripened or "cured." This is necessary if bulbs, meant to produce flowers under glass from last Fall until now, are relied upon as good stock in the replanting for the coming season. Bench grown callas, now fairly exhausted, may be lifted with as much soil as will adhere to the roots and the clumps placed anywhere either indoors or out of doors where a complete drying off is not interfered with by drip or rain. Potted callas can remain in their pots, these to be put under some dry bench or laid on their sides out of doors.

By the first or second week in August a pushing of new growth is observed from the crown of all bulbs thus rested that are sound. Any not in that condition, flabby or spongy to the touch, or attacked in spots by decay, are not worth bothering with. A hard, perfectly sound bulb, on the other hand, especially one not overgrown in length but short, thick and stubby with a big and plump new crown growth, is, in my opinion, the best kind of calla root for either bench or pot culture, whether carried over from last year or found among a lot of newly bought roots.

CARNATIONS

Field Grown Plants, Rooted Cuttings and Pot Plants in season

SMITH & GANNETT, GENEVA, New York.

MABELLE

Grand New Pink Carnation for 1907. A few thousand R. C. and pot plants still left. Order quick. This variety is a money maker.

Price of rooted cuttings, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000. Price of pot plants, 2½ inch, \$3.00 per doz.; \$15.00 per 100.

THE H. WEBER & SONS CO., OAKLAND, MO.

CARNATIONS

F. DORNER & SONS CO.

LAFAYETTE, IND.

Auction Trade Sale

As usual, will close the season, Tuesday, June 25, at noon, at which time we will offer a General Line of Stock suitable for Florists to grow on.

CATALOG NOW READY

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

In August when calla roots are ready for a new start the old earth is shaken from them, dried leaves and offsets are removed and a repotting into fresh, good soil takes place. The pots should remain outdoors for fully a month after that and even longer if white frosts and cold stay away, for during this period the calla seems to lay in its principal amount of strength for future endurance. Those intended for bench culture should, therefore, be started in like manner and planted out of pots into the bench when a strong, sturdy growth has already made some headway.

Some growers—many in fact—do not believe that there is anything at all saved or gained by carrying over old calla roots from year to year. They stock up anew every season with fresh bulbs or roots from California, which arrive here in August and September. This, perhaps, is the better and in many instances certainly the safer course to follow. Slim are the chances for success if based on a risky beginning.

Chrysanthemums.

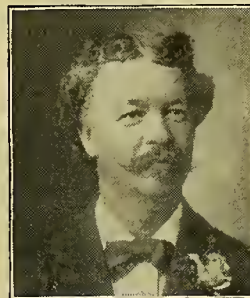
The late and ordinary run of commercially grown stock permits of being benched as late as the end of next month and there will still be much doing for weeks in the way of repairing benches, the preparation and carting in of soil and the planting of chrysanthemums. But where the grower aims at exceptionally fine results, pins his faith in profitable chrysanthemum culture on what he may be able to accomplish in the growing of the best grades of high priced blooms, or where the main object is the desire to excel at our Fall exhibitions, it is high time that the young stock, intended to be grown with these ends in view, be planted in the benches. At the end of June, or at the latest by the tenth of July, all the better class of commercial chrysanthemums and those especially grown for exhibition purposes should be benched and well forward in taking to the soil.

The soil for chrysanthemums is usually no other than what has been found to give best results in all other kinds of mass culture for the purpose of raising as fine flowers and as large a number of them as possible on a given space. The compost used for roses, for example, cannot well be improved upon when taken for chrysanthemums. It should be firmly pounded or tramped down in the bench before and also after the plants are set out. For tall and robust growing varieties six inches of well firmed soil is none too deep. Sufficient head room for perfect development of stem and flower must be the first consideration in choosing a bench for the tall growing sorts. From eight to ten inches is the right distance between plants in the bench grown to single stem with a little more room for those grown to two or three flowers. Only selected young plants from 2, 2 1/2 or 3-inch stock should be used in stocking a bench. Not only should sorts, early and late, be planted separately, but also plants from one and the same variety, showing a difference in growth and vigor among themselves, should be divided into several lots and each one kept by itself, when planted into benches.

ROOM!

We want to place our Importations of **ARAUCARIAS, PALMS, RUBBERS, etc.**

Therefore we now sell our surplus stock of **Bedding Plants** at Cracker-Jack low prices.



GERANIUMS, 12 best, leading varieties, 8 new kinds, large plants, mixed or named. 4-in. pots, \$6.00 per 100.

AGERATUM, dwarf, best blue variety, 4 in. pots, \$6.00 per 100; 2 1/2 in., \$3.00 per 100.

BEGONIA Gloire de Lorraine, 3-in. pots, raised from leaf cuttings, \$2.00 per doz.; \$25.00 per 100.

HELIOTROPES, 4 in. pots, \$6.00 per 100. **NASTURTIUMS**, dwarf, all colors, \$5.00 per 100; 3 in., \$3.00 per 100.

FUCHSIAS, mixed, good varieties, 6 to 6 1/2 in. pots, 15c. to 20c. each; 4 in. pots, \$1.20 per doz.

CANNAS, 10 good varieties, 4 in. pots, \$7.00 per 100.

MUSK PLANTS or **MIMULUS MOSCHATUS**, 2 1/2 in., \$3.00 per 100.

PETUNIA, single California giant, ruffled or blotched, 3 in. pots, \$4.00 per 100. **Star Inimitable**, 2 1/2 in. and 3 in., \$2.00 per 100.

VERBENAS, all shades, 2 1/2 in. pots, \$2.00 per 100.

COLEUS, Queen Victoria, Golden Bedder, Verschaffeltii. Mixed, 2 1/2 in. pots, \$3.00 per 100.

PHLOX DRUMMONDI, 2 1/2 in. pots, \$3.00 per 100.

IVY, English or hardy, 12 in. long, 4 in. pots, \$8.00 per 100. **IVY**, German or Parlor, 2 1/2 in. pots, \$3.00 per 100.

CUPHEA or **CIGAR PLANT**, 2 1/2 in. pots, \$2.00 per 100.

LOBELIA, dwarf or trailing, 2 1/2 in. pots, \$2.00 per 100.

SWEET ALYSSUM, Little Gem, have 10,000 of them, 2 1/2 in. pots, \$3.00 per 100.

MARIGOLD, Eldorado Africana and Gold Ring, dwarf, 3 in. pots, \$4.00 per 100.

COSMOS GRANDIFLORA, white, red or pink, three plants in 8 1/2 in. pot, separate colors, \$3.00 per 100.

NEPHROLEPIS elegantissima, 4 in., strong enough to shift into 6 in. and 7 in., 25c. each.

PYRETHRUM aureum (Golden Feather), for edging, 2 1/2 in. pots, \$2.00 per 100.

THUNBERGIA or **BLACK-EYED SUSAN**, 2 1/2 in. pots, \$3.00 per 100.

MAURANDYA BARCLAYANA, 2 1/2 in. pots, \$4.00 per 100.

ARAUCARIA ROBUSTA COMPACTA, Spring 1906 importation. Have about 300 of this variety, only specimens, perfect tiers. Adapted for the lawn, front porches, cottages, hotels, etc. 7 in. pots, 4-6 tiers, 5 year old, 20 to 28 in. high, as broad as long, price, \$1.75-\$2.00-\$2.50 to \$3.00 each.

ARAUCARIA GLAUCA, large specimens, 6 year old, 36 to 40 in. high, 36 to 40 in. wide, 5 to 6 tiers, \$3.00-\$4.00-\$5.00 each.

ARAUCARIA, new importation. First consignment about 5,000, arrived (Saturday, May 4), per steamer "Manitou" from Antwerp, and thereafter by every steamer up to June 1. Araucaria Excelsa, in their original packing, left plants in pots, 3 tiers, 10 to 12 in. high, 60c., larger sizes, 60c.-75c.-\$1.00 to \$1.25 each. **Robusta, Compacta and Glauca** from \$1.00-\$1.25 to \$1.50 each.

COCOS WEDDELIANA, 3 in. pots, 16 to 18 in. high, 15c. to 20c. each.

ASTERS, Enchantress, new, large blooming varieties, 3 in. \$4.00 per 100. **Victoria**, 8 shades, separate or mixed, \$3.00 per 100.

Cash with order please.

All goods must travel at purchaser's risk.

POINSETTIAS

June delivery. 2 1/2 in., \$5.00 per 100; \$45.00 per 1000; 3 in., \$7.00 per 100; \$65.00 per 1000.

FUCHSIA, Little Beauty, 2 in., 4c.

FERNS, Boston, 2 1/2 and 3 in., 4c., and 8c., **Pieroni**, 3 in., 8c., **Scotti**, 2 and 6 in., 8c. and 25c., **Barrowsii**, 3, 4 and 5 in., 8c., and 25c. **ADIANTUM CROWEANUM**, 6 and 7 in., 50c. and 75c. **DRACAENA INDIANA**, 5 and 6 in., 20c. and 30c. **ASPARGAGUS Sprengeri**, 3 in., 4c. **GERANIUMS**, in bloom, Standard varieties, 3 and 4 in., 5c. and 8c. **SALLEROI**, 3 in., 4 c. **ALTERNANTHERAS**, Aurea Nana and Brilliantissima, 2 1/2 in., 2c. **CENTAUREA Gymnocarpa**, 2 1/2 in., 2c. 1000 rate on this 2 1/2 in. stock, \$17.50.

ROSES for benching. **Brides**, **Bridesmaid**, **Golden Gate** and **Ivory**, own roots, 3 in., 4c.

BAUR FLORAL CO.

ERIE, PA.

A FEW GOOD THINGS YOU WANT

Cash with order.

Asparagus Plumosus, 2 in., \$2.00 per 100; 3 in. \$5.00 per 100.

Asparagus Sprengeri, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.

Geraniums, S. A. Nutt, John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; 3 in. \$5.00 per 100. **Rooted cuttings**, \$1.25 per 100; E. H. Trego, Castellane, Potevins and Viand, 2 in. pots, \$3.00 per 100; 3 in. \$5.00 per 100.

Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100.

Scottii Ferns, 5 in., 30c. each.

Vines Varr., 2 in., \$2.00 per 100.

Gladioli, blooming bulbs extra fine mixture, to close out while they last, 60c. per 100; \$6.00 per 1000.

Heliotrope; Coleus, red and yellow; **Cigar Plants; Alternanthera**, red and yellow; **Verbena; Scarlet Sage**, Bonfire, 2 in., \$2.00 per 100.

Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s properly packed in good order.

Geo. M. Emmans, NEWTON, N. J.

SURPLUS STOCK

- 5 in. S. A. Nutt, \$20.00; 3 in. Ricard \$6.00
- Ivy Geraniums, 2 1/2 in. 7.00
- Salvia, 4 in. \$8.00, 2 1/2 in. 2.50
- Sweet Alyssum, Little Gem, 2 1/2 in. 2.50
- Alternantheras, red, pink, green, 2.50
- Caladiums, 4 in., per 100, \$10.00; 5 in. 15.00
- Heliotrope, 3 in., \$6.00; 4 in. 8.00
- Echeverra Metallica, fine, large 5 in. each 2.00
- M. Sallerol, 2 1/2 in., \$2.50; 3 in. 6.00
- Coebe Scandens, 3 in. 6.00
- German Ivy, 2 1/2 in. 2.50
- Coleus, 2 1/2 in. 2.00
- Fennistum 2.50
- Santolina, 2 1/2 in. 2.50
- Artillery Plant 4.00
- Roses—Brides and Bridesmaids, 2 1/2 in., \$3.50; Chateau, Golden Gate, 2 1/2 in., \$4.00; Richmond, 2 1/2 in. 3.00

CHRYSANTHEMUMS

100 S. T. Wright, 600 Dr. Enguehard, 500 Wm. Duckham, 150 Lady Harriet, 80 Et. Bonafond, 200 Halliday, 2 1/2 in. and 3 in. 2.50

Cash or C. O. D.
W. J. & M. S. VESEY, Fort Wayne, Ind.

GODFREY ASCHMANN,

Importer, Wholesale Grower and Shipper of Pot Plants,
1012 West Ontario St., Philadelphia, Pa.

And, finally, there is nothing so helpful to the good grower in his efforts to gain success with whatever variety he may have under his care, as an abundance of both light and fresh air. Any house in which chrysanthemums are to be grown to perfection should be amply provided with means for ventilation and be one of the best lighted in the range.

Potted chrysanthemums, to be grown and trained for the exhibition in the Fall, should now be well enough forward for their last shift. The final transplanting of standard and multi-

branched specimen plants should be over with by the second week in July. The pots, usually from 9 to 12 inches in size, must be carefully provided with a bottom layer of well-working drainage material, and the soil used should be rich in plant food. Staking, tying and cutting in must still be continued.

From now until the end of July cuttings taken from dwarf, short-jointed varieties may be rooted and grown into low, single-stemmed potted plants by Fall. These are good stock when well done.

FOUNDED IN 1888



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Seedsmen and the Trade in General

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

President Harrison on the Horticultural Press.

In his address at the Detroit (Mich.) meeting of the American Association of Nurserymen, President Orlando Harrison referred to the horticultural press as follows:

The horticultural papers of the country are doing a great work for the nurserymen. They are the text books for the prospective fruit grower, and the nurserymen should get in close touch with the editors and show them just what we are trying to do for the fruit grower, that they may better understand what difficulties we encounter to grow a good, sound, merchantable tree.

It is through the press we learn of the successful peach orchards of the South, the apple orchards of the West, and the great opportunities that have been overlooked in the Northern, Eastern and New England States.

I contend it is the duty of an editor to know something about the firm he is advertising in his columns, that when asked about them he can answer questions more intelligently. He should, if possible, visit the various nurseries with whom he is doing business, then he is in a position to help his customers.

The nurserymen are the poorest advertisers of any great industry and it is our own fault.

There is more real live, instructive, interesting advertising that can be gotten up, showing the many advantages the nursery interests are to a town, county or State, and the Government than in any other business that can be named. Our whole life work is a creation of the germs of horticulture, and our experience is the guide to cultivation and the foundation of prosperity. A true nurseryman is a genuine public benefactor, and because I consider it one of the choicest professions I would not exchange my occupation for any other; but I believe in order to attain the greatest success we must learn to help others.

What a small part of this country is utilized for fruit growing according to its possibilities. I am sure there is not a nurseryman here who cannot point out great opportunities for fruit growers; these opportunities must be made known to the millions of city people who are anxious for a country home.

If nurserymen will get closer to the editors of fruit and farm papers, inform them how we bend our energies to serve the fruit grower, and how certain enthusiastic, energetic fruit growers are succeeding it will inspire others to do likewise.

A NATIONAL SHOW FOR AMERICA.—We note that efforts are being made to arouse a sentiment in favor of a really National Horticultural Show in America. We wish the movement every success as exhibitions of this nature, if not too frequent so as to become common, have a most stimulating effect, and must in the long run be a benefit to all those who live by any branch of horticulture.—Horticultural Advertiser, England.

The Southern Florist, a monthly, has resumed publication, with offices at Poulan, Ga.

BOOKS RECEIVED.

THE BOOK OF WATER GARDENING, By Peter Bisset, Twin Oaks, Washington, D. C. Publishers, A. T. De La Mare Printing and Publishing Company, Ltd., New York. Price, postpaid, \$2.50.

This is a handsomely gotten up volume, and delightful in every other way, giving, as it does, in full detail all the practical information necessary to the selection, grouping, and successful cultivation of aquatic and other plants required in the making of a water garden and its surroundings, and covering all conditions from that of the amateur with a few plants in tubs to those of the large estate or park. It is profusely illustrated with 120 half tones, 17 diagrams and two double page plates, all of which were specially prepared for this work.

The taste for the cultivation of water lilies, both in this country and abroad, is a growing one, and Mr. Bisset's work comes at an opportune time, to meet a demand for practical information and instruction on the subject. The author is certainly well qualified for the task he has undertaken and carried out in such a splendid manner, he having been a devoted student of this class of plants for many years, and having under his charge at the present time one of the most complete water gardens to be found in this country.

There are in all some 22 chapters, dealing with the different phases of water gardening. Particularly instructive is the chapter devoted to ponds and basins, the securing of which forms the basis for successful aquaculture and regarding the construction of which the available information heretofore has been somewhat meager.

No less fully have the chapters dealing with the planting of the banks and borders of ponds been treated, the various subjects suitable for this purpose being described in full, and not mere enumerations or lists provided. An especially interesting part of the volume is the chapter devoted to Gold and Other Fish for Ponds, these attractive adjuncts to the water lily garden—something that has received but scant attention in previous volumes of this character, nevertheless deserving of all the space which Mr. Bisset has devoted to it in the present work.

As regards the treatment of the various nelumbiums, nymphaeas, and other water plants, we need only say that the author has omitted nothing that should or could be known in a cultural way with respect to these. And the greater value attaches to that which he vouchsafes inasmuch as it reflects the results of actual practical experience gained in many years' work among the plants in question.

To a large number of our readers, a chapter that will most forcibly appeal is that devoted to the Commercial Cut Flower Grower. In this chapter Mr. Bisset tells how to make the ponds, how to treat the plants, and furnishes a list of varieties best adapted for the decorative purposes of the florist.

In his preface the author says that what he has written is designed to supplement rather than to supplant what has previously been so ably presented on the subject; and that his aim has been to produce a volume that will form a working *vade mecum* to all interested in this class of garden subjects. That he has in each of his desires succeeded admirably, we think will readily be admitted by all into whose hands the book may fall. The typographical work is excellent, and the numerous beautiful halftone engravings and other illustrations enhance the pages to a marked degree, the whole entitling the volume to a prominent position on the library table of the most fastidious booklover.

BEAN CULTURE.—By Glenn C. Sevey, associate editor American Agriculturist weeklies. 144 pages. Cloth. Price 50 cents. Publishers, Orange Judd Company, New York.

This book takes up in a logical way and explains in simply language all the details incident to the production of a maximum crop of beans at a minimum expense. The widely separated accounts of certain phases of the industry are all brought together and put in a form to be at once available to the practical grower. The subject matter considered includes history, development, different species, cultural methods of preparing seed-bed, planting, fertilizers, cultivation, remedies for insect and fungous pests, varieties and where they succeed, etc., etc. A whole chapter is given over to the consideration of the nitrogen-gathering properties of the bean plant. The question of soil inoculation is given in detail. A special chapter on markets and marketing is provided and there is likewise a special chapter on garden beans. The book is freely illustrated. Conclusions from experiments conducted in America and all parts of the world will be found digested and given in a nutshell for the benefit of those interested in the bean plant and who wish the best complete and final information on the subject.

TOMATO CULTURE.—By Will W. Tracy, of the United States Department of Agriculture. Illustrated. 148 pages. Cloth, 50 cents. Publishers, Orange Judd Company, New York.

This is a practical treatise on the tomato which includes its history, characteristics, methods of planting, fertilization, cultivation in field and greenhouse, points about harvesting, packing, storing, and marketing, as well as the most complete account of the insects, enemies and diseases which attack tomatoes, and remedies for their control that has ever been written. The author has made a life-long study of this important vegetable, and has here embodied, for the first time, a complete story of his experiences.

Because of the increasing popularity of the tomato for general and popular use, this book is especially timely and important. It deals with every phase of the subject. Includes chapters devoted to the home garden, hothead, greenhouse, and large areas for commercial purposes. Every detail is treated under the following heads: Botany; history; general characteristics; essentials for development; selection of soil for maximum crop; exposure and location; fertilization; preparation of the soil; hothead and cold-frames; starting plants; proper distance for planting; cultivation; staking, training and pruning; ripening, gathering, handling and marketing; adaptation of varieties; seed breeding and growing; production for canning; cost of production; insects injurious to tomatoes and tomato diseases. The book is written in the most popular style for the man who wants the latest and most complete information on the subject.

PAMPHLETS RECEIVED.

CHILDREN'S GARDENS, Report of the Committee of the Massachusetts Horticultural Society for 1906.

This very interesting document, prepared by the chairman of the committee, Henry Saxton Adams, is well worthy of perusal by all who are in any way associated with the very commendable work on which the report treats, being as it is replete with valuable information on the subject. And it is a subject the true significance of which in a business way, to say nothing of its aesthetic and moral aspects, has not yet been fully grasped by those engaged in the florist industry, too many of whom, unfortunately, on account of this unfamiliarity with its worth, or of indifference to its development, have so far withheld from it their support and encouragement. As Mr. Adams well puts it: "Our interest is centered in horticulture and whatever we can do to promote it is of vital concern to us. We believe there is no better way to encourage gardening than to teach the children to love and to grow plants. Through the children we reach the parents and ultimately introduce gardening to the homes as can be done in no other way."

In his report Chairman Adams refers appreciatively to the recognition given the movement by the S. A. F. O. H., and other similar organizations. He also points out the great demand and need of experienced teachers, putting the very pertinent questions, "Shall the normal schools or the agricultural colleges take up this work? Shall they unite in this instruction? If so, where shall they get properly trained instructors? This is the great problem and one which must be thoughtfully met. When shall we have a Massachusetts School of Horticulture, with school gardening one of its main departments?"

Mr. Adams speaks optimistically of the school garden work in Massachusetts and calls attention to the great interest centering in the children's exhibitions, the one this year to be held in Horticultural Hall, Boston, Mass., Saturday, September 7.

The papers embodied in the report, which is illustrated, include, either in part or in full, those on "The Educational Value of School Gardens," by Hon. George H. Martin, Secretary State Board of Education, Boston; "Horticultural Education for School Garden Teachers," by Professor F. A. Waugh, Agricultural College, Amherst, Mass.; "School Garden Work and the Normal School," by W. A. Baldwin, Principal State Normal School, Hyannis, Mass.; "Children's Gardens and the Public," by Frank M. Marsh, Superintendent of Schools, Fairhaven, Mass.; "The School Farm at De Witt Clinton Park," by Henry G. Parsons, New York City. There are also reports of the different schools throughout the State engaging in this class of instruction—the whole forming, as we have stated, a valuable and instructive pamphlet.



Obituary

Otto Schwill, Sr.

Otto Schwill, Sr., head of the seed firm of Otto Schwill & Company, Memphis, Tenn., died suddenly on Sunday, June 10, never having rallied from a stroke of apoplexy with which he was attacked on returning from church.

Mr. Schwill was a native of Koenigsberg, Germany, where he was born 61 years ago. He came to this country when he was 15 years of age and located at Cincinnati. After receiving his education he secured employment in a bank there, subsequently entering the seed business with a brother. He removed to Memphis, Tenn., in 1869, where he established the wholesale seed firm of which he was the senior member.

The deceased was a member of the American Seed Trade Association and was interested in several local organizations; he was a member of the Business Men's Club and Merchants' Exchange, and a director in the Commercial Trust and Savings Bank. He was a Mason in high standing in the South Memphis Lodge, and also was associated with the German societies.

Mr. Schwill was highly esteemed by a large circle of friends. A widow, two sons, Otto, Jr., and Carl, and one daughter, are left to mourn his loss.

Dr. M. T. Masters.

The English gardening periodicals received here this week record the death of Dr. Maxwell Tylden Masters, F. R. S., Editor of *The Gardeners' Chronicle*, London, who quietly passed away to his rest on May 30, 1907, after an illness extending over a period of one month. Death was due to heart failure following an attack of pneumonia.

In the death of Dr. Masters the world of science and horticulture has lost one of its ablest exponents, and we join with our brethren across the Atlantic in mourning the loss of one to whom the craft in all its branches owes an eternal debt of gratitude for the grand work he has done in its behalf.

Dr. Masters was born at Canterbury, England, in 1833. He was educated at King's College, London, and after obtaining his degree from that college went to Oxford as sub-curator of the Fielding Herbarium under Dr. Daubeny. From 1855 to 1868 he was botanical lecturer at St. George's Hospital, and for some years was examiner in botany at the University of London and for the Society of Apothecaries. He became a Fellow of the Linnean Society in 1860, and in 1870 was elected a Fellow of the Royal Society. He was a corresponding member of the Institute of France, and an officer of the Order of Leopold.

Dr. Masters came of a horticultural and scientific family. He was the second son of the late Wm. Masters, J. P., who operated the nursery in Canterbury now owned by George Mount. His father was an ardent lover of natural history sciences, an excellent man of business and an accomplished landscape gardener, and from him Dr. Masters inherited the most of these qualities in a marked degree. Shortly after the death of Dr. Lindley in 1865, Dr. Masters was appointed co-editor of *The Gardeners' Chronicle* with the late Thomas Moore, curator of the Ancient Botanic Garden at Chelsea, belonging to the Society of Apothecaries, and a few years later, on the retirement of Mr. Moore, he became sole editor of the famous journal. It is safe to say that no man in modern times has left his impress so strongly on British horticulture as Dr. Masters. He may be said to have been the father of the Scientific Committee of the Royal Horticultural Society, which mainly through his advocacy was established in 1868. Over the deliberations of that body he had presided since the retirement of the late Sir Joseph Hooker. He was also chairman of the Veitch Memorial Trustees, and until recently of the Williams Memorial Fund.

Besides his work on *The Gardeners' Chronicle*, Dr. Masters was a frequent contributor to scientific periodicals, and the author of numerous monographs and papers on subjects relating to botany, vegetable physiology and horticulture, being especially interested in conifers and passifloras. Among his best known books are "Vegetable Teratology," still the standard work on this subject; "Botany for Beginners," "Plant Life" (both of which have been translated into several foreign languages). He took part in "Oliver's Flora of Tropical Africa," "Hooker's Flora of British India," Von Marten's "Flora Brasiliensis," De Candolle's "Prodromus," the "Encyclopædia Britannica," "The Pinetum Britannicum," and other works, besides preparing the second, third and fourth editions of Henfrey's "Elementary Course of Botany."

He was a man of marked conscientiousness, and his life work was characterized by absolute freedom from prejudice of any kind and from all mean or selfish motives. Of a kindly nature, his sympathies were of

the widest description, and he was always willing to assist, and active in his endeavors for any good work that came within his province, whether it was of a charitable or of an educational character. Especially was he a champion of the cause of the working gardener, and had aided the British Gardeners' Association by his presence, his advice, as well as his monetary support.

He leaves a widow and two daughters, to whom, we feel sure, the sympathy and condolence of the entire horticultural craft of America will be extended.

"Truly a great man has passed to his reward."

OUR READERS' VIEWS

Early Flowering Sweet Peas.

Editor Florists' Exchange:

I feel that I must say a few more words on this matter after perusing Mr. Zvolanek's note on page 677. He says that all the varieties from Countess Spencer are the results of its having been cross-fertilized with mixed pollen. Incidentally I may say that it is generally conceded that mixed pollen brings about no radical change from what one kind would produce; but this, by the way. Last year, after a great deal of



The Late Dr. M. T. Masters

Reproduced from *The Gardeners' Chronicle*, London, Eng.

debating, it was given out that Countess Spencer came as follows:

Lovely × Triumph (1898). The resulting seedling of this cross was crossing with Prima Donna in 1899. In 1900, Countess Spencer was in being. In 1904, it was for sale, and from this stock came many of the Spencer sorts we now have.

Now, it is understood that the Countess Spencer, sent to California for growing, was true as possible. It came back full of rogues, many of them of the ordinary type. I am willing to grant that the fresh blood caused these new breaks from Countess Spencer, but the fact remains that the Helen Lewis, etc., did not come the first season after the cross between the unnamed seedling and Prima Donna. They came afterward, and therefore can only be termed "sports." To my mind, the true varieties from a cross appear the season after crossing.

In my previous epistle, I pointed out the instability of seedling sweet peas for several seasons, and all that appear after the first year of flowering are really and truly seminal sports. In the great discussion that took place here last year, it was argued by some that it was hardly to be expected that raisers would give away the parentage of their seedlings, but it has been pointed out that there is no reliability in crosses, and Mr. Zvolanek's remarks serve to prove it.

Respecting sports proper, Darwin and other eminent botanists have made a distinction between "bud" sports,

or those that arise from buds, and "seminal" sports, or those that arise from seed. Botanists tell us that there is a similarity between vegetative buds and reproductive or flower buds. Flowers are really only modified leaves. Seeds contain a bud, and if it produces a plant different from its parent, it certainly approaches a bud variation, strictly termed a "seminal" sport, provided, of course, that cross-fertilizing was not carried out.

Bud sports in sweet peas are practically unknown, at least when a plant throws variegated or untrue flowers, which they often do, in the Autumn. I have always attributed those to be due to climatic changes, more so because these variations are inferior to the true blooms produced earlier. The fact is plain, that sweet peas can never be truly fixed. Variations are liable to appear ten or more years after their introduction; but in this respect they are not nearly so variable as other flowers that have their stigmas and stamens open to visitations from insects. Personally, I am quite convinced that neither flies nor beetles ever affect sweet peas, because the pollen is decimated before the flower opens. Fertilization takes place with amazing rapidity, a few hours sufficing to allow the pollen to send down its tubes into the ovaries.

Artificial crossing of sweet peas undoubtedly disorganizes the plant, which does not recover its normal habits, perhaps for several generations. Until it does, the successive hatches of seed may and do show the irritation set up by the mixing of foreign pollen, by producing "seminal" sports.

Before me, as I write, are several new seedlings, the parentage of which may be interesting:

1. Mrs. Walter Carter, first shown last year, result of a cross between Eric Hinton, pale pink Spencer, and Dorothy Eckford; color, lavender, shaded with silvery mauve. Spencer form.

2. Seedling from Helen Lewis (orange) × Mrs. Carter; deep crimson, overlaid with maroon, wings pure plum color.

3. Seedling Helen Pierce (blue stripe) × Mrs. Carter; bright blue wings, shaded violet; standard, a trifle paler shaded, with silvery white.

4. Countess Spencer × Mrs. Carter; a beautiful rosy lavender self.

5. Dora Breadmore (buff pink) × Mrs. Carter pure white, faintly tinted with blush at the edge of standard.

All these seedlings are of Spencer form, but it is safe to say that seed from them will produce several variations next season, and these will assuredly be "seminal" sports, brought about through the disturbance caused by crossing with foreign pollen last year.

If these four seedlings had all appeared from one cross this season they would certainly be due to the cross.

I am particularly interested in Mr. Zvolanek's remarks regarding the much wanted colors, and if his surmise is correct, I shall only be too happy to congratulate him, and make them known far and wide.

I am by no means skeptical respecting the value of Mr. Zvolanek's early strains, for the public here are cottoning on to early blooms, but with such varieties as Dorothy Eckford, King Edward, Miss Willmott, etc., we cannot get blooms before the latter end of April, at which date we realized this season from 8 to 10 cents per dozen retail, so that we should, I think, do very well a month or two earlier.

I shall only be too pleased to have a few samples of the Bound Brook varieties under my eye.

Kent, England. T. A. WESTON.

Gladolus America.

Editor Florists' Exchange:

Mr. Childs's letter on page 801 of *The Florists' Exchange* ignores my original and repeated statement that the cormels of America do not mature here excepting in a limited way. The original seedlings were discarded by me years ago, and cormels of the original selections have not been grown by me for years, therefore owing to the more rapid multiplication of other types, America was in the minority, only a few having been numbered for observation during the past few years, all bloomed stock being annually disposed of in mixture.

The species Saundersoni does not produce cormels after the habit of America; the more compact habit of the latter is one of the causes of limited maturing in our short season. However, these facts conflict with both the Banning and Christy claim as to its origin.

It seems too bad that Messrs. Childs and Banning should not be able to agree in their stories, as their divergence rather discredits other points claimed by both.

The suggestion that I supply corms of Number 119 for testing comes rather late, two months after planting, and as to supplying the names of other buyers, I am quite able to settle the matter without involving others in the controversy. Mr. Cowe did not change his mind at Washington in 1905 as stated, and America was never in the stock known as "Groff's Hybrids."

H. H. GROFF.

The Propagation of Ornamental Nursery Stock.

Read by W. H. Wyman, Mass., before the American Association of Nurserymen at Detroit meeting.

Trees of all kinds, fruit, deciduous and evergreen, are ornamental; but these will be eliminated in this discussion, although for the most part they are propagated precisely as are those popularly known as ornamental stock, viz.: broad-leaved evergreens, deciduous shrubs and herbaceous plants. All the types of broad-leaved evergreens are raised from seed while hybrids are propagated by budding or grafting the seedlings, or by the means of layering. The latter is the slower of these methods and is less frequently adopted by commercial nurserymen. Not to any considerable extent are rhododendrons grown in America. In Holland, Belgium and England, so far as our observation goes, all hybrids are grafted, for the most part, on ponticum seedlings of about two Summers' growth. This is done in the Winter, under glass. In the Spring they are planted out in beds, again to be transplanted a second time into nursery rows and the third year they are sufficiently large for sale. Our chief interest is in the propagation of deciduous shrubs and herbaceous plants.

Deciduous Shrubs and Herbaceous Plants.

Of the various methods of propagating this class of stock the following should be mentioned as the most general: By sowing seeds, the seed method, layering, cuttings, both hard and soft wood; by division and by budding or grafting.

Of all these methods the first is the most natural; but it can be adopted only so far as the propagation of types is concerned. The seeds of all hybrids cannot be relied upon, only to revert to their original types. For example, *Ligustrum Regelianum* seeds as profusely as the *ibota*, the type from which it sprang; but the seedlings will all be *ibota* with possibly some variations, but never *Regelianum*.

While the seed method of propagation is the most natural of all methods, we believe it one that requires as much painstaking study as any. Over against this in the order of naturalness is the stooling or layering method, the simplest or least difficult of any; but not much in vogue in this country, because it is too slow for commercial purposes. In Europe shade trees are to quite a considerable extent produced in this way. The advantage is uniformity of excellence in quality while seedlings admit, in some cases, of great variations. While we believe it to be true that in this country little ornamental stock is produced in this way, the writer is acquainted with one firm of repute who grow *Hydrangea paniculata grandiflora* in quite considerable quantities by this method. They are a marked exception to the general rule.

The Seed Method.

It is our opinion, that while the seed method is the most natural, it is, as before stated, as difficult of mastery as any of the methods of propagation. The first step in seed propagation is the procuring of the seeds. Then they must be properly treated. If the seeds are easily separated from pulp or chaff like those of *Syringa japonica* there is little to be done; simply to put them in a cool place safe from the ravages of mice to await the day of planting. They must not be allowed to become too dry. If the seed is encased in pulp, it is best that it be thoroughly washed out and stratified or planted immediately. Which of these two methods is the better it is impossible to say. We would recommend what we have learned by experience—the planting of a part in the Fall and the stratifying of the remaining half for Spring planting.

The advantages of immediate or Fall planting are these: So much work is out of the way. A small matter. Secondly, the seeds are in the ground ready to begin germination at the earliest possible moment. If nothing happens to injure them, the seedlings will be larger than will be the case if in the Spring the seeds are not sown at the earliest date practicable. This method is beset with dangers, first, that field mice and moles will find the bed a very desirable habitation for the Winter, with the result that the seeds are eaten up. Then again, there is another danger which must not be overlooked, though it may seldom, if ever, occur. In the Fall of 1905, we planted all of our seeds of the various types of roses. Ordinarily, we had the right to expect a fine lot of rose seedlings the following season; but to our surprise, there was only one where there should have been a thousand—an absolute failure. The fault was not with the seeds we feel confident, but with the season. In February of that year we had an unusually mild spell of weather, lasting for several days, with the result that deciduous trees began to make new foliage. This was followed by very severe weather. It is most probable that the seeds felt the warmth of the sun and germinated only to have their little life ruined by the cold. This is a danger that may seldom arise, but as it has arisen once in our experience, we think it a matter that is deserving attention.

On the whole, the safest method is to stratify the seeds. The danger attending this method is that the seeds will not be taken from their hiding place as early

as it is necessary, and germination will already have begun and to such an extent as to render the whole mass worthless. This danger attends only those seeds that germinate in the Spring following their ripening the previous Autumn, such as barberry, sambucus and evergreen seed. But there are some other seeds, like those of *Viburnum opulis* and *Clematis paniculata*, that will not germinate in the Spring, but will do so later in the season, about September. These may or may not be planted until the last of August. If planted, they must be kept screened and not allowed to dry out. If not planted, they may remain stratified until they are about to germinate, when they may be planted. Then there are those seeds that require two or more years in which to begin growth, like those of the *Viburnum dentatum*, *Viburnum cassinoides*, which should never be planted until the late Autumn following the year of their growth. And again there are other seeds, like those of *Rhus aromatica*, that will send forth some plants the first year, more the second and still others the third year. Such seeds are the most troublesome of any with which the planter has to deal. When one has learned all of the peculiarities of the seeds he has by no means mastered the situation.

Most seeds require a rich sandy loam, so light and friable that it will not bake. It must not be too dry, or the little seedlings will burn; it must not be too wet or they will damp off. For the best results, screening is absolutely necessary in the climate with which the writer is acquainted, say New England.

Thus far all that we have said applies to propagation out of doors without glass, in frames screened with ordinary lath screens. Azaleas, kalmias and andromedas, we believe, can not be very successfully grown in this way. They should be sown under glass upon clean sphagnum moss, where the humidity desired may be carefully maintained.

Here, allow us to remark that other things being equal, the man who has land well adapted to the growing of seedlings will succeed, while the man who has not suitable land had better let deciduous seedlings alone and devote his attention to something else.

The Stooling or Layering Method.

A word relative to the stooling or layering method in addition to what has already been said will suffice. Every tree or plant has its own peculiarities. Plants are capricious. Some will lend themselves to one method of treatment and others to another. There are some varieties of ornamentals that can be more successfully propagated by stooling than by any other method. For example, the large flowering magnolias. The types can be raised from seed; but the Chinese varieties must be propagated in some other way. While we have seen the types raised from seed very successfully, we do not know of any firm in this country who has any considerable number of good stooling plants of magnolias. Why it is so we do not understand, unless it be that the most of the nurserymen are, like ourselves, too young or too ignorant about the propagation of this class of stock to get good stooling plants. So far as our observation has gone, all of the leading nurserymen in Holland have their stooling plants carefully planted and as carefully tended and a crop of young magnolias coming on each year. These stools are planted at a distance of about twelve feet apart. The same is true, as before mentioned, of limes, elms, Norway and silver maples and many other varieties of trees. It is readily seen that when once a specimen tree has been found and the same has been stooled, the entire product will be of uniform excellence.

By Cuttings.

The next method of propagation is by cuttings, both hard and soft wood. This we believe is the most general method of propagation in this country. A large number of our common shrubs lend themselves easily to this method of treatment, such as the cornels, privet, spiraea, for the most part, and many others. Hardwood cuttings should be made from wood of the previous Summer's growth cut from the stock plants after it has thoroughly ripened out, but before it has been subjected to a too low degree of temperature. This wood should be packed away in sand or moss where it will neither rot nor become too dry. At the convenience of the propagator, the wood can be worked up into cuttings which are usually tied up in bundles of one hundred each, and again packed away where they callus preparatory to root-making, when they are planted in the open.

In latitudes where it is very warm and the soil is light, as it is in France, it is necessary to plant these cuttings under bell glasses in the field, but we have never seen anyone propagating in that way in this country. It is the general method in France.

There are some varieties that cannot be worked by the hard-wood method. They will only root from soft wood, or at least take most kindly to this method—such as *Philadelphus coronarius aurea*, the forsythias, *Hydrangea paniculata grandiflora*, weigelas, *Viburnum plicatum* and many more. Here care must be exercised in taking the wood when it is not too soft or too hard; that is, when it will break short and crisp like a slender

piece of burned clay, but not when it is so tough as to bend double without breaking. The cuttings should be made larger than many propagators make them, we are convinced, just as large as they can be made from the wood in hand. They must not be allowed to wilt before nor after planting in the frame, which may be with or without greater heat. On this point there is a difference of opinion. From our observation we don't believe bottom heat is necessary. We know of one firm of very successful propagators and think they strongly advocate bottom heat, such as may be had by putting fresh horse manure in the frame pit under the sand. We also know of another equally successful propagator who never uses bottom heat and says it is not necessary. His product is just as good as is that of the other firm. When the doctors disagree, what are we to do? Judge, each man for himself, and act accordingly.

We are now at the critical point in soft wood propagation after the first cuttings have been well made and properly set in the frame. An even temperature of hot, humid air must be maintained. Here the genius of the propagator comes into play. Rules only in the most general way can be made. There must be water enough and not too much, sun enough but not too much; and when the rooting process is well under way, they must be hardened up by letting in some air, but not too much at first. The eggs in this basket must be carefully watched or the whole will be a failure. We are convinced that this is the point where the genius of the plantsman is tested as nowhere else in the whole round of propagation.

Not every man can be a successful propagator is our firm conviction. A good propagator is a born propagator. Experience perfects him, but he is not purely a manufactured product.

Propagation under Glass.

It may be necessary to note in passing that certain plants can be most successfully propagated by soft cuttings grown from forced plants under glass. This applies to a few deciduous shrubs and to many herbaceous plants. But the bulk of herbaceous plants is raised from seeds or propagated by divisions.

And this brings us to the simplest of all methods of propagation—by division. Anyone can do this. It requires only a few plants to start with, which can be broken up and planted out to become salable plants in three months' time.

Incidentally, it must be said that a few ornamentals, such as amygdalus and a few herbaceous plants, like oriental poppies and phlox, can most easily and profitably be propagated by root cuttings.

Grafting and Budding.

The last and final methods of propagation we shall mention are the methods of grafting and budding. So familiar are these methods to every gentleman present, that no word that we can offer will be of interest. One observation we have made in foreign nurseries, especially in Holland, was this: It seemed to us that if a plant could be produced by grafting, then grafted it must be, so fond are they of grafting or budding. In this country quite the opposite is true. If a tree can be produced successfully in any other way, it is not done by grafting or budding.

Feeling that we almost owe this assembly of propagators an apology for consuming so much time on a subject about which many of you are so much better prepared, by your long experience and observation to speak than ourselves, we simply have this defense to make—that we were asked by the committee to do this thing that we have attempted, and upon them rests the responsibility, and, if any, the blame for this paper.

The American Carnation in England.

So widespread has the cultivation of the American carnation in England become, that a book has just been published on the subject of "The Perpetual Flowering Carnation," the author of which has had extended practice both in the United States and in England. In reviewing this work *The Journal of Horticulture* states that "when the first of the fringe-petaled carnations was placed before the Floral Committee of the Royal Horticultural Society, it was prejudged to oblivion. Only when, by dint of public opinion, it was seen to be a favorite flower, were its merits as a thing of beauty acknowledged. Even now it is doubtful if the old school of British florists will admit that in these American types of the flower there is true beauty. But a better English style of perpetual-flowering carnation is being produced with fringed petals. Already has success attended the efforts of our raisers, and while five years ago our Transatlantic friends looked askance at varieties of the 'divine flower' from England, we believe they are now very ready to accept such notable stars as Britannia and Mrs. H. Burnett. Clearly these are superior to all except the very best that have been obtained from abroad; and they are not second to any. This would seem to be sufficient to renew our fading hopes, for it was thought that in at least one department of floriculture Britons were lagging behind. This is now changed, and to-day the floriculture of England again stands unassailed and unsurpassed."

The Chrysanthemum.

Read by Charles H. Totty, Madison, N. J., before the Boston Gardeners and Florists' Club, Tuesday evening, June 18, 1907.

The chrysanthemum in its various forms as grown to-day is essentially modern in its varieties and it is a far cry from the first Japanese introductions of K. Fortune in 1862 to the large flowered Japanese of to-day. No flower has proved so responsive to the efforts of the hybridist, and the present day types of Europe and America are far ahead of the kinds grown at this time in Japan, so far as my knowledge of Japanese varieties goes. When we stop to reflect on the progress made in a period of some fifty years with this flower, one hesitates to hazard a guess as to what the future has in store. The past history of the chrysanthemum is interesting. A chrysanthemum show was held in Birmingham, England, as far back as 1836, but no record of it is left saving the mere detail of time and place. The association that was to be the real factor in developing the chrysanthemum was organized in Stoke Newington, England, in 1846, at an old fashioned hostelry where a company of congenial spirits used to congregate evenings and over their pipes and beer discussed their favorite flower. That little society prospered in its chrysalis state and eventually evolved into the National Chrysanthemum Society, and this society by its system of historical records, classifications and nomenclature put the chrysanthemum where it is to-day.

The first seedling raised in cultivation was flowered in France about 1827, and I have no doubt the raiser was just as proud of his achievement as we would be to-day to produce Beatrice May or William Duckham.

The pompon section was produced from a small semi-double variety sent home by Robert Fortune from China in 1842. We are indebted to the French raisers for this type who christened it pompon from the real or fancied resemblance to the tuft or pompon on the French soldiers' hats of that period. The Fortune introductions of 1862 gave the greatest impetus to the cultivation of the chrysanthemum and they were the ancestors of our present large flowering kinds.

Glancing hurriedly through the American history of the chrysanthemum we find that the first seedlings were exhibited before the Massachusetts Horticultural Society in 1879 by Dr. H. P. Walcott, so that Boston in this as in so many other matters historical may rightly claim first honors. Peter Henderson previous to this had imported from Japan in 1863 some fine varieties, one of which at least, Grandiflorum, was grown until very recently. The American Chrysanthemum Society was not organized until 1889, but shows had been held for some time previous to that in the larger eastern cities. Possibly the greatest enthusiast this country ever had is the veteran John Thorpe. I had a short talk with him in Chicago last Fall and I know he is a mine of information on the early struggles to popularize the chrysanthemum in this country. Another gentleman who, while his name does not figure so much in print, did a great work in the early days, is Wm. Barr, of Orange, N. J.; he, too, is brimful of early history and furthermore is just as keen to-day in testing new kinds as he ever was. What wonderful power of fascination does the chrysanthemum possess that it can hold a man's interest for a lifetime compelling him willy nilly, to remain its slave and worshiper.

In the early 80s several Pennsylvania growers came to the front. W. K. Harris and H. Waterer left their imprint on the chrysanthemum by raising some fine varieties. New Jersey was represented by T. H. Spaulding and the late lamented firm of Pitcher & Manda. It is impossible in a paper of this description to enumerate all of the men who did yeoman service in the past, but at least two others, Fewkes and Hallock, are deserving of special mention.

Behavior of Modern Sorts.

Getting down to the present time we find that the Australian varieties in the past few years have swept our exhibition tables clear of the older varieties, giving us flowers of such splendid size and colors combined with ideal habit that there would almost seem to be an infusion of new blood into the race. The English and French seedlings are in too many cases disappointing to us, comparatively few standing the test of our climate, but the failures in the Australian kinds are few. The reason for this is because the Australian climate at flowering time is similar to ours, often running warm and bright, and if a seedling shows a large, full perfect flower in this condition it will do the same with us. An English variety may be splendid in its native home and yet be a failure here, showing an enormous eye and only some five or six rows of petals. Some of their very finest kinds act in this way here, Lady Conyers, Elsie Fulton and Mrs. F. W. Vallis being good examples. The Australian kinds, on the other hand, show up much better than they do in Europe, many of them, the sunlight here in the early Fall serving to bring out the size and breadth of the petal to greater advantage. I am often asked how it is that the Australian types are such strong growers, splendid in both

stem and foliage. Perhaps the chief reason is because in Australia they practice an outdoor system of culture entirely in the section from where we have received the finest varieties.

We should never lose sight of the fact that the chrysanthemum is almost a hardy plant and indoor culture is an unnatural condition which in time tends to degenerate the parent stock. The future will possibly see a race of American seedlings equal or superior to what we are now getting from Australia, but they will be raised outside in the great Southwest somewhere, where the hand of man has merely to guide nature in an intelligent, systematic crossing, not here in the East where with glass houses and artificial heat man must not only guide nature but also finish her product for her. Another reason why the Australian kinds are all good growers, lies in the fact that a rigid selection is kept up all the time from the first seed bed to the flowering stage. Any kind that shows an exceptionally tall, or a weak spindly habit is destroyed before the plant reaches the flowering stage, so that the temptation to keep it, should it prove to be an exceptionally fine flower, is removed. This I am informed is the policy of Mr. Pockett of the Wells-Pockett firm, and I say to-day that this firm, if they do not send us another variety, have left a mark on American chrysanthemum culture that will endure for many years to come. The most popular type of flower at the present day is the Japa-

I will go on record as saying now that 1907 will be the banner year to date from the view point of exhibitions.

What about it commercially? That can only be conjecture till we can get an idea of the quantities planted in the different sections, but last year was the best year for prices that I have known since I have studied the flower market. Climatic conditions I will concede helped somewhat to bring about this condition; but even so, people look for chrysanthemums now more than they once did in the early Fall, and I see no reason to feel pessimistic as to the future of the flower commercially.

What the Flower Accomplishes.

The chrysanthemum accomplishes every year a great work in bringing the general grower and his wares before the public at the Fall shows. How many towns ever attempt even to hold a show only in the Fall when the chrysanthemums are at their height? Spring and Summer exhibitions can be counted on the fingers of one hand, almost in the entire country, but when the Fall comes, shows spring up from one end of the country to the other, and though the chrysanthemum is the principal attraction it affords the rose men, the carnation men and the new plant men a chance to exhibit their stock to a large section of the flower buying public that could otherwise only be reached through the medium of the retail store. The average retailer is more



Partial View of Three-acre Slat House of Howard & Smith, Los Angeles, Cal., 18,000 Kentias in Solid Beds

nese incurved. This combines the largest size with the incurving petals so much sought after by the commercial grower on account of its shipping qualities.

The true Chinese type with its incurving petal is apparently too small for present day use, and is entirely crowded out of the exhibition table save in classes specially reserved for it, and to a considerable extent it is getting crowded out of the commercial grower's list. This perhaps is in some ways to be regretted, yet it is only one of the cycles of change that have served to keep alive the interest in the chrysanthemum. Every few years a new type or color appears and revivifies an interest that perhaps was waning and needed just that stimulus.

Present Status.

Some good and worthy people every once in a while tell you that the chrysanthemum is getting played out, that it don't sell as it used to in the market, people are tired of it, and so forth. Let us look at the facts and see if this is so. What do we find from an exhibition standpoint? We find every year an increased number of cities holding chrysanthemum shows. We note 20 or more local chrysanthemum societies each in a flourishing condition and holding an annual Fall show, when ten years ago not one was in existence. No signs of lack of interest there. If you were in my position as a disseminator of new varieties and knew as I know men who buy the plants with their own money, in cases when the employer is not sufficiently interested to do so, in order not to be behind at show time, you would never talk about lack of interest. I have seen several schedules for the coming Fall, and in every case the prizes are larger and far more numerous, and

interested in keeping his trade down to the staples in the trade than he is in pushing a lot of new things that he will have to sink his money into and run his chances on selling them afterward to a fickle minded public. As an aid to instructing the public and giving an impetus to the Fall trade just at that time opening up, the chrysanthemum performs a service to the florist that cannot be measured in actual dollars and cents. One of the most encouraging features to me in the chrysanthemum business is the increasing number of exhibitors. True some of the older ones drop out from one cause or other, but this is only to be expected, and the number of new men coming up is very greatly in excess of older men going out.

Work of Societies.

The various local societies have helped to bring about this condition, and I pray it may continue, for when the local interest dies and the local show is discontinued, then do we see the horticultural interest in that particular section, so far as the chrysanthemum is concerned, fading away. While I give place to none in my interest and loyalty to my local society, I believe it is the duty of every chrysanthemum lover to affiliate himself with the National Chrysanthemum Society also. In union there is strength, and I would like to see the Chrysanthemum Society with thousands of members when it now has hundreds only, for, gentlemen, members of this society should not forget that the present head of the Chrysanthemum Society is a Massachusetts man, Loveless of Lenox, and as a matter of State pride I know you will help him all you can. To a grower interested in chrysanthemums the list of varieties issued by the society is worth much more than the annual

dues amount to, not to mention the good work it does in recognizing new and meritorious varieties, winnowing the wheat from the chaff, and, occasionally, in detecting old varieties that once in a while, whether by accident or design, are renamed and offered to the trade as new varieties.

As to The Future.

And now what of the future? I am neither a prophet nor the son of a prophet, and when dealing in futures it is the unexpected that always happens. So far as one can see along the pathway at this time the future is bright, very bright for the chrysanthemum. Changes will come unquestionably; in fact, they are already looming up. I see it in a reaction in some sections from the large blooms solely. The past year has witnessed to me, a remarkable turn in favor of the single flowered types. The singles cannot be called new, for I recall we made an unsuccessful effort to have the market take them up ten years ago and the market laughed at them. True, varieties have improved greatly since then, but the market at that time was not in a receptive mood. It was merely a big flower, the bigger the better, with a stem like wire and foliage hugging the flower. Today it would seem that the artistic taste is more developed. We see it in the increasing popularity of single flowers, not only in chrysanthemums but also in roses, dahlias and other flowers. Light, graceful natural effects can be produced, impossible of duplication with the heavy large double flowers that have been the florists' ideal for so long. The single varieties now seem to be coming into their own after years of neglect, and the next year or two will see them popular. I notice that several new singles were awarded certificates in London last Fall. Such a thing would have been heresy not so long ago, and I regard it as an indication of the trend of the times. The pompons or hardy types, too, will be planted much more largely in the next few years. With the spread of the civic improvement ideas of a city beautiful instead of an aggregation of bricks and stones, demand will come for these humble but welcome flowers, blooming as they do when everything else is gone, and pointing an object lesson of hopefulness long after every other flower has succumbed to the rigors of early winter.

The Big Flower.

Will the big flowers stay? I say, yes. For large massive decorations they are unsurpassed; to make a showing in an exhibition they are indispensable and as evidences of cultural skill they tell their own story. That new types will crop up and have a share of the popularity is certain. The human mind from earliest history is perpetually craving for something different, and in this respect modern civilization differs not one whit from the ancient Greeks and Romans. The large flower in its proper place has a certain nobility about it that is not, to my mind, approached in any other flower, but its place is not stuck in a low bowl to form part of a dinner table decoration. That part of decorative art can be more artistically done with singles or pompons or other smaller flowered varieties.

That the hybridist will continue to breed to larger and larger types is certain, but size and coarseness do not necessarily have to go together. We have seen the coarseness of Timothy Eaton, for instance, eliminated and a flower equally large or larger produced in Beatrice May or D. V. West without a trace of coarseness in their makeup, and it is on these lines that the hybridist will work.

Some people in decrying size go to the other extreme and condemn a flower for its size alone. I say this is wrong. The forest tree, when a magnificent specimen, never excites anything but admiration, and if nature unlocks her storehouse of knowledge and permits us to raise a chrysanthemum two feet across, if it be perfectly proportioned, I say it would be a marvellous revelation.

Whatever the future has in store we may confidently say that the chrysanthemum will go on increasing in popularity and usefulness from year to year and adding its quota to the sum total of the world's economy and human progress.

John Hartje Retires.

John Hartje, the well-known florist of Indianapolis, Ind., is to retire from business. A local paper furnishes the following particulars regarding Mr. Hartje's future plans, his career, and other matters:

"For eighteen years John Hartje has been cultivating carnations. He has raised thousands of carnations and a few million violets thrown in for good measure, and now he will rest.

"What are my plans?" he repeated. "Well, nothing in particular. However, I expect to spend three or four months fishing—just fishing. Then I may take a trip over to Europe and look around over Germany a little. But during all this time I intend to rest."

"When Mr. Hartje began business eighteen years ago he bought some ground in North Illinois street, near Thirtieth. It cost him \$2,400. Now he holds it at \$12,000. Consequently, real estate as well as flower raising has been one of his sources of profit."

"For the last eighteen years Mr. Hartje has lived in a little one-room frame building adjoining his greenhouses. He has 'bached,' as he states it. He has had nothing to attend to except his business at-

fairs, and he has devoted his time chiefly to the cultivation of carnations.

"By crossing he has brought out four new varieties of carnations. One, the Jubilee, is of a scarlet color and has a very large stiff stem and a bright color. Another, the Snow Queen, is white and has a fine form and pure color. Two others are the Moonlight and the Candace.

"I started in business out on Illinois street, because I wanted to experiment in carnations," said Mr. Hartje. "The soil out there is carnation soil, and that's why I located there. A man wouldn't have any success trying to raise roses out there, because it isn't rose soil."

"Mr. Hartje estimates that within the last eighteen years he has raised and sold about four million carnations. The number of violets sold will run up toward ten million, according to a rough estimate."

Horticulture on the Pacific Coast.

The progress made in horticulture and floriculture this season in Southern California is in harmony with the universal prosperity of the country. Multiplied hundreds of acres are being planted to citrus fruits; the young stock of nurserymen was completely disposed of months ago at prices that have stimulated growers to greater activity than ever before.

The great demand for cut flowers and bedding plants has necessitated the enlargement of the facilities for their production. The Wolfskills have just completed a new house, 60x300 feet, and as soon as glass can be had five more houses of the same size will be built.



John Hartje

This plant is constructed in the most substantial manner—concrete foundations, surfaced lumber well painted, and the best ventilating device obtainable. A new 100 horsepower boiler will be added to the present steam heating apparatus. Crude oil is the fuel used, which is stored in a 50-barrel tank on an elevation above the boilers, giving gravity feed to the burners under the boilers. The firm has 11,500 grafted roses, and 68,000 carnations, the latter field-grown, to stock their houses this coming season. George Watson is superintendent of the range of glass, now 100,000 square feet, one acre slat house.

Howard & Smith have increased their acreage in bedding and ornamental stock. Two features in the work of this progressive firm are, first, all the land of more than three per cent. grade is made into lands or terraces of that or less grade, to facilitate irrigating and economize on water. The second is, the substituting of 1½-inch iron pipe, perforated every 12 or 18 inches, to irrigate the rows of trees or plants, for wooden troughs with holes in their sides opened and closed with plugs or tin slides. This concern has a double flowering lobelia that is of great merit—a valuable acquisition to our list of bedding plants. They grow roses by the acre all worked on manetti stocks, with the eyes cut out of the cuttings below the surface of the soil—to overcome the habit of suckering in garden plants.

Under separate cover I send a photograph (herewith reproduced) of that part of Howard & Smith's slat house in which they grow their kentia palms.

One of the most remarkable nurseries in the locality, is that of H. Hehre of Los Angeles. A basket maker by trade, a florist by inclination, he has, as a diversion, grown from seeds and cuttings collected from all parts of the world, thousands of economic and ornamental plants, having at this time the largest collection of exotics on this coast, consisting of over one thousand varieties. At this place the writer saw for the first time some young stock of *Idesia polycarpa*,

certainly the most attractive deciduous tree that has come under my observation. In shape the foliage resembles that of the catalpa; the color is of a light green, of a pleasing and peculiar shade; the petioles, which are long, and the branches, are of a bright red. If it proves to be adapted to this climate of the coast section of the State, it will be a valuable acquisition to our list of ornamental deciduous trees. A native of Japan and its humid atmosphere, the probability is that for the warm dry interior valleys it will not be suitable.

At this place is also growing a vine of the Paternoster bean, *Abrus precatorius*. The flowers are borne in clusters after the manner of the wistaria bloom, and are of a light yellow color. The seeds, being of a bright vermilion color with a jet black eye, are very pretty ornaments for the drawing room.

Bauhinias are about done flowering for this season. This class of shrubs, or small trees, because of their great beauty when in bloom, should be more extensively grown than they are. The flowers are borne on stems which grow to a foot or more in length, the buds appearing along the stem as it grows until the end of the season, the same as seen in *Ipomaea grandiflora*.

Aristolochia siphon does fine here. The foliage is large and bright. The plant is now (June 1) out of flower, while *A. elegans* will not begin to bloom for a month or two yet. The last named variety will only survive our Winters on high grounds.

In my former article (page 745, issue of June 1) there is a statement that is misleading, in regard to Fischer Purity freesia. It should read: "Experiments with Fischer Purity freesia and stock of a white variety obtained from a Chicago seed house, showed no difference," etc.

P. D. BARNHART.

CLUB AND SOCIETY DOINGS.

THE ST. LOUIS FLORISTS' CLUB on last Thursday afternoon held a largely attended and harmonious meeting. President Irish with all the other officers were on hand. The chair called for a report from the trustees to which Chairman Smith responded. The smoker to be given for the club's twentieth year celebration will take place on Saturday night, June 29, in Hibernian Hall, 3919 Finney avenue; all arrangements are completed. Every member of the club will receive an invitation. Mr. Smith in his report also stated that they had arranged the place and date for the club's annual picnic, which will be held July 25, at Romona Park. This is the same place as the picnic was held last year.

William C. Young, state vice-president of the S. A. F. O. H., who is arranging for the members a trip to Philadelphia in August, reported that rates were a little high at present, but he hoped for lower figures by August 15, just before starting time. The rate is now \$34.55 for the round trip, including a trip to the Jamestown Exposition, good returning in 60 days. He also requested the members to send in their names as soon as possible if they have any intention of attending the convention.

Conrad Bergstermann was elected to membership and Adolph Brix, the St. Louis avenue florist, made application. The treasurer's report showed a good balance on hand.

From the question box, fifteen queries were discussed. All were of great benefit to the wholesale growers and retailers. These, with the social features being introduced at each meeting by our trustees, are bringing out the members. Secretary Beneke reported that the next meeting of the club would be held July 11, when the nomination of officers would take place; the election will follow at the August meeting.

ST. PATRICK.

BOSTON GARDENERS AND FLORISTS' CLUB—Notwithstanding it was the warmest night of the summer about 150 members of the club attended the last meeting of the season on Tuesday evening and listened attentively while Mr. Doty talked on "The Past, Present and Future of the Chrysanthemum." After the lecture there was a spirited discussion and quite a little argument among some of the older club members as to who was the original grower of the large chrysanthemums around Boston.

It was decided that the club hold an outing in the Boston Parks on June 29, the party to meet at Brookline avenue and Audubon road and visit the Riverway, Olmsted Park, and Franklin Park. The party will meet at the point named at 1:30 p. m., and under the guidance of the park superintendent or his assistants will make a tour of the interesting points for landscape effects.

An invitation was also received from General Weld, president of the Massachusetts Horticultural Society, to visit his place at Dedham, and a party will avail themselves of the opportunity on Saturday next.

A communication from the Old Home Week Celebration Committee, asking the club to take part in the civic parade, was referred to a committee for action.

Eight new members were elected. There were only a few exhibits on the tables, including two pans of chrysanthemums in bloom from T. D. Hatfield; Iris Her Majesty from F. J. Rea; poppies from the Mount Auburn Cemetery; and hybrid pyrethrum from Wilfred Wheeler.

J. W. D.

FOR THE RETAILER

For reproduction on this page, we solicit from our readers engaged in the Retail Trade, good, clear photographs of subjects that are of general interest, such as store interiors, designs of different classes, new delivery wagons, etc.

An Outdoor Wedding.

At this time of year when everyone likes to be in the open, an out of door wedding is the thing, provided the function takes place in the country. Piazza decorations have a distinct charm that may never be obtained indoors. Of course, it is necessary to have a good supply of flowers and green; but at this season, when everything is in flower and the country a mass of beautiful foliage, this difficulty is easily overcome.

A wedding this week that took place a few miles from New York was a charming affair. The ceremony was performed under the spreading limbs of a giant maple that stood about eighty yards from the house. An avenue of bay trees was formed to fill in the intervening space from the piazza to the tree; these were connected by garlands of spiraea, a wide sash of white silk ribbon being tied to each bay tree stem where the garlands met. At the end of the avenue, or aisle, of bay trees, and directly under the maple, a bank of pink hydrangeas had been arranged in crescent form, the points of the crescent being brought around to connect with the avenue of bay trees.



Cibotium Schiedel in 12-inch Pot

Grower, J. F. Anderson, Short Hills, N. J.

The piazza was also brilliantly decorated. It extended around three sides of the house, and was of exceptional breadth. Large specimen palms stood at every convenient place, the spot where the bride received being a perfect bower of pale pink peonies. The bridal procession passed under arches of pink weigelia, which was used in large quantities throughout the piazza. Metal cornucopias were inserted into the tubs containing the palms; these were filled with crimson peonies, and long sprays of weigelia. Cornucopias were also suspended from the supporting columns and filled with peonies.

The table decorations were very simple and consisted of bowls filled with wild field daisies. The bride carried a large bouquet of lily of the valley tied with a broad sash of white silk ribbon, no shower effect being used. The bridesmaids wore large corsages of white sweet peas tied with white liberty silk ribbon.

At another country wedding the piazza was partially enclosed. A large number of maple saplings had been cut in lengths of from twelve to fifteen feet; these were placed against the side of the house, and at the piazza rail, and allowed to meet in the center, forming a continuous arch. Hanging baskets filled with pink peonies were suspended from the roof of the piazza at irregular heights and distances. At the front entrance to the house a bower of maple saplings was erected. Large quantities of wild azaleas were used to brighten the arrangement, and a bell of viburnum hung from the center.

Most of the material used in these country weddings was obtained locally, and being freshly cut and not handled to any extent made an effect not easily secured with material sent out from the city, which seldom arrives in good condition during hot weather.

Funeral Work.

A handsome standing wreath seen at a recent funeral attracted much attention. The wreath was about five feet in diameter, two-thirds of the circle being filled with *Laelia purpurata*, the handsomest of all the helias, and the remaining portion with *Cattleya gigas* and *Cattleya Gaskelliana alba*, and lily of the valley. The base was very loosely filled with white chrysanthemums and cut fronds of *Cibotium Schiedel*.

A flat cross composed of *Lilium Harrisii*, with a cluster of white gladiolus at the arms, was also very fine, and illustrated the value of gladiolus for funeral work, more especially the lighter colors.

A handsome sweet pea wreath, where the different shades of lavenders and purples were employed, made a beautiful offering; the shades, running from pale lavender to the darkest purples, were arranged in clusters, each color blending perfectly.

D. RAYBUN.

Cibotium Schiedel.

Among all the ferns in cultivation, of both early and late introduction, there is none that has ever equaled, much less surpassed, the beautiful fern herewith illustrated, the well-known *Cibotium Schiedel*, the lace fern, also called the "king of ferns," of which title it is well worthy. This fern has left all its brothers and sisters belonging to the *Dicksonia* family, as well as all the other tree fern varieties, in the rear, and has found its way to every lover of plants in the country. Even *Cibotium princeps*, for many years so popular, as a decorative plant, has gotten tired of the competition and is taking a long rest.

When *Cibotium Schiedel*, some years ago, was feel-

DIRECTORY OF RELIABLE RETAIL HOUSES

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MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

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SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

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GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

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THE PARK FLORAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

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HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

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W. G. MATTHEWS, FLORIST, 16 West Third Street. Flowers in any arrangement for all occasions for Dayton and vicinity. Personal attention given to all orders. Long distance telephones.

Dallas, Texas.

LANG, THE FLORIST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Louisville, Ky.

JACOB SCHULZ, 644 4th Avenue. Personal attention given to out-of-town orders for Louisville and surrounding territory. Have a choice line of seasonable flowers always in stock; delivery facilities perfect.

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BERTERMANN BROS. CO. Our facilities for executing orders in an efficient manner are unexcelled. Our shipping territory includes the surrounding states. High grade flowers; expert workmanship.

Albany, N. Y.

EYRES, 11 North Pearl Street, cut flowers or floral designs delivered to any part of Albany and vicinity on telegraphic order. Personal attention given and satisfaction guaranteed.

or sifted ashes. When large enough for potting, use a little less leaf mold and sand, but no fertilizer. When the plants reach the 4-inch pots and thereafter, they require more substantial soil, and do well in fibrous pasture loam mixed with 9 per cent. well rotted cow manure and 2 per cent. natural pulverized sheep manure. If the loam is heavy, use enough sand to give the mixture a good drainage. Take care that the pots are well drained and never over-watered. Grow shaded in a temperature of about 65 degrees at night; avoid letting the temperature run too high, especially at night, and never keep the plants crowded, or they are apt to grow lanky and lose their gracefulness. A light syringing on clear days is very beneficial to *Cibotium Schiedel* and will keep the plants free from all insects as well.

J. F. A.



Wholesale Price List

Palms and Ferns

Variety	Size	Each	Dozen	100
Areca Lutescens	4		\$3.00	
Assorted Ferns for Ferneries				\$3.00
Asparagus Plumosus	3	.75		
"	4	1.50	12.00	
"	6	3.00		
Asparagus Sprengerii	2		3.00	
"	3		7.00	
Cibotium Schiedelii	6	\$1.00		
Cocos, 3 in a pot	4	75c-\$1.00		
Dracaena Fragrans	5		5.00	
Dracaena Indivisa	3		5.00	
"	6	5.00		
"	30-34 high 7	.75	9.00	
"	8	12.00		
Dracaena Terminalis	3		2.00	
"	4	.25	3.00	
Japanese Fern Balls		4.00		
Japanese Pines in Japanese Jars		4.00		
Latania Borbonica	5	5.00		
Nephrolepis Barneusii	2	.75	6.00	
Nephrolepis Bostoniensis	2	.50	4.00	
"	3	1.00	3.00	
"	4	1.50	12.00	
"	4 strong	2.00	25.00	
"	6	4.20		
Nephrolepis Pierstonii	7	9.00		
"	8	12.00		
Nephrolepis Whitmani	2	1.25	10.00	
Phoenix Reclinata	4		3.00	
"	6 in		5.00	
Pandanus Utilis	5 in		5.00	
"	6 in		6.00	

The Geo. Wittbold Co.

1657 Buckingham Place, CHICAGO, ILL.

FERNS

MY SPECIALTY
CIBOTIUM SCHIEDEL, King of Ferns; looks, grows, keeps and sells good. 3-in., \$3.00 per doz.; \$20.00 per 100. 4 in., 35c. each; \$4.00 per doz.; \$30.00 per 100. 7 in., \$1.60 each; \$19.00 per doz.; \$150.00 per 100. For larger sizes, prices on application.
ADIANTUM PARLEYENSE, 2 in., \$1.20 per doz.; \$9.00 per 100; \$85.00 per 1000.
ADIANTUM RHODOPHYLLUM, 2 in., \$4.00 per 100.
ADIANTUM LATHAMI, 2 in., \$4.00 per 100.
 Fresh, home-grown fern spores always on hand. Write for list.
 Orders booked now for Fern Seedlings for June, July and August delivery. Over one million in stock, \$1.00 per 100; \$5.50 per 1000. Shipped in out of flats.
J. F. ANDERSON, Short Hills, N. J.

FOXGLOVE

Plants from 3-in. pots.....3¼c.
 Canterbury Bells, 3-in.....3¼c.
 Coreopsis lanceolata, 3-in.....3¼c.
 Lavender true, 2-in.....6c.

FERNS

Extra fine stock, 3-in. pots of Holly Fern, Polypodium aureolatum, Pteris cretica albo, etc., 5c. to close them out. Speak quick, only 1500 left.
 One No. 4 Weathered Boiler in good order, \$30.00. Also, 100 Boxes, 12x16; 20 Boxes, 8x10, glass.
R. G. HANFORD, Norwalk, Conn.

ROBERT CRAIG & CO. ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS
 Market and 49th Sts. PHILADELPHIA, PA.

Prices Advertised in these Columns are for

BOXWOOD

Bushes per pair, 50c., 75c., \$1.00, \$1.25 and \$1.50.
 English Ivy, \$2.00 per doz., \$16.00 per 100.
 Anthericum, variegated for vases, \$1.50 per doz.
 Aspidistras, green, \$12.00 per doz. in 6 in. pots; \$18.00 per doz. in 6½ in. pots.
 Latania or Livistona Sinensis, 7 in. pots, \$15.00 per doz.; 8 in. pots, \$18.00 per doz.
 Dracaena Indivisa, 5½ in. pots, \$4.00 and \$6.00 per doz.
 Dracaena Fragrans, 6 in. pots, \$6.00 per doz.
 Asparagus Sprengerii, 3½ in. pots, \$1.25 per doz., \$10.00 per 100.
 Kentias, 60c. up to \$15.00 all sizes. Combinations, \$3.80 to \$10.00 each.
 Arancaria Excelsa, \$2.00 to \$3.00 each, 8 in. and 9 in. pots, 4½x5 in. pots, \$6.00 and \$9.00 per doz.
 Araucaria Plumosa, new 6 in., 1 ft. high, \$12.00 per doz.
 Fern Balls, 6 in., \$4.00 per doz.; 8 in., \$6.00 per doz.
 50c. for packing and boxes for every \$10.00 worth of goods ordered.

ANTON SCHULTHEIS P. O. Box 78. College Point, L. I. N. Y.

PHOENIX RECLINATA

6-in. pots, 20 to 24 in. high above pot, 2 ft. spread, 75c each.
 8-in. pots, 24 to 30 in. high above pot, 3 ft. spread, \$1.50 each.
 9-in. tubs, 36 to 42 in. high above tub, 4 ft. spread, \$2.50 each.
 Fine, strong plants. Have only a limited number and have put the price low to close them out.

JOSEPH HEACOCK COMPANY, Wyncote, Pa.

FERNS Orchids

We have on hand splendid importations of **Cattleya Gigas, Cattleya Labiata, Cattleya Schroederiae and Oncidium Kramerianum**
 Write for our tempting prices
JULIUS ROEHRS CO.
 Orchid Growers and Importers
 RUTHERFORD, N. J.

JOHN BADER, MT. TROY, ALLEGHENY, PA.

FERNS

Boston and Scottii, also a few Pierstonii, same price, 6 in., 40c.; 4 in., 15c.; Whitmani, 6 in., 75c. each.
KENTIA Belmoreana, 2½ in., \$10.00 per 100.
H. WESTON, Hempstead, N. Y.

NEPHROLEPIS

Whitmani, 2¼ in., \$10.00 per 100.
 Boston, 2¼ in., \$3.00 per 100.
Henry H. Barrows & Son, Whitman, Mass.

FERNS

Assorted, for jardiniere, strong, healthy plants, from 2½ in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.
Pteris Adiantoides, 3 in. pots, \$5.00 per 100.
Cibotium Schiedel, 6 in. pots, \$1.00 each.
FRANK N. ESKESEN, Main St., Madison, N. J.

Your Money is well spent when you advertise in
THE FLORISTS' EXCHANGE
 THE TRADE ONLY—When Writing Please Mention

Hydrangea Otaksa, Asparagus Sprengerii, Vinca Variegata

2¼ in., at \$2.50 per 100.
Grevillea Robusta out of 4 in. window boxes and decorative purposes, \$15.00 per 100.

ROSES Bride, Gate, Ivory, Perle and Maids, out of 3 in., \$6.00 per 100; \$55.00 per 1000.

Hydrangea Otaksa 15,000. Or-Fall delivery. Prices on application.
JOHN C. HATCHER, Amsterdam, N. Y.

To Clean Up Surplus Stock

WE OFFER THE FOLLOWING:
AGERATUMS, 2½ in., \$2.50 per 100.
ALTERNANTHERAS, 2 in., red and yellow, \$2.00 per 100.
BEGONIAS, 3 in., flowering, \$4.00 per 100.
LOBELIAS, 2½ in., dwarf and trailing, \$2.50 per 100.
GERANIUMS, 3½ in., standard varieties, \$7.00 per 100.
SALVIA, 3½ in., Splendens, bushy plants, \$7.00 per 100.
HELIOTROPES, 3½ in., \$7.00 per 100.
IVY GERANIUMS, 4 in., \$8.00 per 100.
 CASH WITH ORDER.

DENYS ZIRNGIEBEL, Needham, Mass.
 GREENDALE CONSERVATORIES
 Established 1865.

Alternanthera

P. Major, 2-in., 2c. Aurea Nana, Bo-gee, 2-in., 2c.
AGERATUM, Pauline, Gurney, 2-in., 1¼c.
ASTERS, Semple's, pink, white, crimson, and purple, \$3.00 per 1000.
CENTAUREA GYMNOCARPA, Dusty Miller, 2-in., 1¼c.
COLIBS, Golden Bedder and Verschaffeltii, etc., 2-in., 1¼c.
HELIOTROPE, dark, 2-in., 1¼c.
STEVIA, dwarf, 2-in., 2c.
ROOTED CUTTINGS, prepaid per 100.
 Ageratum, Gurney, 60c. Salvia, Bonfire, 90c. Alternanthera, 3 kinds, 50c. Flowering Begonias, 3 kinds, \$1.25. Colans, 10 kinds, 50c. Swainsona Alba, \$1.00. Cash or C. O. D.
BYER BROS., Chambersburg, Pa.

HELIOTROPES FOR SALE

3-3½ and 4 in. pots, strong, bushy plants, just coming in bloom, \$3.00, \$4.00 and \$6.00 per 100.
 Cash with order, please.

PATERSON ROSE COMPANY, Paterson, N. J.

Variegated Agaves

FOR SALE, ranging in size from 8 ft. high to 6 inches. Will sell cheap on account of moving.
M. BULLOCKE
 85th St. and 2nd Ave., BROOKLYN, N. Y.

FERNS

Table Ferns in flats, the best assorted varieties at very reasonable prices. To be ready for delivery July 1.
EMILE N. SAVOY, Secaucus, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the world.
Sander, St. Albans, England
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 225 Broadway, Room 1, New York City

ORCHIDS ORCHIDS

Arrived in fine condition, **Cattleya Percivaliana**, **Gigas**, **Sanderas**, **Speciosissima** and **Oncidium Kramerianum** and others. Write for prices. Telephone, 143 Madison, N. J.
ORDONEZ, DE NAVE CO., MADISON, N. J.
 8 SHAMPSON AV., P. O. BOX 105
 THE FLORISTS' EXCHANGE.

VARIEGATED FUNKIAS

out of 3 in pots, \$5.00 per 100
K. E. JUUL, Elizabeth, N. J.

**READY
TO MAIL**

**READY
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You Must Have It

To be Up-to-Date



THE cultivation of Water Lilies and other Aquatics is yearly attracting more and more attention. These beautiful subjects interest **THE COMMERCIAL FLOEBIST** because, when in season, of their great adaptability to window display and other forms of decoration to which, in the warm Summer days, the flowers lend a cool and refreshing influence all their own, to say nothing of their many, varied, and gorgeous colors.

THE PARK SUPERINTENDENT, always alive to cater to the desires and predilections of

the people, is installing Water Gardens in these public breathing spots all over the country, thus meeting a popular demand and providing park frequenters with an unsurpassed treat in Floraldom which is highly appreciated.

THE LANDSCAPE GARDENER, the Private Gardener, and the Estate Superintendent, all acknowledge the great value and beauty of Water Lily ponds and basins in well executed garden designs, and there is now hardly a garden of any pretensions without this form of aquatic adornment.

THE AMATEUR GARDENER and plant lover generally is no less enthusiastic over this class of charming plants, the cultivation of which is so peculiarly fascinating and healthful.

In consequence of the foregoing facts, there has arisen a great demand for plain, practical instructions on the culture of Water Lilies and other Aquatics. To meet this condition we now present

THE BOOK OF WATER GARDENING

MR. BISSET, who is superintendent of the beautiful estate "Twin Oaks," belonging to Mrs. Gardiner Hubbard, at Washington, D. C., has been a devoted, lifelong student of this class of plants, has originated some of the handsomest seedling Nymphaeas now in cultivation, and has under his charge at the present time one of the largest and most complete Water Gardens to be found in the United States. In this book he gives the results of his many years of experience, and it can safely be asserted that never before has the subject of Water Gardening been so concisely yet so fully and interestingly treated. The teachings of Mr. Bisset, faithfully followed, can lead but to success.

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THE
**BOOK OF WATER
GARDENING**

GIVING IN FULL DETAIL ALL THE PRACTICAL INFORMATION NECESSARY TO THE SELECTION, GROUPING AND SUCCESSFUL CULTIVATION OF AQUATIC AND OTHER PLANTS REQUIRED IN THE MAKING OF A WATER GARDEN AND ITS SURROUNDINGS, AND COVERING ALL CONDITIONS FROM THAT OF THE AMATEUR WITH A FEW PLANTS IN TUBS TO THE LARGE ESTATE OR PARK

BY

PETER BISSET

PROFUSELY ILLUSTRATED WITH ONE HUNDRED AND TWENTY HALFTONES SEVENTEEN DIAGRAMS AND TWO DOUBLE PAGE PLATES

PRICE, POSTPAID, \$2.50

THE FLORISTS' EXCHANGE

CLASSIFIED ADVERTISEMENTS

Cash with order.

The columns under this heading are reserved for advertisements of stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line (7 words to the line), set solid, without display. No advt. accepted for less than thirty cents.

Display advertisements in these columns, 15 cents per line; count 12 lines agate to the inch.

[If replies to Help Wanted, Situation Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]

Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

SITUATIONS WANTED

SITUATION WANTED—By young florist on large establishment. Honest, sober and industrious. Address, N. N., care The Florists' Exchange.

SITUATION WANTED—Hollander wishes position in greenhouses; 12 year's experience and best of references. Address, C. H., 102 Pike street, Port Jervis, N. Y.

SITUATION WANTED—As foreman or first hand by thoroughly practical nurseryman. Best of references. Address, E. I. Tinga, Franklin, Mass.

SITUATION WANTED—By a single man, aged 45, up-to-date in all greenhouses and commercial work. Address, with wages and particulars, James O'Brien, 6 Roosevelt Avenue, Jersey City, N. J.

SITUATION WANTED—As working foreman or as head gardener on private place. New England States preferred. Aged 38, married and best of references. Address, N. Z., care The Florists' Exchange.

SITUATION WANTED—As assistant on good commercial place where roses and carnations are grown. Have little experience, aged 22. Address full particulars to Wm. R. Seymour, Glen Cove, N. Y.

SITUATION WANTED—By first-class propagator and foreman of hardy perennials and nursery stock. Best of references. State wages and particulars at once. Address, C. W. Schneider, florist, Little Silver, N. J.

SITUATION WANTED—As foreman, 20 years' experience with cut flowers, pot plants, vegetables, nursery stock and landscape gardening. Good wages and good treatment expected. References. Address, Box 82, Millbrook, N. Y.

SITUATION WANTED—Young Swede, 19, wishes position in a small place, strong and willing worker, experienced in greenhouse and store work; state wages in first letter. Address, A. E. Pederson, 207 27th Street, Brooklyn, N. Y.

SITUATION WANTED—By experienced florist as foreman or grower on commercial place. References as to being capable, reliable and sober, also good designer. American, married man. New York State or N. E. preferred. Address, N. Y., care The Florists' Exchange.

SITUATION WANTED—Young man, 22, single, reliable, with experience in all kinds of garden and greenhouse work, wants steady position as gardener or assistant on private place. Speaks French and German; one year in this country. Address, N. H., care The Florists' Exchange.

HELP WANTED

WANTED—Experienced foreman for rose establishment. Salary, \$100.00 per month and dwelling house. Address, N. S., care The Florists' Exchange.

WANTED—A competent, single man to take charge of a section of tea rose houses. Good wages. Address, A. R., florist, Madison, N. J.

WANTED—Two rose growers to work under foreman. Wages \$35.00 per month. Address, N. B., care The Florists' Exchange.

WANTED—A competent florist; one who knows the business of making up bouquets and floral designs for funerals, weddings, bouquets, etc., all work pertaining to the florist business (not growers). Will give a capable man an interest in the business, as much stock as he would like to have—large or small; will give such a man the entire charge and management of the business. In a growing southern city, healthy climate, and a fine, well-established business, with a best class of trade. About a \$15,000 business last year, with a bright prospect of a large increase the coming year. This is an unusually fine opportunity for a man with some capital, who wishes to take an interest in the concern and manage a first-class florist store. Address, J. M. C., care The Florists' Exchange.

WANTED—A man to water and wash palms; married man preferred. Apply I. H. Eisenberg, 440 Albert street, L. I. City, N. Y.

WANTED—On large, up-to-date place, two young men with some experience in rose houses. Address with references, E. E., care The Florists' Exchange.

WANTED—An experienced working foreman on commercial place; must be good rose and carnation grower. Address, with references, Weeks, 366-8 West 11th street, New York City.

WANTED—A young man on commercial place, who understands propagating and greenhouse work. Address, giving references, Fancher Creek Nurseries, Fresno, California.

WANTED—By July 1, young man on private place with some experience in garden work. Wages, \$45.00 per month; board \$18.00. Permanent situation. Oscar Carlson, Box 233, Fairfield, Conn.

WANTED—Good man as grower; smilax, asparagus, vegetable plants and cold frame work. Steady position in right man; wages according to ability. Eden Nurseries, Port Allegheny, Pa.

WANTED—Experienced rose and carnation growers to take charge of sections. Give references and wages expected in first letter. Laka View Rose Gardens, Jamestown, N. Y.

WANTED—Thoroughly competent traveling salesman for the wholesale seed trade; a large salary will be paid to those who can command good trade. Address with full particulars. P. O. Box 1594, Philadelphia, Pa.

WANTED—A married man as assistant gardener on private place. Wife must be willing to do laundry work for small family. Send references and state wages expected in first letter. Address, E. L. E., care The Florists' Exchange.

WANTED IN SEED STORE—Experienced man to take charge of flower seed and bulb department. A first class, permanent situation to right party. State experience, salary wanted and whether any experience on the road. Address, Seeds, care The Florists' Exchange.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets, in the middle West. Married man preferred. State age, nationality, wages, etc. Address, G. H., care The Florists' Exchange.

WANTED—Two men to work in greenhouses; must have at least two years' experience. Single men preferred. A good, steady position in the right party. Please state wages and furnish references from former employer. Address, P. O. Box 783, Columbus, O.

WANTED—Good, all-around man, single or married, to take charge of private place. Must be sober and willing, and able to take full charge of a new place. Good position for right party. Address, Wachendorf Bros., Atlanta, Ga.

WANTED—A good grower of carnations and roses, German, married preferred. Must thoroughly understand his business as grower. To such a man I will pay \$15 per week as a start. Give references from last employer in first letter. Address, Muskogee Carnation Company, Muskogee, Okla.

WANTED—A man with several years' experience to take charge of our mail order plant trade. One who has had experience in handling both mail and express orders, also must be a good propagator. Please furnish references and state wages. Address, P. O. Box 783, Columbus, O.

WANTED—Rose grower to take charge of one house, 200 feet long x 43 feet wide. Must be able to grow first-class stock. Single man. Apply, stating wages required, enclosing copy of testimonials. Address, S. S. Bain, 463 St. Catherine street West, Montreal, Canada.

WANTED—Experienced rose growers; wages, \$45.00 per month and \$1 additional for each full Sunday and full holiday worked; also twelve days vacation during the year. State experience, age, etc. in first letter, sending references. Benjamin Dorrance, Dorrance, Pa.

WANTED—A young man to learn the florist business, growing fancy carnations and general stock. Must be intelligent, industrious and of good habits, with no outside interests. A permanent position for the right man; \$20.00 per month with board and room to start. Send references in first letter. John Curwen, Berwyn, Chester Co., Pa.

WANTED—First-class salesman for nursery stock; must have experience and understand the business and a hustler. Address, with reference and full particulars. Address, E. A. E., care The Florists' Exchange.

WANTED—The services of a well-informed gardener of good, personal presence and fluent of speech, who has retired from active work, but is able to travel around freely, to represent the advertiser, and sell his books, or half a dozen, as he is well known to half a dozen, by experts, especially written for the gardening and florist craft. Straight commission, or would give salary and commission to a competent party. Address by letter with full particulars, Horticultural, care P. O. Box 1697, New York City.

MISCELLANEOUS WANTS

WANTED—At once, to buy second-hand, greenhouse, double thick glass. Geo. Brooks, W. Willington, Conn.

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, F. W., care The Florists' Exchange.

WANTED—First-class greenhouse plant. Will buy on easy terms. Must be within twenty miles of New York. Write full particulars to C., care The Florists' Exchange.

WANTED—Partner to take interest in a modern greenhouse establishment of about 100 thousand square feet of glass. Must be able to invest from twenty to twenty-five thousand dollars. Correspondents must give some assurance of their reliability and business standing to insure prompt reply. Address, E. C., care The Florists' Exchange.

FOR SALE OR RENT

TO LET RETAIL FLORIST STORE—With three greenhouses attached; great chance for the right man, at 98 Broad street, Newark, N. J. Address, Thomas Elsum, 243 Belleville avenue, Newark, N. J.

FOR SALE—Seven acres of land, four greenhouses, seven-roomed dwelling house; horse, wagon, tools, etc. Situated in a desirable locality on Long Island; one mile from station; 20 miles from New York. Address, R. M., care The Florists' Exchange.

GOOD OPPORTUNITY for a florist; a good paying retail business in Philadelphia, Pa., established over 15 years, in good neighborhood; northern part of city. For full particulars address, M. R., care The Florists' Exchange.

FOR SALE—Or lease, seven roomed modern house, greenhouse of 8,000 feet of glass, cypress built, steam-heated. One and a half blocks from city cemetery; one half block from best street car line in a city of 80,000. Established in pleasant location, fifteen years. Car extra possession any time after June 3. For information in full, address, Z., care The Florists' Exchange. No trifter need apply.

STOCK FOR SALE

SALVIA, fine stock, 2 1/2 in., \$3.00; 3 1/2 in., \$5.00. Joseph Wood, Spring Valley, N. Y.

ASTER PLANTS, all the leading varieties, 40c. per 100; \$3.00 per 1,000. Paul Tuomson, West Hartford, Conn.

ROSES, Bride, Bridesmaid, Ivory, 2 1/2 in., \$1.00; 3 in., \$3.00; 4 in., \$4.00; 5 in., \$5.00; 6 in., \$6.00; 7 in., \$7.00; 8 in., \$8.00; 9 in., \$9.00; 10 in., \$10.00. Wm. B. Sands, Lake Roland, Baltimore, Md.

CARNATIONS—10,000 first-class Enchanter, field grown, August 1 delivery. Ask for prices. Wa-no-ka Greenhouses, Barneveld, N. Y.

COLEUS, in standard varieties, 2 1/2 in. stock, at 2c. FUCHSIA, 3/4 and 4 in. stock, fine, five best varieties, mixed, at 5c. Cash with order. Le Page Brothers, P. O. Box 526, Stamford, Conn.

CABBAGE, Early, Late and Premium Flat Dutch, Succession, and Savoy, \$1.00 per 1000; \$8.50 per 10,000. Will have celery of all varieties by July 15. Samuel W. Shanklin, White Marsh, Balto Co., Md.

GERANIUMS, fine, healthy plants, from 4 in. pots, in bloom, 57c. per 100; were \$10.00, to \$15.00. Will do nicely for stock plants. All standard colors. Cash with order. The Geo. R. Geiger Estate, Nazareth, Pa.

BABY RAMBLER ROSES, fine, dormant stock, one year, \$12.00 per 100; 2 1/2 in. pots, extra well rooted, \$4.00 per 100; \$30.00 per 1,000. Orders booked for delivery now or at any time up to late Spring. Samples free. Brown Brothers Company, Rochester, N. Y.

CABBAGE, Succession, Autumn King, Flat Dutch and Savoy. My celery plants will be ready by July 20. Dahlia plants, from 2 in. pots, of the following varieties: A. D. Fish, Hundo, Sylvia Eureka, Fern Leaf Beauty, Standard Bearer, Progress, H. D. Hallock, Fashion and Twentieth Century. J. W. Brandt, Upper Falls, Md.

BOSTON FERNS, 6-5 1/2 and 6 in. pots, 25c, 35c and 40c.; large enough for 6 and 7 in. pots. Dracaena Indivisa, 4 in. pots, \$5.00 per 100. Strong rooted cuttings, English Ivy, 76c. per 100. Heliotrope, 2 1/2 in. pots, \$2.00 per 100. Mammoth, 2 1/2 in. pots, \$2.00 per 100. Chrysanthemums, 2 1/2 in. pots, all good varieties, \$2.00 per 100. Ageratum, Blue Perfection, very bushy, 2 1/2 in. pots, \$2.00 per 100. Verbena, Mammoth, mixed, in bud and bloom, 3 in. pots, \$3.00 per 100. Felicitas, 4 in. pots, \$5.00 per 100. Petunias, mixed, 2 in. pots, fine, \$2.50 per 100. Geraniums, 3 1/2 and 4 in. pots, in bud and bloom, \$5.00 and \$7.00 per 100. English Ivy, 4 in. pots, 5c. Cash with order, Brabant & Cornels, Somerville, N. J.

Thirty cents is the minimum charge for advertisements on this page.

FOR SALE

FOR SALE—12 hp upright steam boiler, practically new, complete, \$60.00. Also No. 4 Lord & Burnham at \$45.00. R. Gelb & Son, 229 Livingston street, Newark, N. J.

FOR SALE—A 20 hp, horizontal tubular boiler in excellent condition. Sold for want of use. Apply to Harry J. McFarland, Route No. 8, Marlshaton, Pa.

FOR SALE—Greenhouse material and hot bed sash, milled from Gulf Cypress, to any detail furnished. Oxford putty, specially made for greenhouse and hot bed sash. V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

CHARCOAL SCREENINGS.

KEEPS SOIL SWEET. Ask the editor, or send \$1.00 for 100 lb. bag. E. V. Sidell, Foughkeepsie, N. Y.

FOR SALE—About 300 boxes 10 x 12 glass, nearly all double thick, at \$1.67; also 100 boxes double thick ground glass, from 10 x 12 up to 16 x 20-22, including about 25 boxes of beat ground, at \$2.25. R. Gelb & Son, 229 Livingston Street, Newark, N. J.

FOR SALE—Two of the very handsomest glass delivery wagons in this city, including new harness. These wagons cost \$1,500 each and are the finest in this city. Almost new. Price very cheap. Our reason for disposing of them is, we are changing to gasoline delivery wagons. Fleischman Floral Company, 25th St. & B'way, New York City.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Cutter, which is fast coming into use by the growers. This season many thousands feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing a large business all through the season. Address, E. Hippard, Youngstown, O.

FOR SALE

PIPE Good serviceable second hand. No Junk, with new threads, 1 in. 2 1/2 in.; 1 1/2 in. 4 1/2 in.; 1 1/2 in. 5 1/2 in.; 2 in. 7 1/2 in.; 2 1/2 in. 10c.; 3 in. 14c.; 4 in. 19c.; ft. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy working, No. 1 cuts 16, \$2.1 in. \$3.00; No. 2 cuts 1 1/2-1 1/2 2 ins. \$4.00; Armstrong Adjustable No. 2 cuts 1/2 in. \$4.00; No. 3 cuts 1 1/2-1 1/2 2 ins. \$6.60.

PIPE CUTTERS Saunders, No. 1 cuts to 1 1/2 in. \$1.20; No. 2 cuts to 3 in. \$3.00; No. 2 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed, 12 in. grips 1 1/2 in. \$1.10; 18 in. grips 2 in. \$1.60; 24 in. grips 2 1/2 in. \$2.25; 36 in. grips 3 1/2 in. \$4.50.

PIPE VICES grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in. guaranteed; 12 1/2 in. for heavy work, guaranteed; 12 1/2 in.

HOT-BED SASH New; Gulf Cypress, 3 ft. x 6 ft. 80c.; glazed complete \$1.60 up. Second hand sash glazed, \$1.25, good condition.

GLASS New American, 60 ft. to the dozen, 12 in. double at \$3.00. 10 x 12, 12 x 12, 12 B. double, \$2.40 per box. 12 x 14 to 12 x 20 and 14 x 14 to 14 x 20 B. double, \$2.66 per box. 12 x 24 B. double, \$2.90 per box. 16 x 16 and 16 x 18, B. double, \$2.76 per box. 18 x 20 to 16 x 24, double, \$2.96 per box. N. X. 7 x 9, 8 x 10 old, single, \$1.60. 8 x 10 old, single, \$1.60. 10 x 14 second hand ground glass at \$1.60 per box.

MATERIAL AT WOODSIDE, L. I. Six 100 ft. greenhouses, barns, etc., 12x24 glass; three No. 16 Hitchlugs boilers; 4 in. cast iron pipe; open business wagon, etc.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

New Locust Posts 2 in. each, 4 in. 7 ft. long, 50c. each, 4 in. 8 ft. long, 60c. each. N. X.

METROPOLITAN MATERIAL CO.

Greenhouse Wreckers
1388-1408 Metropolitan Avenue, BROOKLYN, N. Y.

BUFFALO, N. Y.—Wm. F. Kasting visited Chicago last week, attending the national skat convention there.

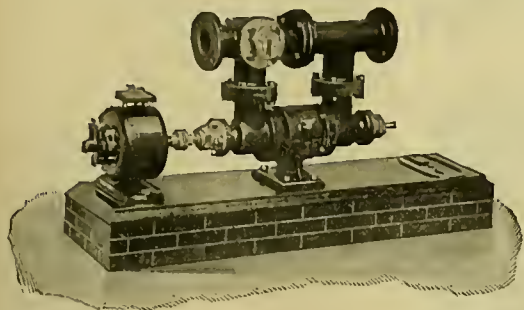
Emil Bruecker, the popular manager of the Wm. F. Kasting Company, has been confined to his home the past week with a bad attack of rheumatism.

Arthur Beyer has returned to his place of business, after having been confined to his home with the mumps.

Alex. Goldsmith Scott was unfortunately in spraining his ankle during the busy season. The accident was caused by stepping on a flower pot.

W. H. G.

The Electric Circulator



No greenhouse is properly equipped without this serviceable little device. It never fails. Read this.

Waverley, Mass., April 24, 1907.
 Mr. W. W. Castle, Boston, Mass.
 Dear Sir—It is a pleasure to recommend your Circulator for the very efficient work it does for me. I have two greenhouses, each 200 feet long, piped for steam with 1/4-inch pipes, and can operate them perfectly with hot water by using the Circulator; in a very short time it brings the returns nearly as hot as the flow. As I have two of the Circulators in use under different conditions, I am well able to judge of the work they are capable of doing, and would not like to part with either of them.

Yours truly,
 (Signed) William W. Edgar.
 Our New Steel Plate Boiler, built especially for greenhouse heating, is the best and most economical on the market. We do piping and fitting according to most approved methods and guarantee satisfaction.

HEATING ENGINEER.
W. W. CASTLE, 170 Summer St., Boston, Mass.

Greenhouses Given Away For Their Removal

I have several greenhouses that are in good condition; glass unbroken and ventilating apparatus, etc., good for years to come. I am looking for the right sort of party to give these houses to, if they will remove them *at once*. Are you that party? If so, come and see me immediately or write. Address your letter to

Mrs. Paul Bonner, STAMFORD, CONN.

ASPARAGUS PRIMROSES

Per 100
 60,000 Plumose Seedlings \$1.00
 Plumosus, 2 in. pots, July 10..... 2.00
 Sprengerl, 2 in. pots, ready..... 2.00
 ALTERNANTHERA, yellow and red 2.00

Per 100
 Chinese, Forbesi, Obconica, Alba and
 Rosea, July 1..... 2.00
 PANSY SEED, Large flowering, oz. \$4.00.

CASH

JOS. H. CUNNINGHAM, DELAWARE, O.

ASPARAGUS GERANIUMS

Ready to Ship. Per 100
ROBUSTUS, 3 in. pots.....\$5.00
PLUMOSUS, 2 1/2 in. pots.....3.50
SPRENGERI and **SMILAX**
 (small) 1.50

Rooted Cuttings, from sand.
 Send for list of varieties and prices.
 Next lot will be ready early in July.

SEND FOR COMPLETE LIST **ALBERT M. HERR, Lancaster, Pa.**

GERANIUMS Geraniums

FOR BEDDING OUT
 1,000 S. A. Nutt, 1,500 La Favorite, 1,000 Jean Vland, 500 Marquis de Castellane, 250 Alice of Vincennes, single variegated, very fine; Mrs. E. G. Hill, single colored Poitevine, fine trusses, all good plants, 3 1/2 in. pots, \$5.00 per 100.
HELIOTROPE, two varieties, 2 1/2 in. pots, \$5.00 per 100.
BEGONIA REX, 3 in. pots, \$4.00 per 100.
CANNA, Martha Washington, pink, 3 1/2 in. pots, \$5.00 per 100.
BEGONIA Vernon, 2 1/2 in. pots; very good, \$2.00 per 100.
VERBENAS, 3 in. pots, \$2.50 per 100.
HELIOTROPE, two varieties; **AGERATUM**, dwarf blue; **CUPHEA**, Cigar Plant, **LOBELIA**, dwarf; **THUNBERGIA**, 2 1/2 in. pots, \$2.00 per 100.

Finest Stock, best variety, most in bloom and bud, 4-in., \$4.00 per 100; \$36.00 per 1000; out of 2 1/2-in., \$2.00 per 100. Ivy Geraniums, 4-in., \$5.00 per 100.
Heliotrope, Fuchsia, Double Petunias, and Salvia, in bud and bloom, \$4.00 per 100.
Verbenas, Phlox, Dusty Millers, Cigar plants, Coleus, and Thunbergia, \$2.00 per 100, out 2 1/2-in. pots, fine plants in bud and bloom.

J. C. SCHMIDT, Bristol, Pa.
GERANIUMS 2 1/2 in. at \$2.00 per 100; \$18.00 per 1000, as follows:
 Ricard, Nutt, Atkinson, Vland, Castellane, Poitevine, Juan, Trego, Telegraph, 2 1/2 in. **FERNS**, Boston, Scottii, Piersoni, Barrowsii, \$3.00 per 100; \$25.00 per 1000. 3 in. Boston, Scottii, Piersoni, \$5.00 per 100; 4 in., \$10.00 per 100. 6 in. pans Piersoni, Boston, \$2.00 per doz. 8 in. pans Boston, \$5.00 per doz.

Cash with order.
WM. J. CHINNICK, TRENTON, N. J.

NATIONAL PLANT CO., Dayton, O.

GERANIUMS GERANIUMS

The following varieties in 4-in. pots, in bud and bloom, in fine condition:
 S. A. Nutt, Beante Poitevine, La Favorite, John Doyle, Bruanti, Mar. Castellane, Trago, Mme. Buchner, Richard Bratt, Ricard, Francis Parkins, Jean Vland, Double Grant, Mar. De Montmort, and several others, \$6.00 per 100. The selection of sorts to remain with us.
 Cash must accompany all orders.
J. E. FELTHOUSEN, 154 Van Vranken Ave. SCHENECTADY, N. Y.

GERANIUMS

Grant, Poitevine, and Buchner, in bud and bloom; strong, 2 1/2-4 in., \$4.00 per 100; \$35.00 per 1000; 3 in., \$3.00 per 100; \$25.00 per 1000.
CANNAS, 3 in., \$3.00 per 100.
 Cash.
WM. S. HERZOG - Morris Plains, N. J.

GERANIUMS

3,000 S. A. Nutt, 3,000 Perkins from 4 in. pots, all fine plants in bud and bloom.
CROZY CANNAS, fine stock.
A. N. KINNEY,
 West 200 St. and Fort Washington Av. **NEW YORK CITY**

GERANIUMS

3 in., \$2.50 per 100; **CHRYSANTHEMUMS**, 2 1/2 in., \$2.00 per 100. **SALVIA** and **HELIOTROPE**, 2 1/2 in., \$2.00 per 100. **CANNAS**, \$1.50 per 100. Cash with order please.
W. H. PARSIL, R. F. D. No. 3, Chatham, N. J.

GERANIUMS

Buchner, Poitevine, Doyle, 3 in., \$3.00 per 100. Coleus, Golden Bedder, C. Verschaffeltii and others, 2 in., \$1.50 per 100; \$15.00 per 1000. **Fancy Plants**, \$1.00 per 100; \$8.00 per 1000. **Ageratum, Phlox, Verbenas, Marguerite Carnations**, 2 in. pots, \$1.50 per 100. Cash with order.
Ernest Harris, Delanson, N. Y.

GERANIUMS

RICARD, POITEVINE, VIAUD, DOYLE, 3 in., bushy plants, \$4.00 per 100. Rooted cuttings, \$10.00 per 1000. Cash with order.
PETER BROWN, Lancaster, Pa.

GERANIUMS

Fine 4 in. stock, \$6.00 per 100; \$60.00 per 1,000.
CALIFORNIA VIOLETS, well rooted, cold frame grown, \$1.00 per 100; \$3.00 per 1,000.
CHRYSANTHEMUMS, J. Nonin, fine plants, cold frame grown, \$3.00 per 100; \$25.00 per 1,000. Cash with order.
Idlewild Greenhouses, 89 So. Main St., Memphis, Tenn.

GERANIUMS

S. A. NUTT, in bloom, \$6.00 per 100. Cash.
HENRY EICHHOLZ, Waynesboro, Pa.

10,000 VINCAS—5,000 ROSES

Flae Vincas, from 2 1/2 in. at \$2.50 per 100; or \$23.50 per 1000.
BRIDE and BRIDESMAID ROSES, from 3 in. pots, at \$4.00 per 100; or \$35.00 per 1000. Good stock. Cash with order.

W. T. HILLBORN, STATE STREET GARDENS, NEWTOWN, PA.

CHRYSANTHEMUMS

ROOTED CUTTINGS
 3,000 Ivory, white, 2,500 Alice Byron, 600 each, M. Mann, Robt. Halliday, M. Bonafon, Mrs. Whilldin, \$2.00 per 100; \$15.00 per 1000. Cash with order or C. O. D.
WM. SWAYNE, Box 226, Kennett Square, Pa.

SURPLUS GERANIUMS

500 S. A. Nutt, 3 1/2 and 4 in., \$6.00 and \$7.00 per 100; 200 Mme. Buchner, 4 in., \$6.00 per 100. 500 **STOCK PLANTS**, Nutt, Telegraph and Buchner, 5 in., \$8.00 per 100. Stock A No. 1, in bud and bloom.
 Cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.

CHRYSANTHEMUMS CARNATIONS and ROSES

Novelties and all the standard varieties. **MOSCHOSMA RIPARIUM**, a valuable and Christmas flowering plant. Write for descriptive circular and price list.
CHARLES H. TOTTY, Madison, N. J.

CHRYSANTHEMUMS

Ivory, strong pot plants, \$3.00 per 100; 500 at \$2.50; 1,000 at \$2.00.
 Bea Wells, strong pot plants, \$2.00 per 100. Golden Wedding, strong pot plants, \$2.00 per 100.

THE FLORISTS' EXCHANGE, Frankia & St. Paul Sts., BALTIMORE, Md.

CHRYSANTHEMUMS

150 Marie Liger, 200 Jones, 100 Beatrice May, at \$7.00 per 100. 1,000 White and Yellow Bonaffon, 100 Ivory, 250 Yellow Eaton, 160 Halliday, 100 Polly Rose, 125 Willowbrook, 150 Enguehard, 300 Appleton, \$2.00 per 100; 2 1/2 in. pots. Cash with order.

ARZBERGER & RICHTER, Pleasantville, Westchester Co., N. Y.

400 PETUNIAS

ROSE QUEEN in bloom, from 2 1/2 in. pots, to close out, \$1.50 per 100; or \$5.00 for the lot.

J. S. BLOOM, Riegelsville, Pa.

Chrysanthemums

The best marketable varieties in 2 1/2 in. pots 6 to 8 ins. high at \$25.00 per 1000. The Best for cut.

ANTON SCHULTHEIS, 316 19th St., College Point, L. I.

GERANIUMS

all in 4 in. double and single, red, double pink, \$5.00 per 100; Mme. Sallerot, \$2.00 per 100; **AGERATUM**, blue, in 3 in., \$2.00 per 100; **FUCHSIAS**, in 3 in., \$3.00 per 100; **VERBENAS**, in 3 in., \$3.00 per 100; **LOBELIA**, blue, \$2.00 per 100.
 Cash with order.

C. A. PETERSON, Millburn, N. J.

ALTERNANTHERA

Red and Yellow

VERSCHAEFFELDTI COLEUS

Extra fine, at \$20.00 per 1000.

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

Indianapolis, Ind.

News Notes.
 The florists' picnic will be held June 26 at Willowmere. The invitation has been extended by R. F. Harritt and mother. An enjoyable time is anticipated.

ASTERS

Simple's, 5 colors, by mail 40c. per 100; \$3.00 per 1000 by express.

- Per 100 2.00
- PHLOX dwarf compacta 2 in.
- CENTAUREA GYMNOCARPA, (dusty miller) 2 in. 2.00
- ZINNIAS, fine double, 2 in. 1.00
- COSMOS, early dwarf and giant, 2 in. 1.00
- ASPARAGUS Sprengeri, strong, 3-in., \$5.00 per 100; 2-in., fine, \$2.50 per 100.

Cash with order please
GEO. J. HUGHES, Berlin, N. J.

CYCLAMEN

Splendens Giganteum Hybrids

This strain has no equal or better, in five true colors, including fringed varieties, well grown plants, from 2 1/2-in. pots \$5.00, from 3-in. pots \$7.00 per 100. Satisfaction guaranteed.

PAUL MADER, East Straudsburg, Pa.

POINSETTIAS

2 1/2 in. pots. \$5.00 per 100; \$40.00 per 1000. 5 per cent. discount on all orders received before July 1st accompanied by cash. July and August delivery.

S. N. PENTECOST, 1790-1810 EAST 101st ST., CLEVELAND, OHIO

ASPARAGUS SPRENGERI

2 in., strong, stocky plants, \$2.50 per 100; \$20.00 per 1000.
DAHLIAS, best varieties, assorted, \$3.00 per 100.

DEAN FERRIS, Peekskill, N. Y.

Aster Plants

Simple Branching and Queen of the Market, fine plants grown from the best seed, \$2.50 per 1000; 5000 for \$10.00.

J. C. SCHMIDT, Bristol, Pa.

Begonia Gloire De Lorraine

The finest leaf cuttings obtainable For delivery from May 1st, 2 1/2 in. pots \$12.00 per 100, \$100.00 per 1000.

Order at once.
JULIUS ROEHR'S COMPANY, Exotic Nurseries, Rutherford, N. J.

SEMPLÉ'S ASTERS

Field-grown, ready to plant out. White, Shell Pink, Bright Pink and Purple, \$2.50 per 1000. Oimstead's White, best second early ASTER for florists' use in cultivation \$3.00 per 1000.

A. & G. ROSBACH, Pemberton, N. J.

FOR SALE

2,000 Asparagus Sprengeri, from bench, 2 and 3 years old, \$6.00 per 100 and \$50.00 per 1,000.

DE PEW BROTHERS, Cor. Piermont and De Pew Aves, Nyack, N.Y.

GOVERNOR HERRICK VIOLET

The new single violet. Fine, strong, healthy plants, \$5.00 per 100; \$50.00 per 1000. Write me about it to-day.

LOUIS D. Mc COY, Spring Valley, N. Y.

300,000 ASTER PLANTS Queen of the Market, in white, pink and mixed colors; late branching, white, pink, lavender and mixed colors; Ostrich Feather, Ray Aster and Victoria, strong, stocky plants, ready to plant out at \$2.50 per 1000; in 5000 lots, \$2.00 per 1000.
Gustav Fitzonka, Bristol, Pa.

SECOND IMPORTATION

ONCIDIUM VARICOSUM ROGERSII

JUST ARRIVED IN FINE CONDITION.

This Orchid is one of the most popular and free-flowering types of the Oncidium family. *Oncidium varicosum Rogersii* throws 3-foot stems, bearing as many as 170 blossoms of a rich, golden yellow, 2 inches and over in diameter, and can be successfully grown either on blocks of wood, in pots or in baskets, and flowers in November and December in a night temperature of 55 to 60 degrees.



Oncidium varicosum Rogersii

PRICES

- Strong Plants, \$1.00 each, \$10.00 per 12, \$75.00 per 100.
- Selected Plants, \$1.50 each, \$15.00 per 12, \$100.00 per 100.
- Extra Selected Plants, \$2.00 each, \$20.00 per 12, \$150.00 per 100.

ARTHUR T. BODDINGTON

342 West 14th Street - - New York City

GRAFTED ROSES

- FINE STOCK. READY NOW.
- Richmond, \$2.00 per doz., \$14.00 per 100, \$120.00 per 1000.
 - Killarney, \$2.00 per doz., \$15.00 per 100.
 - Etoile De France, 3 in. pots, \$3.00 per doz., \$18.00 per 100.
 - Kaiserin, Carnot, \$2.00 per doz., \$15.00 per 100.
 - Bride, Golden Gate, Wootton, 2 1/2 in. pots, \$2.00 per doz., \$12.00 per 100.

ROSES OWN ROOTS

- Blechnod, \$8.00 per 100; \$50.00 per 1000.
- Perle, Sunset, \$5.00 per 100
- Bride, Bridesmaid, Golden Gate, \$4.00 per 100; \$28.00 per 1000.

ASPARAGUS

- | | | |
|----------------------------------|---------|--------|
| PLUMOSUS NANUS, 2 1/2 in. pots.. | Per 100 | \$4.00 |
| " " " 3 in. pots .. | | 8.00 |
| " " " 4 in. pots .. | | 10.00 |
| SPRENGERI, 2 1/2 in. pots..... | | 8.00 |
| " " 3 in. pots..... | | 8.00 |
| " " 4 in. pots..... | | 8.00 |

CHRYSANTHEMUMS

- From 2 1/2 in. pots. Fine stock.
- Lady Cranston, F. S. Vallis, Merstham, red; Merstham, yellow; Mrs. Wm. Duckham, 75c. per doz.; \$5.00 per 100.
 - A. J. Balfour, Mrs. G. W. Childs, Alice Byron, Yellow Eaton, 60c. per doz.; \$4.00 per 100.
 - Dr. Enguehard, Geo. S. Kalb, Meta, Mrs. Coombs, Nagoya, Opah, Robert Halliday, Wm. Duckham, 60c. per doz.; \$4.00 per 100; \$30.00 per 1000.
 - Autumn Glory, Ada Spandling, Cremo, Cullingfordi, Dorothy Devens, Harry May, H. W. Rieman, J. E. Leger, J. H. Troy, Mrs. J. Jones, Mrs. Baer, Major Honasford, Niveus, Timothy Eaton, W. H. Lincoln, 50c. per doz.; \$3.00 per 100.

SEND FOR CATALOGUE
WOOD BROS., Fishkill, N. Y.
PLANT CULTURE Price \$1.00

The best book for the Plant Grower.
A. T. DE LA MARE PTG. & PUB. CO. LTD. 2 to 3 Duane St., NEW YORK

Plant Notes.

ROSES.—What the Baby Rambler was and still is a dwarf full blooming red rose, well adapted for uses innumerable, it may be that Anny Müller will be as a pink rose. This latter variety in habit of growth and other ways resembles Baby Rambler. The color of the flower is a bright, strong pink. The stock of this rose is yet somewhat limited.

There is also on the market a white rose called Schneewitchen (Snow Fairy), of the same type as the foregoing.

The new hybrid tea rose, Betty, recently introduced by Messrs. Dickson & Son, Belfast, Ireland, and offered this season for sale by Henry A. Dreer, Philadelphia, Pa., seems to be one of the many that are wanted by those desirous of having good roses that will bloom for a considerable length of time outdoors in Summer and Fall, a quality among many others this rose possesses. The blooms are very large and of excellent form, being exceedingly fragrant. In color it is what might be aptly called golden rose.

One of the best all-around hybrid tea roses for retail florists for cutting in Summer, is Grass an Teplitz; it produces flowers in amazing profusion for a long time; the color of the blooms is a very rich and desirable scarlet, with beautiful dark foliage. This rose is also a splendid hedger.

When florists are in need of roses in pots for decorative purposes, they will find in Lady Gay about as fascinating a thing as it is possible to procure in roses. The buds are a delicate pink, and the fully developed flowers are of an indescribable shade of subdued white, all of which, together with the deep green foliage, make a very desirable plant for many purposes.

MARGUERITE QUEEN ALEXANDRA makes a splendid pot plant. The flowers are double or semi-double and pure white. They stand well up over the foliage, making the plant when in flower especially desirable for window boxes. Along with scarlet geraniums they make a fine showing. At the residence of Mrs. H. M. Brooks, at Newport, R. I., where window boxes and boxes for balconies are given much attention, the greater number are this year filled with scarlet geraniums and Queen Alexandra marguerites.

CALCEOLARIA GOLDEN GEM, well grown in 6-inch pots, is well worth the trouble necessary for its production. These plants do not take kindly to a very warm temperature in Summer; a cold frame placed in a northerly exposure seems to suit them about right.

HYDRANGEA ARBORESCENS GRANDIFLORA ALBA.—That this plant will before very long be much used for forcing there is no doubt; and while it is of some merit as a lawn flowering shrub, I think it will be because of its adaptability for forcing that it will gain a claim for general recognition. At the greenhouses of Mrs. H. M. Brooks, Newport, R. I., there are a number now in flower. They are not in a greenhouse, but in a cold frame, Mr. Bond wishing to prolong their flowering period as much as possible.

BROWALLIAS are useful alike for outdoor planting, where they will bloom profusely all through the Summer, and for Winter service as decorative plants. Plants for outdoor work should by this time be planted; or as it is practicable to grow them from seeds sown in the open ground, that method may have been adopted. These plants thrive well where many plants of less value find it difficult to exist. Although browallias can be successfully lifted out of the open before frost threatens them, and potted up for further use, it is still better to sow seed now and grow them right on for pot plants. It is important for their successful cultivation to keep them growing near the glass. In order that the plants may grow up bushy and compact, it will be necessary to pinch them back frequently.

There are not many plants giving blue flowers that can be made, with so little trouble, to bloom in Midwinter as browallias; at Christmas they can be had in full flower with ease.

BORONIAS when in flower are exquisitely fragrant; in addition to that quality they possess fully as much merit as many heaths that are immeasurably harder to cultivate. Those having young plants now in course of cultivation should frequently pinch the young shoots in order that they may grow into

CANNAS

Strong plants from 3 1/2 in. pots (30 fine named varieties) \$6.00 and \$8.00 per 100.

MISCELLANEOUS PLANTS

Ready for Immediate Sales

	Size pots	Per 100
Achyranthus, Emersonii, etc.	2 1/2	\$3.00
Ageratum, White and blue	3	6.00
" Princess Pauline	2 1/2	3.00
Ailanthus, red and yellow	2 1/2	3.00
Ampelopsis, Veitchii, pot grown	3	8.00
Begonia, flowering varieties...	3 1/2	10.00
Begonia, flowering varieties...	2 1/2	4.00
Caphea Platycentra,	2 1/2	3.00
Canoea, fine Varieties as List.	2 1/2	6.00-8.00
Colens, all the leading Varieties	2 1/2	3.00
English Ivy	3 1/2	8.00
Fuchsia, double and single...	2 1/2	8.00
Geraniums, double and single, Strong	3 1/2	7.00
" Special Color or variety	3 1/2	8.00
" Double and single	3 1/2	3.00
" Ivy Leaved	3 1/2	8.00
" Ivy leaved double, best var.	2 1/2	4.00
Heliotrope, light and dark varieties	3 1/2	6.00
" "	2 1/2	3.00
Ivy, German	2 1/2	3.00
Lantana, 12 best varieties....	3 1/2	6.00
Moonflower	4	10.00
"	3 1/2	4.00
Petunias, single	2 1/2	3.00
Smilax,	3	5.50
Tropaeolum, double red and yellow	2 1/2	4.00
Verbenas, Mammoth Strain..	2 1/2	3.00
Violets, Marie Louise, \$3.00 per 100; \$26.00 per 1,000.		

VERBENAS

Best Mammoths, from pots.....\$3.00

The Largest Growers of Chrysanthemums in America

Rooted Cuttings out of sand.

From 2 1-2 in. pots, nice young stock.

White		Per 100	
October Frost, finest early white	.....	\$7.00	
Estelle	.....	1.50	
Wanamaker	.....	1.50	
Ivory	.....	2.00	
Mrs. Swinburne	.....	2.00	
C. Touset	.....	1.50	
Mrs. Jerome Jones	.....	2.00	
Polly Rose	.....	1.50	
J. Nonin	.....	2.00	
Yellow			
Monrovia	.....	2.50	
Yellow Mayflower	.....	1.50	
Yellow Jones	.....	2.00	
Col. Appleton	.....	1.50	
Mrs. Geo. Beech	.....	2.00	
Roi d'Italia	.....	1.50	
Chas. Cronin	.....	2.00	
Percy Plumridge	.....	1.50	
Maj. Bonnaffon	.....	1.50	
Oct. Sunshine	.....	1.50	

Pink		Per 100	
Mourner	.....	\$1.50	
Golden Beauty	.....	3.00	
Pink			
L. Filkins	.....	1.50	
Pink Ivory	.....	2.00	
Roelers	.....	2.00	
Lady Harriet	.....	3.00	
Glory of Pacific	.....	1.50	
Wm. Duckham	.....	1.50	
Mrs. Perrin	.....	1.50	
Marie Liser	.....	1.50	
Monogram	.....	1.50	
Caeb	.....	1.50	
Dr. Enguehard	.....	1.50	
M. F. Plant	.....	1.50	
J. K. Shaw	.....	1.50	
V. Morel	.....	1.50	
Red			
Intensely	.....	1.50	
Oakland	.....	1.50	
Black Hawk	.....	1.50	

Per 100		Per 1000	
W. Ivory	.....	\$2.50	
F. Ivory	.....	2.50	
Lady Harriet	.....	2.50	
M. Wanamaker	.....	2.00	
Per 1000			
Maj. Bonnaffon	.....	\$2.00	
Oct. Sunshine	.....	2.00	
C. Touset	.....	2.00	
Wm. Duckham	.....	2.00	

Roses from 2 1/2 inch pots

Per 100		Per 1000		We also offer the following fine young Rose stock:	
Brides	.....	\$3.00	\$25.00		
Bridesmaids	.....	3.00	25.00		
Richmond	.....	3.00	25.00		
Rosalind Orr English	.....	4.00	30.00		
Chatenay	.....	3.00	25.00		
Uncle John	.....	3.00	25.00		
				1500 American Beauty, 2 1/2 in. pots	Per 1000 \$45.00
				1500 3 in. pots	60.00
				3000 Richmond, 3 in. pots	35.00

WIETOR BROS., Wholesale Growers of Cut Flowers **51 Wabash Ave. CHICAGO**

Chrysanthemum Stock 2 1/4 in. Pots

PINK		Per 100		WHITE		Per 100	
A. J. Balfour	.....	2.50		Ivory	.....	\$2.25	
Dr. Enguehard	.....	2.50		Mad. Bergmann	.....	2.25	
Glory of the Pacific	.....	2.25		Alice Byron	.....	2.25	
Maud Dean	.....	2.50		Mrs. H. Robinson	.....	2.50	
Mrs. Coombs	.....	2.50		Polly Rose	.....	2.25	
Pink Ivory	.....	2.25		Timothy Eaton	.....	2.50	
YELLOW				White Dean	.....	3.50	
Col. D. Appleton	.....	2.50		CRIMSON			
Oct. Sunshine	.....	2.50		Black Hawk	.....	2.25	
Monrovia	.....	4.00		John Shrimpton	.....	2.25	
Gold Mine	.....	4.00					
Yel. Eaton	.....	3.50					
Major Bonnaffon	.....	2.25					

1000 our Selection, and varieties we grow for cut flowers ourselves, \$20.00. We do not care to send plants C. O. D., except to persons of approved credit, unless remittance accompanies order sufficient to cover express charges.

Edw. J. Taylor, Southport, Conn.

compact bushy plants. Those a year or more old should be cut back after flowering. The three most desirable varieties are B. elatior, B. megastigma, and B. heterophylla.

RICINUS.—For quick growth there are few subjects to beat the castor oil plants. They are desirable for massing because of the tropical effect of themselves, as well as for the effectual manner in which they screen objectionable objects in front of which they may be planted. These plants may also be found very useful as backgrounds for borders of plants of dwarf habit.

It may happen that blank spaces show up in small shrubby borders now at a time when it is not feasible to fill up permanently with plants of like character to those forming the main shrubbery; but if these spaces were left bare all through the Summer they would mar the appearance of things generally. Aucubas and box in tubs can be advantageously used to fill these vacant places. Both of these plants are especially desirable if the spots to be filled are shaded slightly from the sun, because they succeed under such conditions about as well as anything we know of in the nature of a shrub.

After coleuses have become established in their permanent quarters outdoors they ought to be pinched regularly in order to strengthen them as well as to bring the bed or border into effective shape as early as possible. Achyrantes should be treated similarly, when even surfaces are desirable. The latter plants will stand clipping in much the same manner

CHRYSANTHEMUMS

From 2 1/4-in. pots for sale.
October Frost, Beatrice May, Roelers, Goldmine, \$3.00 per 100.
Pacific, Omega, Merstham's Yellow, White Coombs, Appleton, Alice Byron, Balfour, Ivory, Pink Ivory, Brutus, Chadwick, Yellow Chadwick, Maud Dean, Helen Frick, Jeannie Nonin, General Macen, \$2.00 per 100.

Cash with order.
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as is usually practiced with alternanthera. Immediately after the planting of alternanthera a thorough watering should be given and then in a few days after the soil has dried up into workable condition, it ought to be scratched or stirred; if this is continued as much as possible for some little time the plants will by reason of the treatment come together much sooner than would be the case, if the soil were left untouched from the time they were planted.

It sometimes happens that there exists a scarcity of yellow coleus or yellow alternanthera at the last moment when it may be next to impossible to obtain the same. Pyrethrum would answer the purpose perhaps, and there may be quantities yet to be picked up around the place.
 D. M.

Oh when you want the business done, By play that's strong and steady, Just take a look at old Slug Shot, For that's the stuff that's ready.



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Aphis on Roses, Bugs on Melons,
Bugs on Asters, Cut Worms,
Sow Bugs, Lice on Fowls,
Curculio on Plums, Tobacco Worms,
&c.

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GREEN & BAYLIS, WEST GROVE, PA.

CHRYSANTHEMUMS

Polly Rose, Pacific, John K. Shaw and Enguehard, \$2.00 per 100; \$18.00 per 1,000. **GOLDEN BEDDER COLEUS, 2-in., \$1.50 per 100; \$15.00 per 1,000.** **ALTERNANTHERAS, red, \$2.00 per 100; \$18.00 per 1,000, all strong 2-in. stock.** **HELLOTOPE, 3-in., \$2.00 per 100.**

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REVIEW OF THE MARKET

NEW YORK.—The hot wave which struck the city early in the week has demoralized the cut flower market to quite a degree. Peonies are coming in in large quantities, and so far as prices on a great many of them go, there is nothing very stable about them, for while efforts have been made to get 75c. and \$1 per dozen for some of the fancy varieties, other kinds are freely offered at from \$1 to \$2 per 100. In addition to the regular supply that is grown for this market, we notice that consignments are being sent here from Philadelphia wholesalers. This would seem that even Philadelphia has a glut of peonies on her hands this season.

Both roses and carnations have suffered severely in quality during the last few days, and this makes it possible for those who have first-class stock to move a certain portion of it at figures that are little reduced from those obtained last week. At the same time, the bulk of the stock has to be cleared out at what seems to be a very low price, indeed, as certain grades of both roses and carnations can be obtained at 50c. per 100.

Lilies are quite plentiful, and are being cleared out at prices ranging anywhere from \$2 to \$4, a very few reaching the latter figure. Sweet peas are abundant, and in the main of very good quality, but a great many of them have to be moved at 3c. per bunch, if sold at all. Gardenias are still in supply, but it would seem that through the fact of these being offered so much by the street peddlers, the best stores are not handling them; consequently prices are down. Lily of the valley is a most difficult staple to dispose of, as are orchids just now. Perhaps before the end of the month there will be another spurt in these high-class flowers. Lilac is about over, but it is not missed, seeing that we have peonies with us, and the latter, no doubt, will be here for a couple of weeks yet.

CHICAGO.—The market has assumed a full fledged Summer garb and the conditions that prevailed last week were indicative that what may be termed the end of the season has arrived. Weddings and school graduations in other places (as flowers are tabooed for the latter in Chicago) are held out somewhat for the rest of this month, but at present the influx is so great that any reasonable demand on the market makes little or no impression. Stock generally continues good for the middle of June, and it has required considerable nerve for the grower to condemn bench after bench and house after house to the dump when the plants were still in prime condition and producing thousands of flowers, which would grade well among March and April products. Yet this work has been going on to a certain extent, though much less than usual at this season, and it is doubtful if there ever was so large a bench area contributing to the market at this time of the year as at present. However, Summer, the real article, arrived with the opening of this week and bids fair to continue for a spell at least, and with the present unfavorable state of the market house cleaning will doubtless now proceed with a rush.

The peony crop is also on in full force and all that arrive in fit condition are going into cold storage.

The fern market has eased off a little, but ferns are still good property; in fact for those that have them perhaps the brightest spot in rather gloomy surroundings. W. K. W.

CINCINNATI.—The past week has seen a remarkable change in the market. Loads of stock of all kinds came in which required hard pushing to move, carnations especially. But at this writing the market is on an easier footing. Bride and Bridesmaid roses are holding up fairly well in quality, and selling at 2c., 3c., 4c. and 5c.; the best carnations bring \$1 to \$2; peonies, \$3 per 100; stocks, 2c.; snapdragon, 50c. to 75c. per bunch; sweet peas, 35c. to 50c. per 100; fine fancy ferns, \$1.50 per 1000; smilax, 12 1/2c. to 15c. Now that July is approaching it is beginning to look a little Summerish. C. E. Critchell was in Atlanta last week for a few days. C. J. Ohmer will arrive home from California and Yellowstone Park on Wednesday. E. G. G.

PHILADELPHIA.—Cut flower conditions are very bad here this week; there is a perfect glut of all kinds of stock. The warm weather is bringing out all varieties of peonies very fast; and there is practically no demand for them locally. On Monday one wholesale house received 20,000 peonies, and nearly as many came in on Tuesday. Many lots were offered to a retailer at \$1 per 100 and was refused. It is entirely out of the question to quote prices on any kind of stock; the wholesalers are satisfied if the flowers go out at any price the retailer may offer. DAVID RUST.

INDIANAPOLIS, IND.—The unusual counter trade enjoyed the past six weeks, which is attributed to cool, unseasonable weather, has quieted down. The public rapidly forgets the shop upon the arrival of Summer temperature. Funeral work and June weddings are very plentiful, so much of the avalanche of stock is disposed of. Carnations, which have maintained such a high quality this Spring, are now putting forth a wonderful crop. Prices have decreased to \$1.50 to \$2 per 100, but it is impossible to find a market for such numbers. Other flowers, such as candytuft, lilies and feverfew, are flooding the market. Peonies are not as large as customarily, but there are thousands offered as low as \$2 per 100; the store men are asking 75c. a dozen for them. Sweet peas, particularly white for wedding bouquets, are always in demand at 50c. to \$1 per 100. Swainsona sells well, at \$1 per 100 sprays.

Roses have been outselling other kinds of flowers lately on account of the numerous commencements. The local cut is not always sufficient, and many are shipped in from Chicago. Richmond has no superior at \$6 to \$10 per 100. Bride and Bridesmaid are becoming small, at \$4 to \$6 per 100. Fine Killarney are shipped here at \$6 to \$8 per 100. American Beauty, all grades, are retailing well at \$1.50 to \$9 per dozen.

Pot plants in Canterbury bells, hydrangeas, spiraeas and Rambler roses, if well grown, always find a ready market. I. E.

ST. LOUIS.—The past week business was brisk; plenty of work for school closings, weddings and funerals. This was practically the closing of the social season. The one good feature about it was that the wholesalers had plenty of everything one wanted and at a very reasonable price. Only the very extra fancy goods came high, and they were scarce. Sweet peas have become a glut, and the wholesalers had a hard time disposing of them at \$2.50 per 1000.

Carnations in all grades were in plenty, running in price from \$1 to \$3 per 100; only the extra fancy bringing the top figure. Boston Market, Enchantress and Red Lawson are selling well. In roses the fancy grades have been scarce for some time, but in the lesser grades they can be had in any quantity at from \$2 to \$6 per 100. There have been plenty of long, fancy American Beauty in the market which only brought \$3 per dozen. Richmond are coming in too far open, they should be cut closer in the bud. Some of the Killarney, Bride and Bridesmaid are most plentiful. Lily of the valley has been selling well all of this month at \$3 to \$4 per 100. Candidum lilies have been coming in fine at \$19 per 100 stalks. Smilax and other greens have had a good call. ST. PATRICK.

BOSTON.—The Summer season is on and the market plainly shows it. All kinds of flowers are now plentiful, and there are piles of them and they may be bought in thousand quantities very cheaply. Roses are plentiful enough and may be had in thousand lots at \$2.50 up to \$10 for the short grades, while better grades run up to \$40 and \$60. Sweet peas are a drug. Peonies are getting more abundant; they sell at \$4 and \$6. Lily of the valley is still in fair demand; and other flowers of all kinds sell at comparatively low prices. J. W. D.

BERLIN, N. Y.—Arthur Cowee will finish the planting of his gladioli bulbs this week; he has about 80 acres devoted to this culture.

PEONIES

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- LEUCISSIMA.** One of our favorites. Well formed, large flower of delicate light rose. Medium height and earliness. \$3.00 per doz., \$20.00 per 100.
- ECLATANTE.** Solid color of beautiful deep cherry rose. Large full bloom, supported by a tall strong stem. An early variety. \$2.00 per doz., \$12.00 per 100.
- FESTIVA.** Pure waxy white with carmine spots at center, large and medium late. One of the best whites. \$2.50 per doz., \$13.00 per 100.
- FLORAL TREASURE.** Clear light pink. Strong habit and free bloomer. A fine variety for cutting. \$4.50 per doz., \$30.00 per 100.
- FESTIVA MAXIMA.** One of the choicest peonies grown. Clear white with carmine spots at center. Immense flower on a very strong stem. \$5.00 per doz., \$35.00 per 100.
- GLOBOSA.** Clear bright rose, with a full salmon colored center. Strong habit and free bloomer. \$1.50 per doz., \$10.00 per 100.
- GOLDEN HARVEST.** Outer or guard petals bluish white, center yellow and white tipped with crimson. \$4.50 per doz., \$30.00 per 100.
- GRANDIFLORA RUBRA.** Very deep red in color. Very large bloom, equalling Festiva Maxima in size. \$3.00 per doz., \$20.00 per 100.
- HUMEL.** Brilliant solid pink. Very large size and one of the latest to bloom. \$1.50 per doz., \$10.00 per 100.
- LA REINE.** Full well-formed bloom of a delicate ivory white. Dwarf habit and medium late. \$2.50 per doz., \$18.00 per 100.
- LA TULIPE.** Blush white with outer petals flaked carmine, making a tulip effect. \$4.00 per doz., \$25.00 per 100.

- LA ESPERANCE.** Vivid deep rose. Full rounded fragrant flower, and early bloomer. \$3.00 per doz., \$20.00 per 100.
- MARIE LE MOINE.** Blush white, changing to white when open. Early. Fragrant, and a free bloomer. \$3.00 per doz., \$20.00 per 100.
- MARECHAL VALLIANT.** Fine deep rose or red. Very double, and a late bloomer. \$3.00 per doz., \$15.00 per 100.
- NE PLUS ULTRA.** Large well rounded flower of clear peach tinted rose. Strong habit and free bloomer. \$2.00 per doz., \$12.00 per 100.
- OFFICIALIS RUBRA.** Commonly known as Early Red. Bright crimson. A week earlier than other varieties. \$1.50 per doz., \$8.00 per 100.
- PLENISSIMA ROSEA.** Solid brilliant rose. A very large bloom, with a very tall strong stem. One of the earliest and best. \$2.50 per doz., \$15.00 per 100.
- QUEEN VICTORIA.** Blush white guard petals, and creamy white center. A full large bloom. Medium early and a good keeper. \$3.00 per doz., \$12.00 per 100.
- ROSAMOND.** Magnificent large bloom of bright rose. Full round form. Strong habit of medium height. Among the latest to open. \$2.50 per doz., \$15.00 per 100.
- ROSEA VARIEGATA.** Soft rose with buff and carmine in center. Very large and full petaled, and strong habit, of medium height. \$2.50 per doz., \$15.00 per 100.
- RUBRA TRIUMPHANS.** Large rich bloom of brilliant crimson. A choice medium early variety. \$2.00 per doz., \$12.00 per 100.
- SYDANIA.** Solid shade of pale rose. Tall and graceful. \$2.00 per doz., \$12.00 per 100.
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- AGERATUM**, Dwarf Blue, 2 1/2 in., \$2.50 per 100.
- GERMAN IVY**, 2 1/2 in. pots, \$2.50 per 100; 4 in., \$6.00 per 100.
- GARDENIA** Veitchii, 20,000 plants in 2 1/2 and 3 in. pots, fine clean stock.
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- CANNAS**, six leading varieties, 4 in. pots, \$5.00 per 100.
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Bride, Bridesmaid 3 in. pots, \$7.00 per 100
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	" extra	5.00 to 6.00		STANDARD (White50 to 1.00
	" No. 1	3.00 to 4.00		Pink50 to 1.00
	" No. 2 to		Red50 to 1.00
	" No. 3 .....	..... to		Yel. & Var. ....	.50 to 1.00
	Bride, Maid fancy—special....	3.00 to 4.00		White	1.00 to 2.00
	" extra	2.00 to 3.00		Pink	1.00 to 2.00
	" No. 1	1.00 to 2.50		Red	1.00 to 2.00
	" No. 250 to 1.00		Yel. & Var.	1.00 to 2.00
	Golden Gate	1.00 to 4.00		NOVELTIES	2.00 to 3.00
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ADIRONDACK50 to 1.00	LILIES	2.00 to 4.00		
CROWNEANDM	1.00 to 1.50	LILY OF THE VALLEY	1.00 to 2.00		
ASPARAGUS	25.00 to 50.00	MIJONNETTE .....	..... to		
" Plumosus, bunches	15.00 to 25.00	PEONIES	1.00 to 8.00		
" Sprenger, bunches	15.00 to 25.00	SMILAX	12.00 to 15.00		
CALLA to	SWEET PEAS, per doz. bunches35 to .75		
CATLEYAS	40.00 to 60.00 to		
DAIRIES	1.00 to 3.00 to		

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Philadelphia.
News Notes.

At present this city is busy preparing for the Elks convention in July; one sees something going on no matter in which direction he goes, and from present indications we will have a good many florists here at that time. Some from the West will go to the seashore and remain until the S. A. F. O. H. convention.

Our own club members are now busy preparing for the latter convention. Two or three committees meet each week, and the suggestions for entertaining the S. A. F. members would fill a book. At every meeting the matter gets boiled down; and our program will soon begin to look tangible. One matter appears settled, a trip by boat to Dreer's nurseries at Riverton, N. J., on the Wednesday afternoon. All our committees are working with the object of doing all in their power to make the business sessions of the convention a success. Much legislation of importance is to come before the convention, and no matter what entertainment is planned, it will not be our fault if the members are not on hand when the president raps to order at each session.

A list of hotels will soon be ready, and we would like to know at an early date who are coming.

The peony and outdoor rose show of the Pennsylvania Horticultural Society was held on Thursday and Friday; the list of prizes will be given in next issue.

The opening of John Westcott's bungalow took place on Friday; the party, about 20, went down on the 8.20 a. m. train.
DAVID RUST.

S. S. Pennock=Meehan Co.

The WHOLESALE FLORISTS OF PHILADELPHIA

Store closes at 8 P. M. 1608 to 1618 LUDLOW STREET

Peonies At Attractive Prices
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Boston.
The Week's News.
The exhibition of the Massachusetts Horticultural Society at Horticultural Hall on Saturday and Sunday was very interesting in its collections of rhododendrons, irises and other hardy plants. At the show the week previous the collection of tree peonies from the gardens of Professor Sargent formed one of the chief attractions, but this week the collection which Mr. Sander put up was in many respects far superior. A gentleman who has attended almost every exhibition of the society in the past twenty-five years told the writer that he had never before seen such a fine collection of these flowers on exhibition.
Mrs. David S. Greenough exhibited a white variety of tree peony which was exceedingly fine and well deserved the award of honorable mention it received. T. C. Thurlow was awarded first prize for his collection of German irises, Mr. Wm. Whitman (Martin Sullivan, gardener) being second. Mrs. J. L. Gardner (Wm. Thatcher, gardener) was awarded the Appleton silver gilt medal for display of orchids and foliage plants. Walter Hunnewell (T. D. Hatfield, gardener) was the chief exhibitor of rhododendrons, staging some very fine blooms. Mrs. J. L. Gardner and Mrs. R. A. Leeson also had fine collections of these flowers.

Wholesale Prices of Cut Flowers—Per 100

Boston June 18, 1907	Buffalo June 17, 1907	Detroit June 18, 1907	Cincinnati June 17, 1907	Baltimore June 10, 1907	Milwaukee June 17, 1907	Philadelphia June 11, 1907	Pittsburg June 17, 1907	St. Louis June 17, 1907
10.00 to 25.00	20.00 to 25.00	50.00 to 60.00	to 30.00	to 25.00	to 25.00	20.00 to 25.00	20.00 to 25.00	to 15.00
4.00 to 10.00	15.00 to 20.00	40.00 to 60.00	to 20.00	to 20.00	12.00 to 15.00	15.00 to 20.00	12.50 to 15.00	12.50 to 15.00
1.00 to 4.00	8.00 to 15.00	30.00 to 40.00	to 10.00	12.50 to 20.00	8.00 to 10.00	10.00 to 12.00	8.00 to 10.00	8.00 to 10.00
to 2.00	3.00 to 5.00	20.00 to 30.00	to 6.00	6.00 to 10.00	2.00 to 6.00	2.00 to 8.00	1.00 to 3.00	3.00 to 6.00
4.00 to 6.00	7.00 to 8.00	3.00 to 10.00	5.00 to 6.00	to 6.00	to 4.00	to 10.00	to 8.00	to 6.00
2.00 to 4.00	6.00 to 7.00	to 3.00	3.00 to 4.00	to 6.00	to 6.00	to 12.00	to 8.00	to 6.00
to 2.00	4.00 to 6.00	to 1.00	2.00 to 3.00	to 5.00	to 4.00	to 10.00	to 6.00	to 5.00
1.00 to 6.00	3.00 to 7.00	to 3.00	2.00 to 6.00	3.00 to 6.00	to 4.00	to 10.00	to 6.00	to 5.00
to 3.00	6.00 to 6.00	to 2.00	2.00 to 6.00	4.00 to 6.00	to 4.00	to 10.00	to 6.00	to 4.00
to 3.00	3.00 to 6.00	to 2.00	to 3.00	to 5.00	to 2.00	to 10.00	to 6.00	to 4.00
to 2.00	to 2.00	to 60.00	to 5.00	to 1.00	to 1.00	to 1.00	to 1.00	to 1.50
to 1.50	1.50 to 2.00	to 2.00	to 1.00	1.50 to 2.00	to 2.00	to 2.00	to 2.00	to 1.50
to 1.50	2.00 to 2.00	to 3.00	1.00 to 1.50	1.50 to 2.00	to 2.00	to 2.00	to 2.00	to 1.50
to 1.50	2.00 to 2.00	to 3.00	1.00 to 1.50	1.50 to 2.00	to 2.00	to 2.00	to 2.00	to 1.50
to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.50
.50 to 2.00	2.50 to 3.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.50
.50 to 2.00	2.50 to 3.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.50
.50 to 2.00	2.50 to 3.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.50
.50 to 1.00	.50 to 1.00	1.00 to 1.50	to 1.00	1.00 to 1.50	to 1.00	to 1.00	to 1.00	to 1.00
to 50.00	40.00 to 50.00	to 50.00	83.00 to 60.00	25.00 to 50.00	to 30.00	to 50.00	30.00 to 50.00	25.00 to 40.00
to 10.00	to 20.00	to 15.00	to 25.00	to 50.00	to 30.00	to 50.00	20.00 to 40.00	25.00 to 75.00
4.00 to 6.00	8.00 to 10.00	to 15.00	to 20.00	to 10.00	6.00 to 10.00	to 10.00	to 10.00	to 12.50
to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.50
4.00 to 6.00	8.00 to 12.00	15.00 to 18.00	to 10.00	8.00 to 10.00	to 10.00	to 10.00	to 10.00	to 10.00
2.00 to 3.00	3.00 to 4.00	3.00 to 4.50	to 3.00	1.00 to 2.00	to 3.00	to 3.00	to 3.00	to 3.00
to 2.00	1.00 to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00	to 2.00
to 2.00	to 3.00	to 3.00	to 3.00	to 3.00	to 3.00	to 3.00	to 3.00	to 3.00
to 15.00	to 20.00	12.50 to 25.00	to 16.00	15.00 to 25.00	to 25.00	15.00 to 20.00	12.50 to 16.00	to 15.00

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American Beauties
Can furnish at short notice. Price according to quality of goods. Long Distances
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For Roses,
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And all kinds of Seasonable Flowers.

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Also dealer in Florists' Supplies and Wire Designs
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Give us a trial. We can please you.

Referring to the note in June 15 issue to the effect that S. Wax has gone on his annual vacation and taken Mrs. Wax along, Mr. Wax says: "I was married June 5, and went to the Rangeley Lakes with my wife on our honeymoon for one week. My annual vacation is not till August; so you see your statement is misleading. Please correct the matter in your next issue."
The date of the annual picnic of the Gardeners and Florists' Club has been set for Thursday, July 25, and arrangements are already under way by the committee to make it a grand success.
B. J. Macklin, the Cambridge florist, has rented the greenhouses of John McKenzie near Porters station. Mr. Macklin will grow for his retail trade, disposing of his surplus at wholesale, while Mr. McKenzie will devote his entire time to his North Cambridge plant, formerly owned by W. C. Stickel & Company.
Frank F. Foster, a popular employee in Newmans, is the proud father of twins. J. W. D.

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 Wholesale CUT FLOWERS
 Roses and Carnations A Specialty.... GROWER OF

Wholesale Prices of Cut Flowers, Chicago, June 18th, 1907
 Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		STANDARD	
36-inch stems.....per doz.	..... to 3.00	White.....	.50 to 1.00
30-inch stems....."	..... to 2.50	Pink.....	.50 to 1.00
24-inch stems....."	..... to 2.00	Yellow & var.....	.50 to 1.00
18-inch stems....."	..... to 1.50	*FANCY White.....	1.00 to 2.00
12-inch stems....."	..... to 1.00	(The high Pink.....	1.00 to 2.00
8-inch stems and shorta	..... to .75	est grades Bed.....	1.00 to 2.00
Bride Maid, fancy special.....	..... to .50	of Ste'd var. Yellow & var.....	1.00 to 2.00
" extra.....	..... to 6.00	NOVELTIES.....	..... to
No. 1.....	..... to 5.00	SMILAX.....	.75 to 1.50
No. 2.....	..... to 4.00	ADANTUM Palm & Fern.....	.35 to .50
Golden Gate.....	3.00 to 6.00	ASPARGUS.....	.85 to .50
Uncle John.....	3.00 to 6.00	" Sprenger, hunchee.....	..... to
Liberty.....	3.00 to 8.00	LILIES, Longform.....	8.00 to 12.00
Richmond.....	3.00 to 8.00	" Candium (spike).....	..... to 8.00
Killarney.....	3.00 to 8.00	Orchids—Ottleyas.....	..... to 50.00
" extra.....	3.00 to 10.00	LILY OF THE VALLEY.....	12.00 to 16.00
Perla.....	3.00 to 6.00	HARBY FERNS per 1000.....	2.00 to 3.00
Obateny.....	3.00 to 6.00	GALAX.....	1.00 to 1.25
Callas.....	3.00 to 10.00	PEONIES.....	1.00 to 5.00
Mignonette.....	2.00 to 6.00	SWEET PEAS.....	.25 to 1.00
FOREVER-ME-NOT..... to .50		

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 Send us your Orders for delivery in the Northwest, which will have our best attention.
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 Wholesale Cut Flowers and Florists Supplies
 Your Money is well spent when you advertise in

THE FLORISTS' EXCHANGE

Chicago. News of the Week.
 A recent visit to Klehm's Nurseries at Arlington Heights developed the fact that their peony crop is not nearly so seriously affected as the reports denote the condition of most fields to be which contribute to this market. The harvest will be probably a little light, hardly coming up to the ten thousand dozen which this concern shipped last year, yet the stock appears in excellent condition though from two to three weeks late. Their immense stock has been produced from one plant of a variety by the present owners of the business and their immediate progenitor who started at the work about fifty years ago. They have in addition to their nursery business large fruit interests including about 30 acres of cherry trees. It is among a few acres of the latter near their office, planted in alternate rows, that a large portion of their blooming peonies are grown and it is doubtless largely due to this protection that this season's crop was so slightly damaged by the cold, as the cherry and pear crop was practically wiped out. The Messrs. Klehm last year planted two acres of officinalis rubra or as it is locally known, Early Red, in Indiana, for the purpose of extending the season.
 Complex conditions occasionally confront the plant merchant. Recently an order was received by one of our large shippers for one hundred each Sunset and Mme. Abel Chateaux rose plants which was accompanied with a check and instructions to ship the stock to another party, all of which was duly carried out, a notice to the effect that the goods had been shipped being sent to the consignee. A few days later the Chicago parties received word from the original correspondent stating that the goods were not satisfactory and had been shipped back, criticising them for notifying the other party of the shipment, evidently not wishing him to know where

they came from, and requesting the return of the check. The writer saw the box when it was opened after a trip to New York state and return. The plants were in perfect condition, were as good value as anyone could desire for the price charged, but he could not answer the shipper when he turned around and asked, "Now what would you do in a case like that?"

Professor H. Hasselbring, botanist of Chicago University and well known to the representative of the trade through his affiliation with the Florists' Club, Horticultural Society and the State organization, will leave on August 1, to take charge of the botanical work in the Island of Cuba for the Cuban government.

The June meeting of the Chicago Florists' Club was held in Handel Hall, on Thursday evening of last week with an average attendance of members. The amendment to Article V of the constitution and by-laws deferring the nomination, election and installation of officers until dates so that they will not include the November meeting which generally falls on a date conflicting with the flower show and accordingly is adjourned without transacting any business, having gone through the prescribed forms was unanimously passed.

At the suggestion of President Bruns an informal talk was indulged in on the bedding plant business this season by Messrs. Klimmer, Hughes, and Fisher, after which the latter brought up the subject of the annual picnic suggesting Morton Grove as in every way an ideal place for the outing. T. E. Waters moved that a picnic be held at Morton Grove and that a committee be appointed to take charge of the arrangements. President Bruns appointed the following committee; Messrs. J. C. Vaughan, August Poehlmann, Geo. Asmus, Ed. Emers, A. J. Simmons, H. E. Klunder, and T. E. Waters. The picnic will probably be held on Sunday, July 21. August Poehlmann speaking for Morton Grove assured the members that they would be welcome to that beautiful suburb.

The question of arranging for the reception of the American Rose Society next Spring was discussed at length and a committee consisting of August Poehlmann, Leonard Kill, George Asmus and Phil Schupp was appointed to thoroughly canvass the subject among the growers and report.

The meeting then adjourned until September, it having been voted to omit the meetings in July and August.

The second attempt to hang himself within a week proved successful and the body of Henry Benthage, a florist in the employ of Anton Then, was found suspended on Wednesday night of last week, from a rafter in a barn in the rear of the greenhouses at 143 Winnemac street. The unfortunate man was said to have been despondent over financial matters.

Henry E. Youngquist of North Chicago will lose just one half of his 50,000 square feet of glass which is condemned by the Drainage Canal Commission, the canal passing through his property.

N. J. Rupp of the John C. Moninger Company has been at work for many months to construct a satisfactory machine for the turning out at one process of the Moninger interlocking lapped splice and is highly pleased with the perfection of the work that machine produces, and is especially gratified at the reception the new splice is receiving among the greenhouse men who appreciate the necessity of a splice which cannot get away during the continued contracting and expanding to which such work is exposed.

F. L. Tonquist of Benton Harbor, Mich., was a last week's visitor. J. M. Underwood, president of the Jewell Nursery Company, Lake City, Minn., was also in the city on business.

The first shipment of this year's crop of freesia bulbs from Bermuda arrived at Vaughan's Randolph street store this week.

The National Credit Men's Association closed their three days' session here last Saturday night with the largest banquet in point of numbers (there being nearly 1,000 persons present) ever held in the Auditorium Hotel. Hauswirth's decoration was extensive, the chief feature being 120 vases of American Beauty roses.

The nursery business may be said to be over now after a remarkably long and very successful season.

HENRY M. ROBINSON & CO.

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FLORISTS' SUPPLIES and HARDY CUT EVERGREENS**

15 Province St.—9 Chapman Place, BOSTON, MASS.
Telephone—Main 2617-2618.

Hardy Cut DAGGER and FANCY Ferns, \$2 per 1000 Green and Bronze GALAX, \$1.50 per 1000.

Laurel Festooning for June Decorations, 6c. per yd. Branch Laurel, 50c. per bunch.

Sphagnum Moss, 50c. per bag; 5 bags, \$2 00.

Florists' Supply Price List on Application

AMERICAN BEAUTIES
RICHMONDS
BRIDES and BRIDESMAIDS
CARNATIONS
VALLEY

Everything in the flower line.

Write for Price List.



New Crop DAGGER or FANCY FERNS, \$1.50

Galax, bronze or green, 75c. per 1000 or \$6.50 per 10,000 cases.

Use our Laurel Festooning for your June Weddings; 4c., 5c., and 6c. per yard; finest quality and can fill orders promptly.

Try our special 50 lb. cases Southern Smilax, \$6.50.

Laurel Branches, 35c per large bundle.

Send us your orders now for ferns for the coming season, and have them the year round at a reasonable price.

Telegraph Office: New Salem, Mass.

Long Distance Telephone Connection

CROWL FERN CO., MILLINGTON, MASS.



EXTRA FINE FANCY AND DAGGER FERNS

\$2.50 per 1000. Discount on large orders. Leucothoe Sprays \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE
Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season
38 & 40 Broadway. Formerly Detroit, MICH.
Send for our weekly price list on Cut Flowers.

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NEW YORK

Importers and Manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax

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SEEDSMEN and FLORISTS**

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AND PALM LEAVES**

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Also Moss, Fibre, Needle Pines, Pine Cones, Uva Grasses, etc.
Buy from HEADQUARTERS.

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Pensacola, Fla.



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MANUFACTURERS
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WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

**SOUTHERN WILD SMILAX
BEAVEN'S FADELESS MOSS
NATURAL SHEET MOSS
E. A. BEAVEN, Evergreen, Ala.**

The peony harvest has been on at its height and during the present and following week hundreds of thousands of dozens will be placed in cold storage.

For the past two or three years the presentation of flowers at school graduations in this city has been prohibited by the powers that be, thus depriving an important industry of several thousands of dollars of legitimate profits. An appeal to the new mayor, who has shown a tendency to right other wrongs, elicited the information that he could not consistently interfere with this matter which rested in the hands of the Superintendent of Schools and the Board of Education. Is there not some way to reach them before next week?

Peter Reinberg is not putting up any new greenhouses at his old range this Summer, but is doing some rebuilding and will shortly start on a new range on Devon avenue.

Through an error of their shipper the unusual invoice of 400,000 ferns was received by the E. F. Winterson Company on Sunday, but owing to the scarcity of this commodity they were readily assimilated by the market with the exception of about 16 per cent., which were burned.

Captain A. J. Simmons, A. D. C. Governor's staff, went into camp for ten days with his regiment, the Seventh, on Wednesday. This interferes with business, camp not generally coming until several weeks later when the flower trade is at the lowest ebb.

Out at Highland Park, Fritz Bahr has purchased a fine property at Lincoln avenue and Green Bay road, where he will move his nursery and greenhouses, continuing the store at the old stand.

The baseball game at Monticello and Grand avenues on Sunday afternoon between the Chicago Florists and the Monarchs resulted in a victory for the latter by a score of 10 to 5.

The universal cry for Summer weather has been heeded and it came upon us in good form with the opening of this week. The market shows the effects.

Among Monday's visitors were noted George Blackman, Evansville, Ind.; J. F. Johnson, Fort Smith, Ark., and Charles A. Berg, Red Oak, Ia.
WILLIAM K. WOOD.

SPRINGFIELD, ILL.—The committee of the State Florists' Association met Saturday afternoon, June 12, at the Leland Hotel. The following members were present: Albert T. Hey, of this city, president of the association; A. B. Beal of Champaign, secretary; J. F. Ammann of Edwardsville, William Heintz of Jacksonville and W. J. Noyes of Bloomington. At the meeting the constitution of the association was revised and will be voted upon at a special meeting to be held in this city in about six weeks. An advisory committee was appointed to have charge of the appropriation of \$15,000 made by the last session of the legislature to be expended at the experiment station at the state university. The committee consists of the following: J. C. Vaughan of Chicago, J. F. Ammann of Edwardsville, Willis N. Rudd of Mt. Greenwood, Frank J. Arnold of Jacksonville and C. D. Gallentine of Morrison, Ill.

COLUMBUS, O.—The Franklin Park Floral Company has increased its capital from \$15,000 to \$18,000.

**TOBACCO DUST OR SAW DUST
WHICH??**

211 North St.
Claremont N. H. Apr 5, '07

The H. A. Stoothoff Co
New York

Dear Sirs—

Please ship me as follows

- 100 lbs Fumigating Tobacco powder \$3.00
- 100 " Black stuff fine 2.00
- 144 sheets Aphicide 3.50
- 10 Fumigating plates .50
- \$9.00

Send the powder by freight, the Aphicide by express prepaid. I enclose check for \$9.00
Three or four years ago I had a bag of the Black stuff fine and it was without exception the best tobacco powder I have ever had. Since then I got some stuff from a seed house. I paid more for the article and got left on it. It was useless like sand and than anything else. Now I am coming back to you.

Yours truly
C. E. Stevens.

Say, Stevens, we would sure like to know from you and others like you "why you stray away" to folks who don't know tobacco powder from sawdust. We have been telling you and others in a hundred different ways how smart we are in the way of tobacco powder; that we have been in the tobacco powder business for twenty years, and why our tobacco powder should be and is, twenty years **AHEAD OF ALL OTHERS.** Again we ask, why you let the fellows that don't know, skin you, who should know, that the **BLACK STUFF FINE TOBACCO POWDER**, for dusting, at 2c. per pound, in our bag holding 100 pounds, with our name, address and brand on each bag, sold only by us, direct to you, is the only one. **WE WOULD LIKE TO KNOW.**

THE H. A. STOOHOFF COMPANY,
116 West Street, New York, N. Y.

Kroeschell Brothers Company, Chicago

The Kroeschell Brothers Company of Chicago have just from the press a neat catalogue, nicely illustrated and fully descriptive of their speciality of high grade greenhouse boilers. This catalogue will be mailed to any person interested upon application to the firm, 33 East Erie street, Chicago.

It is now upward of a quarter of a century ago that Charles Kroeschell and his brothers started in a small way in the boiler business in a basement 70x20 feet, near the Northwestern Station, doing their own work, all being practical mechanics, and from this embryo establishment has grown year by year the powerful concern and the immense business, occupying to-day a boiler shop 350x100 feet, a pipe department, 192x100 feet, and a refrigerating machine department, 140x100 feet and four stories high. The Kroeschell greenhouse boiler in its 16 sizes, with its water front and back an invention of Charles Kroeschell, and other perfected appointments, is an evolution developed, one point at a time, through over twenty-five years of continual thought, experience and application.

The writer recently visited the workshops of the concern and inspected the interesting process of construction of the greenhouse fire-box, water-tube, and tubular boilers, immense tanks, and stacks here manufactured. There were there in different stages of completion 32 greenhouse boilers of different sizes, including the new Number 15, capable of heating 50,000 square feet of glass, which though recently placed on the list is proving very popular with the trade; in addition to which were noted 22 boilers all made to order and ready for shipment at the purchasers' request as they may be required during the season. The door frames to these boilers are not cast but are made here in the shop, of the best wrought iron, while the holes for the tubes are not punched but drilled and reamed with the same care as exerted in the manufacture of their high pressure (125 pounds) products for factory purposes, the whole establishment being thoroughly equipped with the latest and most perfect hydraulic and pneumatic machinery.

Ere long the refrigerating machine will be a much more common adjunct to the florist's business than at present; in fact, it is coming more into use every day. The machine turned out by Kroeschell Brothers embraces one feature which alone commends it to all investigators, namely, that by the use of carbonic gas instead of ammonia it is absolutely non-explosive. This product has been given satisfactory trial all over the country and at present one of 150-ton capacity is being installed in the Auditorium Hotel, Chicago, for the cooling of the Pompeian room and banquet hall during the Summer, being the second machine of this kind in use in that hotel.

The pipe department covers everything pertaining to that line of business, heating, power piping, in fact, every branch of piping work, while chain and other wrenches, auxiliary branches of iron and steel work have allotted space under the immense roof of the Kroeschell Brothers' establishment.

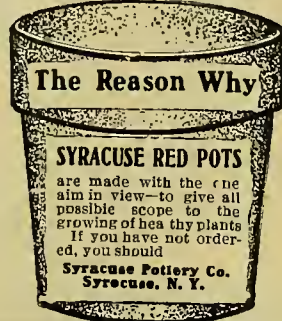
This house deems it to the advantage of both its customers and itself that the former familiarize themselves so far as possible with the manufacture and working of its products and extends a cordial invitation to all florists visiting the city to call and thoroughly inspect the works and boilers and see them in all stages of development. W. K. W.

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1800 2 1/4 in. pots in crate, \$4.88	60 8	120 7 in. pots in crate, \$4.20	60 8
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1800 3 " " " 6.00	60 8	48 9 in. pots in crate, \$5.60	
1000 6 " " " 6.00	60 8	48 10 " " " 4.80	
800 3 1/2 " " " 5.80	60 8	24 11 " " " 3.90	
600 4 " " " 4.60	60 8	24 12 " " " 4.80	
420 6 " " " 4.51	60 8	12 14 " " " 4.80	
144 6 " " " 3.10	60 8	12 " " " 4.60	

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.
Hilfinger Bros., Pottery, Fort Edward, N. Y.
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"THEY KILL BUGS"

"Flowers and Profits"

is a profitable and interesting booklet.

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76-78 Wabash Avenue, Chicago, Ill.



THE BEST
Bug Killer and
Bloom Saver

For PROOF
Write to
P. R. PALETHORPE CO.
LOUISVILLE, KY.

TO-BAK-INE PRODUCTS

THESE products will positively destroy all insect pests (including White Fly, Red Spider, and Thrip) that attack greenhouse grown stock.

To-Bak-Ine Fumigating Paper contains more Nicotine per sheet than any other. It kills the bugs and does not harm the blooms or plants.

Per box of 24 sheets (18 x 6).....\$.60
Per case of 288 sheets 18 x 6)..... 6.50

To-Bak-Ine Liquid positively the strongest and best article offered for spraying. It will kill the insects and guaranteed not to spot or discolor the blooms. It can be used with absolute safety on your stock in full bloom.

1-4 pint can.....\$.60
1-2 pint can..... 1.10
1 pint can..... 2.00
1-2 gallon can..... 7.75
1 gallon can..... 15.00
5 gallon can..... 67.50

Send for full spraying information and price on 10-20 and 40 gallon casks with locked faucet.

To-Bak-Ine Fumigating Compound those who fumigate or vaporize will find this the most effective of all compounds. It is used by the biggest growers in the country and it keeps their stock free from insects.

1 pint.....\$2.00
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Write for prices on cask lots or contract orders of not less than 100 gallons per annum.

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POT MAKERS FOR 140 YEARS
A. H. HEWES & Co. Inc. CAMBRIDGE, MASS.
FLO R I S T S W A R E O F E V E R Y K I N D



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STANDARD FLOWER POTS

Our output of Flower Pots is larger than any concern in the World
Our Stock is always Large and Complete

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WAREHOUSES: JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.



Commercial Violet Culture Price, \$1.50
PLANT CULTURE Price \$1.00

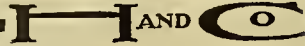
The Florists' Exchange, 2-8 Duane St. New York
The best book for the Plant Grower.
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Sheep Manure
Pulverized. Free from all Adulteration
In Bag, \$18.00 per Ton.
ROBERT SIMPSON
Clifton N. J.

IDEAL PLANT FOOD
Put up in lots of 50 boxes for the trade with your name and address on labels. Price \$7.00.
EDWARD MacMULKIN,
194 BOYLSTON ST., BOSTON, MASS.

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HITCHINGS CORRUGATED FIRE BOX BOILER

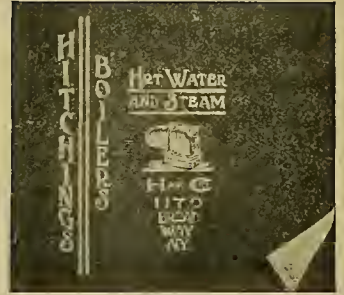
care of the extra work. We can fit you out either way, with the old Stand-by Corrugated or our New Friend, the Sectional. Send for that catalog.

HITCHINGS & CO.

GREENHOUSE DESIGNERS AND BUILDERS
Manufacturers of Heating and Ventilating Apparatus

1170 Broadway

NEW YORK



Washington, D. C.

General Notes.

While snow fell for two hours on June 12 at Fredericksburg, Va.; just 54 miles from Washington, the city was inconvenienced by four days of cold rain, and fires were not uncomfortable. Saturday and Sunday were the first two genuine Summer days since March. Such extraordinary weather conditions are beginning to cause widespread apprehension for the safety of all crops. Corn has attained a height of four inches, and is turning yellow. Farmers claim that three more weeks like the past will practically ruin all the crops.

The hay crop seems to have suffered less than all the others, but awaits warm weather for harvesting. A trip through Western Maryland and the Valley of Virginia reveals similar conditions. Many of the wheat fields in the Shenandoah Valley lowlands have been inundated and the grain ruined; on higher lands, however, the wheat has headed, and bids fair to yield an average crop, provided there is a suitable harvest season.

Tuesday the 11th, was District of Columbia Day at Jamestown; The Washington Chamber of Commerce, of which W. F. Gude is secretary, chartered one of the large boats for the occasion, and was augmented by some of the members of the Washington Florists' Club. Among the florists who so greatly enjoyed the trip were W. F. and A. Gude, George Cooke, George C. Shaffer and William H. Ernest

JAS. L. CARBERY.

Rochester, N. Y.

Trade Notes.

At last, we have had a taste of Summer, the thermometer registering 82 degrees in the shade, with hot dry winds. No rain has fallen here for quite some time, consequently flowering shrubs have not held their beauty as long as usual. The plant trade has received its expected boost, and the growers are glad. Notwithstanding the lateness of the season, and the early disposal of Easter stock, Geo. Hart, the commission dealer here, has received orders for thousands of geraniums, salvia, alternanthera, coleus, etc., the local supply having given out days ago, causing the necessary shipment of stock from Buffalo, Utica and New York. The shipped goods arrive in the pink of condition, and find a ready sale. Good S. A. Nutt geraniums from 4-inch pots sell for \$8 per 100, and supply all gone.

In the cut flower market, indoor stock is beginning to waver, and the supply of cut roses is considerably lessened by the fact of a few growers having already planted new stock for next season. No staple or fixed price is asked for this class of material; quality and quantity determine the same.

Early peonies were in the market for the first time last Saturday, and sell readily enough. Sweet peas are scarce.

Charles Suhr, Hudson avenue, is planning the tearing down of some old houses and building two modern ones to replace same.

A visit to Hiram Sibley homestead, where Steve Berry holds forth, brought to the eye as fine a specimen of glorioxia as could be wished for. This particular plant was grown from a bulb that

GREENHOUSE GLASS ALL SIZES

16x24 A. & B. Double a Specialty
C. S. WEBER & Co.,
10 Desbrosses St., New York

GLASS

100 Boxes, 12 x 16, second quality, double thick, ready for shipment about July 20. Also 20 boxes, 8 x 10, same grade. This glass will be carefully packed by experienced men. Prices, on application.

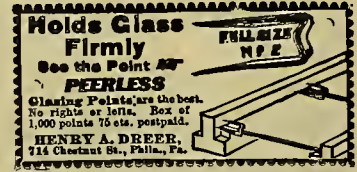
R. G. HANFORD, NORWALK, CONN.



Evans Improved Challenge

Roller-bearing, self-oiling device, automatic stop, solid link chain makes the IMPROVED CHALLENGE the most perfect apparatus in the market

Write for catalogue and prices before placing your orders elsewhere.
QUAKER CITY MACHINE CO.
RICHMOND, IND.



Mr. Berry has had and grown for 18 years, and at this time has no fewer than 75 flowers fully expanded on it. Here, too, can be seen a couple of short houses, each having about 200 musk melons hanging from the roof, and a beautiful sight they present. He expects to commence cutting in about two weeks.
COCKNEY.

St. Paul.

News Notes.

Secretary of War Taft was hanged on the 14th at the Auditorium, when 2,000 sat down to dinner. The floral decorations were simple, the tables being decorated with flat plateaus and vases of flowers. In all 100 plateaus of different colors were used, also an abundance of palms and ferns.

Colberg & Lemke have discontinued business; G. Colberg has been with Holm & Olson for some time and A. Lemke has been running the store. Expenses being indeed high, and the quiet season approaching, they thought it advisable to quit.

L. L. May & Company have had more business than they could really attend to; the demand for school graduations has been exceptionally heavy and it has kept the firm's force working night and day. J. W. Hoffman, manager of their retail department, will be married this coming Wednesday; the boys are preparing to give him a proper send off.
PAUL.

SAVE TIME AND MONEY OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS
LET US ESTIMATE ON YOUR HEATING,
VENTILATING APPARATUS, HOT-BED SASH

Putty--GREENHOUSE GLASS--Points

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S. JACOBS & SONS,
GREENHOUSE CONSTRUCTION MATERIAL

1365-79 Flushing Ave.,

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Look Here, Mr. Florist and Gardener

WE have just passed through an unusually severe winter and you are apt to forget the many sleepless nights you spent worrying about the temperature of that No. so and so house.

Or the many zero nights that you spent in the boiler pit; maybe you did not have to do the stoking and firing, but **you** certainly had to do the worrying and pay the coal bills.

Now keep the vows you made on those trying occasions, **And Send for me.** I have solved the problem for others, I can do it for you; and remember, I will come recommended by some of the most prominent commercial florists and gardeners in the East, "Personal friends of yours."

Wm. H. Lutton,

Heating Engineer

WEST SIDE AVE. STATION, JERSEY CITY, N. J.

PATENTED IN UNITED STATES
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\$3.00 per doz. sets, two pieces.
\$2.25 per dozen females for faucets.
Discount on gross lots.

EMIL GLAUBER, Montclair, Colo.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our catalog.

GIBLIN & CO., UTICA, N. Y.



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

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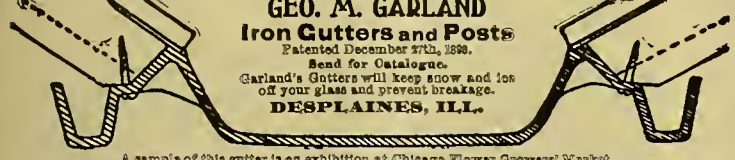
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IRON FRAME GREENHOUSES
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 and Gutters for wood houses, etc., etc.
 Send for catalogue and designs.



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Iron Gutters and Posts
 Patented December 27th, 1898.
 Send for Catalogue.
 Garland's Gutters will keep snow and ice
 off your glass and prevent breakage.
DESPLAINES, ILL.
 A sample of this gutter is on exhibition at Chicago Flower Growers' Market



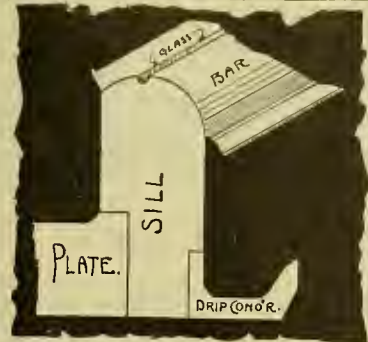
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 They will interest you.
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 Conservatories, and all other purposes. Get
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 of cutting Sash Bars to fit the gutters
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The Bars Always Fit
 and no moisture collects at the con-
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 cut; and so
Decay Is Prevented
 All who have used this want it again.
 Experience is a good teacher.
 Send for our free catalogue of
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MATERIALS.
FOLEY MFG. CO.
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REMOVAL Our visiting friends are heartily
 welcome to call and see our
 handsome new factory. Transfer to S. West-
 ern Ave. from any West Side street car and
 get off at 26th St.

Write for Prices on
Ventilating Machinery
 AND
Construction Fittings
I. Cassidy, Van Houten Ave.,
Jersey City, N. J.

THE KROESCHELL BOILER
IS THE ONLY PERFECT
HOT WATER BOILER
 Made in 15 sizes heating 6,000
 to 50,000 square feet glass
 to 60° at 15 below zero.
 Prices and Catalogues on application.
KROESCHELL BROS. CO.
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THE NEW GREENHOUSE CATALOGUE
 is now ready for you and a postal card will bring it. It contains 96 pages of matter that will be of interest if you are going to build a greenhouse. You will find all kinds of greenhouse details fully illustrated, also several plates showing actual blue prints reproduced, together with views of sixty prominent ranges throughout the country. Send for one today and then get our estimate on that new house. The postage costs us six cents and the book including the postage cost us \$1.00, but we send it free to everyone.
JOHN C. MONINGER CO.
 CHICAGO.
 115 E. Blackhawk Street

The LOW BOILER
 4 ft. high. Can furnish lower if necessary. This boiler is designed and specially adapted for greenhouse service. The form of construction makes it very efficient and economical. Write for prices and booklet. Free Hose Trial, Pipe Fittings, Valves, Etc.
WM. H. KAY CO., 244 Fulton St., NEW YORK



IF you are going to build a greenhouse consult the pioneers in the manufacture of the stock. Cypress sash bars 32 feet or longer.
The A. T. Stearns Lumber Co.
 NEPONSET,
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Ageratum Inimitable, Blue Perfection; **Helle-trope**, Parlor Ivy, Lobellias, dwarf; **Snap-dragon**, giant white Nasturtiums, **Shasta** Daisies 3 varieties. **Stokesia** Cyanea. Night blooming **Jasmine**, **Hydrangeas** Thos. Hogg, Otakae; **Petunias**, Howard's Star, and **Rosy Morn** Petunias, double white. **Asparagus Sprangerii**, **Stevia**, dwarf and tall. The above nice plants from 2 1/2 in. pots, 50c. per doz., \$3. per 100.

Fuchsias, in variety; **Helle-trope**, variegated **Geraniums**, Mrs. Parker, **Clometta** **Panicu-lata**, Swainsona Alba, **Feverfew** Little Gem, **Ageratum** inimitable, **Nicotiana** hybrids. Strong plants from 3 in. pots, \$4.00 per 100.

Wisteria **Sinensis**, **Honeysuckle**, plants from 4 in. pots, \$1.50 per doz.; \$10.00 per 100

Achyranthes **Lindenii**, **Golden Feather**; **Alter-nanthera**, yellow 2 1/2 in. pots, \$2.00 per 100.

Seedlings From **Flats**, **Asparagus Sprangerii**, \$1.00 per 100.

Clomafis, large flowering varieties, fine, healthy 2 year-old plants; home grown; **Jackmanni**, **Heeryi**, \$3.00 per doz.

Asparagus Plumosus, and **Sprangerii**, fine plants, 5 in. pots, \$2.00 per doz.

Passiflora **Coerulea** and **Pfordtii**, **Mammoth Beauty**, a hardy variety, 4 in. pots, \$1.00 per doz.; 3 in. pots 75c. per doz.

Chrysanthemums, best leading varieties, white, pink and yellow, from 2 1/2 in. pots, \$2.00 per 100.

Crotons, 4 in. pots, \$2.00 per doz.

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STANDARD Pumping Engines



Do not require steam to operate them. Therefore, they are superior to steam pumps for use during summer weather.

The Standard Pump & Engine Co. CLEVELAND, O.



I Manufacture and Erect

Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your requirements.

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Sash opening apparatus and all kinds of greenhouse structural material.



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The original machine with self oiling caps; the most powerful, least complicated very compact, with ease of operation.

The New Duplex Cutter over six miles in use and highly recommended; the only drip proof gutter in the market.

The standard Return Steam Trap has no equal for simplicity or its working. Catalogue free.

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That we manufacture Steam and Hot Water Boilers.
That we contract for and erect Heating Apparatus.
That we make a specialty of curing defective apparatus.
That our staff of Heating Engineers is reliable and competent.
That our Mechanics—pipe fitters—boiler makers, etc., are all first-class.
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PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

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Successors to JENNINGS BROS.

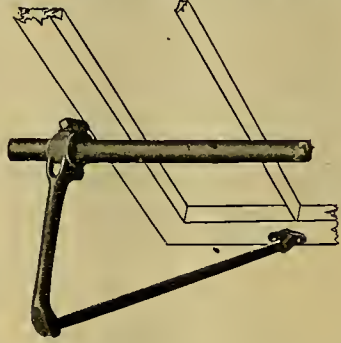
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SEE THAT SET SCREW AND DOUBLE CLAMP? THAT MEANS THERE IS NO SLIPPING ON L. & B. VENTILATION APPARATUS ARMS.

SAME WAY WITH THE GEARS: For heavy work or long runs, it's a square shaft; in lighter work or side ventilation the round shaft is double clamped and set screwed. You see all slipping is absolutely out of the question.

Then there is still another point: The Rod Hangers—We make one that is screwed to both the face and edge of Sash, which prevents the pulling off troubles so many of you have had.

If it's the never-slips you want, write at once for prices.

Lord & Burnham Co.

Greenhouse Designers and Manufacturers.

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June Weddings and Commencements

Novelty lace bouquet holders in white, delicate pink, Alice blue and lavender colors, just the thing for commencement bouquets. A full line of Baskets for wedding and commencement orders.

NEW CHIFFON MATS, MINIATURE CHINA SLIPPERS, SWANS, etc.

GRASS GROWING NOVELTIES, HEADS, ANIMALS, etc., and various expressions WHEAT SHEAVES, CYCAS LEAVES

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We are a straight shoot, aim to grow into a vigorous plant

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

Vol. XXIII. · No. 26

NEW YORK AND CHICAGO, JUNE 29, 1907

One Dollar Per Year

CARNATION WINSOR

The most talked about carnation at the Toronto Convention. Won first prize for best 100 pink

Winsor is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders, and have a fine lot of stock in the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor

than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market where our flowers are sold.

There is nothing on the market that approaches Winsor today in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities, in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high quality flowers. It practically does not split at all, notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with everyone, we have not had one-half of one per cent. of split calyxes on the Winsor. In fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Anyone who fails to plant Winsor this year will regret it. Rose pink Enchantress is good, and a good many other varieties are good, but IF YOU WANT THE WINNER, PLANT WINSOR.

Strong Rooted Cuttings. \$12.00 per 100, \$100.00 per 1000.

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



Asparagus Plumosus Nanus

Cut Strings, 8 ft. Long
50 Cents Each

Asparagus Plumosus Nanus

Plants, 2 1/4 Inch Pots
\$3.50 per 100; \$30.00 per 1000

W. H. ELLIOTT, Brighton, Mass.

Canna King Humbert

Grand Orchid flowers with bronze Musa-like leaves, strong 3 inch. Doz. \$3.00, 25 for \$6.00. Get it now.

Asparagus Plumosus Nanus

Fresh greenhouse grown seed of highest vitality, grows into money quickly. Per 1,000, \$4.00; 5,000 for \$17.50; 10,000 for \$30.00.

RUSTIC HANGING BASKETS AND INSECTICIDES

	9-inch	11-inch	12-inch	14-inch
Each\$0.85	\$ 1.00	\$ 1.25	\$ 1.50
Dozen9.50	11.00	13.00	16.00

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Write for list

Freesia Bulbs are Ready Harrisii Should be Ordered Now

Write for Special List

Vaughan's Seed Store

14 Barclay St., New York

Tel. 1676
Cortlandt

CHICAGO, 84 Randolph St.

Greenhouses, Western Springs

Hardy Chrysanthemums

Large flowering or Aster varieties, \$3.00 per 100, \$25.00 per 1000.
Small flowering or Button varieties, \$2.00 per 100; \$18.00 per 1000.

Celery Plants

We have Celery plants in unlimited quantity ready to ship in such varieties as Boston Market, Dwarf Golden Heart, Giant Pascal, Golden Self Blanching, White Plume and White Solid; also Celeriac, Giant Prague and Moss Curled Parsley, \$1.00 per 1000; 10,000 and over, 85 cts. per 1000 delivered to the Adams or U. S. Express Co., here.

Let us fill your orders for Celery plants, shipping direct to your customer under your tag, not letting our name appear on the package. If wanted by mail add 10 cts. per 100.

Hardy English Ivy

Extra strong, \$2.00 per 100; \$18.00 per 1000.

Geraniums

Standard varieties and novelties for \$2.00 per 100 up to 75c. each. We will send one thousand in twenty varieties. Our selection single and double for \$18.00.

Caesar Franck. Beautiful soft crimson Ivy Geraniums, 1905 Novelty, 25c. each, \$1.50 per doz., \$10.00 per 100.

Alliance. the handsome semi-double hybrid between an Ivy and a Zonal color of the Col. Baden-Powell, strong robust grower, \$1.50 per doz.; \$10.00 per 100.

IvyLeaved Geraniums
in 6 good varieties, \$3.00 per 100.

Special offer of Novelties

To introduce the newer varieties and to give an opportunity to have them thoroughly tested we will for a short time send one each of 30 varieties of the 1905 and 1906 novelties, our selection for \$5.00 cash. This collection will include those of such noted introducers as Bruant, Lemoins, Rozain-Bouchalat and H. Cannell & Sons and represent one of the finest collections of geranium novelties ever offered in this country. Do not ask us to send less than 100 at this price. If you haven't our Geranium Catalogue send for it.

All stock is in A No. 1 condition and from 2 in. pots, unless otherwise stated. Our Geranium catalogue contains prices and descriptions of our 175 varieties. Send for it if you haven't it.

Our wholesale catalogue to the trade only.

Visitors always welcome.
Cash With Order.

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

Hanging Baskets



10 in Bowl \$1.10 Doz. \$11.00
 12 " " 1.25 " 13.00
 14 " " 1.50 " 16.00

RUSTIC SETTEES \$7.00
 " **WINDOW BOXES** 1.25
 " **ARM CHAIRS** 3.25
 " **TUBS** 1.25
 " **TUBS, on Stands** 2.75
CANES for Chrysanthemums, 1000, 6.00

WM. ELLIOTT & SONS, 201 Fulton St., N. Y.

RAWSON'S GOLD MEDAL STRAIN PRIMULA CHINENSIS

Are today The Choicest Primulas grown in America.
 The seeds are raised for us exclusively by an English grower who has the reputation of producing The Finest Primroses in Great Britain.

NOW IS THE TIME TO SOW



Pure White, Brilliant Pink, Deep Blue, Chiswick Red, Crimson, Salmon, Christmas Red and Superior Mixture of 50c. per 100 seeds or \$4.00 per 1000

OUR SEED IS STRONG IN GERMINATION

W. W. RAWSON & CO.
 5 UNION STREET, BOSTON, MASS.

Established 1802.

Thorburn's Seeds

Asparagus Plumosus Nanus Seed

Send for prices.

COLD STORAGE

Lily of the Valley Pips

best possible grade, in cases of 1000 and 3000 pips each, at \$12.00 per 1000.

Advance orders now being booked for Bermuda Easter Lilies and Roman Hyacinths. Send for prices.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place, New York.

Everything of the highest grade.

ALL GIANTS
 are used in mixing our
Pansy Seed

BODDINGTON'S "CHALLENGE"

Mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self colors, the Giant striped and margined, and the Giant blotched—all carefully mixed in proportion—the finest that money can buy. A Florist, who has grown it, said "Why don't you call it 'Defiance'?"
 Trade pkt. 75c., 1/2 oz., \$1.60, 1/4 oz. \$2.75, oz. \$5.00. New crop ready July. Order Now.

ARTHUR T. BODDINGTON,
 342 West 14th St., New York City.

Florists Bulbs

Import Orders Now Booked.

Best Grades Only.

Write For Prices.

W. C. BECKERT,
 ALLEGHENY, PA.

XXX SEEDS

CHINESE PRIMROSE. Finest grown, large flowering, fringed, single and double. 15 varieties, mixed, 500 seeds, \$1.00; half pkt., 50c.

CINERARIA. Finest, large flowering, dwarf, mixed, 1000 seeds, 50c.

GIANT PANSY. The best large-flowering varieties, critically selected, 5000 seeds, \$1.00; half pkt., 50c.; 500 seeds of Giant Mms. Parrot pansy added to every \$1.00 pkt. of Giant Pansy.

PRIMULA OBCONICA GRAND. Giant flowering mixed, 1000 seeds, 50c.

Cash. Liberal extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.
 The Home of Primroses.

GIANT FANCY PANSY SEED ZIRNGIEBEL'S

Having succeeded to the business of my father, I shall continue to furnish the same High Grade Pansy Seed as that sold by him for so many years. The public may rest assured that I shall spare no expense to maintain its high standard.

Zirngiebel's Giant Market Pansy, 2,000 seeds, \$1.00.
 Zirngiebel's Giant Fancy Pansy, 1,000 seeds, \$1.00.
 Zirngiebel's Superb Giant Prize Pansy, 1,000 seeds, \$1.50.

Fresh crop of seed ready July 1; plants after August 15. All packages of seed sold by me will bear my signature; none genuine unless bearing my full name.

DENYS ZIRNGIEBEL, NEEDHAM, MASS.
 GREENDALE CONSERVATORIES
 Established 1866.



S. & W. Co.'s Giant Prize Strains.

Double Fringed—Double white, Double Scarlet, Double magenta red, Double rosy pink, and Mixed, \$1.00 per pkt. 250 seeds.

PRIMULA		Tr. Pkt. 1-32 oz.
Obconica, grandiflora alba	\$0.25	\$0.75
rubra, deep lilac red	25	75
Carminea, fine	50	2.00
Sanguinea, deep red, extra.	50	2.00
hybrida compacta, new compact large umbels, true from seed	50	2.00
STUMPP & WALTER CO., 50 Barclay St., NEW YORK.		

PALM SEEDS

FOR IMMEDIATE DELIVERY.

	Per 100	Per 1000
Kentia Balmoraana	\$0.75	\$ 6.00
Lantana Borbonica	.40	2.50
Eivostona rotundifolia	1.75	15.00
Phoenix rupicola	1.00	7.50
Phoenix Canariensis	.50	3.00
Dracaena Indivisa, \$2.00 per lb., per oz. 15c.		
Asparagus plumosus nanus, greenhouse grown, 75c. per 100 seeds, \$1.00 per 250 seeds, \$3.00 per 1000 seeds.		

ARTHUR T. BODDINGTON,

342 W. 14th Street, New York City

Francis Brill Hempstead, L. I., N. Y.

Wholesale Grower and Dealer
 in the very best

Garden Seeds

Choice Pansy Seed a Specialty

Ask for price list and testimonials received from American nurserymen.

V. FROMHOLD & COMPANY
 Pansy Seed Growers,
 Naumburg On Saale, Prov. Saxony, Germany

PERENNIAL FLOWER SEEDS

Calceolaria and Cinerarias, W. & O's selected strain. Suna Crop Mushroom Spaw; English and Pura Culture, Central Park Lawn Grass.

Special prices on application.

WEBBER & DON, Seed Merchants and Growers
 114 Chambers Street, NEW YORK

—Established 1824—
BRIDGEMAN'S SEED WAREHOUSE,
RICKARDS BROS., Props.

IMPORTERS AND GROWERS OF HIGH GRADE

Seeds, Bulbs, Plants, Etc.

37 EAST 19th ST., Near Broadway,
 NEW YORK CITY
 Tel. 4235 Gramercy.

CINERARIA

	Per Tr. Pkt. 1-64 oz.	Per 1000
S. & W. Giant Prize Strain	\$0.50	\$2.00
grandiflora, large flowered, prize var., splendid mixed	.50	2.00
grandiflora alba white	.50	2.00
grandiflora Incarnata	.50	3.00
Flesh var.	.50	3.00
grandiflora Kermezia, large flowers, rich crimson	.50	3.00
grandiflora Fin de Siecle, rose varieties	.50	3.00
grandiflora sanguinea blood Red	.50	2.00

Candytuft (Iberis).

Empress large trusses of pure white flowers, very handsome, per lb., \$2.00... 10 20

Primula Chinensis. Single.

	Pkt. 250 seeds
Chiswick red	\$.50
Alba magnifica, white with eye	.50
Ruby Queen	.50
The Bride, delicate ivory white	.50
Rose carmine	.50
Rose Queen	.50
Pink Beauty	.50
Ficest mixed	.50

PRIMULA

	Tr. Pkt. 1-32 oz.
Forbesii. Rosy lilac, very floriferous, for pots; seedlings bloom in 3 months	25 75
Japonica. Mixed	10 25
Vulgaris. True yell. primrose	10 25
Auricula. Prize mixed	20 50



TOMATO

COLORED VEGETABLE SEED BAGS

Send for Cat. and Prices.

Herdon, Lester & Ivey Co.,
 Richmond, Virginia.

PRIMULA OBCONICA GRANDIFLORA

We handle the strains famous in Europe as "Ronsdorfer and Luttman's Hybrida" which are much superior to the ordinary commercial strains in size, shape and color.

	1/2 Tr. Pkt.	1 Tr. Pkt.
Alba, white	\$0.30	\$0.60
Coerulea, blue	.40	.76
Kermesina, carmine	.30	.60
Lilacina, lilac	.30	.60
Oculata, dark eyes	.30	.60
Sanguinea, blood red	.40	.76
Mixed colors	.30	.60
Fringed mixed colors	.30	.60
Fringed mixed colors	.30	.60
Double mixed	.40	.76

Perennial Gardens Co. Toledo, O.

Giant Cinerarias

Mixture of perfect Colors.
 Dwarf Hybrids } Each separate
 Semi-Dwarf Hybrids } Tr. Pkt. \$0.50
 O. V. ZANGEN, Seedsman, HOBOKEN N. J.

BURPEE'S SEEDS

PHILADELPHIA
 Blue List of Wholesale Prices
 mailed only to those who
 plant for profit.



Lambert's Pure Culture Mushroom Spaw.
 Produced by new grafting process from selected and prolific specimens, thoroughly acclimated.
 Has never failed to run. Sold by Leading Seedsmen. Practical instructions on "Mushroom Culture" mailed free on application. American Spaw Co. St. Paul, Minn.

New Crop JOHNSON'S FAMOUS Prize-Winner PANSIES

JOHNSON'S KINOLY COLLECTION OF GIANT PANSIES embraces the PRIZE-WINNING STRAINS of the world's best specialists. It is absolutely unrivaled in range of magnificent colors, size and substance, and no expense has been spared to bring it up to its present high standard of excellence. Half trade packet (1000 seeds), 30c.; trade packet (2000 seeds), 50c.; 5000 seeds, \$1.00; per oz., \$5.00.

	Per Large Tr. Pkt. (2000 seeds)	Per Oz.
Giant Adonis, beautiful light blue.....	25c.	\$1.50
Giant Prince Bismarck, beautiful shades of brown.....	25c.	1.50
Giant Striped.....	25c.	1.50
Giant Peacock, ultramarine blue, claret and white, extra.....	40c.	3.00
Giant Emperor William, the best blue.....	25c.	1.25
Giant Black.....	25c.	1.25
Giant White with dark eye.....	25c.	1.50
Giant Trimardeau, choice mixed.....	25c.	1.00
Giant Fire King, golden yellow, upper petals purple.....	25c.	1.50
Giant Mme. Perrot, a magnificent giant strain of rare excellence, very early, vigorous and a rich combination of colors.....	40c.	2.50
Giant Lord Beaconsfield, purple, white petals.....	25c.	1.25
Giant Yellow, with dark eye, fine.....	25c.	1.50
Bugnet's Superb Blotched.....	40c.	4.00
Cassler's Giant Five Blotched.....	40c.	3.50
Masterpiece, a magnificent variety with curled petals and many rich colors.....	40c.	3.50
Giant Orchid Flowered (new), beautiful, rare shades.....	50c.	5.00
Giant Odier, extra large blotched, rich colors.....	40c.	3.00
Imperial German, mixed, a rich strain.....	40c.	3.00
Giant Parisian, brilliant colors, mostly five blotched, fine.....	30c.	1.75

SEND FOR OUR COMPLETE PANSY LIST
JOHNSON SEED COMPANY,
 217 Market St., Philadelphia, Pa.

ASTER SEEDS

There is ample time to sow Asters for general crop. The seeds we offer are 1908 crop and of our own growing. Several of our customers advise us that they germinate a hundred per cent.

	Td. Pkt. 1/4 oz. Oz.
Queen of Market, in separate colors, white, light pink, rose, lavender and purple.....	\$0.10 \$0.15 \$0.50
Snowdrift, early white.....	.35 1.00 3.00
Daybreak.....	.25 .40 1.25
Carlson's Branchlog, separate colors, shall pink, lavender, white and late white.....	.20 .30 .80
Late Branchlog, in separate colors, white, shall pink, light pink, bright rose, lavender and purple.....	.20 .30 .80

Special prices quoted on large quantities.

NATHAN SMITH & SON, Adrian, Mich.

FISKE'S HIGHEST GRADE Seeds and Bulbs
 ALWAYS RELIABLE
H. E. FISKE SEED COMPANY
 12 and 14 Faneuil Hall Sq., Boston, Mass.

ALTERNANTHERA

Red and Yellow
VERSCHAEFFELDTI COLEUS
 Extra fine, at \$20.00 per 1000.

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

C. C. Morse & Co.
SEED GROWERS, San Francisco, Cal.
 Address all communications to our permanent address, 48 to 58 Jackson Street.
ONION, LETTUCE AND SWEET PEAS AND ALL OTHER CALIFORNIA SPECIALTIES
 Warehouses, Santa Clara. Farms and Farm Headquarters, Carnadero, near Gilroy.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
 Henry W. Wood, Richmond, Va., president; C. S. Burge, Toledo, O., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer; J. H. Ford, Ravenna, O., assistant secretary.

SABETHA, KANS.—The new seed house of Howard Lines & Company bids fair to be one of the finest in town, says a local newspaper.

CARTHAGE, MO.—A recent fire in the basement of the Carthage Seed Company's store was extinguished before any great amount of damage was done.

DES MOINES, IA—Henry Field, seedsman, Shenandoah, Ia., is, it is reported, looking for a location for a branch house, and may build in Des Moines. Mr. Field desires to establish a branch in a city nearer the center of the State, his present house being in the extreme southwest corner of the State. He deals largely in seed corn.

BOSTON, MASS.—The firm name of T. J. Grey & Company has been changed to the T. J. Grey Company. The new members of the firm are Peter Miller and J. P. A. Guerinoux both well known in the trade in this city.

Maurice Fuld of W. W. Rawson & Company has gone to New York to attend the convention of the American Seed Trade Association. J. W. D.

NEW YORK.—The following gentlemen have been appointed by the New York Produce Exchange as members of its seed committee for the ensuing year: William Jacot, Marshall H. Durvea, Ernst Whence, O. W. F. Randolph, and Chas. Wimmer.

Lawrence S. Payn, who succeeds Louis Goeppling as representative of Messrs. Andre Leroy & Company, seed growers, Angers, France, has arrived in New York on his first annual trip. His address while here will be care of Messrs. F. B. Vandegriff & Company, Kemble Building, Whitehall street, New York.

CHICAGO.—The maggot, the enemy of onion set growers, has made its appearance, some producers reporting its devastations already amounting to forty per cent, of the crop.

Arthur G. Lee of Fort Smith, Ark, was in the city last week.

F. T. Emerson, seedsman, spent some time in Chicago on his return from Mercedes, Texas, which he now calls home, and joined the delegation leaving last Sunday for the New York convention. Although until further experiments with irrigation and the climate Mr. Emerson is not ready to make any positive assertions covering the territory from Maine to California he believes he has found the ideal spot for seed growing. After the convention he will visit his former home in Boston.

John M. Clark of the Leonard Seed Company, after the convention of The American Seed Trade Association, will spend a few days at his former home on Staten Island where his mother still resides.

The party who left Chicago over the Lake Shore route at 1.45 on Sunday last for New York to attend the Seed

Japanese Bamboo Stakes

for tying Lilies, Roses, Chrysanthemums, etc.; more durable than any wooden or Southern Cane Stake.
 6 ft. long, 3/4-in. diameter, 55c. per 100, \$5.00 per 1000, \$9.00 per 2000.
Seeds for Present Sowing

Asparagus plumosus nanus, (True Greenhouse).....	100 30.40	1000 33.00
Asparagus plumosus nanus, Lathouse grown.....	.25 1.75	
Asparagus Sprengeri.....	.15 .75	

From Flats: Asparagus Pl. Nanus Seedlings. \$1.25 per 100, \$10.00 per 1000.

From Flats: Fern Seedlings, fine assorted. Adiantum, Aspidum, Cyrtotium, Davallia, Pteris, etc., \$1.25 per 100, \$10.00 per 1000.

SPECIAL OFFER

ON ALL ORDERS REACHING US BEFORE JULY 15th WE ALLOW A DISCOUNT OF 5% FROM OUR FALL BULB LIST.

SEND FOR IT.
H. H. BERGER & CO.
 70 WARREN ST., NEW YORK

FISCHER'S GRAND FREESIA PURITY

Will be ready for delivery in July.
PRICES:
 1st grade, \$2.75 per 100; \$22.00 per 1000
 2nd grade, \$2.25 per 100; \$18.00 per 1000;
 250 at 1000 rates.

All orders up to 1000, sent free by mail. Limited quantity of **MAMMOTH BULBS**, at \$4.00 per 100.

Cash with order from unknown parties.
Rudolph Fischer,
 SANTA ANITA, LOS ANGELES CO., CAL.

SEEDS Hollyhock, Chatier's Primula obovata, grandiflora, veris, statior. Giant Cinerarias, Giant Pansy, imperial strain. Carnations, Margaret; Bellis perennis, etc., each kind, pkt., 25c.
IMPERIAL SEED & PLANT COMPANY, Grasse, Batio. Md.

PREPARE FOR CHRISTMAS

Novelties, always sell during the holidays. If you have not already grown them, try some Pink or Rose Speciosums. If potted in July, will flower for Thanksgiving and Christmas. Always useful either for cut flowers or plants. Ask the leading florists in Pittsburg, Cleveland, Detroit, Buffalo, or around New York City. Order to-day. Will ship any time.
 Cold storage Liliun longiflorum and giganteum take about two months to bloom from time of potting; speciosums from five to six months, so that longiflorum wanted for Thanksgiving and Christmas should be planted about Oct. 1, and speciosums in July.

All Cases are Re-packed Before Shipment

Liliun longiflorum Giganteum, 7 to 9-in. bulbs, 300 in case, \$9.00 per 100, \$80.00 per 1000.	bulbs, 200 in case, \$8.00 per 100; \$75.00 per 1000; 9 to 11 in. bulbs, 150 in case, \$12.50 per 100; \$110.00 per 1000.
Liliun longiflorum Multiflorum, 9 to 10-in. bulbs, 200 in case, \$11.00 per 100; \$100.00 per 1000.	Liliun Speciosum Melpomene, 8 to 9-in. bulbs, 200 in case, \$9.00 per 100; \$80.00 per 1000; 9 to 11-in. bulbs, 150 in case, \$12.00 per 100; \$115.00 per 1000.
Liliun Speciosum Rubrum, 8 to 9-in. bulbs, 200 in case, \$10.00 per 100; \$100.00 per 1000.	Full cases sold at 1000 rate.

ARTHUR T. BODDINGTON, 342 West 14th St., NEW YORK CITY.

200,000 CALLA LILY BULBS --- ÆTHIOPICA

Calla Æthiopica, 10 inches circumference.	100	1000
" " 9 " " " " " "	\$10.00	\$90.00
" " 8 " " " " " "	8.00	70.00
" " 7 " " " " " "	7.00	50.00
" " 6 " " " " " "	5.50	45.00
" " 5 " " " " " "	4.50	35.00
" " 4 " " " " " "	3.50	25.00
" " 3 " " " " " "	2.25	15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My second car leaves for the East promptly on July 15. If cash is sent with the order I will prepay the freight, which is 15 per cent. value of the bulbs.

A. MITTING, 17-23 Kennan St., SANTA CRUZ, CAL.

GLADIOLI "AMERICA"

is again proving to be the ideal forcing variety. The magnificent spikes are bringing \$2.00 to \$4.00 per doz. Do not fail to provide for some bulbs next season.

Before placing your order for **LILIUMS** write us for prices on home-grown bulbs that can be supplied after October 1; not too late for outdoor planting.

John Lewis Childs
FLORAL PARK, NEW YORK

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing **GROFF'S HYBRIDS, NAMED NOVELTIES** of rare beauty, MIXTURES and COLLECTIONS to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE, Gladiolus Specialist, MEADOWVALE FARM, BERLIN, N. Y.

Trade convention, occupying a large part of the Pullman Car Brightwood, included Messrs. Peter Hollenbach, Leonard Vaughan, J. C. Robinson, Waterloo, Neb.; Lawrence Robinson, Waterloo, Neb.; E. T. Emerson, Mercedes, Tex.; S. A. Wilson, (L. L. Olds Seed Company), Clinton, Wis.; S. F. Leonard and John M. Clark, (Leonard Seed Company). The first three named were accompanied on the trip by their wives and W. F. Phillips of Toledo, O., and E. M. Parmalee of the Allen Seed Company, were expected to join the delegation at Toledo.

Vaughan's Seed Store received their first shipment of California freesia bulbs the first of this week. W. K. W.

KENDALLVILLE, IND.—Mr. Kundred, who suffered a heavy loss in his gladiolus garden, due to the heavy rain, has decided to sue the city for damages. At first he thought his loss but a few hundred dollars, but later developments show that nearly his whole crop was destroyed. Not only will Kundred lose, but also a large Eastern firm, which had sent a lot of bulbs to him for experimental purposes.

Clover SEED is now selling at the lofty price of \$9.50 per bushel, and those familiar with conditions advise those who contemplate sowing clover next Spring to buy their seed now, as it is predicted that the price may reach \$15 per bushel. It is said that there is only a small quantity of clover seed on the markets, and as the average this year is smaller than usual, the price is most likely to soar skyward.—Exchange.

Iowa's PURE SEED LAW.—The new law prohibiting the sale of goods containing noxious seeds in Iowa does not cover mail order shipments, says a local daily. The Iowa law, it is claimed, will work many hardships on dealers within the State in competition for home trade. The goods they put on the market must bear the pure seed label and come up to its standard. Iowa dealers handling seeds in bulk or packages for retail trade must also comply with these provisions. However, outside firms selling their goods by catalogue do not have to comply with it. A lower grade of seed can thus be sold by the mail order firms at a lower price than the Iowa dealers can quote on the more expensive grades which they are obliged to supply according to the law. Unless the buyers are educated to discriminate in behalf of good seeds, the Iowa business will be practically monopolized by the outside houses with their bargain counter prices. As an indication of what is being done by outside houses, the Iowa dealers give the result of an investigation made by the Iowa State College at Ames. The officials secured 150 samples of clover seed shipped into the State and analysis showed that ninety-eight of them contained buckhorn and twenty-one Canada thistle seeds.

State Dairy Commissioner Wright, who will have charge of the enforce-

ment of the pure seed law which goes into effect July 4, met with the seedsmen and explained the law. The dealers present agreed to comply with the measure despite the hardships it will impose upon them and also agreed to aid him in enforcing the measure. In addition to this, it was decided to send out 15,000 circulars to Iowa dealers calling attention to the new law and laying stress on the danger of mail order houses outside of the State attempting to flood this section with impure seeds.

"The Blossom End Rot of Tomatoes" is the title of Bulletin 3 (April, 1907) of the Massachusetts Agricultural Experiment Station, Amherst, giving the results of investigations pertaining to the cause of this trouble.

European Notes.

Three warm days in succession inspire us with the hope that Summer has arrived at last and that the cool spell stretching from Egypt to the Atlantic has at last come to an end. Already in the extreme South warm rains have fallen and benefited the cultures, and its advent in the North cannot be long delayed.

The Southern harvest of extra early cauliflower is now in full swing. The seed is, in general, well developed and the sunshine gives it the final touch. Cabbage and kohlrabi, so far as they have survived the Winter, are doing splendidly. Judging by present appearances the crop will be phenomenal, and one wonders what would become of the seed had the acreage been as great as in 1904-5. The lack of contracts from your side is in a great measure responsible for the shrinkage. Holland is the dark horse.

One crop at any rate has benefited by the dry spell and that is onion; the present appearance of this culture is simply grand. At this moment the inflorescence is visible; the hot sun is therefore doubly welcome.

The writer does not know if the culture of the Lisbon Winter onion has been a success in your country. If it has, the trade can be developed without difficulty, for seed of strong germination can be bought at a ridiculously low figure just now, and as the acreage growing is simply immense seed will be equally cheap next year. The quantity of this article sown by the market growers round London is very great. In early Spring salads it is indispensable, but as a large onion it is of very little value.

Dandelion is such an important article in France that the very great scarcity of the seed deserves to be noted here. Both the common and the improved varieties are included. During the present week one has heard of as much as 30 francs per kilo being paid for the Pull Heart, or cabbaging variety.

It is unsafe to touch upon annual crops, especially radish, at present. "Sufficient unto the day," etc.


EUROPEAN SEEDS.

NOTES FROM HOLLAND.—Seldom, if ever, have bulb crops at this time of the year been so free from disease and so little of the blight in the foliage of the tulips as is the case this year. The warm and dry weather of the last two weeks has no doubt done a great deal of good in this respect but from the present outlook a good crop of tulips may be expected, but the crocus crop which is still in its growing state is looking extremely poor and not much good of it is being expected.

Hyacinths are also looking well with the exception of some sorts that have suffered from the last very keen frost that we have had and, besides, this crop needs nearly all of the month of June to come to full maturity, and a sudden change in the weather may turn the scales very rapidly.

Narcissi are also looking well generally, but as the acreage planted out this season is considerably smaller than last season a very good crop will be needed to meet the expected demand.

The Spring planted gladioli are now nearly all well above ground and it is already very apparent that such gladioli as Colvillei will be a short crop as most of them are looking weak as if they had suffered from the severe and late Winter, while many of the rannuculus are turning yellow already before having come into bloom and have not been able to withstand the severe night frosts we had last week.—Horticultural Trade Journal.



BARGAIN TO CLEAR

TUBEROUS ROOTED BEGONIAS
Fine large bulbs. Single Orange, White, Red, Yellow and Mixed. Price, per 100, \$1.50, per 1000, \$14.00.

CYCAS REVOLUTA STEMS
Very profitable. Pot now for early winter. Assorted cases, 1 to 5 lbs., and 5 to 10 lbs. Price, 10 lbs. \$1.00, 25 lbs. \$2.00, 100 lbs. \$7.25, per case (300 lbs.) \$21.00.

ASPARAGUS PLUMOSUS NANUS SEED
True greenhouse grown, of good tested germination. Price, 50c. per 100, \$3.00 per 1000.

GIANT PRIMULA SEED. Finest Mixed, 1/2 trade pkt. 50c., trade pkt. \$1.00. *Kermesina Splendens*, grand crimson, 250 seeds 50c., 1000 seeds \$1.75. *Alba Magnifica*, snow white, 250 seeds 50c., 1000 seeds \$1.70. *Peach Blossom*, 250 seeds 50c., 1000 seeds \$1.70.

PRIMULA OBCONICA. *Grandiflora*, mixed, trade pkt. 30c. *Grandiflora*, *Rosea*, trade pkt. 40c. *Grandiflora*, Pure White, trade pkt. 40c.

Stokes Seed Store

219 MARKET ST., PHILADELPHIA.

WANTED WANTED WANTED

People who are desirous of receiving the best stock in **Bulbs, Plants, etc.**, at reasonable prices!

Prices will be cheerfully given to those applying to

F. W. O. SCHMITZ, Prince Bay, N. Y.

FRENCH SEED CROPS.—From what we learn from your side, the crops in California appear to be in a very bad shape as regards quantities, and we are having numerous demands from America.

In Northwest France a portion of the plantings passed the Winter badly, but in general the crops are more promising than might have been expected. When we remember the long, severe drought of last Summer when carrots, beets, mangolds and leeks could not be sown until very late, it was not supposed that the roots would ever become large enough for seed purposes. We also experienced a very severe Winter. Under these circumstances, it is to be hoped that a remunerative price will be obtained.

Cabbage will be a short crop with us; they were sown too late last Autumn, on account of the dry weather, and the plants were too weak to stand the rigors of Winter. The same remarks apply to turnips and swedes, of which we expect a short crop indeed.

The acreage of leeks planted looks pretty well up to the present time, but it was a small one, and prices are already advancing on account of the unfavorable outlook for the next crop.

Of onions there was also a very small acreage planted because of the long continued dry weather last year. Onion bulbs did not develop, most of them being small and unsuitable for planting for seed purposes. I was recently speaking with a grower who has raised onion bulbs for over 40 years, and he informed me that never before in his experience had he seen such a bad crop in this country as that of last season. Under these conditions, a short crop only is expected; and if we consider the failure of the onion crop of 1906 with the then record-breaking prices, also that most stocks are now exhausted and the 1907 crop is expected to turn out very short in France as well as in America, it can easily be realized that prices of most varieties of onion seed will advance next season. No doubt, there will be a big demand for such sorts as White Spanish, Zittau, Bedfordshire Champion, James Keeping, Danver's Globe, etc.

Carrots do not look bad, although a smaller acreage has been planted than usual here.

Beets will be a poor crop generally speaking. There was very little planted, and in most cases the plants suffered from the hard Winter.

Mangolds are looking pretty well, and a large acreage of the half sugar varieties has been set out.

The past Spring our sowings were carried out under very favorable conditions. Radishes and lettuces have lately been retransplanted, and the weather has been most suitable for this work. Now, however, it is rainy and cool, and the change to a warm temperature is very much desired for the benefit of everything in the fields. FRENCH SEEDS.

Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent free upon request as soon as issued.

Vick's Superb Pansy Seed

All the best varieties in separate colors. VICK'S SUPERB MIXTURE, the best strain from all the leading named sorts: 1/2 ounce, 85c.; 1/4 ounce, \$1.60; ounce, \$6.00.

James Vick's Sons, Rochester, N. Y.

PANSY SEED
NEW CROP—NOW READY

The Jennings' strain, large flowering, in great variety of fancy colors, finest mixed, \$1.00 pkt. of 4,000 seeds, \$4.00 per ounce; three ounces, \$11.00. Price to seedsmen on application. Cash with order.

E. B. JENNINGS,
Lock Box 254, SOUTHPORT, Conn.
Grower of the Finest Pansies

ESTABLISHED 1900

POAT BROS.

BULB GROWERS

ETTRICKS, VA.

NARCISSI DAFFODILS
TULIPS IRIS, ETC.

Send For Catalogue.

Bulbs Bulbs

Clean, sound, dry, true, large, healthy and cheap. Send card for catalog. We are going to sell Emperor, Sir Watkin, Burri and about 60 others.

D'ALCORN, Portsmouth, Va.

CATALOGUES RECEIVED.

HENRY A. DREER, Philadelphia, Pa.—Catalogue of Pot-grown Strawberry Plants, Decorative Plants, Flower and Vegetable Seeds, Sundries, etc.

PETER HENDERSON & COMPANY, New York.—Midsummer Catalogue of Strawberry Plants, Vegetable Seeds, Field Seeds, Implements, Supplies, etc. Illustrated.

Pansy Seed

MICHELL'S GIANT EXHIBITION is the finest strain of large blooms in existence today. One grower wrote and told us he paid \$10.00 per oz. for a strain that was not as good as ours for \$5.00.

Per trade pkt.\$0.50
Per 1/2-oz.75
Per oz.50

CINERARIA

MICHELL'S PRIZE STRAINS. GRANDIFLORA, dwarf mixed, 1/2-trade pkt., 60c.; trade pkt., \$1.00. GRANDIFLORA, medium tall, mixed, 1/2-trade pkt., 60c.; trade pkt. \$1.00.

PRIMULA

MICHELL'S CHOICEST MIXTURE, contains a large variation of colors. Immense trusses, 1/2-trade pkt., 60c.; per trade pkt., \$1.00; per 1-1/2 oz., \$2.00.

Write for our Wholesale Price List for florists

Henry F. Mitchell Co.

1018 Market St., Philadelphia

Newport, R. I.

News and Trade Notes.

Newport is filling up with Summer residents with amazing rapidity, and business activity is noticeable everywhere. Present indications point to one of the best seasons on record.

Gibson Brothers who conducted a florists store on Bellevue avenue for a great many years, moved to Washington square where they are apparently doing very well.

F. Zeigler has taken a store in the Derby Building on Bellevue avenue. The new store of Zeigler's is quite close to that of Leikens and not far from the Casino store of Wudley & Smythe.

The bulk of the bedding out is finished but the rush of people to their residents last week made the latter part of it the busiest, by great odds, of the season. Most growers are sold out of many kinds of plants. V. A. Vanicek of the Rhode Island Nurseries, cleared out the most of his bedding plants more than a week ago, he then went to New York in search of stock to fill his orders with.

Messrs. Wadley & Smythe, in addition to shipping many trees and shrubs from their nursery here, bought extensively of bedding stock from Galvin and others for shipment to points adjacent to the places now being laid out and planted by them.

William Jurgens is cutting good roses, and is optimistic to the extent of having under way a new house especially adapted for growing roses for the Summer trade.

Stewart Ritchie had a very successful Spring trade in bedding plants besides a demand for all the carnations he could grow for the local market. It is understood that Mr. Ritchie is thinking of adding still another to his range.

Individuals and firms making a specialty of dahlias sprung up like mushrooms this Spring and from what can be learned it seems that all of them made ends meet and a few a good deal more.

Seed houses in New York and elsewhere had representatives here last week to take whatever orders needed immediate attention. When everybody has a good deal more to think about, it might pay some of these firms to quietly send their men here a little later in the season when time is not so precious, and conclusions more likely to be arrived at.

Heretofore there have been persistent rumors of Wm. B. Leeds having decided to build a range of glass for his newly acquired estate of "Rough Point." Now is stated on good authority that this range will be built in the near future and that it will occupy the ground now covered by a rambling stable and paddock.

From the looks of things at present hothouse fruit, such as grapes peaches and nectarines, will be unusually scarce in the Newport market this season, consequently better prices may be looked for. Melons, especially early melons, bring a very good price in Newport, hothouse tomatoes are also in good demand at fair prices all through the Summer.

The exhibition of the Newport Horticultural Society has been postponed to July 9 and 10. A notable feature of nearly every exhibition held by this society in recent years has been the display of water lilies by Henry A. Dreer, Philadelphia. It is hoped that this year a like display will be put up by that firm. Julius Roehrs Company and Messrs. Lager & Hurrell are also always on hand with displays.

Roses are not only late this season but it is also feared that they will be inferior in quality to those usually seen at Newport shows, but arrangements are made, as provided for in the schedule, to have other exhibits on a scale that will in themselves make the show attractive and interesting
D. M.

MASON CITY, IA.—The flooding of Lime Creek recently inundated the grounds of Nicholas W. Fisher, who lately started in the florist business here, doing considerable damage.

Hydrangea Otaksa fine plant in three different sized tubs and half barrels covered with buds, at \$7.50, 5.00 and 3.50 each, pot plants from 6-7-8 in. pots, at 50c. and 75c. each. Cash please.
J. AMBACHER, WEST END, N. J.

Grafted Bridesmaids or best English Manetti, 2 1/2 and 3 1/2 in. pots, \$10.00 and \$12.50 per 100. A few 2 1/2 in. Brides left at \$10.00.

Montrose Greenhouses, MONTROSE, MASS.

CANNAS

Potted Plants.

David Harum
Duke of Marlborough
Martha Washington
Compte de Boucharde } \$6.00 per 100.
Presl. Cleveland
Altenunia
Gladitor
Brandywine } \$7.00 per 100.
Grant Crimson
Louisiana, \$8.00 per 100.
King Humbert, \$15.00 per 100.
Black Beauty, \$10.00 per 100.

THE CONARD & JONES CO., West Grove, Pa.

CANNAS

Two great Gold Medal Cannas, KING HUMBERT, \$1.50 per doz.; \$10.00 per 100, and MRS. Wm. KASTING, \$8.00 per 100. EGANDALE and BRANDYWINE, \$6.00 per 100. CRIMSON BEDDER, a superb, handsome bedder, \$5.00 per 100. All the above A No. 1 stock, pot bound out of 3 1/2 in. pots. Cash.

A. CORLIN, ELBERON, N. J.

DAHLIAS

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. PEACOCK, Inc.
ATCO N. J.

Hardy Ivy

Only \$5.00 per 100, \$40.00 per 1000

CHAS. H. CAMPBELL
3601 GERMANTOWN AVE., PHILA., Pa.

**Jensen & Dekema
CARNATION SPECIALISTS**

674 W. Foster Ave., CHICAGO.

**GOVERNOR HERRICK
VIOLET**

The new single violet. Fine, strong, healthy plants, \$5.00 per 100; \$50.00 per 1000. Write me about it to-day.

LOUIS D. Mc COY, Spring Valley, N. Y.

Aster Plants

10,000 White Simple and Vick's White Branching Aster Plants. Price \$2.00 per 1000.

H. B. WILLIAMS, Baldwinsville, N. Y.

AZALEAS

Ask our special prices before ordering elsewhere; grown exclusively for us by Eugene Verveat De Vos, Swynepare near Ghent, Belgium. 250,000 fine shaped plants in his own gardens. Address,

JOHN SCHEPERS & COMPANY
4 & 6 Old Slip, NEW YORK CITY

VEGETABLE PLANTS

LETTUCE, Grand Rapide, Big 100 1000
Boston, Boston Market and
Tennis Ball, Ready May 1st..\$0.20 1.00
PARSLEY, Moss Curled25 1.25
BEETS, Eclipse25 1.25
CELERY, White Plume, Giant
Pascal, Golden Heart and
other varieties 1.00
TOMATO, Stone, Perfection,
Beauty and other varieties.... 1.00
CABBAGE, Flint Dutch, Drum-
head, Hollander, Savory, and
other varieties 1.00
R. VINCENT & SON, Jr. White Marsh, Md.

ROSE PLANTS

2 1/2 in. POT PLANTS 3 1/2 in. POT PLANTS

	per 100	per 1000		per 100	per 1000
Am. Beauty.....	\$6.00	\$50.00	Richmond.....	\$5.00	\$40.00
Richmond.....	2.50	22.50	Bridesmaid.....	5.00	40.00
Bridesmaid.....	2.50	22.50	Bride.....	5.00	40.00
Uncle John.....	2.50	22.50	Ivory.....	5.00	40.00
Chatenay.....	2.50	22.50	Perle.....	5.00	40.00
Bride.....	2.50	22.50	Chatenay.....	5.00	40.00
Ivory.....	2.50	22.50	Sunrise.....	6.00	50.00
Liberty.....	4.00	35.00			
Sunrise.....	5.00	40.00			

KILLARNEY

2 1/2 inch pots, Grafted Stock \$12.50 per 100.

One Year Old Bench Plants, **Bridesmaid, Bride, Chatenay, Ivory, Uncle John, Sunrise and Perle,**
\$5.00 per 100 \$40.00 per 1000.

Chrysanthemums

2 1/2 in. POT PLANTS

WHITE	per 100	YELLOW	per 100
Chadwick.....	\$2.00	Yellow Eaton.....	2.50
Estelle.....	2.00	Col. Appleton.....	2.00
T. Eaton.....	2.50		
		RED	
		Black Hawk.....	2.00

**Peter Reinberg
51 Wabash Ave. CHICAGO**

Philadelphia American Beauties

3 in., strictly first-class plants

**Myers & Samtman
Chestnut Hill, Philadelphia, Pa.**

ROSES

100 1000
5000 American Beauty plants, \$15.00 \$140.00
5000 Bridesmaids, 6.00 60.00
5000 Brides, 6.00 60.00
2000 Richmond, 7.00 60.00
2000 Meteors, 6.00 60.00
All out of 4 in. pots; fine stock; clean and as good as grown.
L. M. NOE, MADISON, N. J.

ROSES

2000 very fine Richmond rose plants, 3 in., \$40.00 per 1000.
L. B. CODDINGTON
MURRAY HILL, N. J.

BABY Rambler, in bloom, 2 1/2.
COCHETS, M. Neil, Bessie Brown, La France, etc, 2 1/2c.
KAISERIN, Jacq. Plantier, Charts, 3c.
2 1/2-in. pot. O'v'n root. **ROSES "COLEUS, Golden Bedder."**

See full price list, page 82c, June 22.

THE LEEDLE FLORAL COMPANY
SPRINGFIELD-OHIO

ROSES

A few thousand in prime condition, own roots, 3 1/2-in. pots; will close them out, \$6.00 per 100. Grafts all sold.

P. R. QUINLAN, Syracuse, N. Y.

10,000 American Arbor vitæ,

(THUYA OCCIDENTALIS.)

Each tree grown wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arbor vitæ will. They have been frequently transplanted and are supplied with an abundance of fine fibrous roots. Can be dug and shipped with ball if desired.

3-4 H. Size.....	Per 10.	Per 100.
4-5 H. Size.....	\$6.00	\$50.00
	7.50	60.00

Prices for dealers only Packing additional at cost. 25 or more at the rate per 100

Send to us for Ornamental Nursery Stock of all Kinds.

The WM. H. MOON CO., Morrisville, Pa.

LARGE TREES
OAKS AND MAPLES
 PINES AND HEMLOCKS
ANDORRA NURSERIES
 WM. WARNER HARPER, PROPRIETOR
 Chestnut Hill, Philadelphia, Pa.

Nursery Stock for Florists' Trade

Specialties for Fall
Peonies Evergreens
 W. & T. SMITH CO., Geneva, N. Y.

ARISTOLOCHIA SIPHO

Strong, \$25.00 per 100.

Double Flowering ALMOND, 3 to 4 ft., \$15.00 per 100. Oriental PLANE, 2 to 2 1/2 in., \$125.00 per 100. Send list of wants for prices. Ask for catalogue.

HIRAM T. JONES, Union County Nurseries Elizabeth, N. J.

F. & F. NURSERIES

Wholesale Growers TREES AND PLANTS in full assortment. Trade Catalogue Free

Grafted Richmond & Wellesley

On English Manetti; immediate delivery, \$10.00 per 100.

For Fall and Spring Shipment (All Our Own Growing)

CLEMATIS; AMPELOPSIS; ROSES, field-grown; HYDRANGEA, P. G., Standard and bush-form; PEONIES, IRIS, PHLOX, SHRUBS, VINES, SHADES, and CONIFERS. Price List ready August 15th. Send list of wants for low prices on large orders booked early. Use printed letter-head; we sell to the Trade only.

JACKSON & PERKINS CO., Newark, New York
 Nurserymen and Florists Wholesale Only

TREES, SHRUBS AND ROSES IN GREAT VARIETY

1000 VARIETIES OF

FIELD GROWN PERENNIALS

Estimates cheerfully given. Catalogue free.

NEW ENGLAND NURSERIES, Inc., BEDFORD, MASS.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

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

Just Received From Our Holland Nurseries

Rhododendrons, Azaleas, Spiraea Japonica, Liliium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in Sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Specimen Nursery Stock

DECIDUOUS TREES AND SHRUBS, EVER-GREENS, RHODODENDRONS, AZALEAS, over one hundred (100) acres of the choicest varieties.

Send for price list.

COTTAGE GARDENS COMPANY
 QUEENS LONG ISLAND, N. Y.

STORRS & HARRISON CO.

NURSEYMEN, FLORISTS and SEEDSMEN

SEND FOR CATALOGUE

PAINESVILLE, OHIO

10,000 Berberis Thunbergii 18 to 24, in., \$50.00 per 1000.

15,000 Berberis Thunbergii, 15 to 18 in., \$40.00 per 1000.

All are 2 year old transplanted, fine, bushy stock. 2,000 Myrtle, nice plants, \$45.00 per 1000. 8,000 choice Dahlia roots for sale, cheap.

OAK HILL NURSERIES, Roslindale, Mass.

EBBINGE & VAN GROOS

Formerly THE HORTICULTURAL CO.

BOSKOOP, HOLLAND

Hardy Nursery Stock, such as H. P. Roses, Rhododendrons, Azaleas, Clematis, Buxus, Choice Evergreens, Peonias, etc.

Ask for Catalogue.

Holland Nursery Stock

Ask For our Catalogue.

It will interest you

ENDTZ, VAN NES & CO., Boskoop, Holland

KOSTER & CO.

Hollandia Boskoop, Holland
 Nurseries
 Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies
 Pot Crown Plants for Forcing
 RHODODENDRONS, H. P. ROSES, Etc.
 Catalogue free on demand

Trees and Shrubs

Immense quantities, low prices. Price list on application. Peonies a specialty.

PETERSON NURSERY
 108 LA SALLE ST. CHICAGO, ILL.

Begonia Gloire De Lorraine

Buy from the Grower. Delivery after August 1st.

ROOTED CUTTINGS—2 1/4-in pot: \$12.00 per 100; \$100.00 per 1000.

Send orders in now and avoid disappointment.

JULIUS ROEHR'S COMPANY
 Exotic Nurseries, Rutherford, N. J.

PEONIES

FOR EARLY FALL PLANTING.
 Choice selection of named sorts.
 Young plants of three to five eyes.
 Apply for rates per thousand.

DELACHIE. Brilliant deep crimson. Very full and double, interspersed with yellow stamens. Late in flowering. \$2.00 per doz., \$12.00 per 100.
 LICATISSIMA. One of our favorites. Well formed, large flower, of delicate light rose. Medium height and earliness. \$3.00 per doz., \$20.00 per 100.
 ECLATANTE. Solid color of beautiful deep cherry rose. Large full bloom, supported by a tall strong stem. An early variety. \$1.00 per doz., \$12.00 per 100.
 FESTIVA. Pure wax white with carmine spots at center, large and medium late. One of the best whites. \$2.50 per doz., \$15.00 per 100.
 FLORAL TREASURE. Clear light pink. Strong habit and free bloomer. A fine variety for cutting. \$4.50 per doz., \$30.00 per 100.
 FESTIVA MAXIMA. One of the choicest peonies grown. Clear white with carmine spots at center. Immense flower on a very strong stem. \$5.00 per doz., \$35.00 per 100.
 GLOBOSA. Clear bright rose, with a full salmon colored center. Strong habit and free bloomer. \$1.50 per doz., \$10.00 per 100.
 GOLDEN HARVEST. Outer or guard petals bluish white, center yellow and white tipped with crimson. \$4.50 per doz., \$30.00 per 100.
 GRANDIFLORA RUBRA. Very deep red in color. Very large bloom, equalling Festiva Maxima in size. \$3.00 per doz., \$20.00 per 100.
 HUMEI. Brilliant solid pink. Very large size and one of the latest to bloom. \$1.50 per doz., \$10.00 per 100.
 LA REINE. Full well-formed bloom of a delicate ivory white. Dwarf habit and medium late. \$2.50 per doz., \$15.00 per 100.
 LA TULIPE. Blush white with outer petals flaked carmine, making a tulip effect. \$4.00 per doz., \$25.00 per 100.

LA ESPERANCE. Vivid deep rose. Full rounded fragrant flower, and early bloomer. \$2.00 per doz., \$20.00 per 100.
 MARIE LE MOINE. Blush white, changing to white when open. Early. Fragrant, and a free bloomer. \$3.00 per doz., \$20.00 per 100.
 MARECHAL VALLIANT. Fine deep rose or red. Very double, and a late bloomer. \$3.00 per doz., \$20.00 per 100.
 NE PLUS ULTRA. Large well rounded flower of clear peach tinted rose. Strong habit and free bloomer. \$2.00 per doz., \$12.00 per 100.
 OFFICINALIS RUBRA. Commonly known as Early Red. Bright crimson. A week earlier than the other varieties. \$1.50 per doz., \$8.00 per 100.
 PLENISSIMA ROSEA. Solid brilliant rose. A very large bloom, with a very tall strong stem. One of the earliest and best. \$2.50 per doz., \$15.00 per 100.
 QUEEN VICTORIA. Blush white guard petals, and creamy white center. A full large bloom. Medium early and a good keeper. \$2.00 per doz., \$12.00 per 100.
 ROSAMOND. Magnificent large bloom of bright rose. Full round form. Strong habit of medium height. Among the latest to open. \$2.50 per doz., \$15.00 per 100.
 ROSEA VARIEGATA. Soft rose with buff and carmine tint. Very large and full petaled, and strong habit of medium height. \$2.50 per doz., \$15.00 per 100.
 RUBRA TRIUMPHANS. Large rich bloom of brilliant crimson. A choice medium early variety. \$2.00 per doz., \$12.00 per 100.
 SYDONIA. Solid shade of pale rose. Tall and graceful. \$2.00 per doz., \$12.00 per 100.
 VESPER. An early, delicate bloom, with bluish guard petals, and cream yellow center. \$1.50 per doz., \$8.00 per 100.

PHONE 312 JAMES KING NURSERY, Elmhurst, Ill.

Marketing Nursery Stock.

Read by Charles E. Greening, Monroe, Mich., before the American Association of Nurserymen at the Detroit Meeting.

The successful marketing of nursery stock is a problem of much concern to all nurserymen. Conditions are constantly changing, new obstacles in the sale of nursery stock are continually arising. The demand for nursery products depends largely upon the results of the orchards and the general prosperity of the country. The difficulty experienced in keeping over surplus stock on account of no sale, has proven the ruin of many a nurseryman. A manufactured article may be stored away for years during a dull market; nursery stock, however, must either be sold when matured or burned. A loss occasioned in this way often eats up the profits on an entire crop of trees.

Wholesale Marketing.

This is dependent in a large degree upon the success of the retail nurseryman, and for the success of both they must work together, hand in hand. The practice of mailing wholesale prices to planters who have been in the habit of buying at retail has caused untold harm to the retail business of this country, and brought disaster and ruin to many a nurseryman. Ten-cent cherry, 6c. apple, 4c. peaches and other cheap stock advertised in agricultural papers and catalogues has done more to hurt the retail nursery business than any other thing. The farmers and large planters are being educated in buying nursery stock at wholesale prices to the great detriment of the retail business. The greatest enemies to the success of the retail business in this country are the

catalogues that are being mailed out promiscuously to farmers by nurserymen, some of whom have the nerve to pose as leaders in the nursery business, advertising that no agents are employed, that their products are sold at wholesale prices and the middle man's profit is thus saved to the purchaser. Such practices cannot fail to have a demoralizing effect on the retail nursery trade, and nurserymen should refrain from using this method of marketing their stock.

Retail Marketing.

When carefully conducted, and good reliable stock is furnished, the retail nursery business is by far the more profitable. To begin right, only reliable, honest and trustworthy agents should be employed. Local agents, selling on a commission plan, have proven the most desirable. Every order should be investigated and the agent should be given to understand that all poor orders will be thrown out. The retail prices should at all times be kept up as high as local conditions will permit. Establish a reputation for honesty and reliability. Never substitute without the consent of the purchaser. Dig, grade, store and pack so that your goods will please the customer. Refrain from digging nursery stock too early in the Fall, before trees have thoroughly ripened up. For Fall delivery, dig as late in October as conditions will permit, and make deliveries during the month of November wherever possible.

Commercial Violet Culture

Price, \$1.50

The Florists' Exchange, 2-8 Duane St. New York

PLANT CULTURE Price \$1.00

The best book for the Plant Grower.

A. T. DE. LA MARE PTG. & PUB. CO. LTD. 2 to 8 Duane St., NEW YORK

Prices Advertised in these Columns are for

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

J. W. Hill, Des Moines, Ia., president; C. M. Hobbs, Bridgeport, Ind., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

EVERGREEN SEEDLINGS.—Plants from 2 feet to 2½ feet high, propagated or raised from the seed of the Indian "deodar" (*Cedrus deodara*), which is a forest cedar native of the Himalayas, are not dutiable as "seedlings of ornamental evergreen trees," or as "nursery stock" at 25 per cent. ad valorem under paragraph 252, tariff act of 1897, but as "evergreen seedlings" at \$1 per thousand plants and 15 per cent. ad valorem, as provided for in the same paragraph, so ruled the United States General Appraisers, New York, on June 14, 1907, in the matter of protest of Howard & Smith against the assessment of duty by the collector of customs at the port of Los Angeles.

The following is the opinion of White, General Appraiser:

"The importation consists of 1,000 evergreen seedlings. The relevant provisions of paragraph 252 of the tariff act of 1897 are as follows: '(1) Evergreen seedlings, one dollar per thousand plants and fifteen per centum ad valorem; (2) stock, cuttings and seedlings of all fruit and ornamental tree deciduous and evergreen, shrubs and vines, manetti, multiflora, and brier rose, and all trees, shrubs, plants and vines, commonly known as greenhouse stock, not especially provided for in this Act, twenty-five per centum ad valorem.'

"The testimony shows that the plants in question are propagated or raised from the seed of a forest cedar, native of the Himalayas, botanically known as *Cedrus deodara*, which is the Indian 'deodar.' Those in the importation are from 2 feet to 2½ feet high, and have been transplanted. This fact, however, does not remove them from the class of seedlings. G. A. 5305 (T. D. 24305.)

"In the opinion of the Board these plants are not 'seedlings of ornamental evergreen trees,' unless all varieties of pine and fir should be so classified. It is matter of common knowledge that the deodar is a forest tree, and while ornamental in the broad sense that applies to many other forest trees, probably is chiefly valuable for its timber. 'Deodar,' Standard Dictionary, and 'cedrus,' Paxton's Botanical Dictionary. Unless the earlier provisions for 'evergreen seedlings' in paragraph 252 covers such plants, we fail to see what application it can have. There is, moreover, doubt in our mind, in view of the comprehensive nature of the last provision in paragraph 252 and the fact that it is qualified by the words 'not specially provided for,' whether the term 'seedlings' in said provision refers to the evergreen trees therein provided for, as it would have ample scope with reference to the various other trees, plants, etc., mentioned in such provision. G. A. 5654 (T. D. 25211); *United States v. American Express Company* (T. D. 28206).

"The Board has also considered whether the last clause of section 7 of the act might not be invoked. It provides: 'If two or more rates of duty shall be applicable to any imported article, it shall pay duty at the highest of such rates.'

"Under this provision the rate of 25 per cent. ad valorem assessed by the collector in this case would be higher than the duty of \$1 per thousand plants and 15 per cent. ad valorem, which the importers claim to be applicable inasmuch as the plants are valued at \$102 per thousand. It is evident that if this were made the test evergreen seedlings would be dutiable at the former or the latter rate according as they were valued at more or less than \$10 per thousand plants. Under the doctrine of *Loggie v. United States*, decided by the circuit court of appeals for the first circuit (137 Fed. Rep., 513; T. D. 26340), it would be improper to apply section 7 under such circumstances.

"We are of the opinion that the plants in question should be classified as evergreen seedlings under the first provision in paragraph 252, and sustain the protest and reverse the collector's decision."

Seasonable Topics.

The golden-leaved privet is a beautiful shrub, but one that needs watching all the time to cut away its green shoots, which it is persistent in making. As it gets age, it appears to give up its wish to return to its green form, making less effort to produce such shoots.

Æsculus Lyoni of nurseries has rather insignificant flowers, they being small and of a pale pink color. They would indicate an alliance with the buckeye rather than with the true horse chestnut. Its leaves are of a shining green, giving a pleasing appearance to the tree.

European customers, who send here for the blue Douglas spruce mean the Colorado or New Mexican

one, it having a glaucous color lacking in the one from the Pacific Coast. Both are rapid growers, the Pacific one perhaps the faster; but it should be remembered that for planting in the Northern States the Pacific Coast one is not hardy.

The yulan, *Magnolia conspicua*, is used in Europe for forcing for indoor purposes in Spring. It requires a year or two's judicious pruning. Let grow at will, it makes but few shoots. Pruning makes it bushy, besides that the cutting back of the branches promotes a flowering tendency.

George Peabody Arbor Vita.

The variety of the American Arbor vita known as the George Peabody, and by others as *Thuja occidentalis nurea*, is one of the handsomest of its class. Its young growth is of a rich golden yellow color. It is golden at all times, but particularly so when it is growing in Spring and early Summer. Set out singly on a lawn it is particularly beautiful just as its growth is well developed, its golden edged shoots being better displayed there than in any other position.

There are other golden tinted varieties of this, the commoner Arbor vita, but none as good as this one. All golden edged evergreens are most valuable for planting. Their beauty lasts the whole season, but it is at its best when the new growth is perfecting itself. When

Tamarisk Bushes.

As tamarisk bushes are usually seen they are not shapely. When let grow at will their desire is to make long shoots, devoid of branches, and in this condition they are not at all handsome. But occasionally a bush is seen on a lawn which gives pleasure because of its bushy habit. This bushiness has been brought about by pruning; and it was the sight of such a pretty bush a few days ago that led to these notes. The bush referred to was of the *Tamarix africana*, one of the Spring flowering sorts. It had had the pruning knife used on it frequently, resulting in a well shaped bush, and being very full of its light pink colored flowers it was of a most ornamental character.

All the several species of tamarisks may be grown as small trees if desired, by cutting away all but one strong shoot; and in this shape, or as bushes, they are handsome when in flower. Their shoots are wand-like in growth, and all along their lengths are numerous light pink flowers.

T. africana and *T. gallica* flower in May; *japonica plumosa*, *odessana* and *indica* in September.

Avenue of Acalypha Musaica.

Our hot Summers make it possible to use foliage plants for bedding purposes to great advantage. The bright hot sun, with the heat, suits many plants which could



Avenue of Acalypha Musaica

grown in pots these evergreens are useful for lawn decorations and for placing in positions about a dwelling; but whether planted or in pots do not make the mistake of setting them in a shady place, for there is then a lack of the golden color which is their great charm.

Rhododendron Hybrids.

Rhododendron catawbiense flowers in early June, together with the many other kinds in cultivation. To *catawbiense* we owe the many beautiful hardy hybrids in cultivation, for all the hardiest ones partake largely of the *catawbiense* parentage for hardiness, owing their pretty colors to the tender species of the Old World. Many of our prominent sorts are not very different from *catawbiense* in color, but we overlook this because of their ability to withstand our hardest Winters. But there are many kinds of lovely colors—colors due to the Old World types—which are quite as hardy as our native sorts.

Whether native or not it is natural for rhododendrons to have shelter. They grow in masses, one protecting the other; in addition to this, they are often half shaded by forest-trees, and these conditions should be afforded them in cultivation, when there would be far less heard of their being injured in Winter.

Our native one, *R. maximum*, does not appear to have influenced many of its seedlings in the lateness of flowering, precluding it has been so used. It blooms almost a month later than *catawbiense*, yet there are no hybrids visible owing to a such a late flowering character, though some are later than others.

not be so used were the climate less favorable. An evidence of the well doing of such plants is before us in the display of the avenue of *Acalypha musaica*. When the photograph was taken the plants were in great perfection. It was at the close of a Summer which had seen an abundance of moisture and heat, and the cool nights of Autumn had not yet reached us.

The grass walk, or avenue, is much more extensive than shown in the illustration, but the lower part of it is beautiful with scarlet sage planted in much the same way as the *acalypas* are, the whole avenue presenting a pleasing picture.

As with the crotons and other exotic plants, now so much used for bedding, the weather must be warm and settled before the plants are set out; and when they are to be planted see to it that the situation is one open to the sun on all sides, for if shaded the bright colors will not be as perfect as when in the full sun.

Although the planting out of the *acalypa* and similar foliage plants cannot be done as early in the season as in the case of ordinary bedding plants, they can be left in the beds until frost threatens. The soil is warm, and in the case of the *acalypa* it is easily raised from cuttings in early Spring.

The pyramidal evergreens seen at the head of the avenue are box bushes. Those of this shape are much used now, and for positions similar to the one these occupy, there are but few evergreens as good for the purpose; they are hardy, grow slowly, submit to pruning well and when in good deep soil always look fresh and green.

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Where young stock is to be planted for the coming season, the work should be done within the next few weeks if the plants are to make much of a growth before the short days of Autumn. Nearly every place goes about the work of replanting in its own manner, but it has been my experience that where wheelbarrows can be used they are the best, though some growers still use handbarrows, boxes or baskets.

After removing the old soil do not let the house remain idle; get it cleaned, the benches whitewashed and refilled as soon as possible, for the less benches are allowed to dry out the longer they will last. What a blessing it will be when our houses are all benched with the new cement benches; they are no heavier than the wooden ones, well reinforced, and if properly made will last a lifetime; then farewell to the nasty job of repairing and carrying out rotten lumber or, worse still, blocking up in the Winter time, and crawling over the heating pipes. These cement benches are almost as cheap as good cypress ones would be, and no doubt in a very few years will be used exclusively.

In washing out the benches after the old soil is removed, make sure the job is done right; leave no old soil in the corners or in the drainage cracks. While still wet give the boards a good coating of thick whitewash, applied hot, then spread a little hay in the benches before the soil is brought in. Needless to say the soil should be well pulverized that is, so it can be well leveled. Do not try to do this work with one or two men; there is nothing so discouraging as for a few men to try and fill a house of any size, especially on a hot day. Put on as large a force as possible; it is cheaper in the end. Firm the edges of the bench well, and have from five to six inches of soil in the bed.

The plants should be set about 15 inches apart in the row, and the rows about 10 inches apart, except in the case of American Beauty, which should have at least 17 or 18 inches in the row. In planting, firm the soil well around the ball, then give the whole bed a thorough soaking to settle the soil, after which the plants must be watered very carefully, watering only the ball of the plant.

But it must be borne in mind that dry plants must never be planted, for no matter how much water they get, after benching it is almost impossible to wet the ball through, and thus the plants receive a very severe check.

Young and old plants have their champions, but with us the young plants on the average produce the most money, and that is what we are after. Of course, we have had old stock that did remarkably well, but on the average, a grower will be safer with young stock. Do not plant any poor plants; better buy nice clean stock from reliable quarters at a fair price and make a good start.

There are various methods employed to carry over old stock. The drying off process seems to be gaining in favor. This means that the plants are dried off for five or six weeks, trimmed out, usually bent, and some new soil added, then slowly started into growth again. When properly understood this is no doubt a good plan to follow, but for a beginner it would be much better to merely get his plants on the dry side, then trim out nearly all blind wood, remove the surface soil without disturbing the roots or barking the plants, add about two inches of rich compost, give one good watering, after which syringe often, without giving much water at the roots, until they begin growth in new soil. The greatest danger lies in too much water at this time, and if the supply is properly governed the plants will do very nicely. The foregoing treatment applies, of course, to tea roses only. With American Beauty, Richmond, Killarney, etc., another method should be pursued. Old plants of the latter varieties do better than young ones, as a rule, though Beauty produces more in Winter from young plants.

Allow the benches of those roses that you wish to run over to get dry, then prune back to about six inches of the soil; remove about half of the old soil, and fill up the bench with rich compost allowing only about one or two inches of the trimmed shoots to appear above

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the soil. Then give the hench a good soaking after which give no water until the soil gets dry, all the way through. For the first four or five weeks hardly any water is required, but as the plants begin to grow, more liberal treatment should be accorded them. Treated thus, a lot of fine bottom canes will come which make an excellent foundation for the Winter's cutting. PENN.

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St. Louis, Mo.

575 New Notes.
A. Nusbaumer of San Angelo, Tex., was a visitor last week. He will spend a week at his old home at Oakville, Ill., before returning home.
A. Hastings, selling flower pots for A. H. Hews & Company of North Cambridge, Mass., also called on the trade and attended the club meeting on Thursday afternoon.
Professor H. C. Irish reports that the Engleman Botanical Club will discontinue its monthly meetings during the months of July, August and September; after this the meetings will resume on the second Monday night of each month in the rooms of the Central High School. Owing to the backward season the club will not hold a Spring flower show this year.
J. F. Ammann reported at the club meeting that the big hail storm at Edwardsville the past week did but little damage to his place. Mr. Ammann is fully covered by hail insurance, but the damage being so light, he will make no claim.
Mrs. Wordy, formerly Miss Allie Ellison, and her husband Harry, who are connected with the Ellison Floral Company, left for a trip to Grand Rapids, Mich., for the health of Mrs. Wordy.

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George Waldhart, son of Alex. Waldhart, left the city last week for his health.
Gustave Eggeling of the Eggeling Floral Company had a great time in Chicago a week ago; he was arranging for the stock for several big weddings he had on hand.
It has been reported that the Board of Education will run a nursery and erect greenhouses on a site owned by the board. It is the intention to grow trees and shrubs, which would be beneficial to the scholars in their study of botany. In this way the board could grow all its own plants used each year at the different schools. Wm. B. Ittner, commissioner of school buildings, has the matter in charge.
Pierre Schneider and W. J. Pilcher of Kirkwood say they were too busy with their new houses to attend the club meeting last Thursday, but will not miss the July meeting.
Frank A. Weber, one of our leading nurserymen, has been spending a few days at Detroit, attending the annual meeting of the American Association of Nurserymen. He reported that Phil. Braitmeyer was extra busy entertaining the members.
Fred. Foster, John Burke, Alex. Sigel and the Riessen Floral Company had a very busy week in all kinds of work, and transient trade is still good. Fred. Foster reports that his new location will be better than the old one when the new large department store at Tenth and Olive street opens in the Fall. J. J. Beneke, Miss Badaracco and C. Young & Sons Company also enjoyed a busy week.

Indianapolis.

News Items.
July first marks the opening of vacation time for the florist. Numerous preparations under way form the most interesting topic in the flower shops.
Mr. and Mrs. Robert Ellis visited relatives at Anderson last week.
J. A. E. Haugh, of Anderson, bought quantities of bedding stock with which to close a heavy season. Mr. Haugh states that his firm intends doing extensive remodeling this season.
J. Brown, florist for Thomas Taggart at French Lick, has resigned his position; there remains a good opening for a capable man.
Mr. Burckhardt, of Nashville, Tenn., passed through this city en route to Logansport. He has purchased greenhouses there.
W. Graham, of Terre Haute, visited the growers here; he says trade is excellent.
Chrysanthemums are nearly all housed in this section; the young plants were in prime condition.
The bedding season is rapidly drawing to a close. Although handicapped by the weather, it has been a profitable one for the growers and but a small part of the stock remains to be sold.
Charles Vollrath has completed his residence in North Gray street. He and a new partner are to take possession next month.
A. Weigand & Sons are installing a new heating system.
Henry Duderstadt is on the sick list.
Visitors: Herbert Heller, New Castle; W. W. Coles, Kokomo; E. Schapke, New York. I. B.

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Rhododendron Hybrids, 6-10 buds, 12-16 in. 15.00
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Box Trees, standards, 20-22 in. across, \$2.00 a pair.
Pyramids 55 in. \$3 a pr. Price List on Application.
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ARAUCARIA Excelsa, 5 in. pots, 10-12 in. high, 3 tiers, 2 years old, 50c each; larger sizes, 5-5½ and 6 in. pots, 2-2½ years old, 60c-70c-\$1.00 to \$1.25 each.
ARAUCARIA Compacta Robusta, 6 in. pots, 2-3½ years old, 10-12-15 to 18 inches high, 3 to 4 tiers, \$1.00-\$1.25-\$1.50-\$1.75 to \$2.00 each.
ARAUCARIA Glauca, 3-4-5 tiers, 2-3-4 years old, 10-12-15-18 to 20 in. high, 6 in. pots, \$1.00-\$1.25-\$1.50-\$1.75 to \$2.00 each. Specimen plants, Compacta Robusta, of last year, Spring, 1906 importation, 5 years old, 30 in. high, 7 in. pots, (something fine), 5 tiers (perfect), \$2.50 to \$3.00 each.

SPECIMEN Glauca, 5 perfect tiers, 36, to 40 in. high, 7-8 in. pots as broad as long, \$4.00 each (worth \$10.00).

KENTIA Forsteriana and **Belmoriana**, European stock, 6 in. pots, 25 to 30 in. high, five leaves, \$1.00 to \$1.25 each; 4 in. pots, 18 to 20 in. high, 35c each.

COCOS Weddeliana, 3 in. pots, 10-12-15 in. high, 15c-18c, to 20c each.

ARBEA Lutescens, a pot, 20c. per pot, three plants in a pot, 20c. per pot.

FERNS, Boston, 3 in., 15c.

FERNS, Whitmani 4 in., 25c.

FERNS, Elegantiissima, large, 4 in. pots, ready for 6-7 in., 20c.

BEGONIA, Gloire de Lorraine, 3 in., propagated from leaf cuttings, in bloom, 25c.

JERUSALEM CHERRIES or **SOLANUM**, large berried variety, 2½ in. pots, \$5.00 per 100.

SURPLUS STOCK OF BEDDING PLANTS:

GERANIUMS, best mixture, 4 in., 6c.
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AGERATUM, blue, 4 in., full of flowers, 7c.
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Plants out of 2½ in. pots, \$3.00 per 100, as follows:
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Killarney, \$2.00 per doz., \$15.00 per 100.
Etoile De France, 3 in. pots, \$3.00 per doz., \$18.00 per 100.
Kaiserin, Carnot, \$2.00 per doz., \$15.00 per 100.
Bride, **Golden Gate**, **Wootton**, 2½ in. pots, \$2.00 per doz., \$12.00 per 100.

ROSES OWN ROOTS

Richmond, \$6.00 per 100; \$50.00 per 1000.
Perle, **Sunset**, \$5.00 per 100
Bride, **Bridesmaid**, **Golden Gate**, \$4.00 per 100; \$38.00 per 1000.

ASPARAGUS

PLUMOSUS NANUS, 2½ in. pots... \$4.00
" " " 3 in. pots... 3.00
" " " 4 in. pots... 10.00
SERENGERI, 2½ in. pots... 3.00
" " " 3 in. pots... 8.00
" " " 4 in. pots... 8.00

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From 2½ in. pots. Flae stock.
Lady Cranston, F. S. Vallis, Nerstham, red; Nerstham, yellow; Mrs. Wm. Duckham, 75c. per doz.; \$5.00 per 100.
A. J. Balfour, Mrs. G. W. Childs, Alicia Byron, Yellow Eaton, 60c. per doz.; \$4.00 per 100.
Dr. Engushard, Geo. S. Kalb, Meta, Mrs. Coombs, Nagoya, Opah, Robert Halliday, Wm. Duckham, 60c. per doz.; \$4.00 per 100; \$30.00 per 1000.
Autumn Glory, Ada Spaulding, Creme, Cullingford, Dorothy Deveson, Harry May, E. W. Riemann, J. E. Leger, J. H. Troy, Mrs. J. Jones, Mrs. Baer, Major Bonaffon, Niveus, Timothy Eaton, W. H. Lincoln, 50c. per doz.; \$3.00 per 100.

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THE WEEK'S WORK.

Timme's Timely Teachings.

Mid-Winter Tribulations.

In all our cultures carried on under glass and in artificially heated structures during the Winter, we must constantly be on guard against the assault of enemies, who take advantage of conditions favoring their onset and spread, and often entirely beyond our control. But throughout these months the watchful grower's efforts in averting and overcoming troubles of this kind, more often end in complete victory than hopeless defeat. He then has at his command well-tried remedies which, when employed in glass enclosed plant houses, hardly ever fail in showing telling effects. As such may be named in the first place clear water, than which there is nothing better for thrips and red spider. If applied with some force the well-directed stream will dislodge mealy bugs and kill the male portion of all sorts of scale and most other kinds of tenacious insects. If heated to very near the boiling point, water becomes a never-failing remedy for nearly all sorts of pests on semi-dormant hard-leaved plants, or any insect life infesting woodwork or soils. Then the grower in combating mites and aphides has his Whale Oil soap, his Fir Tree oil and any number of tobacco or nicotine preparations; he has Paris green and other arsenical poisons for rats, mice, centipedes, ants and woodlice, emulsions of various kinds and soap and brush for scale and snails and, finally, the deadly hydrocyanic gas for mite and whitefly, and all other living nuisances hard to combat in any other way.

None of these remedies is difficult to obtain, and the mode of applying them to best advantage is now so well understood by anyone in some way connected with the work in greenhouses, that there really is scant excuse for having any of these pernicious intruders about during the Winter; in fact, their presence is evidence of there being something decidedly faulty, either in the equipment or management of the place, or in the treatment of the stock.

The Summer Campaign.

During Summer, we are less likely in our labors with outdoor crops and field cultures to come out victorious in a strife offering little in the way of advantages on our side. Every one thing then growing in the open, seems to be chosen vantage ground or favorite food for some particular foe from the great army of living things that creep, glide, fly or crawl wherever anything especially nice or valuable has been planted. Not even the grass in pasture and lawn escapes unscathed. It is preyed upon by bugs, grubs and grasshoppers, and often ruined by the upheavals of ants or moles. The setting of traps, the use of a roller after every cut, and frequent sprinkling do much toward saving a lawn from ruin or disfigurement.

It becomes barely possible despite the most watchful care to prevent serious harm being done to cultivated crops in the open during the hot season. There are so many kinds of creatures, hostile to unhampered plant life, and these so varied in their characteristics as plunderers and destroyers, that, in many instances, their presence is only revealed by the damage they have been permitted to do. Thus we are kept worrying and fighting from early in the Spring until late in the Fall.

The Cut Worm.

Almost the first offender, the one that has a special penchant for newly set out plants, is the cut worm. There are several kinds of so-called cut worms, but the one most to be dreaded is a small, dust-gray affair, always curled up when caught and barely three-quarters of an inch long when straightened out. When over-abundantly present, plants are cut off nightly in untold numbers, and any sort of gardening on such a piece of ground becomes a hopeless proposition. Heavy manuring and deep and frequent cultivation of the land and untended use of

lime, scattered about the newly set out plants, will be found more effective in overcoming the trouble than handhunting at night or in the early hours before day-break. I have succeeded in entirely clearing a plot of ground of this most formidable of plant destroyers by these means, doing the plowing both in late Fall and again just before planting, using large quantities of air-slacked lime both times, and once more later on after the plants were set out. The trouble with cut worms comes usually to an end by the first week in July, the worms then being engaged otherwise.

Ants.

The common black ant, if allowed to have its own way, becomes an intolerable nuisance everywhere about the grounds of a well-regulated place. It kills large patches of plants by forming colonies in and near their rooting space, undermining the ground and laying bare every fiber. The trouble with ants is greatest in, and along strips of ground dividing the cultivated part of a garden from that forming grass land or lawn, or such that is continually robbed of moisture by the roots of nearby trees or shrubs. Where strips of this description were thought to be the proper place for a few rows or groups of peonies, as may be seen on many places, there the task of ridding the premises of ants will be a hard one. Ants just love to establish their runs and haunts near and among peonies, thus doing much damage to the plants. They overrun the bushes in countless numbers, attracted by the sweet secretions from swelling buds and opening flowers. Led by similar promptings in their search for sweet morsels, we find ants wherever aphides abound on plants in the open. Instead of being the green-fly's natural foe, as supposed by superficial observers, the ant is its closest friend, the relation between the two being not unlike that existing between the herder and his milch cows.

Ants cannot live in comfort, in fact, cannot exist at all where the ground is constantly kept saturated with moisture. Frequent soakings from the hose, therefore, or, better still, from the liquid fertilizer tank, will drive them away, if this alone is the object in view. Ant-exterminator, slug shot, Persian insect powder and poisoned sweets will kill them.

Thrips, Aphis, Red Spider, Etc.

The varying kinds of aphides in some seasons are apt to become as troublesome in garden and field as they are known to be in greenhouses. All kinds of this particular pest are great feeders and great breeders. Untoward conditions, of whatever nature, having an enfeebling effect on outdoor vegetation or causing check in smartly progressing growth, favor prompt appearance and rapid spread of aphis and red spider, and even thrips and white fly.

In trying as far as possible to keep up the vigor of the plants, and in having recourse to the usual remedies, but placing more faith in the use of lemon oil, soap and emulsions of like character than in powdered or liquid tobacco preparations for outdoor use, it becomes possible to save valuable stock from being damaged by these pests to a degree sometimes amounting to lasting disfigurement or utter ruin. Very often nothing more than a radical change in prevailing weather conditions is needed to bring all troubles from this source to a speedy and much-desired close—a few days of good rain, for instance, after a prolonged dry spell. Red spider is held in check, though seldom completely routed in the open, by frequent sprinkling.

Bugs, Beetles and Caterpillars.

All Summer long there is no end of annoyance and vexation from the tribes of warm-season insects that never fail to arrive in due time. They come in squads and squadrons, an invading army of voracious foragers, sure to look for the choicest of morsels among the most valuable of stock the gardener is trying to raise.

Among the first to arrive is the May beetle, destructive to trees and shrubs, and intent on providing future trouble by calling into existence a brood of ugly grubs. Another early caller is the June bug. Not so clumsily awkward as the former, quite slender in body, attired in black with red trimmings, daintily inclined in the choice of its food, and frisk-

VARIEGATED FUNKIAS

out of 3 in pots, \$5.00 per 100

K. E. JUUL, Elizabeth, N. J.

THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

American Seed Trade Association

Twenty-fifth Anniversary Meeting
at New York Largely Attended

George S. Green, chosen President for 1908

The twenty-fifth annual meeting of the American Seed Trade Association opened in the small ballroom of the Hotel Astor, Times Square, New York, at 10.30 a. m., Tuesday, June 25, with a very large attendance. President Henry W. Wood of Richmond, Va., occupied the chair, and introduced the Hon. Patrick McGowan, president of the Board of Aldermen of the City of New York, who welcomed the seedsmen to the metropolis, at the same time explaining that their convention was one of the most important he had ever had the pleasure to welcome to New York. So much depending upon the work which the seedsmen were doing for the wealth, for the health and for the prosperity of the country, their coming together could not but be beneficial to the entire United States. He referred to the fact of the present year being the twenty-fifth anniversary of the organization, and hoped that the occasion would mark the opening of new ideas that would prove a welcome gift to all the people of America. (Applause.)

The Hon. Chas. P. Braslan of California responded. He referred to the fact that the American Seed Trade Association was organized in New York City, 25 years ago and it was from this point that it had its first chief support. Since then the organization had progressed from year to year, and without egotism could claim to have done as much for the good of humanity as any other line of industry. "We are giving you better food to eat, we are giving you better things to wear," said Mr. Braslan, and he closed his response with the wish that the Seed Trade Association could hold its convention yearly in the greatest city in the world—New York. He thanked President McGowan for his hearty welcome.

President's Address.

President Wood then read his address, prefacing same by complimenting the members on the very large attendance, and expressing the hope that during the next 25 years the organization would grow in corresponding ratio to what it had done in the past quarter century. He then read as follows:

I wish to congratulate the seed trade upon the generally prosperous condition which seems to prevail all over this country. I do not believe that the seed trade



President H. W. Wood.

has ever experienced a more prosperous season than the one we have just gone through. I see nothing in the future to mar the outlook for a continuance of that prosperity. Our truckers, farmers and other producers are getting good prices for their products; the population of this country is increasing rapidly, and the present indications are that we are bound to have an increased demand for all products for several years to come. The continued high prices on some lines of seeds have no doubt surprised dealers in these particular lines. This applies particularly in field seeds to clover seed, alfalfa, cowpeas, soja beans and other similar forage crops. The high prices, while primarily due to short crops, cannot be altogether attributed to this, but are quite largely due to the increased demand which exists all over the country for these seeds.

The superiority of nearly all varieties of American-grown seeds is coming to be more generally recognized than ever before. American-grown grass and clover seeds of high qualities always command a premium over seeds grown elsewhere, and the fact that European growers who grow vegetable seeds in large quantities secure American-grown seeds for their seed stocks proves conclusively the superior quality of seeds produced in this country.

Tariff Matters.

In view of the fact that the question of the revision of the tariff is likely to be a very live issue in American politics in the near future, I would suggest that the Committee on Customs and Tariff give this question their most serious consideration, so that, in case the question is brought up in Congress, they can be prepared to make intelligent recommendations as to what seeds should be free and what seeds should be dutiable, for the guidance of Congress in any revision of the tariff that may be proposed. Seeds that can be procured to advantage in this country, whether garden or farm seeds, should receive some measure of protection against the cheap European labor used in the production of seeds on the Continent, and seeds which cannot be grown to advantage in this country should come in duty free, so as to avoid, as far as possible, putting an unnecessary tax upon the seedsmen, farmers and gardeners here. Efforts should also be made, in case the question does come up, to have specific duties of so much per pound or per 100 pounds put on, instead of the ad valorem duties, as under the present laws, which, owing to differences in valuations, have caused so much trouble to the seedsmen.

Prices Should Be Advanced.

I am not by any means an advocate of cheap seeds. I am always an advocate of seeds of superior quality and anything that we can do to increase and encourage the production and dissemination of superior quality seeds should receive the most careful consideration of the seed trade. I think it is a well-recognized fact, that the prices at which a great many vegetable seeds are sold at the present time are too low, and that there should be material advances in a great many lines, in order to avoid the deterioration in quality, which is bound to result from low prices and too much competition from the producer's standpoint. The aim of every one engaged in the seed trade should be for improvement in quality of product. The price of seeds cuts a very small figure when you consider the crops produced therefrom, and that farmers and gardeners are willing to pay good prices for first-class seeds is unquestioned.

Improvement of Stocks.

Another point that cannot be too strongly impressed upon seedsmen—particularly those handling vegetable and flower seeds—is the improvement of stocks, and the attention that should be paid to the production of superior and high-grade stock seeds from which their main crops are to be grown. This is a most important matter, and seedsmen should always be willing to pay well for the production of high-grade stock seeds. The true sphere of the seedsmen's trial and seed farms should be in the producing of superior stock seeds to furnish growers, from which to grow the main supplies of seeds handled by the seedsmen.

Selling According to Germination and Purity.

Another matter which should receive the most earnest attention of the dealers in field seeds, is in regard to a system of selling seeds according to percentages of germination and purity. A great many of the wholesale dealers in field seeds, grass, clovers, millets, etc., at the present time do not make any particular analysis for impurities or adulteration, nor test for germinating the seeds which they sell, but buy and sell simply on a commercial basis from the appearance of the quality of the seeds only. I am a firm believer in the fact that the weight ought to have as little legislation for the regulation of the seed business as is consistent with the protection of the interests of both the seedsmen and the farmers and gardeners. The loss of legislation we have, the better, and the best way to avoid legislation is for the seedsmen to do business on sound business principles; and the selling of grass, clover and field seeds on a basis of the actual percentage of germination and purity is a step forward which would be of great benefit to the seed trade all over this country.

Seed Legislation.

There have been several bills introduced in the various Legislatures during the past year, for the regulation of the seed business.—Particularly stringent bills were introduced in Iowa and North Dakota, and there was also a bill introduced in the National Congress at Washington, which would have worked a serious hardship on the seed trade if it had been passed in the shape proposed. In view of this agitation, I would recommend that the Committee on Seed Legislation take under consideration very seriously the question of whether it is desirable or not to draft some bill covering the question of the sales of seed, which could be submitted as a satisfactory bill in case any legislation of this kind is taken up in the future, either by the State Legislature or by the Congress of the United States.

The most vexed question that the association had to deal with at the Toledo convention was the question of the system or method used by the United States Department of Agriculture in making reports on merchants who were found selling seeds which the Department claimed contained adulterants in the report, in a great many instances, doing manifest injustice to reputable seedsmen. Immediately upon my return from that convention, and before making the appointments of the different committees, I addressed a letter to Professor Pieters, who was then in charge of that matter, protesting against any further reports being made under the prevailing methods used by the Department of Agriculture. I also suggested at that time a meeting between representative seedsmen and the Department officials, in order to arrive at some satisfactory conclusions

in regard to the matter. I am glad to say that the effect of my letter was to bring about a conference of the special committee on Seed Adulteration, members of the executive committee and other representative seedsmen, with the Department officials, and further reports in regard to this matter were held up, pending that meeting. The results of the meeting were very satisfactory, the details of which you will have in a report from the chairman of the Adulteration Committee, Albert McCullough.

Seed Control.

I think it would be very desirable for the Committee on Experiment Stations to take up the question of having a Seed Control Station established at each of the State Experiment Stations throughout this country, where seeds could be tested both for the seedsmen and for the farmer. I am sure that any efforts on this line would meet with the hearty approval and support of the United States Department of Agriculture, and it would unquestionably be of great benefit to the seed trade throughout this country.

Weights and Measures.

I would also recommend that steps be taken by the Committee on Weights and Measures, to secure a uniform system of selling grass and clover seeds by the pound and hundred pounds, instead of by the bushel, as prevails in some of the leading markets of this country.

Postal Laws.

In regard to postal laws; the method of accepting and mailing catalogues in bulk, which was put in force last year, gives the seedsmen some relief where large numbers of catalogues are mailed. Further attempts should, however, be made to bring about a reduction of postage on printed matter, or at least on seed catalogues, to a rate of four cents per pound instead of eight cents per pound as at present; and if this matter is vigorously pressed before the present Congressional Committee on Revision of Postal Laws, I think it would meet with success.



Alex. Forbes, Essayist

Government Distribution of Seeds.

An important matter which was actively considered at the Toledo convention was the question of the Governmental appropriation for the purchase and distribution of common varieties of garden seeds. The campaign was most actively and energetically handled by the committee representing the seed trade at large, consisting of Messrs. Alexander Forbes, W. Atlee Burpee and William Henry Maule. I am sorry to say, however, that further than securing an amendment to the original act, the matter fell short of the success which we desired. Mr. Forbes, the chairman of the Seed Trade Committee, will give you some very interesting information in regard to this matter, in his address on "The Congressional Free Seed Distribution." Mr. C. F. Wood, chairman of the Seed Trade Association Committee, will also make a report as to the workings of his committee in assisting the general committee in the campaign.

I do not think it advisable to recommend that a fight be continued against the free seed distribution on the same lines as for the past two years; but that a special committee be appointed, who shall act as occasion may offer in opposition to an abuse that is detrimental to the interests of the seed trade and opposed to the policy of good government. This committee should also appear and make a proper representation of the matter before the House of Representatives Committee on Agriculture and the Senate Committee on Agriculture at the time at which they consider the bill for the usual appropriation for next year.

Transportation Matters.

In regard to transportation matters; active steps should be taken to secure better classification of existing freight rates upon various seeds. I am convinced that the existing classifications of certain seeds are entirely too high, and that if proper representations are made in regard thereto, it will result in certain seeds being placed in lower classification, thus enabling dealers to ship at lower freight rates. The question of delays in freights is also a very serious one to seedsmen, especially when shipping to distant points, and I would recommend that this association join one of the national freight-

service associations for the securing of legislation to modify the abuses existing in this connection.

Work of Registration Bureau.

In regard to registration bureau work, a special committee for which was appointed to co-operate with the Department of Agriculture the past year: I was appointed chairman of that committee at the Toledo convention, but upon being elected to the presidency, requested Mr. W. Albee Burpee to act in that capacity. Owing to press of business, Mr. Burpee advised me that he would be unable to assume the duties of the position; but after correspondence with the Department of Agriculture, I found it was impracticable to do anything in regard to this work this year, so did not make any further move in this direction. The question is a very important one, and if the Department of Agriculture is likely or willing to take up the work outlined at the Toledo convention, a committee should be appointed from the Seed Trade Association to co-operate with them in that direction.

An Improved Telegraph Code Needed.

I would strongly recommend that a special committee be appointed to have charge of the revision and getting up of an improved telegraph and cable code for the use of the seed trade at large. The present code, gotten up in 1895, has proved to be of very great benefit to the trade, but it needs revision and enlarging, and I feel that the proceeds from the sale of the code will meet the cost of undertaking this work. Even should this not be the case, however, the Seed Trade Association could not make any better appropriation of a limited amount than to secure a revised and improved code.

Future of Seed Trade.

In conclusion, I would say that I am more than ever impressed with the future of the seed trade in this country and that the seed trade is practically only developed in a very small degree, compared to the importance it is likely to reach in the future. With the increase of population, the improved methods of farming and gardening, and the increased prosperity of our agriculturists as a whole, the demand for seeds is bound to increase to a very great extent in years to come, and the seedsman who develops or plans his business with a view to taking care of this growth and development will reap the benefit. I do not know of any business that

American Seed Trade Association." Mr. Willard gave the credit of the inauguration of the association to Ethan Allen Chase of Rochester, N. Y. Among those present at this first meeting were William Meggat, Wethersfield, Conn.; Peter Henderson and B. K. Bliss, New York; J. A. Bolgrano, Baltimore; E. B. Clark, Milford, and R. A. Robbins, Wethersfield, Conn., who was elected the first president. The initial meeting was held in the Gilsey House on June 14, 1883, 33 individuals or firms being represented. It was at that meeting that the disclaimer was first adopted and the best work done was, the speaker said, the making of acquaintances. The most enduring work, in Mr. Willard's opinion, which the organization has accomplished has been in making the seedsmen know each other, elevating confidence and strengthening cordial relations between the members. The tariff had been discussed at the third, eleventh and fifteenth conventions. On this subject there has always been a great difference of opinion, the majority of the members, however, favoring a moderate duty as protection to American seed growers. The government free seed distribution matter originated

code, the expense of such revision to be borne by the association, so as to enlarge the usefulness of the code, and, at the same time, to be a source of revenue to the organization. The discussion showed that the code was not in very general use, as it was not considered up-to-date. The matter was finally referred to the executive committee.

The suggestion to establish a seed laboratory at the experiment stations throughout the country, made by the president, was also discussed. Mr. Ehling was of the opinion that these seed laboratories were not of much value on account of the technicalities contained in their report and at times the errors made in analysis. He added that if the farmer would be true to the seedsman, the seedsman would be true to the farmer.

J. Horace McFarland, Harrisburg, Pa., delivered an interesting illustrated address on the "Twentieth Century Seed Catalogue." He went into the matter very thoroughly, taking up the subjects of illustrations, paper, printing, and so forth. He advised the seedsman to look into the matter of so-called "accessories" and to limit the number of pages in their catalogue only to those which they found profitable. For the smaller seedsman, a catalogue the size 7x10 was recommended and for the larger seedsman the size 8x10, which admitted of conforming to the stringent postal regulations without an undue waste of money for postage.

Mr. McFarland advised the seedsmen to have their own photographers, and, if colored work were desired, to make a note in the field of the colors of such subjects as were desired to form illustrations. He recommended that the seedsmen persist in an agitation for a pound rate on catalogues. Even if the rate was fixed at eight cents per pound it would be a great step in advance.

Wednesday Afternoon Session.

The afternoon session was called to order at 3.45 p. m., and Mr. Alex. Forbes, of the Peter Henderson Co., New York, read a carefully prepared paper on "The Congressional Seed Distribution" (which will be reported in a later edition), following which G. B. McVay, Birmingham, Ala., as a delegate for the Association at the meetings of the American Manufacturers' Association, made his report referring particularly to the re-



S. F. Willard, Essayist

first in the question box, when not many voices were raised against it; however, the discussion continued from time to time until the strong opposition materialized last year at Washington. The Association has been the means of bringing together all the seed selling firms in the United States and Canada.

In speaking of the essays and discussions read before the association, Mr. Willard paid a high tribute to those contributed by C. L. Allen of Floral Park, N. Y., and Dr. W. W. Tracy, now of Washington, D. C. In closing Mr. Willard recommended that the secretary be requested to prepare an index of the subjects contained in the twenty-five years' reports, for publication and distribution among the members. This, on motion of Mr. McVay, was duly carried.

The secretary then read F. W. Bruggerhof's paper on "Reminiscences of the Seed Trade," after which the meeting adjourned until 10 o'clock Wednesday.

Wednesday Morning Session.

The session on Wednesday morning opened at a little after 10 o'clock. The committee on membership submitted the following list of new members: H. E. Fiske, the H. E. Fiske Seed Company, Boston, Mass.; Manitowoc Seed Company, Manitowoc, Wis.; The Herbert Coy Seed Company, Valley, Neb.; A. J. Peters Seed Company, Hollister, Cal., and M. J. Brunjes, Brooklyn, N. Y.

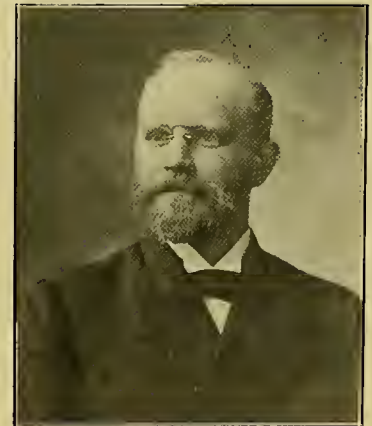
C. N. Page, Des Moines, Ia., read an interesting paper on the subject of postal matters, which created some discussion.

Mr. Ross, of Worcester, Mass., made a report for the committee on experimental stations, in which he suggested that the money now expended for free seeds could be put to better purpose by the government for experiment station work. He commended the efforts of the different experiment stations in their work on poultry, the furnishing of supplies for which formed an important part of the seedman's business. He protested against the method at present in force by the government in securing samples of seeds for the purpose of examination as to adulteration.

S. E. Briggs, of Toronto, Ontario, read an exhaustive report on the work of the experimental farm in Canada.

The report of the committee on obituary was read by George S. Green.

This was followed by the report of the committee on president's address, read by G. B. McVay. This committee recommended that a sub-committee of three be appointed by the next president to revise the seed trade



Walter P. Stokes, Essayist

duction that had been brought about in both passenger and freight rates in different states.

Secretary C. E. Kendel read an extensive report of the work that is being done by the National Council of Horticulture in the way of disseminating authentic horticultural articles through the daily press of the country, and, at the close of his report, the Association voted to donate to the council the sum of \$200, to help on in the good work.

Mr. Walter P. Stokes, Philadelphia, Pa., then opened the discussion on "Is it advisable to offer discounts from catalogue prices," and in the able paper that he presented to the assembled body, he brought out many forceful points in favor of doing away entirely with the discount system and also the offering of premiums. He maintained, that a catalogue is the reflection of the standing of the house issuing it and if it is gotten up carefully and true it is a pity that it has to yield to a 25 or 30 per cent. discount. The expense of all material connected with the seed business had increased materially of late, and yet seeds had not advanced in price and it was a mistake to offer discounts; many firms would give up the practice but for the fact that they must do the same as their competitors are doing. If the influence of the Association was behind such a movement, something could be done. Continuing, Mr. Stokes said that catalogues gotten up with bombastic and fulsome descriptions were no longer popular, and, it was unnecessary to offer premiums, give discounts or resort to catch-penny schemes. Several members joined in the discussion that followed after which the meeting went into executive session.



C. E. Kendel, Sec'y-Treas. A. S. T. A.

offers the same incentive to study and improvement, or that offers more profitable returns for the time and attention given to it, than the seed business. It is certainly a business that is calculated to develop those who follow the occupation, to the fullest extent. The more we know of the seed business, the more we find it to be learned, and the possibilities for development are practically unlimited. Our young men cannot choose any better business, nor a business that offers more possibilities for the future, than the seed business of to-day; and there is no business that tends to bring out more the better qualities of those engaged in it. Travel where you may, you can always find matters to interest and benefit you in the seed business, and there is nothing that broadens and develops and gives more interest to travel, than the fact that business and pleasure can be combined at the same time.

I wish to thank the members of the Seed Trade Association for the hearty support and co-operation which they have given me in the work undertaken for the benefit of the seed trade during the past year, and to pledge my best efforts for the future towards the development and the best interests of anything that may be proposed in a practical way for the advancement of the general interests of the seed trade.

Tuesday Afternoon Session.

The afternoon session opened at 3 o'clock with a talk by Dr. B. T. Galloway, Chief of the Bureau of Plant Industry, Department of Agriculture, Washington, D. C., on the subject of "What the Department Is Doing for the Seed Trade." Dr. Galloway had expected to illustrate his remarks with stereopticon views, but unfortunately no apparatus was available; it is hoped that some of the illustrations may appear in the annual report of the association.

S. F. Willard of Comstock, Ferris & Company then read a very interesting paper on the "History of the

What the Department of Agriculture is Doing for the Seed Trade.

Summary of Remarks by Dr. B. T. Galloway before the American Seed Trade Association at the New York Meeting, June 25-7, 1907.

Dr. Beverly T. Galloway, Chief of the Bureau of Plant Industry of the United States Department of Agriculture, outlined some of the more important work of his Department and explained, with the aid of fifty lantern slides and maps bearing directly upon the subjects presented, the relations of this work to the seed trade.



Dr. Beverly T. Galloway

The general duties of the Department and the policy which is pursued in all its work, said Dr. Galloway, are to acquire and diffuse among the people of the United States useful information connected with agriculture in the most comprehensive sense of that word, and to procure, propagate, and distribute new and valuable seeds and plants. In pursuing this policy, the Department often

stands in the same relation to the seedsmen as to other organized bodies whose objects are purely commercial. It is the business of the seedsmen to dispose of their products to the farmers, and it is to the interest of reputable seedsmen to work to the advantage of the purchasers. As the farmers are not organized, it comes about that the Department must frequently stand as a medium between the seedsmen and the tillers of the soil, and where an element of doubt arises the farmer must be given the benefit of that doubt. This general policy is well illustrated by the law makers of the various States and of the National Government, whose efforts aim to protect the farmer as an individual against agencies that may defraud or injure him.

After this general explanation, Dr. Galloway took up some of the more specific problems upon which the Department is engaged, and with the use of lantern slides directed special attention to several lines of work the results of which must be the upbuilding of the wealth of the country and the adoption of better agricultural practices which will in a number of ways prove of value to seedsmen.

Exploration Work.

The agricultural exploration work of the Department, as an example, calls for the services of experienced men to go into various parts of the world in search of new and promising crops. The results achieved by Mr. M. A. Carleton in securing grains from Russia and other parts of the world for use in this country were mentioned as an illustration of the importance of sending practical men upon explorations of this character. Mr. Carleton has made grains a special study for twenty years and he was able to select varieties of wheats which produced last year in the United States about 50,000,000 bushels, valued at about \$37,000,000. The work of an agricultural explorer now in China was illustrated, pictures of fields of poppies, used for the manufacture of opium, and of Chinese vegetable gardens being shown, together with interesting illustrations of the methods of handling the important soy bean crop.

Particular attention was called to the Japanese salad plant, Udo, which is handled and served much like celery and is proving a promising plant for use upon the tables of Americans.

About \$5,000,000 worth of matting is imported every year, and the Department is trying to establish the manufacture of matting from a Japanese grass which is readily grown here. As the types of juncus used for matting do not come true from seed, it has been necessary to secure a large shipment of these plants from Japan, and they are now in successful cultivation in California. Machinery has already been perfected for weaving this grass by which an American operator can produce as much matting in a day as is made by an Oriental in thirty days.

Improved Timothies.

The work upon the improvement of timothies inaugurated by Dr. A. D. Hopkins has resulted in securing some valuable types, including a mammoth form called the "Stewart" or "Mammoth," which is also an extra-early type. In all, Dr. Hopkins has grown some 60 distinct strains of timothy, one of the types being two weeks earlier than the ordinary form, and of this a second crop can be grown the same season. The Stewart variety when tested beside ordinary types has produced a crop from 10 to 25 per cent. larger.

Sorghum, Alfalfa and Cowpeas.

About 500 kinds of sorghum, particularly of the non-saccharine types, have been tested with a view to their use in the drier regions of the United States, and several types have proved sufficiently valuable to warrant general dissemination. As soon as the value of a certain kind of timothy or sorghum is determined, the Department relinquishes the work for attention by seedsmen.

The life history investigations of the Bureau of Plant Industry have resulted in the introduction of the Orel and other superior types of red clover. The Orel clover was secured from Russia, and is exceedingly hardy, long lived, perfectly smooth, and yields a superior quality of dustless hay. It promises to be of great value in the Northwestern States.

Valuable propaganda work is being carried on in connection with forage crops. An extensive exploitation of alfalfa is being made throughout the East, and farmers are encouraged to cultivate this crop. Arrangements are often made with farmers for co-operative work with the Department in growing one or two acres of alfalfa, and this results in the permanent cultivation of this crop.

Extensive propaganda work is being conducted with cowpeas, soy beans, vetches, a number of grasses, and various leguminous forage crops.

Work in the improvement of cowpeas, the use of which crop has increased greatly within ten years, has been undertaken. Mr. George W. Oliver, a master at hybridizing work, is engaged in efforts to secure types of cowpeas suited to certain specific sections of this country and having definite characteristics. It is desirable to obtain a cowpea of bush type that can be readily made into hay and that will yield a good quantity of seed and hold its leaves well. Further, it must not be subject to root-knot, leaf-rust, or other diseases. The securing of this ideal type has been undertaken through the crossing of varieties each of which has some of the characteristics mentioned. Efforts are being made to secure types of cowpeas which may be harvested by machinery and to determine some way of preventing the rapid deterioration of seed. As seedsmen well know, practically all of the cowpea seed sold this year has been of very low vitality. The Department has secured the seed of a type of cowpea from India 98 per cent. of which, though five years old, has germinated. This type has been used as a parent for several hybrids. Work of a similar nature is being carried on with vetches and other forage crops. Vetch has been used in the tobacco-growing sections of Connecticut with great satisfaction, 400 acres having been planted this year in the Connecticut Valley alone as a result of demonstrating the fact that vetch is valuable as a winter leguminous cover crop for planting in fields from which tobacco has been harvested in early September.

The China White clover and a new Adzuki bean from India were mentioned as likely to prove of special value in certain sections of this country. At the Arlington Experimental Farm, besides a good yield of hay, a variety of Adzuki bean produced about 26 bushels of seed to the acre.

Work of Seed Laboratory.

The work which probably relates more nearly than any other to that of the seedsmen is the testing of seeds by the Seed Laboratory with a view to helping both the farmers and the seedsmen to secure seeds of higher quality. The laboratory under the law collects and examines forage-crop seeds for adulterants and gives seedsmen and farmers prompt information relative to samples of seed which they find in the market. Propaganda work is carried on by this laboratory to show the value and importance of good seed, and visits to farmers' institutes are made by its representatives to deliver lectures which will result in creating a demand for a better class of seed and will teach farmers to reject seeds of low vitality and those containing dangerous weed seeds. Another important feature of laboratory work has for its object the improvement of the methods of handling seed. Special attention has been given to the harvesting, curing, and storing of certain seed crops, particularly corn and Kentucky bluegrass, on which subjects a number of publications have already been issued by the Bureau of Plant Industry. The corn work, especially, has been productive of most valuable results, it having been demonstrated in a practical way that only seed of known high vitality should be planted.

A comparison of the work of the Seed Laboratory for the past year with that of previous years is interesting. From July 1, 1906, to May 27 of this year, this labor

atory has tested seed for farmers, seedsmen, and others to the number of 5,822 samples. It has tested 1,548 samples of forage-crop seeds for adulterants and 3,825 samples of cowpea seed for vitality. It has tested 3,852 samples of corn for this year's planting, 3,000 samples of vegetable seeds bought in the open market, and 1,200 samples of seeds from custom houses, making 19,247 samples in all. The cowpea and corn work was undertaken in view of the low vitality of these crops in certain sections during the past season.

The testing of seed is now receiving more attention than at any previous time, and several of the agricultural experiment stations are arranging to take up this work. Legislation was proposed in four States during the past year, and the bill introduced in Iowa became a law.

Testing and Standardizing Vegetables.

A line of investigation which has a direct bearing on the seed trade is that of testing and standardizing American varieties of vegetables and publishing monographs on these varieties; the development of strains of sweet corn, cabbage, and other vegetables better adapted to the requirements of various localities, and the breeding of improved types of lettuce, celery, etc., which will possess desirable characteristics not found in existing types. During the last ten years the Department has tested more than 15,000 samples of commercial varieties of garden vegetables, the first tests being confined to experimental plots in the vicinity of Washington, D. C., but more recently extending to all sections of the country. Several bulletins have been published containing monographs of certain vegetables, and another, devoted to American varieties of garden beans, is now in press. The object of this testing work is to establish a standard of perfection that will be a guide in making selections of variety types.

Before publishing a monograph of a vegetable, it is necessary to determine exact differences in season, productiveness, and other characters, as well as to decide which types shall be adopted as the correct ones. The Department is endeavoring to simplify the nomenclature by adopting approved variety names and by recommending the discontinuance of confusing, long-worded, or inappropriate names.

The aggregate number of variety names used by American seedsmen is very large, but there are comparatively few whose use is at all universal. For example, in the 1906 catalogue our Mr. W. W. Tracy, Jr., finds 198 leading seedsmen offering tomato seed under 248 different varietal names, only 56 of which are used by ten or more seedsmen, while 118 are advertised by a single dealer. Sweet corn is offered under 150 names, 39 of which are used by ten or more seedsmen, while 59 are used by but one. If it were determined and widely published that fourteen names stood for practically identical stocks of the old Acmé type of tomato, it would be very easy to offer them under fourteen other names, and detection could only follow after the harm had been done. The determination of the exact type of vegetable desirable for certain conditions is of much practical importance and will do more for the betterment of seed grown and used than by merely ascertaining under what names different seed growers offer a particular type.

Effect of Local Conditions on Plants.

For a number of years the Department of Agriculture has been engaged in endeavoring to determine how far local conditions affect the character of the plants grown. Special work along this line has been carried on with sugar corn and cabbage, and the investigations give promise of very interesting and valuable results.

New Types of Lettuce.

The results of the work of the Department during the past three or four years in producing new types of lettuce by hybridizing are most promising, and the success of Mr. Oliver in crossing lettuce—something, it is believed, that has never before been attempted—has been very marked. Lettuces for growing under glass have been used for the most part, the aim being to secure types better adapted to the requirements of the Eastern United States and of the Middle West. For the Eastern States a lettuce was wanted with leaves light in color and with a good, solid, medium-sized head which would not readily top-burn and in which practically all the foliage could be used for dressing. By crossing the Grand Rapids type with a small-heading form known as Golden Queen, the results aimed for were secured, and through this same cross by a different selection an open-head type of lettuce has been obtained which is thought to be superior in a number of ways to the Grand Rapids variety. It is hoped to distribute seeds of both types next year.

Sugar Beet Work.

For several years the growth of sugar beet seed in the United States has been encouraged by the Department in every practical way, and expert breeders have been developing beets of high sugar content and heavy tonnage. During the past year, experimental work with beets raised from American-grown seed and from European seed was carried on by 49 collaborators throughout the sugar beet area. On 278 acres, the American-

grown seed yielded 14.32 tons of beets to the acre, with an average sugar content of 14.9 per cent., making a total of 4,267 pounds of sugar to the acre, while the imported seed as used by the various factories averaged a yield of 12.14 tons to the acre, with a sugar contents of 15.1 per cent., making a total of 3,666 pounds of sugar to the acre—a difference in favor of the American-grown seed of more than 600 pounds. This, on the basis of the 376,000 acres harvested in the United States in 1906, would mean an increase in the total quantity of sugar produced without additional cost of about 226,000,000 pounds. Nearly half a million dollars is now sent abroad annually for the purchase

It was then, before my time, that a host of pretenders came boasting into this country, and among them was William Cobbett, who arrived with an idea that all Republicans were humbugs; and so offensive did he become to good Americans, that he was obliged to flee to England, whence he returned as a Radical Democrat to open a seed store at 82 Fulton street, this city, where he sold ruta bagea at \$1 per pound and black pigs at \$10 each.

My first experience in the seed trade, as you know, dated from 1847, at which time ruta bagea seed, according to a catalogue of that date, did not sell at \$1 per pound, but rather at 12½c. an ounce, at which price some sixteen varieties of turnips were quoted. The item of black pigs does not appear on our lists, and I am sure they were not considered seeds in those days. (Laughter.)

In the Early Forties.

In that year, 1847, and for several years thereafter, the seed trade, in respect to flower and garden seeds, was in very insignificant proportions through all of this country, and my records show that the actual seedsmen did not exceed in number fifteen or sixteen, and these were all of very modest pretensions, and scattered among the cities of New York, Philadelphia, Baltimore, Rochester, Boston, Cincinnati, New Orleans and St. Louis. Many garden seeds were grown, however, in Wethersfield, Conn., as well as in Lebanon, N. Y., and vicinity; in the latter case by the Shakers. In the small towns garden seeds were sold principally by druggists, hardware merchants and grocers.

Probably many of you are of the opinion that in those bygone days the varieties of different classes of seeds were small, but such really is not the case; and you will be surprised to find that in the catalogue of Grant Thorburn, 1822, there are quoted some nine varieties, of snap beans, and among them you will see Six Weeks, White Kidney and Refugee.

Now, as regards pole beans: they also appear in some six varieties, such as Dutch Case Knife, Red Cranberry, Scarlet Runner, Large Lima, etc.

Among the cabbages, I find there were twenty varieties; such well-known favorites as Early York, Early Sugar Loaf and Globe Savoy appearing.

Now, in 1847 catalogues were increasing in size, and varieties of vegetables in proportion. This catalogue of 1847 shows a corn list of seven varieties, some of which are very well known at the present day, like the Early Golden Canada, Early Burlington, Early Tuscarora, Early Dutton, etc.

Now, in 1864 other varieties are added to this corn list, like Early Dwarf, Darlings, Eight Rowed, Asylum and Stowell's Evergreen, Sugar etc.

Even in 1847, the list of peas was quite an extensive one, there being at least thirty sorts catalogued, but of these only two sorts were wrinkled. These were the Tall and Dwarf Knights, and British Queen, and the next year brought us that famous old pea, the Champion of England. In 1864, a dozen more wrinkled sorts were added, and among them was the Advancer. Up to a period beginning about with our Civil War, nearly all garden peas were imported from England, and they were indeed beautiful samples.

In the Fifties and Sixties.

Up to 1850, and for some years thereafter, all such imported seeds came by sailing vessel; peas and other articles in five-bushel casks, costing a guinea a piece. Later on, however, they were shipped in very heavy double sacks, which were returned to the old country, and used over and over again for several seasons.

Our catalogue of 1864 contained a long list of most of the leading vegetables of to-day, and what strikes me as being very peculiar is, and it may be something equally curious to you gentlemen, that the prices of those days averaged about the same as the prices of the present day; the only marked exception to these prices was that of the Advancer pea, which had only been recently introduced as a very fine wrinkled sort, and it was quoted at \$1 a quart, while all other varieties were listed at from 20c. to 60c. a quart.

A Word as to Prices.

The high retail price for seeds began in 1867, and continued for some ten or eleven years, during which

period the ruling price for Valentine, Mohawk and Refugee beans was \$10 per bushel. Beets were then quoted at from \$1 to \$2 per pound; cabbage from \$2.50 to \$8 a pound; leek, from \$4 to \$7 a pound; lettuce, from \$3 to \$5; onions, from \$3 to \$6; peas (the common sorts), \$10 per bushel; Little Gem, \$28 per bushel and \$1 a quart; Yorkshire Hero, \$18 per bushel; Champion of England, \$10 per bushel; peppers, from \$5 to \$7 a pound; radish, from \$1 to \$1.50 a pound; turnips, from \$1 to \$2 a pound.

In 1869, all onions were quoted at \$6 per pound. It was in 1870 that the Egyptian beet was a novelty, and seed of it sold at 50c. an ounce. In 1873 I found Conover's Colossal asparagus listed at 50c. per ounce; Trophy Tomato, \$10 a pound, while the other varieties of tomato were quoted at from \$3 to \$4 per pound. Queen onions I find listed at \$10 per pound, and even up to a period as late as 1875, Carter's Premium Gem peas were quoted at \$1.50 a quart; the Blue Peter variety at \$1.25 a quart. The Beauty of Hebron potato was first offered for sale in 1878, according to Thorburn's catalogue of that date.

This disparity of prices applied only to seeds, and certainly not to the Holland bulbs, for I have before me now a small invoice dated 1806 rendered by our house, a photographic copy of which has been preserved, showing hyacinths charged at three shillings and six pence sterling each, and tulips at two shillings sterling each. It is also interesting to note that



F. W. Bruggerhof

of sugar beet seed which could readily be grown in America.

Three years ago efforts for the production of a sugar beet seed having a single germ were inaugurated, and at the present time beets yielding from 45 to 50 per cent. of single-germ seed and having a very satisfactory sugar content have been obtained.

Investigations in Lily Disease.

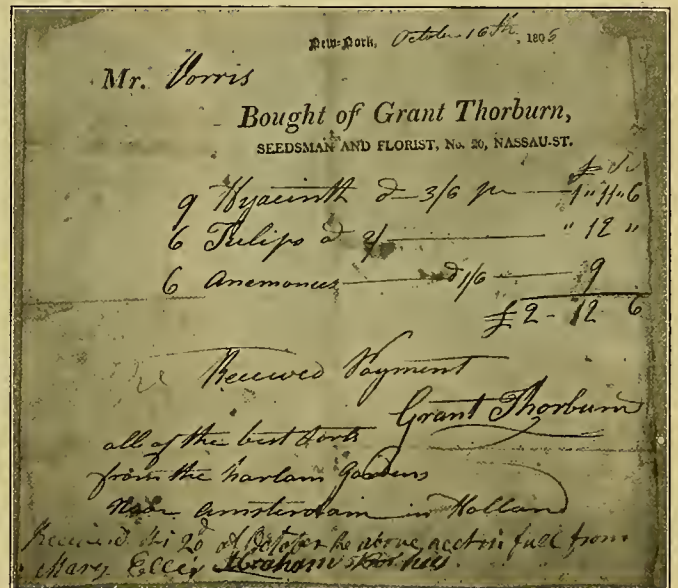
In connection with the investigation of the Bermuda lily disease, the commercial production of bulbs in the United States was investigated. It has been shown that the disease mentioned can be controlled by resorting to nature's method of reproduction, which eliminates the diseased stock—by seed—and the Department has published the results of its work along this line. The production of varieties of tulips, narcissus and hyacinth on the Pacific Coast is being encouraged, and three gardens having this work as their object are maintained in the State of Washington, all promising excellent results. The climate of Puget Sound is especially favorable to the development of tulip and narcissus bulbs, and it is probable that the cornerstone of the American bulb industry will soon be laid in that region.

(To be continued.)

Reminiscences of the Seed Trade.

Read by F. W. Bruggerhof, President of J. M. Thorburn & Company, before the American Seed Trade Association at the New York meeting.

I cannot let pass an opportunity like the present when I am called upon to relate the reminiscences of sixty years in the seed trade, to first call your attention to part of an extraordinary advertisement which was copied from the New York Commercial Advertiser by the Boston Courier in 1845. It shows clearly that the reminiscences of that advertiser, Grant Thorburn, are much more curious and interesting than mine, since they date back to 1799, at a time when he was practically the only seller of seeds in this city. His advertisement goes on to say that he started with three pots of geraniums, a monthly rose and fifteen dollars' (\$15) worth of seeds, and he makes the further statement that the seeds grew until they filled the whole continent; the rose blossomed until it spread into a tree, and the little birds formed their nests under its branches.



Photographic Copy of Invoice referred to in F. W. Bruggerhof's Paper

at the date of the invoice mentioned English money was the only currency used here.

It seems curious, too, that in our catalogue of that date the Brussels Witloof was listed so many years ago, yet it seems scarcely known by anybody even at the present date, though quite large quantities of it are imported weekly from France, and we all know how easily it may be cultivated in our own gardens either for salads or for cooking.

Comparison of Catalogues.

Considering the many voluminous and many beautiful catalogues issued by our seed houses to-day, our modest pretensions of some sixty years ago seem plain and even insignificant. The increase in the size of the present catalogues, comprising as they do so many novelties and new and beautiful things, goes to show how our education and tastes in such matters are increasing from day to day, and how of all the luxuries and industries, that of the cultivation of flowers and vegetables is the most innocent. It is productive not only of many gratifications, but of many advantages also of a permanent character. The care of a garden is likewise a recreation, and conduces materially to health, promotes civilization and softens the manners and tempers of men. In their growth, from the tender shoots which rise from the earth through all the changes which they undergo to the period of their utmost perfection, man beholds the wonderful works of creative power. He views the bud as it swells, and looks into the expanded blossom, delights in its rich tints and fragrant smell, but above all he feels a charm in contemplating the movements and regulations before which all the combined ingenuity of man dwindles into nothingness.

The Banquet Wednesday Night.

The banquet tendered to the visiting delegates was given in the spacious dining room in the eighth floor of the Hotel Astor, and many ladies were noted among those present. The menu provided was an elaborate one. Mr. Patrick O'Mara, of the Peter Henderson Co., officiated as toastmaster and, needless to say, that office was filled to the delight of everyone present. Other speakers were Henry W. Wood, president of the Association; Capt. Burnett H. Landreth, Philadelphia, Pa.; C. L. Allen, Floral Park, N. Y.; Prof. Johnson, of The American Agriculturist; W. J. Stewart, Boston, Mass.; Chas. P. Braslan, San Jose, Cal.; Albert McCullough, Cincinnati, Ohio; Mr. Briggs of the Steele-Briggs Co., Toronto, Ont.; W. P. Stokes, Philadelphia, Pa.; Chas. N. Page, Greenc, N. Y.; S. F. Willard, Wethersfield, Conn.

An Automobile Ride.

On Thursday morning automobiles were provided and a trip was made to Coney Island, giving all the visitors a splendid opportunity of "seeing" New York and Brooklyn en route.

Maule, Wm. Henry, Philadelphia, Pa.
 May, W. H. & Son Alexandria, Va.
 McCullough, Albert, Cincinnati, O.
 McCullough, J. Chas., Cincinnati, O.
 Nebraska Seed Co., Omaha, Neb.
 Nungesser, Henry & Co. (by M. H. Duryea and Mr. Nungesser), New York City.
 Phillips, Henry, Seed and Implement Co., Toledo, O.
 Phillips, W. T. & Co., Toledo, O.
 Pieters, A. J., Hollister, Cal.
 Rawson, W. W. & Co. (by Maurice Fuld), Boston, Mass.
 Rice, Jerome B., Cambridge, N. Y.
 Robinson, J. C., Waterloo, Neb.
 Saizer, H. A., La Crosse, Wis.
 Scarlett, Wm. G. & Co., Baltimore, Md.
 Schisler-Corneli Seed Co. (by Mr. Corneil), St. Louis, Mo.
 Sioux City Seed & Nursery Co., Sioux City, Ia.
 Steele, Briggs Seed Co. (by Mr. Briggs), Toronto, Ont.
 Stokes, Walter, Philadelphia.
 Toledo Field Seed Co., Toledo, O.
 Vaughan's Seed Store (by Leonard Vaughan), Chicago and New York.
 Watson, George, Philadelphia.
 Weeber & Don (by A. L. Don), New York.
 Will, Oscar H. & Co., Bismarck, N. Dak.
 Wood, C. F., Louisville, Ky.
 Wood, Henry, Richmond, Va.
 Woodruff, Watson S., and brother, Orange, Conn.

The Congressional Free Seed Distribution.

BY ALEXANDER FORBES, OF PETER HENDERSON & COMPANY, N. Y.

What is known as the Congressional Free Seed Distribution is a rare old plant which first saw the light of day in 1839. It was a modest little specimen when first introduced. Congress at that time appropriated \$1,000 for the purchase of new, rare and valuable seeds, etc., to be distributed throughout the United States, for the purpose of increasing the output of agriculture. There was no Department of Agriculture in those days, so the fund was placed in the hands of the Commissioner of Patents, and as far as can be learned, the distribution was conducted wisely and in accordance with the intent of the framers of the measure.

Dr. Galloway, chief of the Bureau of Plant Industry, in writing to a Congressman within the past year, says:

"When this distribution was first undertaken, a great many years ago, there is no doubt but that it accomplished much good, because at that time the seed industry was not as thoroughly organized as it is today. The practice of ordering through the mails from seed catalogues was not then in vogue, and it was extremely difficult for a person living in an isolated locality to secure good garden seeds."

The Doctor wisely adds:

"This condition has changed, however, and today it is quite possible for anyone to buy garden seeds of the same varieties as we distribute."

The appropriation was modestly increased by Congress from year to year, in keeping with the expansion of the country, until 1865, when it amounted to \$61,000. The distribution remained in the hands of the Commissioner of Patents until that year, when the Department of Agriculture was organized, with a Commissioner of Agriculture as its head. The Hon. Jeremiah Rusk was the last Commissioner of Agriculture and the first Secretary of Agriculture, with a seat in the Cabinet.

With the exception of the years 1867, 1881 and 1882 (when the appropriation was over \$100,000), it rarely exceeded \$80,000. In 1885, however, it again reached the \$100,000 mark, and has steadily increased during the past twenty years, until it reached the enormous sum of \$290,000 in 1905. So long as Congress kept within reasonable bounds, there was very little complaint on the part of the people. Over twenty years ago, there was an effort made by the seedsmen under the guidance of the late Mr. James Vick, Jr., to stop this Congressional Free Seed Distribution, but it met with very little success. Not more than five members of the House voted for its discontinuance. Since then, one large house in the Middle West attempted, single-handed, to fight the distribution, claiming that Congress had no legal right to distribute common, ordinary varieties of garden seeds, when the act called for new, rare and valuable sorts; in other words—that it was unconstitutional. This case, however, was never brought to a test.

Then, about six years ago, a delegation of seedsmen, representing the leading Eastern houses, waited on the Agricultural Committee of the House, and laid their views before it. After hearing what the delegation had to say, the Hon. James W. Wadsworth, who was the chairman, informed the delegation that he did not blame the seedsmen for trying to stop this Congressional Free Distribution as then conducted, but that as Congress and the majority of the committee were in favor of it, he could not hold out any hope for a change.

I was a member of that delegation and well remember that when we got back to the hotel and took up the afternoon papers, we found, to our surprise, that while

we were having this interview with the Agricultural Committee of the House, Senator Tillman of South Carolina succeeded in getting an appropriation for an extra \$100,000 through the Senate for free seeds. We felt there was no hope and came to the conclusion that there was nothing for us to do but to let Congress increase the appropriation until the evil became so glaring that it would right itself.

In the early part of 1906 there came a change. Up to this point, I have stated briefly the origin, history and growth of the Congressional Free Seed Distribution. It has cost the country many millions, but so long as it was confined to the distribution of new, rare and valuable varieties, as was originally intended, it performed a useful purpose, and was considered well worth what it cost the country, but as it is and has been conducted for many years, it is a ridiculous failure. Never was this more clearly demonstrated than during the past year.

In February, 1906, the Agricultural Committee of the House recommended leaving out of the Appropriation Bill the item for free seeds. This was a purely voluntary act on the part of the Committee, and was as much of a surprise to the seed trade as it was to the country at large. The Agricultural Committee of the Senate was also in favor of the change. Even the Department of Agriculture endorsed the recommendation of the two committees. The seed trade thought it was the least they could do to wait on the Agricultural Committees of both Houses and do what they could to strengthen their hands. To this end representatives of the leading seed houses held a meeting in Washington, D. C., on the fifth day of March, 1906, and appointed a committee with power to act. A fund was raised, and the services of Mr. Wm. Wolf Smith, of Washington, were secured to look after their interests and keep track of what was going on at the Capitol with regard to free seeds. Very soon this became a live issue throughout the country. The seedsmen had a hearing before the Agricultural Committee of the Senate, May 11, 1906, and also before the Agricultural Committee of the House, December 12 and 13, 1906. Those of you who have not copies of the reports of these hearings would do well to get your Congressman to send them to you. You will find them very interesting reading. They are certainly unique, and Mr. Wm. Wolf Smith and all connected with them deserve the thanks of the American Seed Trade Association for the manner in which they presented their case.

When the matter was finally fought out on the floor of the House, our representatives, by a majority of about 136 to 84, voted for a continuance of the old plan. Never was there a more striking instance of the inability of the House to overcome its prejudices and give up a cherished custom—that of handing out annually to their constituents a paltry political package of five papers of common garden seeds, which, according to Dr. Galloway, cost the Government one-half a cent a piece, and which could certainly be procured without difficulty at any crossroad store.

We are told the farmers demand them, that Congress has done very little for the farmer, anyway, and that the least we can do is to allow our members of Congress to hand out to their farmer friends, once a year, with their compliments, this miserable little package of garden seeds of varieties that have been before the public for ten, twenty, thirty and forty years, and which are not worth the cost of transmitting them through the mails.

If Congress must do this, let them send the farmers something that will tend to educate them. Let them send new and rare varieties that will fill up a blank in the existing list, but don't let them send out these common varieties which cost them next to nothing and which cannot accomplish any useful purpose whatever.

Looking at it from the standpoint of the American seed trade, is there any excuse for the existence of the Congressional Free Seed Distribution to-day, or has there been any for the past forty years? Has the American seed trade been so behindhand in its methods and so inattentive to business, as to need the fostering hand of the Government to help it to place what is even new, rare and valuable, before the farmers and gardeners of the country? I think not! On the contrary, as a trade, as a body of men, they have shown marked ability, a strong desire to keep abreast of the times, to find new, rare and valuable plants, seeds and bulbs wherever they were to be found the world over, and have endeavored to adopt the most up-to-date and approved methods that could be found. Indeed, it would be hard to find a body of men in any walk of life that has displayed more resource, intelligence, activity and sound business management than this very trade which Congress is competing with under the guise of helping the farmer.

Looking at it from the farmers' standpoint, is there any excuse for the distribution of common varieties of garden seeds? What good is it doing the farmer? It has been clearly shown by the largest body of farmers, known as the National Grange, with its 800,000 members, that they would rather have new, rare and desirable varieties that will suit their section and their soil, than the common kinds that have been sent out.

(To be continued next week.)



M. H. Duryea, Chairman Entertainment Committee and First Vice-President Elect

Thursday Morning's Proceedings.

The result of the election was as follows:

- Mr. George S. Green, of the Illinois Seed Company of Chicago, was elected president.
- Mr. M. H. Duryea, of Henry Nungesser & Co., New York, was elected first vice-president.
- Mr. F. W. Bolgiano, of Washington, D. C., was elected second vice-president.
- Mr. C. E. Kendel, of Cleveland, Ohio, was re-elected secretary-treasurer.

Invitations for the 1908 meeting were received from Bismarck, N. D., Niagara Falls and Detroit. This question will be decided by the executive committee at their meeting in January next.

Among Those Present.

The following were present in person, or were represented at the convention:

- Adams, T. Lee, Kansas City, Mo.
- Allen, C. L., Floral Park, N. Y.
- Allen, Linnaeus, Floral Park, N. Y.
- Bolgiano, F. W. & Co., Washington, D. C.
- Bolgiano, J. & Sons, Baltimore, Md.
- Braslan, Chas. P., San Jose, Cal.
- Brill, Francis, Hempstead, L. I.
- Buffington, J. J. & Co., Baltimore, Md.
- Cadwell & Jones (by Mr. Jones), Hartford, Conn.
- Chidie, J. Lewis, Floral Park, N. Y.
- Clark, A. N., Milford, Conn.
- Clark, O. W. & Son, Buffalo, N. Y.
- Clark, The E. B. Co., Milford, Conn.
- Comstock Ferre & Co. (by S. E. Willard), Wethersfield, Conn.
- Crosby, S. D., New York.
- Emerson, Frank T., Fremont, Neb.
- Faxon, M. E., Columbus, O.
- Fiske, H. E., Boston, Mass.
- Flower, S. W. & Co. (by C. S. Burge), Toledo, O.
- Forbes, Alex., New York.
- Galloway, Professor, Washington, D. C.
- Greenell, W. H., Pierrepont Manor, N. Y.
- Harvey Seed Co., Buffalo, N. Y.
- Holmes, Harry, Holmesburg, Pa.
- Hollenbach, Peter, Chicago, Ill.
- Iowa Seed Co. (by C. N. Page), Des Moines, Ia.
- Isbell, S. M. & Co., Jackson, Mich.
- Kendel, C. E., Cleveland, O.
- Landreth, Burnett, Philadelphia.
- Leonard, S. F., Chicago, Ill.

CLUB AND SOCIETY DOINGS.

THE COLUMBUS FLORISTS' CLUB held its annual rose and strawberry show on June 11, in the Brent Building. As the regular monthly meeting was also held, the attendance was the largest since the annual meeting. President Sherman F. Stephens was in the chair, and every other officer was present. It would be very hard to say which of the displays were the feature of the evening, the roses or the strawberries. Both were pronounced by all to be the best ever brought together for an exhibition of this kind. To describe the roses fully in detail would take so much space, that I will simply tell you that all seasonable greenhouse varieties were well represented; the whole making a most gorgeous showing. There were no outdoor roses, owing to the late season; and as waiting any longer to hold the show would injure materially the displays of both indoor roses and the strawberries, the club decided to go ahead as planned and have the exhibition. The committee on roses was composed of Jacob Reichert, Gustave Ackerman, and Albert Hills, who made the following awards:—First prize to James McKellar for a grand vase of Uncle John; second, I. D. Siebert for Golden Gate; third, Sherman F. Stephens for a very fine display of Bride. Besides these prize exhibits, large general displays were made by the Fifth Avenue Floral Company, Clover Hill Greenhouses, and Graf Brothers. The latter firm's display consisted of some especially fine American Beauty, and were universally admired.

The affair opened with our regular meeting; it was voted, however, to award the prizes for the Winter displays of plants and flowers. The committee on entertainment, consisting of Mr. and Mrs. M. B. Faxon, I. D. Siebert, and A. Wedemeyer, took charge of the social side. A fine collation had been provided, and among other good things the prize winning strawberries were tested by everyone present. Music, games and sports filled in what was certainly a glorious good time. A three-legged race, in which Messrs. Hills and Bauman, Williams and Metzmaier, and Reichert and Siebert took part, was the evening's feature; the prize going to Messrs. Hill and Bauman. Before adjournment the picnic committee made the announcement that every detail for the Buckeye Lake outing, on July 17, had been made; and that by an arrangement of special cars, the round trip and all expenses would cost adults 60c. and children 30. The affair will be an old-fashioned basket picnic, and for entertainment a hall game, foot races, boat race, three-legged race, dancing, etc., has been arranged, with suitable prizes. At a very late hour we adjourned to meet again June 25. Our club is certainly in a very prosperous condition. All the exhibits, both roses and strawberries, were sent to the hospitals; and the club is also especially indebted to Graf Brothers, for furnishing a large quantity of carnations for this special purpose. We had with us as the guest of the evening W. A. Sperling, representing the Stumpff & Walter Company of New York; and greatly did Mr. Sperling help us to carry out our program, as he kindly acted as judge of the games.

F. W.

HORTICULTURAL SOCIETY OF CHICAGO.—The preliminary premium list has been issued for the annual exhibition to be held from October 31 to November 6, 1907. Copies of the list may be obtained from E. A. Kanst, assistant secretary, 5700 Cottage Grove avenue, Chicago. The prizes to be awarded are, as usual, most liberal. For vase of 50 blooms chrysanthemums, white, pink, yellow, and any other color, first, second and third prizes, respectively, of \$35 and \$15, and \$10 will be given. For best specimen chrysanthemum plant, any color, the premiums are \$40 and \$20; for five standards, \$50 and \$25; five specimen plants, \$40, \$25 and \$10; and for best group of chrysanthemum plants arranged for effect, to occupy not less than 100 square feet, three prizes of \$50, \$30 and \$20 are offered.

The miscellaneous plant classes are also well provided for. The prizes for best collection of orchids are \$50, \$30 and \$20; for best group of foliage plants, to occupy 100 square feet of space, \$50 and \$25; and for group of palms and decorative plants, \$50 and \$35.

Liberal premiums are also offered in the other cut flower classes. For best collection of cut orchid blooms the prizes are \$50, \$30 and \$20; for 100 American Beauty roses, \$75, \$50 and \$25. A silver cup, valued at \$25, will be given for the best 12 blooms of a new rose never exhibited in this country previous to this season.

The carnation classes are well looked after, the prizes for vases of 100 blooms being \$12, \$7 and \$4. The latter as well as the new varieties are to be competed for largely under the color classification of the American Carnation Society, the fifty bloom classes being mainly for specified varieties. The color classification is as follows:

Flesh pink: Being those shades of pink of a flesh or salmon type.

Light-pink: Being those lighter shades of pink, verging on the true pink and lighter than Lawson.

Dark pink: As dark or darker than Lawson, includ-

ing all so-called cerise, not dark enough to be classed as red.

There is also a class for best 100 American Beauty roses, arranged for effect, from which growers are barred, the prizes being \$100, \$75 and \$50. Silver cups valued at \$25 are offered for best seedling carnation and best seedling chrysanthemum, respectively; from each of these competitions are excluded such varieties as have been exhibited previous to this season.

LENOX (Mass.) HORTICULTURAL SOCIETY.—The regular meeting of this society was held Saturday, June 15, President Heeremans in the chair. The effect of lowering the initiation fee has been to induce seven young men to become members of the society. Owing to the late Spring, it was unanimously voted to abandon the June exhibition. At our previous meeting the following questions were asked and were well discussed: "How do plants take up food in solid or liquid form?" "What is capillary attraction, especially in relation to soils?" "Is nitrate of soda a plant food or merely a stimulant; what is its special action on plant growth?" "Is lime of any benefit to the soil at all, or is lime of any benefit to the soil in any locality?" Judging from the opinions expressed, lime is considered of material benefit to soil. G. H. I.



E. A. Seidewitz
Elected President Baltimore Florists' Exchange

MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY.—The June meeting of this society was a very interesting one. A paper on "Melon Culture under Glass" was read by Robert Tyron of Florham Park, and a very able paper it was—clear, concise and well defined. A Herrington had on the exhibition table a collection of twelve varieties of German iris, for which he received a certificate of merit, and samples of muskmelons Royal Jubilee and Sutton's Ringleader. They received a certificate of merit. His lettuce, Little Gem, got a cultural commendation. John Heeremans had four vases of new sweet peas, Nora Unwin, Frank Dolby, Fairy and Mrs. Alfred Watkins, judged a certificate of merit. They are four good kinds and were well grown. A dish of Stone tomato from the same grower received a cultural certificate. James Fraser, superintendent at Cedar Court, had on exhibition his famous set of new colons, Lucania, Daisy Wonder, Mohawk, Combination and Red Boy. They are of the fancy type, sturdy, erect and as beautifully marked as a Rex begonia. They are to be disseminated in 1908 by C. H. Totty in his novelty list. A certificate of merit was awarded for them.

President Vince is absent on his European trip. Robert D. Foote of Morristown, N. J. offers a first prize of \$50 for twenty-five chrysanthemum flowers in twenty-five varieties, twelve inch stems; no strings to it. As it is an open class, we ought to have great competition in this class. O. H. Kahn of Cedar Court offers a silver cup for two vases of chrysanthemums; one of six flowers white and the other of six flowers pink, for members of the society. This gives all the small growers a chance to come in, and ought to be a leader.

The next show will be held in Madison, October 31 and November 1 next. The schedule is ready for the printers; \$500 in cash prizes is listed. E. R.

TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY.—The annual June exhibition of this society was held in Music Hall, 18th Inst. Roses and strawberries, which are generally the leading features at this show, were very scarce, there being only one exhibit of the former, and two of the latter. Cut flowers from shrubs and perennials were numerous and of excellent quality, and the exhibit of vegetables surpassed that of any previous June exhibition. A fine collection of plants and cut flowers from the P. R. Pierson Company made a grand display; notable among the cut flowers was an excellent collection of peonies. The judges awarded a certificate of merit to this exhibit. Scott Brothers showed quite an assortment of hybrid rhododendrons in pots. Geo. Middleton was awarded the prize for strawberries. Howard Nichols won out for 12 varieties of vegetables, and John Elliot for six varieties of vegetables; other prize winners were: George Wiltinger, for sweet peas; W. H. Waite, flowering shrubs; Wm. Grierson, perennials. Special prizes were awarded to George Middleton for greenhouse grapes, peaches, figs and melons; and to Robert Angus for grapes and tables of decorative plants; to George Wiltinger for greenhouse grapes; D. McFarlane for melons and vegetables; Jas. W. Smith and W. H. Waite for perennials, and to John Woodcock for roses. On account of the late season for roses the judges did not award the J. H. Troy cup for the best collection, the cup to be won three years in succession. Francis Gibson also received an award for perennials.

Notwithstanding the fact that the door receipts were donated to the hospital fund, the attendance was very slim. D. M.

PAMPHLETS RECEIVED.

DINGLEY TARIFF BILL, 1897, revised to July 1902. Price, 50c.

Messrs. F. B. Vandegrift & Company, 15-25 Whitehall street, New York, the well-known customs brokers and forwarders, have issued a pocket edition (Vandegrift's Digest) of the Tariff Bill. In addition there is given considerable valuable information regarding the shipment of goods and other matters. Wm. W. Rich, president of the concern named, who is the compiler and editor of the booklet, has produced something that should prove of great utility to importers and others interested.

LOCALITE.—This is a monthly bulletin being published by the Ideal Concrete Machinery Company, South Bend, Ind., for distribution among its customers. By this means the company keeps its patrons posted on its new manufactures and on other matters relating to concrete generally. The idea is quite an ideal one, and is but another example of this well-known concern's enterprise.



Armine Relyea,

Armine Relyea, a well known florist of Orchard Place, Poughkeepsie, N. Y., met a most distressing death Thursday afternoon of last week, when he was struck by a switch engine at the Central New England station and killed almost instantly. His body was badly mangled.

He was about sixty years old. A widow and large family survive him. He also had a son associated with him in business. Mr. Relyea was a member of Triune Lodge, F. and A. M.

John Nicol.

John Nicol, formerly a florist at Oak street, Jersey City, N. J., died about a month ago at the residence of his brother in Owen Sound, Canada, whither he had gone last year in ill health; he had for some years suffered from locomotor ataxia, which had incapacitated him from active work.

Mr. Nicol was born in Aberdeenshire, Scotland, in 1834. He was apprenticed as a gardener in his native town, and later worked for some time under John Bruce, now a seedsman of Hamilton, Ont., at that time foreman gardener to Viscount Arbutnott, Arbutnott House, near Bervie, Kincardineshire, Scotland. On his arrival in this country over fifty years ago, Mr. Nicol secured employment as gardener to Mr. Sprunt of Throgg's Neck, L. I., and subsequently at Newport, R. I. In 1861 he went to Jersey City where he erected a greenhouse establishment, growing plants for the New York market.

Mr. Nicol was at one time president of the New York Market Florists' Association. He was a typical Scot, with all the good traits characteristic of the race, and was held in the highest esteem by all who knew him. He leaves a widow and two sons.

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Copy must reach this office by 12 noon Wednesday to secure insertion in issue of following Saturday.

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

Modern Horticultural Instruction.

Quite recently the editor of a New York horticultural journal, in reviewing a book written by a practical gardener, deprecated the fact that that worthy individual, speaking generally, was, in his writings for the public, too prone to overlook the minute details connected with gardening operations, so necessary to success with all classes of plants. And so in his own journal, when purveying that class of information, he sees to it that "minute instructions" are furnished his readers. Here is a sample of what he evidently considers the real thing, and it is written by a practical gardener, who takes up about four pages of the periodical in question telling how to make a flower bed.

"If the bed has been thoroughly prepared, it will be an easy matter to make the holes for each plant, as the ground is quite loose. Hold the handle of the trowel in your right hand (this would not apply to the Benjamites, who, you remember, were all left-handed), with the blade pointing downwards, as you would a dagger. (Evidently he had Dagoes in mind). Drive this into the ground directly on the top of the line with one stroke. At the same time hold your plant in your left hand. Pull the trowel and soil toward you and before the soil has time to fall back into the hole thus made, put the plant into it. (Rather ambiguous, this; whether is it the soil or the hole into which the plant is to be put?) It is the work of a second. (Amazing rapidity.)"

And so on the "minute instructions" go, sometimes in the most crudely expressed and hazy diction imaginable.

Such literature reminds us of the "Mother Hubbard" sermon, depicting modern methods of ministers, we used to laugh over in our boyhood days. This particular discourse went somewhat as follows:

"Brethren, old Mother Hubbard, she went to the cupboard, to get her poor dog a bone." You will observe that Mother Hubbard went to the cupboard; she did not run or leap, or fly; she slowly went. And what did she go to the cupboard for? To get her poor dog a bone! Yes, the old lady believed her larder was not empty; she thought there was a bone in it," etc., etc.

After reading this gardener's rudimentary and, we think, quite unnecessary instruction so far as any one having a garden is concerned, need we wonder why "amateurs" pine for something more substantial and seek to secure the trade papers in order to get it?

A very full report of the meeting of the American Seed Trade Association will be found on pages 864 to 868.

American Seed Trade Association.

This organization has just rounded out a quarter century of existence, and it was most fitting that, its foundation having been laid in New York, it should commemorate this epoch in the same city.

Through its membership, its ramifications, and its clientele, it represents more of value to America than any other of our many leading business enterprises. Its work is all for peace, for the betterment of man, for the substantiality of the country—May it long continue foremost in good works.

The Horticulturist's Literary Diet.

It is certainly amusing, if nothing else, to read the egotistic ebullitions frequently appearing in our Boston contemporary, prating on the high class standard of the reading matter it is furnishing, and arrogating to itself the credit for the betterment of trade journal methods as these disclose themselves from time to time. Our good friend in the Hub seems to overlook that advancement and emendation has been a concomitant of trade journalism ever since it had its being, and loses sight of the fact that no one factor is responsible for this progress, but that it is due to the demands of the times. It is folly to imagine, far less state, that a new journal conducted on lines which are but replicas of those in existence to an exceedingly large extent, falling far short of long-established periodicals in some features, and surpassing them in none, can in any way influence or improve existing methods. To think so is but unpardonable conceit, and he who clothes himself therewith is unwise, and immediately becomes a laughing stock.

We regret, too, for his own sake, that the Editor of our esteemed contemporary continues to insinuate that the men and women engaged in this business are so devoid of intellectuality that they cannot appreciate and assimilate the best literary feast that can be provided them. True, there may be some who are, or who, like our contemporary, may consider themselves superior in intellectual calibre to their fellows; but, taken as a whole, as regards the quality spoken of, those engaged in the florist industry, as well as in those trades identified with it, to which the trade press caters, will measure up well with, if they do not excel, craftsmen in other lines of business; and it is an insult to their intelligence to intimate that they only are satisfied with the class of news at which our contemporary sneers, and which, in greater or less degree, he is at the same time furnishing.

If our egotistical co-worker in the horticultural literary field is making a success of his journal by pursuing his own imagined sublime methods, let him continue to pursue them. That is his affair; and as we wish everybody to succeed, we are pleased to learn he is succeeding. If other journals, by their methods, are progressing in every way to suit themselves, that is their business, and they seem to be managing things quite satisfactorily—at least to those most vitally concerned. The appearance of their advertising pages and the large and increasing number of names on their subscription lists, all of which was in evidence before and has continued since our contemporary made its advent, are the best indications of approval or disapproval of their clientele; and mere boasting of ultra-excellence by competitors either in the way of self-boost or adverse criticism of others, is futile against such conditions. It is merit, not words, that wins.

Our own opinion is, that the publisher of a trade paper, like a merchant, must cater to each and every one of his patrons as far as he can. Some of these like one kind of reading matter; others, another; and a large number can relish everything that is set before them. It is, though, an impossibility to please everybody. The sensible man, however, will read what suits his taste and let the rest go, being at the same time considerate and liberal-minded enough to believe that what he discards, others may approve of and enjoy.

There is nothing like one minding his own business; it generally, to succeed therein, demands all his attention, and affords him little time for poking his nose into that of other folks. Condemnation or captious criticism of a neighbor's goods is no criterion of excellence in one's own; and, in relation to the latter, as we have said, it needs more than mere self-laudation to stamp them with the hall mark of superiority.

To Destroy Rats.

Editor Florists' Exchange:

Take slaked lime and alum and put the mixture under or on benches, around poultry yards or greenhouses, and you will get rid of all rats. I had them so bad that they destroyed my geraniums and carnations. The rat is very fond of water, and when it goes along on this preparation it gets its claws full, rubs its nose, then runs for water; and as soon as it gets water the animal is destroyed.

For ants and slugs, the mixture named cannot be beaten by anything on the market. I have nine greenhouses, and have not a slug or ant in the place.

Hartsdale, N. Y.

JOHN BURFEIND.

Gladiolus America.

Editor Florists' Exchange:

Since Mr. Banning kindly gives permission to those who dissent from him to use your columns, I will assume that I have yours also, which is much more essential.

I find in his statement absolutely nothing new, relevant, or material, that has not already been fully considered, and, I think, refuted. In my first article upon the subject, in the Shiocton News, and in part republished in The Florists' Exchange, I assumed the existence of his claim, though at that time it had not been openly made, and showed that from circumstances of the case it could not be accepted as valid. The mere fact of putting this claim into print does not add anything to its credibility. If it were preposterous before, it remains so still. No one can, by clothing them with printer's ink, give to incredible things an acceptable character. On its actual merits this claim must be judged, and some aids to such a judgment I will endeavor to furnish.

I note, in passing, that Mr. Banning bestows on me the title of "neighbor." Why he does this I do not know; but I might hence infer that his feelings must have undergone a change since the time when he prevented your leading Eastern growers, who were then at his place and expressed a wish to visit me, from doing so, by telling them that I lived so far out that they could not possibly do so. I was not then near enough to be entitled to "neighborly" treatment—and the distance remains as it was. But let that pass.

He also denies having been my selling agent. Well, we need not quarrel over the name, when in his next sentence he admits having done the things a selling agent would be expected to do. I might add, that besides bulbs he also sold on joint account, cut flowers and seed. Does he wish me to put in evidence the written agreement, book accounts and correspondence of that period? But this, too, is immaterial.

I note also his attempt to belittle the character of my stock. It is rather unfortunate for his argument that it is so very unlike his high-flown descriptions of the same stock, when he was seeking to sell it, and that it was bought and handled by the best and largest seed houses, East and West, in constantly increasing quantities; and that when, as he would have us believe, he sought to replace it with something better, he should have gone back to the identical growers from whom I had my stock, and from whom neither he nor anyone else could obtain any better than I had obtained from them. This, too, is an "aside," but it serves to show the animus of his entire article.

Further, he states that he did not make use of any stock grown by me, in starting his collection. This statement is flatly contradicted by statements of parties who certainly ought to have known, parties who planted the bulbs in question for him and were familiar with all the circumstances. Moreover, I was informed of this by them at the time, simply as a matter of news; at a time when there was none of the present spirit of contention, strife and rivalry, to influence their statements. Which is the more likely to be correct, is a point to be considered in the light of these attending circumstances.

But now a few serious words, to the main point of discussion. If any readers of this article have ever been called upon for jury service to decide a controverted case in the face of conflicting testimony, they will be the better fitted by such experience to decide in this matter. At least they will have learned, from the charge given from the bench, if not elsewhere, that they must be governed in reaching a decision by the preponderance of evidence. And this preponderance is to be determined, not by the length or loudness of testimony, but by such considerations as these: Is the evidence consistent with itself, or with other known facts, or with previous statements of the same witness? Is it in harmony with the attending circumstances? Is it in accord with the probabilities of the case, or is it within the limits of natural possibility? And does it involve incredible or unreasonable corollaries? Or does it commend itself to sound judgment and good common sense? Suppose we follow for a little this line of study. Here is such a case. Here is conflicting testimony enough, certainly. One may be the truth; all cannot be. It is for the public to determine which most commends itself to favor.

To Mr. Groff's claim I have already referred somewhat fully elsewhere. How, then, does Mr. Banning's statement meet the above requirements? Is it consistent with itself and his previous utterances? This is, so far as known, the first and only occasion on which he has made such a claim. Previous to this he had always stated that the origin of America was unknown to him. He stated this to Mr. Groff, in Mr. Cowe's presence, as all three aver, and both he and his grower have repeatedly stated to citizens of this place the same thing. If he demands affidavits, I have no doubt he can be accommodated. Here is certainly inconsistency. If the former statements be correct, as I believe, then the later claim is unfounded. And, on

the other hand, if the last is the true one, how account for the fact that for years a course of prevarication had been followed, apparently without motive? Does not everything point to the conclusion that the late claim is simply an afterthought, which he has attempted to substitute for the former statements, all too clumsily to gain our assent?

Does this claim involve any impossible conclusions? We note this, that if Mr. Banning has discovered a method by which a single gladiolus seed can be developed into "four hundred thousand number 1 bulbs," to say nothing of smaller sizes and bullets, within the time specified, he is in possession of a secret of far greater value than the new variety he claims to have thus developed. Such a story may do for "tell to the marines," but practical growers, with experience and knowledge of the capabilities of the species, can not thus be deluded. They will continue to believe that this can not be done, and has not been done. Where is the preponderance of evidence in this matter? As the case now stands, my first statement remains uncontested in any essential point, in accord with all the known facts, and in conflict with none, substantiated by the statement of the present owner of America, who is a disinterested party; and it seems to me the preponderance of evidence ought to give a decision in its favor, as I believe it will.

Kinsman, O. WILBUR A. CHRISTY.
Editor Florists' Exchange:

We note Mr. Groff's article in your issue of June 8, and we cannot see that he has proved anything as yet. Regarding his reference to Mr. Banning's article and ours appearing at the same time, we would say that we still state that Mr. Banning did not say to us that he raised the first bulb, but that was nothing unusual, as we did not ask him. We realized that he had the stock of the best gladiolus that had ever been raised, and it being entirely new we were induced to buy the stock. Why does Mr. Groff keep this question going unless he can produce some proof of his being the originator of America? He cannot deny the fact that if he had produced it ten years ago, growers and florists all over the country would have it in their stocks at the present time, if he has sold such great quantities as he claims, and we do not find that there is anyone coming forward to say that they ever saw America before we put it out. It seems to us that the spirit that prompts anyone to make capital out of someone else's success is a very selfish one.

JOHN LEWIS CHILDS.
Editor Florists' Exchange:

I notice in Mr. Childs's article the statement is repeated which first appeared in the Shiocton News and concerning which I sent both to him and to that paper a full explanation. It is fair to presume that the article in The Florists' Exchange was already in the hands of the printer when Mr. Childs received my explanation, else he would not have repeated a statement already shown to be groundless.

The statement referred to is that if America originated, as claimed, in my seedling bed, I would still be in possession of the bullets, even after parting with the original bulb, hence should also have had a stock of it.

So far, this is the only objection raised to my claim, which has any weight whatever, even if true, and all its apparent force is dissipated by the simple explanation already furnished Mr. Childs, and which I repeat here for the benefit of your readers. It is that at no time, either then or since, has it been my practice to preserve or make any use of bullets from untested seedlings, as I do not consider them as a class worthy of propagation. Every grower of experience will at once admit their great inferiority to any good mixture, and that they would deteriorate any such mixture if incorporated with it. I do not know the practice of other growers on this point, but will say that if they propagate from the bullets of the mass seedlings without selection, it is not to their credit. As one great object of my work has been to improve the quality of my stock, I have never taken such a backward step as this. On the contrary, the ground between the rows of my seedlings under test, is literally carpeted every year with the plants pulled up by the root, because of lack of merit. I do not admit that this indicates a low quality in my seedlings as compared with others. Growers all know that only a small percentage of seedlings, even of the very best parentage, manifest superior merit, and the remainder are of all grades of inferiority. Hence I have never propagated from such stock. This explanation will, I think, be sufficient answer to the objection stated by Mr. Childs.

Our London Letter.

By A. Hemsley.

THE LATE DR. MAXWELL TYLDEN MASTERS, F.R.S.—Almost everyone throughout the world, who has any connection with horticulture or scientific botany, will mourn the loss of the late Editor of the Gardeners' Chronicle. Most readers of The Florists' Exchange will have heard of his death before these lines can be published, yet I would like to pay a tribute to one who was the greatest friend I had during the first part of the

time I became a writer for the horticultural press, and who had always shown me much kindness since. During the past few years I have come in closer contact with him, and I have always found him most generous and considerate. It is only those who come in close contact with the Editors of the horticultural papers who can understand, in the least, what it is to hold such a position. The heaps of papers they have to wade through is trouble enough, but the letters from disappointed contributors is even worse. Dr. Masters was most careful to encourage and help anyone, and if compelled to reject their contributions, he always gave a kindly word of encouragement and good advice to those who needed it.

In regard to his personal attainments as a practical writer and an exponent of scientific principles it is not necessary for me to dwell, for all interested in the matter are aware that he was always ready to give his valuable advice and assistance to anyone on any subject connected with horticulture. In his death many have lost a kind and sympathetic friend, and horticulture one of its most valuable members.

AT THE ROYAL BOTANIC GARDENS, REGENTS PARK.—The most important exhibit at the Summer show was the large tent of rhododendrons which Messrs. J. Waterer & Sons, Ltd., Bagshot, filled so well. It was the opinion of all that it was one of the finest exhibits of rhododendrons ever seen. In taking note of the best varieties I found the name of Waterer frequently occurring, Gomer Waterer, named after the present head of the firm, being one of the best. Mrs. John Waterer, Michael Waterer and Kate Waterer were also noted. Pink Pearl was in grand condition, and if there is one rhododendron finer than all others it is this variety. J. Henry Agnew, Mr. Tom Agnew, Mrs. H. Agnew, Mrs. Holford, Lady Hillington, Princess Mary of Cambridge and Mrs. C. E. Stirling were other varieties of note. The large undulating banks were relieved with tall plants of acers and other suitable foliage. Kalmias, viburnums, etc., also afforded a little relief to the showy rhododendrons.

SWEET PEAS.—We are still getting further additions in the way of new varieties. H. J. Jones, Lewisham, has recently exhibited some distinct forms. C. W. Breadmore, Winchester, also staged some promising new varieties, but before pronouncing definitely on them I should like to see them later in the season.

While about sweet peas, I may say that I have noted the remarks of your various correspondents. Mr. Weston says I do not understand the rules of the classification classes, but in this he is wrong, for it is because I do see the error of putting one variety before another that I object, and when certain varieties have to be included in classes, I have found that some exhibitors are inclined to think that where the special colors are open for any variety, it is policy to put up those included in the classification classes. If anyone likes to offer a special prize for any particular variety, it may be all right, and in the classes some may be given as types regarding color, etc.; but now that the varieties are getting so numerous, there should be no restriction for this may lead to confusion. We will suppose someone raises an improvement on any of these classification varieties, it cannot be shown except under the name given. There is one thing I would suggest, and that is, that certain colors should be given and no names attached except such as "Jones's White," "Burpee's Pink," or "Eckford's Yellow," etc. We should then get to know who has the best types of the different colors. I remember the time when we had named cinerarias, named herbaceous calceolarias, and all tuberous begonias of any quality; also gloxinias were all named, but the two first mentioned are never seen under names now, and gloxinias are rarely named. Some of the best begonias, both double and single, may be bought under color names only.

While about names I may once more refer to the nephrolepis. At a recent show I made careful comparisons, and have also inspected the stock in several of the leading fern nurseries, and I think that though there is some distinction to be seen among the varieties, Todaeoides, elegantissima and Whitmanii, it would puzzle many people to sort them out if the plants were mixed together. I suppose it is in the interest of the trade to keep giving new names to plants, but it would be much better if we established a definition of colors and let each grower append his name to any improvement.

ROSES.—I have written so much about the Ramblers that I hardly like to refer to them again, yet the splendid plants of Hiawatha I have recently seen, compel me to say that it is one of the finest decorative plants we have. And I find that the florists who do decorative work fully appreciate the value of all of the Rambler varieties. Lady Gay will want something good to succeed it. In market and at shows it has been one of the best, and it flowers so well from all the lateral shoots when grown erect, where most of them require to be twisted round to get the lower portion of the long growths to break out well.

THE ROYAL HORTICULTURAL SOCIETY.—The fortnightly meetings continue to grow in importance. The very large increase in the number of visitors gives a great inducement to all growers to exhibit, and taking

the last three meetings they have excelled anything we have previously seen at the same period, both in regard to exhibits and attendance. There may be a little falling off in really new introductions. This is not surprising, considering all available ground has been gone over so many times.

We get a good many improved garden varieties and hybrids. Orchids have received their full share of attention and many remarkable hybrids have been shown. Among other subjects, the revival of older introductions, which had nearly been lost, has been remarkable, and I believe there is still more to be done in the way of looking up plants which were introduced before we had the facilities we now have for growing them.

There is not the demand for choice stove plants now, as there was formerly, but there are some which were grown in heat and under shade which are found to do better with more exposure. The begonias are an example of the errors committed years ago; those which were grown in the stove are now found to do well in the open ground.

The trade for food plants of decorative value increases, but there has been a great falling off in the demand for botanical curiosities, or for such as have only the merit of being rare; yet even now there are some who value plants because they are rare.

HYDRANGEA ARBORESCENS GRANDIFLORA.—This plant was well shown by Messrs. G. Paul & Son, Cheshunt, and gained an award of merit. Though hardy, the plants appeared to have been grown under glass. They were bushy, with numerous heads of clear white blooms, and should make useful market plants. The species was introduced about 170 years ago. I cannot say how much superior the variety grandiflora is to the parent.

MYOSOTIDUM NOBILE.—This is another old plant worthy of attention. Though a hardy herbaceous plant it is fine for pots. J. Douglas exhibited some fine specimens. It has rather large, fleshy leaves and hold clusters of small blue flowers—a sort of magnified myosotis. It was introduced nearly fifty years ago, but does not appear to have received much attention.

Chrysanthemum Society of America.

The executive committee in charge of the annual exhibition of the C. S. A., to be held in the American Institute rooms, New York City, on November 6-7-8, consisting of A. Herrington, C. H. Totty and Wm. Duckham, met on Wednesday, June 12, 1907. Mr. Herrington as chairman of the committee reported that final arrangements were completed. Dr. Hexamer informed the committee that all efforts to secure larger accommodations had proved unsuccessful; consequently it was decided to make it exclusively a chrysanthemum show, thereby insuring room for the exhibits in the hall of the Institute.

President A. J. Loveless presented a premium list, which includes four gold, silver and bronze medals and many good cash prizes, also a number of valuable prizes to be offered by the Institute, all of which should bring out spirited competition and insure a good show.

It was found necessary to make some slight changes in the schedule as previously published, in order to avoid a duplication of classes, and also to make it possible for every grower of chrysanthemums to participate in the competition.

The exhibition promises to be the largest in the history of the society. The schedule is in the hands of the printer and will be mailed to members in due course; all interested exhibitors can obtain a copy by applying to the secretary.

DAVID FRASER, Secretary.

Class A—C. S. A. prize, silver cup for best 10 blooms any variety, long stems.

Class B—F. R. Pierson Company prize, silver cup, for best 10 blooms white, yellow, and pink, long stems respectively.

Class C—Special prize, silver cup, for 12 blooms Miss Clay Frick, long stems.

Class D—J. C. Vaughan prize, silver cup, for best specimen plant any variety. Open to private gardeners only.

Class E—W. Wells & Company prizes, gold, silver and bronze medals, for 6 blooms Miss Miriam Hankey, long stems.

Class F—E. G. Hill Company prizes for 12 blooms President Loubet, first, \$10; second, \$5. For 10 blooms Mme. Armand Detroyat, \$10.

Class G—Henry A. Dreer prizes, for 24 blooms 6 varieties, 4 blooms to a vase, 24 inch stems, first, \$10; second, \$5.

Class H—Stumpp & Walter Company prize, for 3 blooms, Morton F. Plant, 24-inch stems, \$10.

Class I—J. M. Thorburn & Company prize, for 12 blooms 4 varieties, 3 blooms to a vase, 24-inch stems, \$10. Open to private gardeners only.

Class K—A. T. Boddington prizes for 10 blooms Beatrice May, long stems, first, \$10; second, \$5.

Class L—Chas. H. Totty prize for 12 blooms, 12 varieties, 12-inch stems; introductions of 1907, first \$15; second, \$10.

Class M—Nathan Smith & Son prize, for best 6 blooms seedling or sport of American origin, commercial scale, first, \$15; second, \$10.

Class N—Special prizes for largest bloom white, yellow, pink and any other color, \$5, respectively.

Peter Henderson & Company prize, \$25, to the private gardener winning the greatest number of points to be determined as follows: any first prize to count 10 points; any second prize to count 5 points; any third prize to count 3 points.

FOR THE RETAILER

Summer Decorations.

Summer decorations as seen at Newport, Bar Harbor and other fashionable colonies, where our wealthy patrons spend the warm months, differ in many ways from the more elaborate affairs that are given during the Winter season. There is a tendency toward simplicity, and although at Newport dinners are given where orchids, lily of the valley, and indoor roses are used, the general demand is for garden flowers, which cannot be obtained in the Winter time. There is in Summer always a generous supply of these, at least at Newport and Bar Harbor, where the climate is admirably suited for growing of outdoor flowers.

The apparently clumsy hollyhock is one of the many sources of supply for luncheon and dinner decorations; these are not used on the stalk, except when employed for large decorative effects, but the individual flowers are taken from the stems and wired separately. Both the pink and the white varieties are good for this purpose and make up very prettily with *Adiantum cuneatum*. The flowers when taken from the plants have little or no stem, but this may be overcome by making a short hook at the end of the stemming wire and passing the straight end through the top of the flower. The hook will be found sufficient to hold the bloom in place, and the remainder of the wire forms the stem, which may be inserted into the moss.

Gladiolus are splendid for large effects, the bright scarlet varieties being especially brilliant for daylight functions. Gladiolus and *Hydrangeas paniculata* go splendidly together and have a tendency to bring out the color. *Lilium speciosum rubrum*, alium, and roseum are hard to excel for hot weather, the lasting quality of the flowers being one of their recommendations. Flat table decorations done in these flowers may be made very beautiful, as they look especially well laid on the table in festoons with *Adiantum cuneatum*, or strings of *Asparagus plumosus*. They are equally good for high decorations, and look well in tall vases. If the flowers are to be laid on the cloth, they should be detached from the main stalk. It should always be the aim of the decorator to give a customer something different. You may not be able to find it in your own garden, but by doing a little foraging it will often surprise you what can be picked up. It often takes a man a whole day to get enough of one special flower for a large decoration at Newport or Bar Harbor. A lady saw a plant of *Agapanthus umbellatus* outside a shop at Newport one morning and gave an order for a large dinner decoration. It seemed impossible at the time but nearly two hundred spikes were obtained in two days and a most unique and beautiful decoration resulted. *Allamanda Williamsii* is another favorite at that resort and makes up beautifully with *Adiantum Farleyense*.

Gloxinias, which are grown largely by the private gardeners, take a prominent place in home decorations and some results obtained with these multi-colored flowers might well be imitated by their more experienced



Portion of Rhododendron Exhibit of J. Waterer & Sons, at Royal Botanic Gardens Show, London, Eng., June 10, 1907

Antirrhinums in separate colors or in different combinations are very popular at Newport, the yellow shades being especially so. The darker shades show up better if the white varieties are used with them.

Iceland and Shirley poppies are really beautiful and make a most dainty arrangement, but they are very frail and should be put on the table a few minutes before dinner is served. I saw a very nice arrangement last Summer at a luncheon. Shirley poppies were used in all their varying shades; the table was entirely covered with thick fresh green lump moss and the poppies so arranged that they appeared to be growing, *Adiantum gracillimum* being used as an embellishment. This beautiful variety of maidenhair fern is peculiarly adapted where light airy effects are desired, but it is not generally grown, and is often difficult to obtain.

Sweet peas are general favorites and are perhaps one of the most satisfactory flowers for Summer. Their fragrance is always refreshing, and their great variety of coloring makes them useful for all occasions. Nearly all of the colors blend well, and are generally most effective when used in that way. The crimson varieties go well with white, and some of the pink shades may be introduced in the same arrangement. All varieties, from white lavender to the deepest purple, give a very rich effect, but mixing must be avoided. They should be so arranged that the different colors blend one with the other. It is surprising how the number of shadings that may be introduced without a clashing of colors, and there are few flowers with a greater variety of these than sweet peas.

brothers, who make decorations their business.

The later Autumn flowers are perhaps more in demand at these resorts than the earlier Spring flowers. The height of the season being August and September, when dahlias are at their best, some magnificent varieties being used for table work. *Salvia splendens* and, in fact, any thing that has a flower, is seized upon for decorative purposes—from rare orchids, to blazing sun-flowers.

D. RAYBUN.

Books Received.

CELERY CULTURE.—By W. R. Beattie, Bureau of Plant Industry, United States Department of Agriculture. Fully illustrated. Cloth, 148 pages. Price, 50 cents. Publishers, Orange Judd Company, New York.

This book is the result of many years' experience in celery growing, both for home use and for market. The author has also had the benefit of acquaintance with many of the most successful celery growers, and has had abundant opportunity to study their methods. The work is complete in every detail, from sowing a few seeds in a window-box in the house for early plants to the handling and marketing of celery in carload lots.

Complete cultural directions are included, together with estimates of the cost for equipment and running expenses, and a fair estimate of returns from one acre. There is perhaps no other garden crop that requires or that will justify so liberal a use of fertilizers

DIRECTORY OF RELIABLE RETAIL HOUSES

The retail florist firms advertising under this heading will accept and fill orders for flowers and floral designs forwarded them by mail, telegraph or telephone, the usual commission of 25 per cent. being allowed.

\$25.00, payable quarterly in advance, will entitle the advertiser to a four-line card, under this heading, for one year, 52 insertions. For every line additional to four, \$5.00 will be charged. Four lines will average 32 words; each additional line, 9 words. Each advertiser receives one copy, free, of our Florists' Telegraph Code.

New York.

YOUNG & NUGENT, 42 West 23th St. We are in the theatre district and also have exceptional facilities for delivering flowers on outgoing steamers. Wire us your orders; they will receive prompt and careful attention.

MYER, 611 Madison Ave. My facilities for delivering flowers for any and all occasions are unexcelled. Can give prompt service to steamer and theatre trade. Telegraphic orders solicited. Telephone, 5297 Plaza.

Kansas City, Mo.

SAMUEL MURRAY, 1017 Broadway. I will deliver orders for flowers in Kansas City and vicinity promptly. A first-class stock of seasonable varieties of flowers always on hand. Wire me your orders.

Washington, D. C.

GUDE BROS., 1214 F Street, N. W. We excel in high-class flowers and design work of every description; quick service, reasonable charges and liberal treatment have placed us on top. Try us.

Milwaukee, Wis.

THE C. C. FOLLWORTH CO., Wholesale Florists, will take care of all your Retail orders for the delivery of flowers anywhere in Wisconsin.

Detroit, Mich.

JOHN BREITMEYER'S SONS, Broadway and Gratiot Avenue. We cover all Michigan points and large sections of Ohio, Indiana and Canada. Retail orders placed with us will receive careful attention.

Denver, Colo.

THE PARK FLOREAL CO., 1706 Broadway, J. A. Valentine, Pres. Orders by wire or mail carefully filled; usual discounts allowed. Colorado, Utah, Western Nebraska and Wyoming points reached by express.

Cincinnati, O.

HARDESTY & CO., 150 East Fourth, sell the best grade of flowers grown. Retail orders from distant points for delivery in Cincinnati or surrounding territory will receive prompt attention. Telegraph us.

Dayton, O.

W. G. MATTHEWS, FLOREST, 16 West Third Street. Flowers in any arrangement for all occasions for Dayton and vicinity. Personal attention given to all orders. Long distance telephones.

Dallas, Texas.

LANG, THE FLOREST, the largest flower store in the South. Floral designs and all flowers in season; personal supervision and prompt service in Oklahoma, Texas, Louisiana. Mail and telegraphic orders solicited.

Louisville, Ky.

JACOB SCHULZ, 644 4th Avenue. Personal attention given to out-of-town orders for Louisville and surrounding territory. Have a choice line of seasonable flowers always in stock; delivery facilities perfect.

Indianapolis, Ind.

BERTERMANN BROS. CO. Our facilities for executing orders in an efficient manner are unexcelled. Our shipping territory includes the surrounding states. High grade flowers; expert workmanship.

Albany, N. Y.

EYES, 11 North Pearl Street, cut flowers or floral designs delivered to any part of Albany and vicinity on telegraphic order. Personal attention given and satisfaction guaranteed.

as celery; complete information is given regarding the value, kind and quantity of fertilizers to apply; also as to the home mixing of fertilizers for the celery crops.

Among the other subjects treated are the following: Areas adapted to celery culture; preparation of land; fertilization; production of plants; planting in field and garden; cultivation, irrigation, diseases of celery; insects and animals injurious to celery; blanching; storing; marketing; varieties; profits derived from celery culture; production of celery seed; celery growing for health, pleasure and profit.

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Variety	Size	Each	Dozen	100
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Assorted Ferns for ferneries				\$3.00
Asparagus Plumosus	3	.75		
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"	5	3.00		
Asparagus Sprengeri	2		3.00	
"	3		7.00	
Cibotium Schiedei	6	\$1.00		
Cocos, 3 in a pot	4	75c-\$1.00		
Dracaena Fragrans	5	5.00		
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- DRAEANA INDIVISA**, 4, 5 and 6 in., 10c., 20c. and 30c.
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- ROSES**, own root, Bride, Bridesmaid, Golden Gate, Ivory, Perle, 2 in., 4c.; Meteor, Chatenay, 4 in., 7c. **ROOT GRAFTED**, Bride, Bridesmaid, Perle, 3 in., 6c. **GRAFTED**, Bride, 4 in., 10c.
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- Boston, Pierstoni, 4-in., 15c.; 5-in., 25c.; 6-in., 50c.; 7-in., 75c.; 8-in., \$1.00, \$1.25; 9-in., \$1.25, \$1.50.
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- Kentias, 4-in., 25c.; 5-in., 50c.; 6-in., \$1.25, \$1.50; large plants, \$2.00 to \$35.00 each.
- Latania, 2-in., 3c.; 3-in., 6c.; 4-in., 15c.; 5-in., 25c.; 6-in., 50c.
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Table Ferns in flats, the best assorted varieties at very reasonable prices. To be ready for delivery July 1.

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Assorted, for jardinieres, strong, healthy plants, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

Pieris Adiantoides, 3 in. pots, \$5.00 per 100.
 Cibotium Schiedei, 6 in. pots, \$1.00 each.

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Boston and Scottii, also a few Pierstoni, same price, 6 in., 40c.; 4 in., 16c.; Whitmani, 6 in., 75c. each.

KENTIA Belmoreana, 2 1/2 in., \$10.00 per 100.

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 100 boxes, 12x16, second-hand glass, at a bargain.



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FOR SALE, ranging in size from 8 ft. high to 6 inches. Will sell cheap on account of moving.
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 85th St. and 2nd Ave., BROOKLYN, N. Y.

NEPHROLEPIS

Whitmani, \$10.00 per 100.
 Boston, Ferns sold to July 15th.
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2 1/2 in., at \$2.50 per 100.

Grevillea Robusta out of 4 in. window boxes and decorative purposes), \$15.00 per 100.

ROSES Bride, Gate, Ivory, Perle and Maids, out of 2 in., \$6.00 per 100; \$65.00 per 1000.

Hydrangea Otaksa 16,000. Order now for Fall delivery. Prices on application.
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Plant for Name, J. H. & Son.—Kochia scoparia.

(94) **Peonies not developing.**—Can you inform me of the reason for so many buds on peonies refusing to develop after having grown large enough to be seen. Is it a blight? Do ants cause the damage, or is it another of those peculiarities hard to explain? Some buds develop beautifully, others on some plants are stunted. Why?
 New York. A. H. S.

—The continued wet weather following the setting of the buds is no doubt the cause of so many of them failing to fully develop.

(95) **Pierstoni Fern Reverting.**—Kindly tell me why the Pierstoni fern comes the same as its parent, the Boston fern. Some of mine were beautiful, but all of the new fronds are coming plain like the Boston. Please state what treatment I should give.
 Penn. A. M. E.

—Under some conditions the fern mentioned will revert to the original type. The best treatment to give, in order to avoid any reversion, is to keep the plants growing all the time. Give them a good, rich soil; do not allow them to become root-bound in the pots, and cut away all the fronds that are of the parent type as soon as discovered.

(96) **Commission Methods.**—Why not expose the commission man and his methods? May 31 we telephoned for 200 carnations, and the price was 4c. to 5c. June 6 we shipped same dealer 700, and the price allowed was a shade over 1/2c. When will this treatment of growers cease?
 N. J. A. B.

—Inquirer should give us fuller particulars. Who was the commission man? What grade of carnations was bought, and what were the grade and varieties consigned?

(97) **Agaricus Subrufescens.**—Will some reader who grows the mushroom. Agaricus subrufescens, or who knows where spawn of that variety of mushroom can be obtained, be kind enough to oblige this office with the information asked?

AGERATUM, dwarf blue, 2 1/2 in. pots, \$2.50 per 100; 3 1/2 in. pots, \$6.00 per 100.

ALTERNANTHERAS, red and yellow, 2 in. pots, \$2.50 per 100.

BEGONIA Vernon, 2 1/2 in. pots, \$2.50 per 100.

COLEUS, assorted, 2 1/2 in. pots, \$2.50 per 100.

CANNAS: Chas. Henderson, F. Vaughan, A. Bouvier, Burbank, Shenandoah, 3 1/2 in. pots, \$6.00 per 100.

CALADIUM Esculentum, started plants, 10c. each.

HELIOTROPE, blue, 3 1/2 in. pots, \$6.00 per 100.

GERANIUMS, 3 1/2 in. pots, dark red, scarlet, salmon, white, \$6.00 per 100.

SNAPDRAGON, 3 1/2 in. pots, \$6.00 per 100.

COSMOS, 3 in. pots, \$3.00 per 100.

ENGLISH IVY, 3 1/2 in. pots, \$6.00 per 100.

All in the best possible condition for immediate effect.

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Bushes per pair, 50c., 75c., \$1.00, \$1.25 and \$1.50.

English Ivy, \$2.00 per doz., \$15.00 per 100.
 Austericum, variegated for vases, \$1.60 per doz.
 Aspidistra, green, \$12.00 per doz. in 6 in. pots; \$18.00 per doz. in 6 1/2 in. pots.
 Livistona Sinensis, 3 in. pots, \$2.00 and \$2.50 each.
 Draecena Indivisa, 6 1/2 in. pots, \$4.00 and \$6.00 per doz.
 Draecena Frugans, 6 in. pots, \$6.00 per doz.
 Asparagus Sprenger, 3 1/2 in. pots, \$1.25 per doz., \$10.00 per 100.
 Kentias, 60c., \$1.00, \$2.60, \$3.00, \$3.60 and \$5.00 each.
 Araucaria Excelsa, \$2.00 to \$3.00 each, 8 in. and 9 in. pots, 4 1/2 x 5 in. pots, \$5.00 and \$8.00 per doz.
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 Rhaphis humilis, fine bushy plants in 6 1/2-7-8 and 9 in. pots. From \$1.50 to \$6.00 each.
 Phoenix Canariensis, 2 ft. 6 in., 10 leaves, \$3.00 per pair; 2 ft. 10 in., 10 leaves, \$4.00 per pair; 3 ft., 10 leaves \$6.00 per pair; 3 ft. 4 in., 10 leaves, \$6.00 per pair.
 Bay Trees, standards, 4 ft. 8 in. stem, \$12.00, \$16.00, \$16.00, \$18.00, and \$20.00 per pair. Pyramids, \$16.00 per pair.
 Nephrolepis Whitmanii, 6 1/2 in. pots, \$12.00 per doz.; 7 in. pots, \$18.00 per doz.

50c. for packing and boxes for every \$10.00 worth of goods ordered.

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ALTERNANTHERAS, red, \$20.00 per 1000.
COLEUS, in eight leading varieties, 2 1/2 in., \$2.50 per 100.
AGERATUM, Dwarf Blue, 2 1/2 in., \$2.50 per 100.
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GARDENIA Veitchii, 20,000 plants in 2 1/2 and 3 in. pots, fine clean stock.
CRIMSON RAMBLER ROSES, 7 in. pots, 75c. each.
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10,000 CHERYSANTHEMUMS, 2 1/2 in. pots, 32 varieties.
ASPARAGUS Plumosus Nanus, 2 1/2 in. pots, very fine plants, ready for 4 in., \$3.50 per 100; \$30.00 per 1000.

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TELEPHONE
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1,000 S. A. Nutt, 1,500 La Favorite, 1,000 Jean Vinod, 500 Marquis de Castellane, 250 Alice of Vincennes, single variegated, very fine; Mrs. E. G. Hill, single colored Poitevine, fine trusses, all good plants, 3 1/2 in. pots, \$5.00 per 100.
HELOTROPE, two varieties, 3 1/2 in. pots, \$5.00 per 100.
BEGONIA REX, 3 in. pots, \$4.00 per 100.
CANNA, Martha Washington, pink, 3 1/2 in. pots, \$5.00 per 100.
BEGONIA Vernon, 2 1/2 in. pots; very good, \$2.00 per 100.
VERBENAS, 3 in. pots, \$2.50 per 100.
HELOTROPE, two varieties; **AGERATUM**, dwarf fine; **CUPHEA**, Cigar Plant, **LOBELIA**, dwarf; **TRUNBERGIA**, 3 1/2 in. pots, \$2.00 per 100.

Cash with order.

WM. J. CHINNICK, TRENTON, N. J.

GERANIUMS GERANIUMS

The following varieties in 4-in. pots, in bud and bloom, in fine condition:
 S. A. Nutt, Beate Poitevine, La Favorite, John Doyle, Bruanti, Mar. Castellane, Trego, Mme. Buchner, Richard Brett, Bloard, Francis Perkins, Jean Vland, Double Grant, Mar. De Montmort, and several others, \$6.00 per 100. The selection of sorts to remain with us.
 Cash must accompany all orders.
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Plant on benches for stock. D. Grant, Poitevine, Buchner, Ricard, Castellane, Nutt, 1/2 in., \$20.00-\$30.00 per 1000; in bloom, \$2.50-\$3.50 per 100, cash.
 Standard flower pots at a bargain; all sizes.
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Finest Stock, best variety, most in bloom and bud, 4-in., \$4.00 per 100; \$35.00 per 1000; out of 2 1/2-in., \$2.00 per 100. Ivy Geraniums, 4-in., \$5.00 per 100.
Heliotrope, Fuchsias, Double Petunias, and **Salvia**, in bud and bloom, \$4.00 per 100.
Verbenas, **Phlox**, **Dusty Millers**, **Cigar plants**, **Coleus**, and **Thunbergia**, \$2.00 per 100, out 2 1/2-in. pots, fine plants in bud and bloom.

J. C. SCHMIDT, Bristol, Pa.

GERANIUMS 2 1/2 in. at \$2.00 per 100; \$18.00 per 1000, as follows:
 Ricard, Nutt, Atkinson, Vland, Castellane, Poitevine, Juan, Trego, Telegraph. 2 1/2 in. **FEKNS**, Boston, Scottii, Piersoni, Barrowsii, \$3.00 per 100; \$25.00 per 1000. 3 in. Boston, Scottii, Piersoni, \$5.00 per 100; 4 in., \$10.00 per 100. 6 in. pans Piersoni, Boston, \$2.00 per doz. 8 in. pans Boston, \$5.00 per doz.

NATIONAL PLANT CO., Dayton, O.

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500 S. A. Nutt, 3 1/2 and 4 in., \$6.00 and \$7.00 per 100; 200 Mme. Buchner, 4 in., \$6.00 per 100. 500 **STOCK PLANTS**, Nutt, Telegraph and Buchner, 5 in., \$3.00 per 100. Stock A No. 1, in bud and bloom.

Cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.

GERANIUMS Buchner, Poitevine, Doyle, 3 in., \$3.00 per 100. **Coleus**, Golden Bedder, C. Verschaffeltii and others, 2 in., \$1.50 per 100; \$15.00 per 1000. **Fancy Plants**, \$1.00 per 100; \$8.00 per 1000. **Ageratum**, **Phlox**, **Verbenas**, **Marguerite Carnations**, 2 in. pots, \$1.50 per 100. Cash with order.

Ernest Harris, Delanson, N. Y.

GERANIUMS 50 S. A. Nutt, 3 1/2 in., \$6.00 per 100. 50 Doyle, Ricard and Brett, \$6.00 per 100. 75 dark leaved **CANNAS**, from flats, 5 in. pots, \$6.00 per 100. 50 **COBÆA SCANDENS**, 3 1/2 in., \$6.00 per 100. 140 **COLEUS** Verschaffeltii, clean stock, 2 1/2 in., \$2.50 per 100. 90 **ACHYRANTHES** (green), 2 1/2 in., \$2.50 per 100.

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LACER & HURRELL, Summit, N. J.

Herbaceous Border Notes.

A week of more seasonable weather has made a vast difference in the hardy border, and already the glories of Summer verdure are apparent everywhere. The German irises are the most attractive plants at present, and where a good collection of varieties is planted there are many rich and pleasing flowers to be seen. It has been said and truly that the iris is to the garden what the orchid is to the greenhouse, and nowhere can this be better proved than where a fine collection of German irises is in bloom. There are a great many varieties, and they are like many of the other hardy flowers, the peonies for instance, so mixed up that the only way to get a good collection is to make selections when the plants are in bloom. There are several different types also of these flowers, such as the florentina or the pallida, and these divide into many varieties. Iris florentina is one of the earliest to bloom of a fine whitish color. Among the pallida forms Dalmatica is considered the best. It is tall growing, of a beautiful shade of blue. Pallida speciosa is of a lighter shade, and the true pallida is still lighter. Iris squalens includes many of the yellow or brownish shades of color. Iris flavescens is a fine yellow and Canary Bird is a named variety of a similar type of a very pleasing color as the name implies. Iris plicata is another form which has many pleasing variations and Iris aurea is one of the finer yellow forms. There are many of the named hybrid forms which are exceedingly fine; a few of the better ones are Queen of May, which has a tinge of reddish in its colorings, Mme. Newhoner, a very fine yellow sort, macrantha one of the best dark ones, Gracelius and Robert Burns both good yellow varieties. Maori King a splendid yellow sort, light blue, Garrack, light blue with darker falls, and spectabilis, a fine dark variety. Iris sibirica, both light and dark colored, are just coming into bloom. These Siberian varieties grow taller than the German iris, and they are well worth a place in the border. Iris pseud-acorus is a moisture loving variety and does best when planted by the edge of a pond or stream. Its color is yellow, and when water gardens are

given a natural appearance at their edges this iris is indispensable.

In the border now are many of the hybrid aequilegius. Some of the California hybrids are very fine, but the true cornelia is, in my opinion, one of the best of them. Several of the lychuis are now showy. L. viscaria, viscaria alba and viscaria splendens are all good. Lychuis bos-cuuli and its white form are also good as is also Lychuis diurna rosea, taller growing than those mentioned and a good variety.

Old fashioned but showy are the rockets, Hesperis matronalis. There is a great variety of color and they brighten up wonderfully at this season.

Some of the hemerocallis are now in bloom. Dumortieri and Middendorfi, with its pretty yellow flowers, are the earliest. Dietamnus fraxinella and the white variety are both splendid border plants, about two feet high, which are in full bloom at present; and one of the best plants is Baptisia australis, with its beautiful blue, lupine-like flowers, above its pretty deeply cut foliage. There is a white form of this also which is good.

The oriental poppies are some of the most showy of plants, and they are now in their glory; but they do not last long and their location will have to be filled up with annuals if some other later blooming plant has not been mixed with them. The Iceland poppies, (Papaver nudicaule) are good, of many colors, and small as compared with the oriental varieties.

The lupines are now in bloom and are well worth growing; polyphyllus and its varieties are considered the best. The centaureas, montana, rosea and alba, continue to bloom in profusion. The hybrid pyrethrums are just in flower; there are many fine varieties among them, but many people do not grow them as they fail to do well with them. They are the better for being cut back and transplanted just after they are through blooming.

Achillea tomentosa is a dwarf growing form, with bright yellow flowers; and Salvia pratensis in different colors is just getting showy. Incarvillea Delavayi is a beautiful plant of rather recent introduction. It has been called the hardy gloxinia on account of its flowers being shaped like those of that plant. It seems perfectly hardy and should be in every collection.

Aster alpinus has commenced to bloom; it is the earliest of the hardy asters. Some of the verbascurus are rather pretty, especially Phonicum which has several colors.

There are a host of dwarf growing plants yet in bloom, but these are generally in the rock garden. Among them we have lots of the violets, anemones, primroses, saxifrages, rock roses and many others.

Very imposing plants at present are the eremurus; their beautiful large spikes of bloom are very attractive. The best varieties are himalaicus and robusta. Bungeanus is a later variety with smaller yellow flowers.

Only a few of the peonies are yet in bloom; it will be ten days before they are in their glory, although the old double form of officinalis is just out, and reminds one of the old garden of grandmother's time.

Boston, Mass.
 (These notes were crowded out of last week's issue.)
J. W. DUNCAN.

ASPARAGUS SPRENGERI

2 in., strong, stocky plants, \$2.50 per 100; \$20.00 per 1000.
DAHLIAS, best varieties, assorted, \$2.00 per 100.

DEAN FERRIS, Peekskill, N. Y.

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2 1/2 in. pots, \$5.00 per 100; \$40.00 per 1000. 5 per cent. discount on all orders received before July 1st accompanied by cash. July and August delivery.

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300,000 ASTER PLANTS Queen of the Market, in white, pink and mixed colors; late branching, white, pink, lavender and mixed colors; **Ostrich Feather**, **Ray Aster** and **Victoria**, strong, stocky plants, ready to plant out at \$2.50 per 1000; in 5000 lots, \$2.00 per 1000.
Gustav Pitzonka, Bristol, Pa.

CLASSIFIED ADVERTISEMENTS

Cash with order.

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line (7 words to the line), set solid, without display. No advt. accepted for less than thirty cents.

Display advertisements in these columns, 15 cents per line; count 12 lines equals to the inch.

[If replies to Help Wanted, Situation Wanted, or other advertisements are to be addressed care of this office, advertisers add 10 cents to cover expense of forwarding.]

Copy must reach New York office 12 o'clock Wednesday to secure insertion in issue of following Saturday.

Advertisers in the Western States desiring to advertise under initials, may save time by having their answer directed care our Chicago office at 127 E. Berwyn Ave.

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SITUATION WANTED—As foreman or first hand by thoroughly practical nurseryman. Best of references. Address, E. I. Tinga, Franklin, Mass.

SITUATION WANTED—First-class designer and decorator wants position. Best references; manager of store for several years. Address, B. X., care The Florists' Exchange.

SITUATION WANTED—As foreman by florist and designer on private or commercial place. Fourteen years' experience. Address, P. O. Box 505, Westerly, R. I.

SITUATION WANTED—By working foreman, grower of roses, chrysanthemums, carnations, etc.; wholesale or retail; long experience; first-class references. Address, X. X., care The Florists' Exchange.

SITUATION WANTED—By a young, married man, no children, 24, Hollander, as gardener on private estate; experienced in greenhouse work, lawn and vegetables. Can give good references. Address, B. Z., care The Florists' Exchange.

SITUATION WANTED—A young man, aged 24, some experience in general greenhouse work, wishes to get a position around greenhouses in a short distance from New York. Address, E. D., care The Florists' Exchange.

SITUATION WANTED—As foreman of good place. Twenty years all-around experience with cut flowers, vegetables, pot plants and nursery stock. Good worker; good wages and good treatment expected. References. State wages in first letter. Address, Box 62, Millbrook, N. Y.

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SITUATION WANTED—By practical, middle-aged florist, life experience growing roses, carnations, violets, chrysanthemums, decorative and bedding plants. Single, sober; state wages. A. Gerren, Globe Hotel, 112 North Sixth street, St. Louis, Mo.

SITUATION WANTED—Daan, married, grower of cut flowers and general stock. A No. 1 designer, wants position. Retail commercial place preferred. Life experience Europe and United States. Can speak German and the Scandinavian language. Address, Nielsen, 58 North street, Bath, Me.

SITUATION WANTED—As foreman by first-class grower of roses, carnations, chrysanthemums and general stock. A No. 1 references. Employed at present, but am desirous to take hold of a larger place where my services would be worth more. Address, B. F., care The Florists' Exchange.

SITUATION WANTED—Florist, single, strictly sober and honest, good grower of roses, carnations, chrysanthemums and general stock, also designing, wants position. Capable of taking charge of retail place. Address, B. C., care The Florists' Exchange.

HELP WANTED

WANTED—A thoroughly experienced rose grower and propagator. In writing state wages expected and enclose references. R. G., Hanford, Norwalk, Conn.

WANTED—Experienced, single man for carnations and miscellaneous stock. We furnish board and room, and man must positively be sober. Give references and wages expected. This position gives a good opportunity to a good man. Address, Box 437, Minersville, Pa.

HELP WANTED

WANTED—Night fireman, married man, for large place. Wages, \$50.00 per month, house and fuel. Address, B. M., care The Florists' Exchange.

WANTED—Two men who have some knowledge of rose growing to work under foreman. Good wages and fair treatment are offered. Address, B. W., care The Florists' Exchange.

WANTED—A young man on commercial place, who understands propagating and greenhouse work. Address, giving references, Fancher Creek Nurseries, Fresno, California.

WANTED—On large, up-to-date place, two young men with some experience in rose houses. Address, with references, E. E., care The Florists' Exchange.

WANTED—Experienced rose and carnation growers to take charge of sections. Give references and wages expected in first letter. Lake View Rose Gardens, Jamestown, N. Y.

WANTED—Good man as grower, smlax, asparagus, vegetable plants and cold frame work. Steady position to right man; wages according to ability. Eden Nurseries, Port Allegheny, Pa.

WANTED—A man to act as night watchman and as fireman during the Winter months on a commercial establishment. Permanent position for a reliable man. Address, B. H., care The Florists' Exchange.

WANTED—A first-class rose grower who is competent to take full charge of a large modern establishment. To the right man a good salary will be paid and a dwelling house provided. Address, B. Y., care The Florists' Exchange.

WANTED—Good, all-around man, single or married, to take charge of private place. Must be sober and willing, and able to take full charge of a new place. Good position for right party. Address, Wachendorff Bros., Atlanta, Ga.

WANTED—Competent rose grower with some knowledge of chrysanthemums and violets, in the middle West. Married man preferred. State age, nationality, wages, etc. Address, G. H., care The Florists' Exchange.

WANTED—Thoroughly competent traveling salesman for the wholesale seed trade a large salary will be paid to those who can command good trade. Advise with full particulars. P. O. Box 1594, Philadelphia, Pa.

WANTED—A married man as assistant gardener on private place. Wife must be willing to do laundry work for small family. Send references and state wages expected in first letter. Address, E. L. F., care The Florists' Exchange.

WANTED IN SEED STORE—Experienced man to take charge of flower seed and bulb department. A first class, permanent situation to right party. State experience, salary wanted and whether any other work. Address, Seeds, care The Florists' Exchange.

WANTED—A good grower of carnations and roses, German, married, preferred. Must thoroughly understand his business as grower. To such a man I will pay \$15 per week as a start. Give references from last employer in first letter. Address, Muskogee Caratona Company, Muskogee, Okla.

WANTED—Experienced rose growers; wages, \$45.00 per month and \$1 additional for each full Sunday and full holiday worked; also twelve days vacation during the year. State experiences, age, etc. in first letter, sending references. Benjamin Dorrance, Dorrance, Pa.

WANTED—Rose grower to take charge of one house, 200 feet long x 43 feet wide. Must be able to grow first-class stock. Single man. Apply, stating wages required, enclosing copy of testimonials. Address, S. S. Bain, 463 St. Catharina street West, Montreal, Canada.

WANTED—Foreman for one of the large commercial places in the Eastern states. Must be Boston and New York. Must be a first-class grower of Beauty's, Teas and carnations. Send copy of references. Name salary expected, though we will pay salary necessary to secure man of ability. Address, B. O., care The Florists' Exchange.

WANTED—A young man to learn the florist business, growing fancy carnations and general stock. Must be intelligent, industrious and of good habits, with no outside interests. A permanent position for the right man; \$20.00 per month with board and room to start. Send references in first letter. John Curwen, Berwyn, Chester Co., Pa.

WANTED—The services of a well-informed gardener of good, personal presence and fluent of speech, who has retired from active work, but is able to travel around freely, to represent the advertiser and sell his books, which have been issued some half a dozen, by experts, especially written for the gardening and florist craft. Straight commission, or would give salary and commission to a competent party. Address by letter with full particulars, including natural, care P. O. Box 1697, New York City.

HELP WANTED

WANTED—A competent florist; one who knows the business of making up bouquets and floral designs for funerals, weddings, banquets, etc., all work pertaining to the florist business (not growers). Will give a capable man an interest in the business, as much stock as he would like to have—large or small; will give such a man the entire charge and management of the business. In a growing southern city, healthy climate, and a fine, well-established business, with a best class of trade. About a \$15,000 business last year, with a bright prospect of a large increase the coming year. This is an unusually fine opportunity for a man with some capital, who wishes to take an interest in the concern and manage a first-class florist store. Address, J. M. G., care The Florists' Exchange.

MISCELLANEOUS WANTS

WANTED—200 small Ficus Elastica, Eswell Kemp, 33 Grove street, Newark, N. J.

WANTED TO BUY—Greenhouses to be taken down. State full particulars of same when writing. Address, E. W., care The Florists' Exchange.

WANTED—Partner to take interest in a modern greenhouse establishment of about 100 thousand square feet of glass. Must be able to invest from twenty to twenty-five thousand dollars. Correspondents must give some assurance of their reliability and business standing to insure prompt reply. Address, B. C., care The Florists' Exchange.

FOR SALE OR RENT

TO LET RETAIL FLORIST STORE—With three greenhouses attached; great chance for the right man, at 98 Broad street, Newark, N. J. Address, Thomas Elsum, 243 Belleville avenue, Newark, N. J.

GOOD OPPORTUNITY for a florist; a good paying retail business in Philadelphia, Pa., established over 16 years in good neighborhood; northern part of city. For full particulars address, M. R., care The Florists' Exchange.

FOR RENT—Florists' location, established 40 years corner store and two greenhouses; also yard, 35x40 feet, and stable. S.W. corner 12th and Spring Garden streets, Philadelphia. Apply to agents, Myers & Barth, S.W. corner Ridge avenue and 10th street, Philadelphia, Pa.

STOCK FOR SALE

SALVIA, fine stock, 2 1/2 in., \$3.00; 3 1/2 in., \$5.00. Joseph Wood, Spring Valley, N. Y.

PANSY SEED, the finest obtainable. Francis Brill, Hempstead, N. Y.

VIOLET PLANTS—I still have violet plants for sale. Write for price. L. Dart, 384 East Winnifred street, St. Paul, Minn.

1500 AMERICAN BEAUTY PLANTS in 4 in. pots at \$10.00 per 100; \$80.00 per 1000. Address, John Klotzmann, Madison, N. J.

GERANIUMS, Nutt; Salvia blue and white, Ageratum; large, fine plants, in bloom, 3 1/2 in., \$6.00. L. E. Marquise, Syracuse, N. Y.

ADIANTUM HYBRIDUM for sale. Bench plants, ready for 6 to 8 in. pots. Will make big pot plants by Fall, 20c. each by the 100, or much less in large lots. Address, Eloy Klein, Hoyt, Pa.

ROSES, Bride, Bridesmaid, Ivory, 2 1/2 in., shifted from 2 in., \$3.00 per 100; \$26.00 per 1000. Wm. B. Sands, Lake Roland, Baltimore, Md.

CARNATIONS—10,000 first-class Enchantress, field grown, August 1 delivery. Ask for prices. Wa-no-ka Greenhouses, Barneveld, N. Y.

COLEUS, in standard varieties, 2 1/2 in. stock, at 2c. FUCHSIA, 3/4 and 4 in. stock, fine, five best varieties, mixed, at 5c. Cash with order. Le Page Brothers, P. O. Box 624, Stamford, Conn.

CABBAGE, Early, Late and Premium Flat Dutch, Succession, and Savoy, \$1.00 per 1000; \$8.50 per 10,000. Will have variety of all varieties by July 15. Samuel W. Shanklin, White Marsh, Balto Co., Md.

GERANIUMS, fine, healthy plants, from 4 in. pots, in bloom, \$7.00 per 100; were \$10.00 to \$15.00. Will do nicely for stock plants. All standard colors. Cash with order. The Geo. R. Geiger Estate, Nazareth, Pa.

ASTERS, Simple's, in four separate colors, \$2.50 per 1000. Rosbach's Commercial, x 2 1/2 in. 1000's. Obmstedt's Commercial, white, \$3.00 per 1000. Write for quotations on large quantities. A. & G. Rasbach, Pemberton, N. J.

STOCK FOR SALE

CABBAGE, Succession, Autumn King, Flat Dutch and Savoy. My celery plants will be ready by July 20. Dahlia plants, from 2 in. pots, of the following varieties: A. D. Livoni, Hunold, Sylvia, Eureka, Fern Leaf Beauty, Standard Bearer, Progress, H. D. Fallock, Fashion and Twentieth Century. J. W. Brandt, Upper Falls, Md.

FOR SALE

FOR SALE—Some 12x14 glass, heating pipe, sash, etc.; cheap. Address, C. C. McCorkle, Cortland, O.

FOR SALE—A 20 hp. horizontal tubular boiler in excellent condition. Sold for want of use. Apply to Harry J. McFarland, Route No. 8, Marshallton, Pa.

FOR SALE—Greenhouse material and hot bed sash, new from Gulf Cypress, to any detail furnished. Oxford putty, specially made for greenhouse and hot bed sash. V. E. Reich, 1429 Metropolitan Avenue, Brooklyn, N. Y.

FOR SALE—On account of my health, I am compelled to offer my greenhouse specialty business, which includes the Standard Duplex Gutter, which is fast coming into use by the growers. This season many thousand feet were erected, and at present am shipping a large range to California, also the Standard Steam Trap and the Ventilating Machine. My business is thoroughly established; none better; and is doing a large business all through the season. Address, E. Blyppard, Youngstown, O.

10 Greenhouses; five Hitching's Boilers, nearly new; 3,000 4-in. pipe; 3,000 ft. 2-in. pipe; valves, fittings, tools, three wagons, carts, horse, hot bed sash, etc. Geo. Darsley, 176 Claremont avenue, Jersey City, N. J.

FOR SALE

PIPE Good serviceable second hand, No Junk, with new fittings, 1 in. 3/4; 1 1/2 in. 4/2c.; 1 3/4 in. 6 1/2c.; 2 in. 7 1/2c.; 2 1/2 in. 10c.; 3 in. 14c.; 4 in. 19c.; ft. All kinds of fittings for 4 in. cast iron and all sizes wrought iron.

STOCKS AND DIES New Economy, easy working. No. 1 cuts 3/4-1 in. \$3.00; No. 2 cuts 1 1/4-2 in. \$4.00; Armstrong Adjustable No. 2 cuts 3/4-1 in. \$4.00; No. 3 cuts 1 1/4-2 in. \$6.50.

PIPE CUTTERS Saunders, No. 1 cuts 2 in. \$1.30; No. 2 cuts 3 in. \$2.00; No. 4 cuts to 4 in. \$4.50.

STILLSON WRENCHES Guaranteed. 12 in., 18 in., grips 2 in. \$1.60; 24 in., grips 2 1/2 in. \$2.25; 30 in., grips 3 1/2 in. \$4.50.

PIPE VISES Reed's Best Biaged Vice, No. 1 grips 2 in. \$1.75; No. 2 grips 4 in. \$3.50.

GARDEN HOSE 50 ft. lengths 3/4 in., guaranteed; 8 1/2c. for heavy work, guaranteed; 12 1/2c.

HOT-BED SASH New; Gulf Cypress, 3 ft. x 1.60 up. Second hand sash glazed, \$1.25, good condition.

GLASS New American, 60 ft. to the box. 10 x 12 single at \$1.90, 10 x 12, 12 x 12, B. double, \$2.40 per box. 12 x 14, 12 x 20 and 14 x 14 to 14 x 20 B. double, \$2.65 per box. 12 x 24 B. double, \$2.90 per box. 16 x 16 and 16 x 18, B. double, \$2.76 per box. 16 x 20 to 16 x 24, double, \$2.96 per box. 6 x 8, 7 x 9, 8 x 10 old, single, \$1.60. 8 x 10 old, single, \$1.60. 10 x 14 second hand ground glass at \$1.50 per box.

SAFES Second-Hand, \$20.00 to \$75.00. PECKY CYPRESS \$25.00 per 1000.

Get our prices on second hand wood material. We can furnish everything in new material to erect any size house. Get our prices.

New Locust Posts 2 1/2 to 3 in., 7 ft. long, 20c. each. 4 in., 7 ft. long, 30c. each. 4 in., 8 ft. long, 60c. each.

METROPOLITAN MATERIAL CO.

Greenhouse Wreckers
1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

FERNS

Boston and Scovill, 6 in. pots, \$10.00 per 100. Boston's, pans, \$1.00 and \$1.50 each.

WM. C. SMITH, 61st & Market Sts., Philadelphia, Pa.

Thirty cents is the minimum charge for advertisements on this page.

ROSES = CHRYSANTHEMUMS = BOUVARDIA = COLEUS

OWN ROOT ROSES

2 1/2 in. pots, \$6.00 per 100; \$50.00 per 1,000. BRIDES, BRIDESMAIDS, RICHMOND, WELLESLEY.

3 in. pots, \$8.00 per 100; \$70.00 per 1,000. BRIDES, BRIDESMAIDS, RICHMOND, CHATENAY, IVORY.

AMERICAN BEAUTY, on own roots, 2 1/2 in. pots, \$8.00 per 100; \$75.00 per 1,000; 3 in. pots, \$12.00 per 100; \$100.00 per 1,000. Ready for immediate delivery.

ASPARAGUS PLUMOSUS NANUS

2 1/2 in. pots, \$3.50 per 100; \$30.00 per 1,000; 3 in. pots, \$7.00 per 100.

CHRYSANTHEMUMS

WHITE

Early—Polly Rose, Willowbrook, White Shaw, Ivory, Kalb. Mid-Season—Miss Minnie Wanamaker, Mrs. H. Robinson, Niveus, Queen, Alice Byron, Eureka, T. Eaton, Merza.

Late—Mrs. McArthur, Chadwick, Adella.

PINK

Early—Glory of the Pacific, Pink Ivory. Mid-Season—J. K. Shaw, Adela, Mrs. Perrin, A. J. Balfour, William H. Duckham, Dr. Enguehard.

Late—Maud Dean, The Harriott.

YELLOW

Early—Monrovia. Mid-Season—G. Pitcher, Col. D. Appleton, Mrs. William Duckham.

Late—Major Bonnaffon, H. W. Reiman, Yellow Eaton.

RED

Merstham's Red, Cullingfordii, Matchless, from 2 1/2 in. pots for immediate shipment, \$3.00 per 100; \$25.00 per 1000.

NEWER VARIETIES

From 2 1/2 in. pots, \$6.00 per 100. Rooted Cuttings, \$4.00 per 100. BASTICE MAY, mid-season white. Mrs. James Marshall, mid-season pink. Mayor Weaver, mid-season pink. Mrs. Swinburne, late white. Jaannie Nonin, late white. Early Snow, early white. Rosier, early pink. Old Gold, late yellow. October Frost, early white. Mrs. Clay Frick, (white Duckham), 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100.

BOUVARDIA

Turnboldii Corymbiflora, from 2 1/2 inch pots, \$5.00 per 100; \$45.00 per 1,000. This is the large White Jesmaria flowered. The best variety in cultivation.

COLEUS

VERSCHAFFELTII, Golden Queen, Golden Bedder, Fire Brand, Queen Victoria, fancy Coleus in variety, 2 inch pots, \$2.00 per 100; \$15.00 per 1,000. VERSCHAFFELTII, Golden Queen, Golden Bedder, 3 inch pots, \$3.00 per 100. The above in rooted cuttings 60c. per 100; \$5.00 per 1,000.

STEVIA

2 1/2 in. pots, \$2.50 per 100; \$20 per 1000. SALVIA, AGERATUM, HELIOTROPE, 2 inch pots, \$2.00 per 100; \$15.00 per 1,000.

A. N. PIERSON, CROMWELL, CONN

Baltimore, Md.

Our peonies and roses are now in full bloom with a tendency toward the decline by the end of the week, on account of the heat. At present there is a great glut in the market; the Exchange is piled up high with peonies, roses, carnations, sweet peas and various other cut flowers. Prices are a way down and stock is excellent; it is surprising how the Exchange manager, J. J. Perry, is getting rid of as much cut flower stock as he does under present conditions.

The club will have an outing to the private estate of Mr. Wm. Lanahan at Woodbrook. Mr. Lanahan's property is one of the best kept and most beautiful in this vicinity. Jacob Kepplinger is the gardener, and his work shows for itself.

Another beautiful spot is Uplands, the property of Mrs. Henry Barton Jacobs; Geo. Morrison is the gardener and manager of this estate, and has the property in an exquisitely fine condition.

Our boys are looking forward with great anticipation toward the S. A. F. Convention, and a goodly number of Baltimoreans and other Marylanders are sure to attend.

The Florists' Club held its regular meeting on Monday, June 24. President Fred. C. Bauer tendered a luncheon and smoker to the 40 members present; all of whom enjoyed the president's hospitality to the fullest extent. The question of exhibits and decorations at the Jamestown Exposition came up and was discussed at length. R. Vincent, Jr., gave an interesting talk on several topics which have been before the Gardeners' Club for some time; he also treated the members to an exceptionally well delivered biographical illustration of his life-work as a horticulturist. Mr. Vincent laid particular stress on the necessity of more harmonious action to further the various horticultural interests in the state of Maryland.

Phil. B. Welsh exhibited an exceptionally fine collection of gladioli.

The cut flower market continues in poor shape, more on account of excessive supply than anything else. The weather is very hot and the effect of it is beginning to show in the somewhat inferior quality of the flowers now coming in.

J. J. Perry and Mrs. Perry have gone to the Jamestown Exposition.

C. L. S.

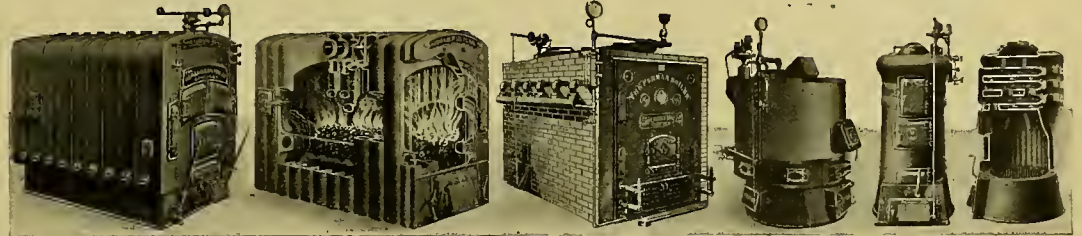
NEW BEDFORD, MASS.—There is a regular glut of flowers in this market just now. This week some peddlers were seen selling carnations at 20c. per dozen, and later in the day, 10c. per dozen. Roses are getting rather scarce, owing to most of the growers having planted young stock or drying off the old plants. There is plenty of Ten-week stocks on the market.

E. H. Chamberlin at 4 Purchase street had a bargain sale of carnations Saturday last at 25c. per dozen, retail. Mr. Chamberlin's lease on W. Y. Kroeber's place runs out next month. We understand that he will not renew it again.

There is some talk of James Cleary, manager for Wm. P. Pierce on Union street, buying out the business of E. S. Haskell on Pleasant street. This ought to make a good place with the right man in back of it. We all wish him success in his new undertaking.

HORTICO.

The Celebrated Furman Boilers



As an Investment, Furman Boilers return large Dividends in Improved Health, increased Comfort and Fuel Saved.

SELLING AGENTS:

John A. Scollay, 74-75 Myrtle Ave., Brooklyn, N. Y. Henton & Hubbell, Chicago, Ill.

Valuable Catalogue and Booklet "Warmth" mailed free. Address The Herendeen Manufacturing Company, Dept. F, Geneva, N. Y.

NEW YORK Office and Show Rooms 296 Pearl Street.

Seed Trade Notes

PROVIDENCE, R. I.—A notice from the trustees to the creditors of Rennie & Thomson says: "Very much to the gratification of all concerned, we are able to report that the plan to liquidate the business of Rennie & Thomson, dealers in seeds, garden implements, etc., 135 and 137 Washington street, proposed in a circular dated April 15, 1907, has been successful. More time was taken to convert the stock into money than was at first anticipated, but this delay has been due to the backwardness of the season, which has affected the seed business generally throughout the country.

"The firm of Rennie & Thomson will soon be dissolved, George C. Thomson retiring, but Mr. Rennie may continue the business and, if so, will inform you later of his location and business connections.

"We think it is due to Mr. Rennie and Mr. Thomson to say that they have done all in their power to make this settlement possible, and we bespeak for them on this account your favorable consideration in the future in any business dealings they may have with you."

Providence, R. I., June 25, 1907.

Hail Storms.

JOPLIN, Mo.—A hail storm swept this district on June 14, breaking much glass in the greenhouses of H. A. Hall. The plant of Edward Teas was in the storm's path, but escaped without so much as a broken pane.

ST. PAUL.—Business has begun to lag to a large extent. June weddings appear to be all over, and cut flower sales have dropped off materially. Funeral orders seem to be about all that is left, and some of the trade has had considerable work in that line of late. A great many orders for designs were received for the funeral of one of our prominent men who died a few days ago, but as the family objected, the different florists were requested to cancel the orders. Stock is, of course, plentiful, and the dealers have shown an inclination to accept almost any reasonable offer for it.

Bedding stock is beginning to play out; about all that seems to be left are geraniums; some establishments have a great many of these and quote special prices to close them out. A great many stores are still carrying heavy stocks of blooming plants, but as the demand is light, a considerable number is lost.

10,000 VINCAS—5,000 ROSES

Fine Vincas, from 2 1/2 in. at \$2.50 per 100; or \$22.50 per 1000.

BRIDE and BRIDESMAID ROSES, from 3 in. pots, at \$4.00 per 100; or \$25.00 per 1000. Good stock. Cash with order.

W. T. HILLBORN, 314 1/2 STREET NEWTOWN, PA. GARDENS.

Warrensburg, N. Y.

S. E. Prosser controls the entire florist business of this section. His nearest competitors are at Glens Falls. The Prosser plant consists of several well filled greenhouses, chiefly bedding plants. The demand for geraniums, vincas, and vines of all kinds for the hotels and Summer resorts along Lake George is considerable. Mr. Prosser gets a large portion of this trade. He has added a new house this Spring, and is to build two more additions as soon as he gets his bedding stock sold. Two new boilers will also be installed.

Buffalo, N. Y.

What is the matter with the Florists' Club getting together and appointing a committee to arrange for the annual picnic? By starting early we can have our outing the latter part of July or first part of August. The days are longer then than later in the season, and the excursion would be more enjoyable in every way.

PITTSBURG, PA.—Crossed electric wires in the basement of the store of Breitenstein & Flemm, Market street and Liberty avenue, last week caused a fire, resulting in \$100 damage.

WASHINGTON.—Summer came with a rush on June 15, and high temperature has prevailed ever since. With the advent of hot weather prices went down on all kinds of cut flowers, and the supply has increased. June 19 was one of the season's busiest days for the florist, as several of the high schools held their commencement exercises on that day; quantities of flowers were used. These commencements practically end the busy season, and with the expiration of June and the few weddings set for that month, the dull season will be on, and business slack until Fall.

John H. Davis, florist, of Chain Bridge Road, D. C., has been serving as a member of the Jury trying the celebrated cotton leak cases in this city. J. L. C.

SURPLUS

	Per 100	Per 1000
2000 Alternantheras, pink, 2 1/2 in.	\$2.00	\$15.00
2000 Alternantheras, yellow, 2 1/2 in.	2.00	15.00
2000 Coleus Victoria, 2 1/2 in.	2.00	16.00
2000 Coleus Tricolor, 2 1/2 in.	2.00	15.00
1000 Coleus Verschaefeltii, 2 1/2 in.	2.00	16.00
1000 Coleus J. Goody, yellow.		Per 500
500 Coleus Aurea, new dwarf golden, 2 1/2 in.	2.00	7.50
1000 Pyrethrum, Golden Feather, 2 1/2 in.	2.00	7.50
500 Geranium, double G. Grant, 4 in.	4.00	17.50
500 Geranium Salleri, 2 1/2 in.	2.00	7.50
500 Begonia Vernon, 2 1/2 in.	2.00	7.50
500 Begonia, pink, the best bedder for sunny positions, 2 1/2 in.	2.00	7.50
500 Ageratum, dwarf blue, 2 1/2 in.	2.00	7.50
300 Ageratum, dwarf white, 2 1/2 in.	2.00	4.50
600 Heliotrope, 3 varieties, 4 in.	4.00	21.00
500 Centaurea Glimmcarpa, 2 1/2 in.	2.00	7.50
200 Petunia, double red in bloom, 4 in.	4.00	7.50
400 English Ivy, 4 in.	4.00	14.00
100 Moon Vine, 3 in.	4.00	
200 Lobelia Crystal Palace Gem, 2 1/2 in.	2.00	

CARLMAN RIBSAM, Trenton, N. J.

SURPLUS STOCK CHRYSANTEMUMS ROOTED CUTTINGS Per 1000

Polly Rose, white	\$12.00
Clary of the Pacific, pink	12.00
Robert Halliday, yellow	12.00
Bergmann	12.00
Col. Appleton, yellow	12.00
Alice Byron, white	12.00
Bonnaffon, yellow	12.00
Bonnaffon, white	12.00
Jones, white	12.00
Jones, yellow	12.00
Chadwick, white	20.00
Chadwick, yellow	20.00
T. Eaton, white	12.00
Hein, Enguehard, pink	12.00
Hein, white	20.00
McArthur, white	12.00
GEORGE ATKINSON, Orange, N. J.	

SEED PANSY SEED

Brown's Extra Select Superb GIANT PRIZE PANSIES

AWARDED Silver Medal, St. Louis Exposition, 1904. It is a well known fact that my superior strain of Pansies is the finest in the market and has won prizes wherever exhibited. Flowers are from three to four inches in diameter; in beauty they are unsurpassable and in color they are incomparable.

My own grown seed, new 1907 crop ready.

Price mixed seed: 3000 seeds, \$1.00; 1-4 oz., \$1.50; 1-2 oz., \$2.50; 1 oz., \$5.00; 1-4 lb., \$14.00; 1-2 lb., \$25.00; 1 lb., \$50.00.

PLANTS READY SEPTEMBER 1
CASH WITH ORDER

PETER BROWN

Pansy Seed Grower

124 Ruby St., Lancaster, Pa.

ASPARAGUS PRIMROSES

60,000 Plumosus Seedlings	Per 100	\$1.00	Chinese, Forbesi, Ohconica, Alha and	Per 100	
Plumosus, 2 in. pots, July 10.....		2.00	Rosea, July 1.....		2.00
Sprengerl, 2 in. pots, ready.....		2.00	PANSY SEED, Large flowering, oz. \$4.00.		
ALTERNANTHERA, yellow and red 2.00					

CASH

JOS. H. CUNNINGHAM, DELAWARE, O.

ASPARAGUS GERANIUMS

Ready to Ship. Per 100
ROBUSTUS, 3 in. pots.....\$5.00
PLUMOSUS, 2½ in. pots..... 3.50
SPRENGERI and **SMILAX**
 (small) 1.50
 SEND FOR COMPLETE LIST **ALBERT M. HERR,** Lancaster, Pa.

CARNATIONS

Field Grown Plants,
 Rooted Cuttings and Pot
 Plants in season
SMITH & GANNETT, GENEVA, New York.

CARNATIONS FROM POTS

5000 The Queen, \$2.50 per 100; 500 Plamingo, \$2.50 per 100; 300 Lady Bountiful, \$3.50 per 100.
CANNAS, unnamed, 3-in., \$3.00 per 100; 4-in., \$4.00 per 100; **GERMAN IVY**, 2½-in., \$2.00 per 100; **ASPARAGUS Sprengerl**, 3-in., \$4.00 per 100.
 Cash with order.

S. G. BENJAMIN, Fishkill, N. Y.

JOHN E. HAINES

The Originator of three varieties:
 John E. Haines Carnations.....\$ 6.00 \$ 50.00
 Imperial " 12.00 100.00
 Pink Imperial " 12.00 100.00
 Headquarters at Bethlehem, Pa.
 Orders taken now for field-grown plants at same price as for rooted cuttings.
JOHN E. HAINES, Bethlehem, Pa.

CARNATIONS

F. DORNER & SONS CO.
 LAFAYETTE, IND.

MABELLE

Grand New Pink Carnation for 1907. A few thousand R. C. and pot plants still left. Order quick. This variety is a money maker.
 Price of rooted cuttings, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000.
 Price of pot plants, 2½ inch, \$3.00 per doz.; \$15.00 per 100.
THE H. WEBER & SONS CO., OAKLAND, MD.

S. J. GODDARD

Framingham, Mass.
 Rooted Carnation Cuttings a Specialty.
 Correspondence Solicited.

Chrysanthemum Stock

2¼ in. pots; nice, young plants.

Polly Rose, Pacific, Bonnaffon, Dr. Enguehard, Pink Ivory, Ivory, Col. D. Appleton, T. Eaton, Mrs. Robinson, J. K. Shaw, J. E. Lager, H. Paar, Jerome Jones, Minnie Bailey, R. Halliday, Nellie Pocket, Maud Dean, George Kalb, \$2.50 per 100; \$20.00 per 1000.

Offer for the first time also my extra good yellow chrysanthemum, **ZIM-**

MER'S YELLOW, best yellow in Philadelphia market; and the **JEAN-NIE NONIN**, extra fine plants, in great quantity, and \$3.00 per 100.

Also have a very large stock of the best commercial kind of **POMPON** on hand, such as: **Baby, Klondike, La Purity, Goldfinch, Ethel, Tennyson, Diana, Monifica** and **Allene**, at \$2.00 per 100.

Cash with order please.

CHARLES ZIMMER

WEST COLLINGSWOOD, N. J.

A FEW GOOD THINGS YOU WANT

Cash with Order.
Asparagus Plumosus, 2 in., \$3.00 per 100; 3 in., \$5.00 per 100.
Asparagus Sprengerl, 2 in., \$2.50 per 100; 3 in., \$5.00 per 100.
Geraniums, S. A. Nutt, John Doyle, Perkins, Ricard, Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; 3 in. \$5.00 per 100. Rooted cuttings, \$1.25 per 100; E. H. Trego, Castellane, Poltevine and Vlaud, 2 in. pots, \$3.00 per 100; 3 in. \$5.00 per 100.
Rex Begonia, nice plants, 2 and 2½ in., \$5.00 per 100.
Gladiolus, blooming bulbs extra fine mixture, to close out while they last, 60c. per 100; \$5.00 per 1000.
Heliotrope; Colcne, red and yellow; Cigar Plants; Alternanthera, red and yellow; Verbena; Scarlet Sage, Bonfire, 2 in. \$2.00 per 100.
 Cash with order; no C. O. D. All shipments at the risk of purchaser after being delivered to Express Co.'s properly packed in good order.
 100 Boxes American Greenhouse Glass, 16x16 and 16x18 B. D. T., \$3.25 per box.
F. O. B. Newton.
GEO. M. EMMAUS, NEWTON, N. J.

Alternanthera

P. Major, 2-in., 2c. **Aurea Nana**, **Bo-see**, 2-in., 2c.
AGERATUM, Pauline, Gurney, 2-in., 1½c.
ASTERS, Semple's, pink, white, crimson, and purple, \$3.00 per 1000.
CENTAUREA GYMNOCARPA, Dusty Miller, 2-in., 1½c.
COLEUS, Golden Bedder and Verschaffeltii, etc., 2-in., 1½c.
HELIOTROPE, dark, 2-in., 1½c.
STEVIA, dwarf, 2-in., 2c.
ROOTED CUTTINGS, prepaid per 100.
Ageratum, Gurney, 60c. **Salvia**, Bonfire, 90c. **Alternanthera**, 3 kinds, 50c.
Flowering Begonias, 8 kinds, \$1.25.
Coleus, 10 kinds, 50c. **Swainsona Alba**, \$1.00. Cash or C. O. D.
BYER BROS., Chambersburg, Pa.

To Clean Up Surplus Stock

WE OFFER THE FOLLOWING:
AGERATUMS, 2½ in., \$2.50 per 100.
ALTERNANTHERAS, 2 in., red and yellow, \$2.00 per 100.
BEGONIAS, 3 in., flowering, \$4.00 per 100.
LOBELIAS, 2½ in., dwarf and trailing, \$2.50 per 100.
GERANIUMS, 3½ in., standard varieties, \$7.00 per 100.
SALVIA, 3½ in., Splendens, bushy plants, \$7.00 per 100.
HELIOTROPES, 3½ in., \$7.00 per 100.
IVY GERANIUMS, 4 in., \$8.00 per 100.
 CASH WITH ORDER.

DENYS ZIRNGIEBEL, Needham, Mass.
GREENDALE CONSERVATORIES
 Established 1865.

HELIOTROPES FOR SALE

2-3½ and 4 in. pots, strong, bushy plants, just coming in bloom, \$2.00, \$4.00 and \$5.00 per 100.
 Cash with order, please.

PATERSON ROSE COMPANY, Paterson, N. J.

CYCLAMEN

Splendens Giganteum Hybrids
 This strain has no equal or better, in five true colors, including fringed varieties, well grown plants, from 2½-in. pots \$5.00, from 3-in. pots \$7.00 per 100. Satisfaction guaranteed.
PAUL MADER,
 East Straudsburg, Pa.

ASTERS

Semple's, 5 colors, by mail 40c. per 100; \$3.00 per 1000 by express.
PHLOX, dwarf compacta 2 in., Per 100
CENTAUREA GYMNOCARPA, (dusty miller) 2 in. 2.00
ZINNIAS, fine double, 2 in. 1.00
COSMOS, early dwarf and giant, 2 in. 1.00
ASPARAGUS Sprengerl, strong, 3-in., \$5.00 per 100; 2-in., fine, \$2.50 per 100.
 Cash with order please

GEO. J. HUGHES, Berlin, N. J.

Aster Plants

Semple Branching and Queen of the Market, fine plants grown from the best seed, \$2.50 per 1000; 5000 for \$10.00.

J. C. SCHMIDT, Bristol, Pa.

SEMPLER'S ASTERS

Field-grown, ready to plant out. White, Shell Pink, Bright Pink and Purple, \$2.60 per 1000. Olmstead's White, best second early ASTER for florists' use la cultivation \$2.00 per 1000.

A. & G. ROSBACH, Pemberton, N. J.

FOR SALE

2,000 **Asparagus Sprengerl**, from bench, 2 and 3 years old, \$6.00 per 100 and \$50.00 per 1,000.
 Cash with order.

DE PEW BROTHERS
 Cor. Piermont and De Pew Aves, Nyack, N.Y.

400 PETUNIAS

ROSE QUEEN in bloom, from 2½ in. pots, to close out, \$1.50 per 100; or \$5.00 for the lot.

J. S. BLOOM, Riegelsville, Pa.

BOHN SYPHON REFRIGERATOR

..FOR FLORISTS..

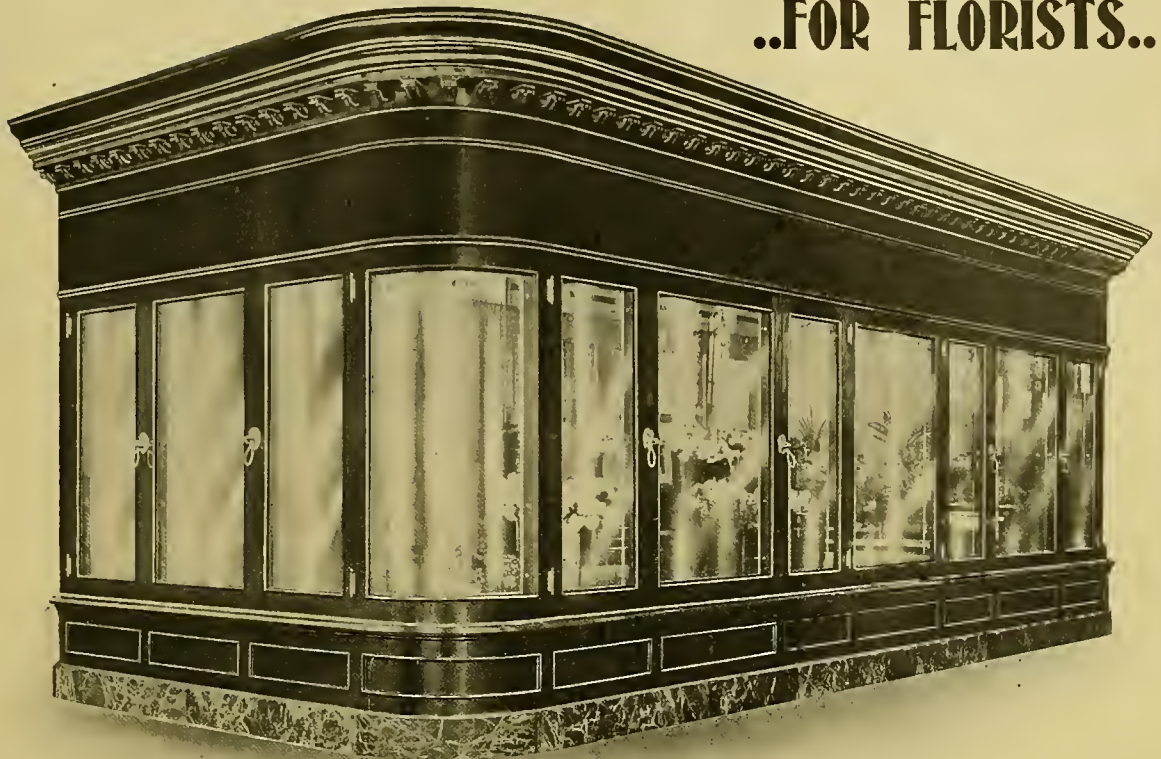
St. Paul, Minn., May 10, '07.
WHITE ENAMEL REFRIGERATOR Co., St. Paul.

Gentlemen:—We have now used the new show case which you installed for us about six months ago. We can say that it is everything you promised for it, and that is "perfection."

We don't know what else we could say except the first case which you built for us about seven years ago helped materially to our success. Your system is certainly ideal for keeping flowers.

The workmanship on this new case could not be better. We have had people say, "Why that is more finely finished than our piano."

Yours truly,
HOLM & OLSON.



STYLE "L" BUILT FOR HOLM & OLSON, ST. PAUL, MINN.

A Live Florist Cannot Afford to be Without a Bohn Patent Syphon Refrigerator.

Everyone who is familiar with it says 'It is the Ideal Florist's Refrigerator.'

Write for Catalogue, Dept. No. 36.
Manufactured by

WHITE ENAMEL REFRIGERATOR CO., St. Paul, Minn.

New York.

News of the Week.

From the advance sale of tickets, it is evident that the seventh annual outing of the New York Florists' Club is to eclipse all previous records. The steamer Isabel will leave the dock at Thirty-first street and East River at 10 a. m., Tuesday, July 2. As all preparations are now made, and tickets purchased by those intending to go, the only thing that can mar the event will be a day of had weather—a very unlikely happening at this time of year.

With the end of this week come the close of the school season and commencement exercises, and so far as this city is concerned, the retail business is about over for the time being. It is a noticeable fact that the graduation exercises of the various schools do not bring so much grist to the florist mill as was the rule in former years. Time was when baskets and bouquets were made by the thousands and sent by wagon loads, one might almost say, to many of the surrounding towns; but the present heads of our educational establishments do not favor, in fact, many of them prohibit altogether, the giving of flowers to graduates, not be-

cause flowers are not thought to be appropriate gifts on such occasions, but chiefly, we believe, because they are the cause of many sad moments to those graduates who have not a circle of friends wealthy enough to remember them with flowers on their graduation day.

Phil. Kessler, who recently went to Jamestown, Va., to take in the exposition, returned very much disappointed with what he saw. He thinks that one day there is a long enough visit for any one to see everything that is to be seen, and that by the first of September the exposition will perhaps be worth paying a visit.

Louis Lundberg, a youth of 16 years of age, has been arrested for stealing \$60 out of the safe of James McHutchison, 17 Murray street. The theft occurred on May 10. The young man having advertised for a position, secured one with Mr. McHutchison; he stole the money out of the safe the first time he was left alone in the office while the safe was open. Other charges of a similar nature were proved against him, and he has confessed to working the scheme on other employers with whom he secured positions through advertising in the daily press.

The greenhouses so long owned and operated by Edward L. Cook, Madison, N. J., are being torn down and removed. Mr. Cook having discontinued his rose growing business entirely.

John Nash of the firm of Moore,

Hentz & Nash, wholesale florists, is spending the Summer at Sea Cliff, L. I., with his son-in-law, John Kral, who is with the same firm, is summering at Port Chester, and on Monday, July 1, he will place in commission his motor boat which he has owned for several years.

Henry Rickards, one of John Raynor's employees, met with a very painful accident on Sunday last. A number of the young men of the wholesale district went to Winfield, L. I., on that day to enjoy a friendly game of baseball, and a foul ball from the point of the bat struck Mr. Rickards squarely in the eye making a very serious and dangerous wound. It is hoped that his sight will not be permanently injured, although the results cannot as yet be fully ascertained.

Friends of John Miesem, the florist of Elmhurst, L. I., have received souvenir cards dated from Cherbourg, France, informing them of his safe arrival there. Mr. Miesem intends to spend the Summer making a tour of Europe.

Anton Schultheis, College Point, L. I., leaves next Tuesday, July 2, on the Kaiser Wilhelm der Grosse for an extended trip through Europe.

J. S. Fenrich was in Boston last week in company with Charles H. Totty, and reports having had a delightful time among the craft there, enjoying particularly an automobile ride through the park system.

Several weeks ago Mrs. Chamber

Prentice, the wife of a Chicago doctor, died on board the Koenigen Luise while voyaging from Europe to this country, and the funeral took place at sea. On the return trip from these shores the captain of the vessel took a magnificent box of flowers, and when the liner passed the spot where the body of Mrs. Prentice had been cast into the sea, the flowers were silently lowered and sent adrift over the unmarked grave.

The Stump & Walter Company, seedsmen, 50 Barclay street, have been making a fine display of strawberries in their show windows this week.

Henry Kallen, representative of H. Frank Darrow, will sail for Holland on Wednesday, July 3, to assist in selecting and packing their Fall shipments.

W. F. Ross, traveler for F. R. Pierson Company, Tarrytown, N. Y., leaves today (Saturday) on the steamer Columbia for a visit to Edinburgh, Scotland.

At the annual trade auction sale of plants for growing on purposes at Wm. Elliott & Sons, which was held on Tuesday, June 25, the attendance from out of town was large and unprecedented, buyers coming from such distances as Holmsburg, Philadelphia and other points in Pennsylvania, and from Rhode Island. The sale itself consisted of much choice stock, and was the biggest annual trade sale on record. W. J. Elliott, the popular auctioneer, feels much gratified with the success he has had since introducing this annual event, and notes with great pleasure its ever increasing popularity.

Prices Advertised in these Columns are for THE TRADE ONLY—When Writing Please Mention THE FLORISTS' EXCHANGE.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 WEST 28th STREET, - - - NEW YORK
Telephone: 3559 Madison Square
CONSIGNMENTS OF CHOICE CUT FLOWERS SOLICITED. PROMPT PAYMENTS. GIVE US A TRIAL

REVIEW OF THE MARKET

NEW YORK.—The flower business is undergoing its usual transition into summer dullness, and demands are exceedingly light. There has been a little call for flowers for commencement purposes this week, but so few were they compared with the extravagant demands that used to obtain during the last week in June, and the market was so overloaded with stock of almost every kind, that prices have steadily gone downward.

Peonies are in overwhelming quantities, and such a thing as a fixed value for them is entirely out of the question; buyers are urged to take them out of the way and make their own prices. Roses are very little better as a general thing; 7,000 excellent roses of Number one grade throughout, and perfectly fresh, were sold one morning this week for \$21, that gives a better idea of conditions than any other thing we know of. American Beauty of special grade are not plentiful, consequently prices on these have not suffered to the extent they have done in the case of other varieties; 20c. each was the asking price during the week, though 15c. was taken.

Carnations are as yet extremely plentiful and of excellent quality, considering it is almost July and we are having a genuine hot wave; \$1 per 100 has been the outside price for the best, and from that values have ruled down to 25c.

Lilies are another commodity that have gone down in popularity, and are bringing \$1 and \$2 per 100 only. Sweet peas also are too plentiful, and 1 1/4c. and 2c. a bunch is considered good sales.

Stocks, snapdragon and lily of the valley are all in heavy supply for the demand, and no fixed prices obtain. A few gladioli are arriving, but there seems to be no call for them as yet; 50c. per bunch of twelve is being asked for them.

Summer is here in earnest. The weather is hot and early closing is the rule. A sign on W. H. Siebrecht's stand in the Cut Flower Exchange reads to the effect that the stand will be closed for two weeks dating from July 6.

ST. LOUIS.—The season for social affairs, weddings and school closings is now at an end, and the trade can go ahead and make preparations for the next season without being disturbed. The week just past was a good one for business—the last one of this season, we might say. The last of the wedding and school work was made up; also a number of large floral designs for funerals were reported. There is no trouble to get stock for any kind of a job just now, as the wholesaler is loaded down with fairly good stock of all kinds and everything that is in season. About the only scarcity in fancy stock is roses; other grades, though, are plentiful, with prices very low. The best roses bring only from \$2 to \$5 per 100 in large lots; from 50c. to \$1 per 100 for seconds. American Beauty have good stems, but poor blooms; the best only bring \$3 per dozen; other grades from 50c. to \$1.50 per dozen.

Carnations are also more abundant than the demand has any use for and are selling very cheap; extra fancy bring \$2, with others at from 50c. to \$1 per 100.

Sweet peas are a great glut, coming in 10,000 lots, mostly from our Kirkwood growers. Prices can hardly be quoted as all the commission men are loaded down with the stock, with no heed of holding them over for next day, as the fresh ones would sell first.

Lily of the valley had a good call last week, but it is now slackening up. Everything in greens sells well; fancy ferns are again in this market at \$2.50 per 1000. ST. PATRICK.

PHILADELPHIA.—The flower market condition is a very poor one; there is a perfect glut of all kinds of stock. The commission men report that they are throwing away more flowers than they are selling. Under such conditions prices are really not worth reporting. Carnations are selling at from \$2.50 to \$4.00 per 1000, thousands remaining unsold even at those figures. Sweet peas are about in a similar state. Plenty of flowers cannot be put into water, being kept in the boxes, and if not sold the first day are thrown out. D. R.

CHICAGO.—To any inquiry as to the condition of the market within the past week the stock reply of the dealers has been, "There is no market." The annual glut was on, and it was all and more than the word implies. Roses, carnations and peonies were overwhelming the market at every point and it seemed impossible to get relief because shipments were constantly piling in. The local trade made but little impression on the stock, and though many goods were shipped it was to the vendors, the job lot bunters, that dealers were compelled to look for relief.

The week of genuine Summer weather has made a decided impression on the quality of goods arriving the opening of this week, showing a very decided decrease in quantity, especially of good stock, which on Sunday and Monday found a ready market. W. K. W.

INDIANAPOLIS, IND.—The large quantities of flowers in this market last week have lessened perceptibly the past few days. The weather remains favorable, but the plants have bloomed themselves out so that another overproduction is not probable this season. Funeral work constitutes three-fourths of the business, as counter trade is very light. The last week of the wedding month calls for numerous decorations and bouquets. White sweet peas, lily of the valley and white roses are in constant demand for these occasions.

Carnations, which have held up so admirably, are depreciating rapidly in quality and price. Several of the growers are preparing to empty their houses. The best grades of carnations are bringing \$1.50 to \$2 per hundred. Summer roses are much superior. Kaiserin Augusta Victoria, La France and Souvenir du President Carnot of excellent quality, wholesale at \$4 to \$3 per hundred; short ones for funeral work often find a ready market at \$1.

The peony season, just ended, was not a profitable one, as the expenses were not realized. Field grown sweet peas henceforth will constitute the staple article, at 50c. to 75c. per hundred. Generally they are retailed at 25c. per bunch of thirty. Callas and Harrisii lilies are not to be had, though there is constant demand for them. Field daisies find favor with amateur decorators as they are cheap and effective. Good fern leaves are still a problem as many of those on hand are very coarse. I. B.

ST. PAUL.—Trade continues good, and so far it begins to look as though this June will be the best we have had in years. The late Spring has helped wonderfully and up to the present time we have had nothing whatever in the way of outdoor flowers, with the exception of a few lily of the valley, which are not good. Funeral work has also been very heavy and comes at a time when stock is plentiful, consequently good profits are made. Roses of all varieties are indeed plentiful and are quoted by the growers at very low prices; the retailers have not reduced their figures as yet. Carnations are also quite abundant, but are beginning to get much smaller. The trade has not as yet found it necessary to drop the price below 75c. per dozen and they buy carnations at \$1.50 and \$2 per 100. Considerable planting is still being done and at an increased price over last year. Public institutions are doing more in this line than ever before; furthermore the railroads have adopted a plan of planting beds and vases at nearly all their prominent depots, which greatly increases the demand. PAUL.

NEWPORT, R. I.—Business was better all through last week than it has been since Easter. Stock though plentiful is not so to the extent of glutting the market; in fact occasionally there is even some difficulty in filling orders for roses and carnations of the best quality. Prices are good.

Palms and foliage plants are scarce and higher in price than usual; there is a strong demand for large keas and specimen plants of the various forms of nephrolepis. Pandanus Veitchii and well-colored crotons and dracaenas are also called for. All the large plants of hydrangeas in tubs have been picked up quickly. Bay trees will be called for in large numbers in a few days. D. M.

BOSTON.—Business last week was fairly good for this season. On the whole, it has been better than during the previous week. Of course, there is an abundance of flowers of all kinds. Some very good American Beauty roses have been in the market and there has been a good demand for certain grades. Other good roses at present are Richmond, Wellesley, Souvenir du President Carnot and Kaiserin Augusta Victoria, but many roses can be bought very cheaply. Carnations continue to be good, several growers making a specialty of having them in fine shape at this season.

Peonies are very plentiful, and there has been a fairly good demand for the better grades. Lily of the valley has been good. Spanish Irises have been used a good deal. Sweet peas are plentiful, though none from out of doors yet. J. W. D.

BUFFALO, N. Y.—The weather the past week has been fine. This is what all the greenhouse men have been waiting for, as they have been complaining about the slowness of the season being along. However, greenhouse people report the best business in years. All the prominent dealers are buying bedding stock by the hundreds to fill orders. It has only been the weather which has held trade back, and now everybody is rushed. Mr. Newland has experienced the largest trade in his line this year, which is composed principally of cemetery vases and bedding stock. The Wm. Scott Company reports a similar brisk business. Robert Aerts of West Seneca reports business exceedingly good in the plant line.

The racing season opening in Buffalo was the cause of the local florists trimming their windows for the occasion. W. J. Palmer showed a racing saddle made entirely of flowers. S. A. Anderson had a picture of a horse in a frame trimmed with flowers and small lights. W. J. Palmer's branch showed a handsome horseshoe made of carnations. W. H. G.

KALAMAZOO, MICH.—Business is still moving along at a nice pace, although last week saw the finish of the bedding plant trade. Trade has been most satisfactory as far as volume is concerned, and the number of plants disposed of will equal or exceed the sales of any previous year; but I am doubtful if the ratio of profit is maintained.

Cut flowers are still in considerable call for funeral and other uses and the retailers seem satisfied with business done; with the school commencements just now at hand there will no doubt be quite a strong demand during the balance of the month. Prices have dropped now to Summer values and roses and carnations are offered at 50c. and 25c. per dozen.

Planting in of roses is now being pushed vigorously and by the next week this laborious job will be over with most of the growers. The field-grown stock, like asters and carnations, is making a nice growth and the prospects for decent stock of the latter for planting becomes more encouraging as the season advances. The fruit crop, however, will be a small one in Western Michigan, and city dwellers are likely to pay dear for all kinds of fruit this year, with the possible exception of grapes.

The Dunkley Floral Company is busily engaged in closing out its entire stock of plants, etc., previous to dismantling the buildings. S. B.

CHANGES IN BUSINESS.

BANGOR, ME.—The Main street flower store of the Mt. Desert Nurseries has been opened for the season.

FRUITDALE, ALA.—The Floral Company and the Buckatunna branch has been merged into one, with the entire plant here.

PORTLAND, IND.—The Portland Nursery Company has been incorporated, capital, \$10,000; directors, Mary A. Wright, J. M. Snade and J. A. Showalter.

MAYWOOD, ILL.—The Albert F. Amling Company has been incorporated, capital, \$50,000; nursery and greenhouse business; incorporators, Albert F. Amling, William Collatz, Caroline Amling.

EL PASO, ILL.—A. H. Wolk and Fred Crane will engage in the florist business, building greenhouses, each 100x200 feet. Carnations will be a specialty of the firm, which hopes to erect more houses at an early date.

CHADWICK, ILL.—Floyd Davis has closed his greenhouse here and returned to his home in Polo, N. Y. Lambert of Savanna now owns the building and will soon tear it down and move it to Savanna.

LACON, ILL.—S. S. Holman will again engage in the florist business here. Mr. Holman, while in this city before, became afflicted with what was said to be gangrene of the foot and it was thought for a time an amputation would be necessary, but we are pleased to say that he is now almost as well as ever.

ROSTERN, SASK.—The Duck Lake Nursery Company with a capital of \$30,000 is being formed with Hillard Mitchell, a well known Duck Lake citizen as president. The company already has one hundred and fifty thousand fruit trees planted. The nursery is located half a mile from Duck Lake Station.

BRIDGEPORT, CONN.—Julius Reck has removed his business from 25 Astley street to Brooklawn avenue, a short distance northeast of Brooklawn Park. Increasing trade demands more room and better facilities; space is also afforded at the new location for the growing of a complete assortment of hardy plants, which in future will form an attraction on the grounds.

DES MOINES, IA.—Charles Worth of the Bloomfield Coal Company and D. H. Kooker of the East Des Moines Commercial League have organized the Grandview Nursery and Orchards Company and capitalized the organization at \$50,000. Title to property south of Grand View Park has been secured and will be devoted to growing fruit trees. H. P. Holmes is named as one of the incorporators with Mr. Kooker and Mr. Worth.

NEW BEDFORD, MASS.—James H. Cleary, manager during the past five years for William P. Peirce, florist, has bought out the business of Edward S. Haskell at 7 Pleasant street, and will start in at once in his new field of labors. Mr. Cleary is well advanced in his vocation, having been employed eight years by William Peirce, five years by H. A. Jahn and five years by William P. Peirce. A specialty will be made in the bird and fish supply line.

SCHOOLCRAFT, MICH.—The Schoolcraft Forcing Houses is the name of a new concern, organized by a Grand Rapids Company, to build greenhouses for the purpose of raising flowers and all kinds of fancy Winter vegetables to compete with the Southern growers. Leo Cropsion and Chauncey Simonds, two young men who received their training at the M. C., will build two greenhouses, 23x100 feet, this Summer and they expect eventually to cover several acres with greenhouses. It is expected that the first vegetable crop will be ready for December or early January trade.

FIRMS WHO ARE BUILDING.

PARIS, O.—C. M. Mitchell is building a greenhouse here.

NORTH TEWKSBURY, MASS.—Jessie Tull will erect this Summer, a greenhouse, 30x150 feet.

LINCOLN, ILL.—The Gullet Company is tearing down two of the old greenhouses and will replace them with new modern structures.

MADRYEN, N. H.—Wm. H. Elliott is putting in the foundation for another mammoth greenhouse; the new building will be erected alongside of the first one.

LAFAYETTE, IND.—Fred Dornier & Sons Company have broken ground for the erection of five greenhouses, each 200 feet long and 28 feet wide. All will be completed.

ATHOL, MASS.—George W. Sutherland is about to erect another new greenhouse, 100 feet long and 17 feet wide, to be used mostly in the cultivation of chrysanthemums. This will make six large greenhouses on his place.

BUSINESS DIFFICULTIES.

CAMBRIDGE, MASS.—Arthur Clark, florist, has filed a voluntary petition in bankruptcy. His liabilities amount to \$4,795, of which \$117 is secured. There are about 70 unsecured creditors and no assets.

FOND DU LAC, WIS.—Carl H. Johansen, who filed a petition in bankruptcy at Milwaukee recently, wishes it understood that the South Main street florist store with which he is connected in this city is not involved in the proceedings. The local store is conducted in the name of G. Johansson and has no connection with the Milwaukee business which is now in the courts.

Visitors to the Elks and S. A. F. Conventions

To all FLORISTS and members of allied trades, the S. S. PENNOCK-MEEHAN CO. extend a cordial invitation to make their headquarters with them where telephones, stenographers and general information regarding points of interest, etc., will be at their command.

S. S. PENNOCK-MEEHAN CO., 1608-1618 Ludlow St., Philadelphia

The Largest Stock of BEAUTIES Of the Choicest Quality

Commencing Monday, July 1st, we will close every day at 6 o'clock p. m. Store open at 7 a. m.

THE LEO NIESSEN COMPANY, 1209 Arch Street, PHILADELPHIA, PA.

"EXTRA FINE LILIES, ROSES and CARNATIONS"

PITTSBURG CUT FLOWER CO., LTD.

222 OLIVER AVENUE PITTSBURG, PA.

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BOOKS

GARDENER'S ASSISTANT, \$15.00 Write for Prospectus VIOLET CULTURE, 1.50 THE HEATHER, 1.50 AMERICAN CARNATION, 3.50 PLANT CULTURE, 1.00 HOUSE PLANTS, cloth 1.00 " " paper .50 RESIDENTIAL SITES, 2.50 TELEGRAPH CODE, 2.50 Book of Water-Gardening 2.50

A. T. De La Mare Ptg. and Pu b. Co. Ltd., N. Y.

Cincinnati, O.

News Notes. Hail smashed, at the lowest estimate, one-third of the glass of W. K. Partridge, Lockland, O., which consists of one hundred thousand feet, wrecking all northern exposures and ruining the stock underneath. This storm passed over Lockland, and especially Mr. Partridge's greenhouses, at about 4 p. m., Friday, June 21. Stones as large as walnuts caused the destruction, and one hour after the ground was still well supplied with the icy pebbles. Mr. Partridge did not carry hail insurance. (John G. Esler, please take notice.) The total damage will reach close to \$8,000.

We are all working like Trojans now every morning putting away stock and selling all we can. Carnations are in heavy supply, and are selling at 25c., 50c., 75c., \$1 and \$1.50 per 100; it is impossible to move them all before they become tired and sleepy. Saturday last the thermometer registered 90 degrees in the shade. It is useless to name prices on stock. Roses (good ones) are getting just a little scarce now, but as business is also slow, it matters not. Bedding stock is becoming scarce, as the growers are well sold out. C. J. Ohmer returned last Monday evening from the Pacific Coast and Yellowstone Park.

E. G. G.

SAN FRANCISCO, CAL.—Referring to the alleged attack on a Japanese horticulturist at Berkeley, Thomas G. Walker, representing the Japanese Association of America, states that it was a trivial affair. Some boys had thrown a few stones at a greenhouse belonging to a Japanese, but the damage was slight, and the association would take no action in regard to the incident, leaving the local authorities to deal with the offenders. The daily press alleged that the damage had resulted in "the destruction of a greenhouse and other property. This has fanned the flame of indignation already strong here, and has served to confirm the popular belief that violence of the kind is not accidental, but the result of a deeply rooted feeling against the Japanese."

TOLEDO, O.—Searles Brothers are suing Arthur Cowdrick for \$10,000. They allege that because of his inefficiency and delay when employed to superintend the erection of their greenhouse, they lost an entire crop of lettuce and cucumbers. Cowdrick has brought suit for \$4,500 as his compensation for superintending the work, but the greenhouse proprietors set up a counter claim for \$10,000 for the loss of the crops and because of the alleged inferior character of the work.

Wholesale Prices of Cut Flowers—Per 100

Table with columns for cities (Boston, Buffalo, Detroit, Cincinnati, Baltimore, Milwaukee, Philadelphia, Pittsburg, St. Louis) and rows for various flower varieties (A. BEAUTY, BRIDE, GOLDEN GATE, etc.) with prices per 100.

BOSTON, MASS.

Asparagus Plumosus Mignonette Lil. Herrisil Brides, 'Maid's American Beauties City Hall Cut Flower Market 226 Devonshire Street.

PHILADELPHIA CUT FLOWER CO.

WHOLESALE FLORISTS 1516-18 SANSOM STREET High Grade Cut Flowers Store opens at 7:30 A. M. Closes at 6 P. M. Saturday at 1 P. M.

EDWARD REID

Wholesale Florist 1526 Ranstead Street, PHILADELPHIA Bet. Market and Chestnut Streets. CHOICEST STOCK ALWAYS ON HAND Telephone: 1-42-26-A.

Headquarters in WESTERN NEW YORK For Roses, Carnations



And all kinds of Seasonable Flowers. WM. F. KASTING CO. Wholesale Commission Florists 383-87 Ellicott St. BUFFALO, N. Y. Give us a trial. We can please you.

June 29, 1907

Long Distance Phone Central -6004.

E. F. WINTERSON CO. Ketchikan 1814

45-47-49 Wabash Avenue, Chicago.

Wholesale Cut Flowers and Florists' Supplies.

Shipping Orders Our Specialty.

Do you receive our Weekly Cut Flower Price List? IF NOT WRITE US.

The Leading Florists' Supply House of the West.

Supply Catalogue mailed on request. We carry the Largest Stock of Florists' Supplies in the W

Be your own Commission Man

THE

FLOWER GROWERS MARKET

furnishes the facilities

See PERCY JONES, Mgr.

60 Wabash Ave. CHICAGO

THE BUSIEST HOUSE IN CHICAGO

J. B. DEAMUD CO.

Wholesale Cut Flowers

51 Wabash Av., CHICAGO

Consignments Solicited

WIETOR BROS.

WHOLESALE GROWERS OF

CUT FLOWERS

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO

E. G. HILL CO.

Wholesale Florists

RICHMOND, INDIANA



CHICAGO ROSE CO.

Rose Growers and Commission Handlers of Cut Flowers

FLORISTS' SUPPLIES

Wire Work our Specialty

56-58 Wabash Ave. Chicago

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Wholesale Growers and Shippers of

CUT FLOWERS

51 Wabash Ave., CHICAGO.

Room 218. L. D. Phone 3284 Central

All Leading Varieties of Roses and Carnations

PETER REINBERG

Wholesale Cut Flowers

51 Wabash Ave., CHICAGO, ILL.

Headquarters for American Beauty Rose

SINNER BROS.

WHOLESALE CUT FLOWERS

60 Wabash Ave., Chicago.

Careful attention to all

SHIPPING ORDERS.

A. L. RANDALL CO.

Western Headquarters for

Up-to-Date Florists' Supplies

Write for Catalogue

No. 19 RANDOLPH ST., - CHICAGO.

GEO. REINBERG

Wholesale Grower of **Cut Flowers**

CHOICE AMERICAN BEAUTY ROSES

We will take care of your orders at reasonable prices. Prompt attention.

35 Randolph Street, CHICAGO, ILL.

Chas. W. McKellar

ORCHIDS

FANCY VALLEY, ROSES, CARNATIONS, and all CUT FLOWERS and GREENS

51 Wabash Ave., Chicago

VAUGHAN & SPERRY

Wholesale Florists

Valley, Carnations and Roses

58-60 WABASH AVE., CHICAGO.

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty... WHOLESALE GROWER OF **CUT FLOWERS**

Wholesale Prices of Cut Flowers, Chicago, June 25th, 1907

Prices quoted are by the hundred unless otherwise noted

ROSES		CARNATIONS	
American Beauty		STANDARD	
38-inch stems.....per doz.	..... to 8.00	White.....	.50 to 1.00
30-inch stems....."	..... to 2.50	Pink.....	.50 to 1.00
24-inch stems....."	..... to 2.00	Red.....	.50 to 1.00
20-inch stems....."	..... to 1.50	Yellow & var.....	1.00 to 2.00
18-inch stems....."	..... to 1.00	*FANCY White.....	1.00 to 2.00
12-inch stems....."	..... to .75	(The high Pink.....	1.00 to 2.00
8-inch stems and shorties	..... to .50	est grades Red.....	1.00 to 2.00
Bride Maid, fancy apical.....	..... to 6.00	of Sta'd var. Yellow & var.....	1.00 to 2.00
" extra.....	..... to 5.00	NOVELTIES.....	..... to
" No. 1.....	..... to 4.00	ADIANTUM.....	.75 to 1.50
" No. 2.....	..... to 3.00	ASPARAGUS, Plum & Ted.....	.85 to 1.00
Golden Gate.....	3.00 to 6.00	" Sprenger, bunches.....	.85 to .50
Uncle John.....	3.00 to 8.00	LILIES, Longiflorum.....	8.00 to 12.00
Liberty.....	3.00 to 8.00	" Candidum (splkee).....	..... to 8.00
Richmond.....	3.00 to 8.00	Orchids—Cattleyas.....	..... to 50.00
Killarney.....	3.00 to 6.00	SMILAX.....	12.00 to 16.00
" extra.....	6.00 to 8.00	LILY OF THE VALLEY.....	2.00 to 4.00
Pearl.....	3.00 to 6.00	HARDY FERNA per 1000.....	1.50 to 2.00
Onatony.....	3.00 to 6.00	GALAX.....	1.00 to 1.25
Callas	8.00 to 10.00	PEONIES.....	1.00 to 5.00
Mignonette.....	2.00 to 6.00	SWEET PEAS.....	.25 to 1.00
FORBET-ME-NOT.....	..... to .50	.....	.....

Poehlmann Bros. Co.

Wholesale Growers of and Dealers in **Cut Flowers.**

All telegraph and telephone orders given prompt attention.

Greenhouses: 35-37 Randolph St. MORTON GROVE, ILL. CHICAGO.

ST. PAUL, MINN.

Send us your Orders for delivery in the Northwest, which will have our best attention.

L. L. MAY & CO.,

Florists, St. Paul, Minn.

HOLTON & HUNKEL CO.

WHOLESALE FLORISTS and FLORISTS' SUPPLIES

Manufacturers of WIRE DESIGNS

457 Milwaukee St., MILWAUKEE, WIS.

*Phone, Main 874. P. O. Box 103

WHOLESALE CUT FLOWERS and FLORISTS SUPPLIES

C. C. Pollworth Co.

Milwaukee, Wis.

Your Money is well spent when you advertise in

THE FLORISTS' EXCHANGE

E. H. HUNT

The Old Reliable

FOR

CUT FLOWERS AND SUPPLIES

76-78 Wabash Avenue, CHICAGO.

Chicago.

The Week's News.

C. B. Knickman, representing McHutchison & Company, New York, was in Chicago on a business visit last week.

The number of carnation plants benched directly from pots in this section this year will largely exceed those similarly treated heretofore. From general reports it appears that the plants in the fields have not, so far, made a favorable growth in many localities.

H. E. Klunder has had a very attractive window in his State street store for the past week. A tank about a foot deep occupies nearly the entire surface and is completely filled with the choicer varieties of water lilies and their foliage, while two three year old alligators, sporting among the flowers and foliage, aid to draw the attention of those passing by.

Although it has never been possible to procure a unanimous agreement among retailers to close early during the Summer months it has been customary for many of the leading stores to do so, and the proprietors as well as the clerks will welcome the 7 o'clock daily and 12.30 Sunday rule which goes into effect next week.

At George Reinberg's six houses have been wrecked and new and larger structures will be erected in their places, and nine houses are being added to the range for the cultivation of orchids, adiantum, etc. Two carloads of cattleyas are al-

ready in place and another carload embracing other popular commercial sorts will arrive later, forming unquestionably the largest commercial collection of orchids in the West.

Anton Then has withdrawn his interest in the flower store in the North-western depot and all endeavors of the family are now centered in the greenhouses and the Larabee street store. The atmospheric conditions at the depot are not favorable, and the health of Mr. Then's daughters, who managed the store there, was considerably impaired. One of them, who has been confined to her room for several weeks, will spend the Summer in Michigan recuperating.

Those two ardent piscatorial enthusiasts, N. J. Wietor and John Sinner, started on Tuesday for their annual cruise to Tomahawk and neighboring lakes in Wisconsin. Mr. Wietor has made this trip every Summer for the past decade and says that for no consideration would he be deprived of it; and while this is Mr. Sinner's second visit he is equally fervent in his admiration of the locality and the sport.

With the opening of Summer on Saturday last the bedding plant season might under ordinary conditions be supposed to be about closed, but this year the business, though not heavy, continues to be a factor in trade. After the reported scarcity early in the season it is surprising to find a sufficiency of geraniums still in the market. One dealer says he had several fair sized lots offered him last week and attributed their still being available to the fact that growers, realizing the short crop early in the season, placed wholesale prices so high that in many gardens cheaper and more abundant plants had been substituted for the ever popular geranium.

The following sub-committees have been appointed by the general committee in charge of the arrangements for the Florists' Club picnic which will be held at Morton Grove on Sunday, July 21: music and dancing, Ed. Enders; transportation, August Poehlmann; refreshments, A. I. Simmons; printing, George Asmus, P. Schupp; sports, T. E. Waters, H. E. Klunder, Chas. Balluff, John Degnan; distributing and collecting tickets, George Asmus, P. J. Hauswirth, prizes, H. Bruns, Ed. Enders, P. J. Hauswirth, J. C. Vaughan. All evidences now point toward a successful outing as much interest is being manifested.

Peter Reinberg has purchased the range of houses on Northwestern avenue near Lincoln avenue which have been run for vegetable growing by different parties and will remove the glass, pipes and heating apparatus to his farm property on Devon avenue.

John Stuppy, who has been visiting New York, stopped off here last week on his way home to St. Joseph, Mo.

Notwithstanding the general report of backwardness of carnations in the field Sinner Brothers, who this Spring procured a choice piece of new land for their planting, state that their stock was never before better at this season of the year.

J. A. Peterson, Westwood, Cincinnati, accompanied by Mrs. Peterson, was in the city last Saturday. He accompanied a shipment of decorative plants for the Winterson Seed Company, which included some handsome, large specimens of Hydrangea otaksa.

Mr. Forbes, until recently of the firm of Martin & Forbes, of Portland, Ore., has disposed of his florist interest in that city and, while en route to his old home in Scotland, has with his wife and daughter been spending a few days enjoying the sights of Chicago and its environs.

Bassett & Washburn's seedling scarlet carnation, which as Number 20, has attracted a good deal of attention among the trade, has proved to them its thorough worthiness and having been christened in honor of the senior member of the concern, O. P. Bassett, will be disseminated next Spring.

Among recent visitors were noted, Nelson Coles and James N. Coles, Peoria, Ill.; John Robinson, representing J. B. Rice & Co.; John F. Wilcox, Council Bluffs, Ia.

Richard F. Gloede, Evanston, will be compelled to vacate his valuable property at no very distant date as the Chicago drainage canal will take the whole area, the middle of the waterway, which will be 100 feet wide, being in an exact line of his greenhouse chimney and the right of way, which is 660 feet across, will include the entire estate. Mr.

HENRY M. ROBINSON & CO.

WHOLESALE FLORISTS
 FLORISTS' SUPPLIES and HARDY CUT EVERGREENS

15 Province St.—9 Chapman Place, BOSTON, MASS.

Telephone—Main 2617-2618.



Hardy Cut DAGGER and FANCY Ferns, \$2 per 1000 Green and Bronze GALAX, \$1.50 per 1000.
 Laurel Festooning for June Decorations, 6c. per yd.
 Branch Laurel, 50c. per bunch.
 Sphagnum Moss, 50c. per bag; 5 bags, \$2.00.

AMERICAN BEAUTIES RICHMONDS BRIDES and BRIDESMAIDS CARNATIONS VALLEY
 Everything in the flower line.
 Write for Price List.



Florists' Supply Price List on Application

New Crop DAGGER or FANCY FERNS, \$1.50

Galax, bronze or green, 75c. per 1000 or \$6.50 per 10,000 cases.



Use our Laurel Festooning for your June Weddings; 4c., 5c., and 6c. per yard; finest quality and can fill orders promptly.
 Try our special 50 lb. cases Southern Smilax, \$6.50.
 Laurel Branches, 35c per large bundle.
 Send us your orders now for ferns for the coming season, and have them the year round at a reasonable price.

Long Distance Telephone Connection
GROWL FERN CO., MILLINGTON, MASS.

EXTRA FINE FANCY AND DAGGER FERNS

\$2.50 per 1000. Discount on large orders. Leucuhoe Sprays \$1.00 per 100, \$7.50 per 1000. Galax, per 1000, \$1.25. \$7.50 Case. Green Galax, \$1.25 per 1000. Boxwood, 20c. lb., 50 lbs. \$8.50.

MICHIGAN CUT FLOWER EXCHANGE Incorporated

Let us have your standing order for Ferns; we will make Price right all through the season
38 & 40 Broadway, Formerly Miami Ave. DETROIT, MICH.
 Send for our weekly price list on Cut Flowers.

REED & KELLER 122 W. 25th STREET NEW YORK
 Importers and Manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery
 New York Agents for Caldwell's. Monroe. Ala. Parlor Brand Smilax.

N. LECALLES & CO.
 53 W. 28th St., NEW YORK
 Tel. No. 1214
 Madison Square
 Stands at Cut Flower Exchange Coogan Bldg., W. 28th Street & 34th Street Cut Flower Market.
 SPECIALTIES: Galax Leaves, Ferns and Leucuhoe Sprays, Holly, Princess Pines and all kinds of Evergreens.
Green and Bronze Galax Leaves

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

THE BEST WAY to collect an account is to place it with the
National Florists' Board of Trade
 56 Pine St., New York
WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

SOUTHERN WILD SMILAX
BEAVEN'S FADELESS MOSS
NATURAL SHEET MOSS
E. A. BEAVEN, Evergreen, Ala.

PREPARED PALMS AND PALM LEAVES
 in all varieties
 Also Moss, Fibre, Needle Pines, Pine Cones, Uve Grasses, etc.
 Buy from HEADQUARTERS.
 Florida Natural Products Co.
 Fernandina, Fla.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
 MANUFACTURERS
 PHILADELPHIA, PA.

GROW MUSHROOMS
 If you do not know how, procure that simple but complete and practical book called "How to Grow Mushrooms." The price is ten cents and it can be secured from this office.
 Special rates will be made to the trade who wish to supply their customers.
THE FLORISTS' EXCHANGE
 2 Duane St., New York

Gloede has made a proposition which the commissioners have under consideration, setting a price on the property with the privilege of remaining on it until August, 1908.

The hot weather of last week deluged this market with peonies the quantity received being much larger than anticipated, and though some high grade stock arrived the result of the late freezes is said to be more noticeable in the quality rather than quantity, as many of the flowers do not develop perfectly; some doubt also being expressed as to many shipments having substance enough to stand the strain of the cold storage treatment which immense quantities are now undergoing.

A scarcity of medium sized well grown Boston feros in 6 and 7-inch pots is generally noticeable at this season, but is now more evident than in previous years.

Manager Kyle's Chicago Florists' baseball team was victorious on the grounds corner of Forty-seventh avenue and Lake street, defeating the Orioles by a score of 6 to 2. The club having been considerably strengthened, more victories are looked for in the future.

C. L. W. Snyder, manager of the El Paso Carnation Company, El Paso, Ill., was in the city last Saturday.

The dearth of hardy ferns has been relieved and considerable stock is now going into cold storage.

H. Bornhoff, formerly in the retail business in Chicago, has been visiting here after a ten years' absence. He is now located in Seattle, and is very sanguine as to the horticultural as well as the general commercial future of that city.

S. A. Sandahl, seedsman and florist of Seattle, Wash., stopped off for a few days in Chicago on his way, accompanied by his wife, to London, England, on a visit.

With the dull season at hand and the assurance that Chicago will be the last large city to be affected, not much worry is felt by the trade here over the general telegraph operators' threatened strike, though, of course, after past experiences such interruptions to business are not anticipated with pleasure.

Louis Heidtmann, president of the Gardeners and Florists' Union, until recently employed in Chicago's West Side parks, and now rose grower for the Chicago Carnation Company, was married on Wednesday of last week to Miss Alma Miller at her home, 697 Elk Grove avenue. Mr. and Mrs. Heidtmann will make their home in Joliet.

W. K. W.

New Orleans, La.

News Notes.
 A. Alost, the Gentilly avenue florist, has sold a portion of his estate consisting of swamp lands to the Louisville and Nashville R. R., for eight thousand dollars.

James A. Newsham is cutting some fine Cattleya Dowiana flowers at the present time.

A fine display of Cattleya Mossiae was to be seen in the store window of the Metairie Nursery Company during the past week.

U. J. Virgin supplied the palms for the planting of the neutral ground of Canal street; Washingtonia robusta was the sort used; it took several hundred to fill the bill. After they have made a few years growth the effect of this magnificent boulevard will be very striking. Mr. Virgin has turned his home grounds into a very attractive spot, and as they can be seen by people going to cemeteries, lake resorts, etc., they call forth a great deal of admiration.

The New Orleans Horticultural Society held its monthly meeting on the 20th; as the annual election of officers takes place at the next meeting, several members were placed in nomination, but the list is to remain open until the night of the election, the following were nominated: For president, Charles Eble; vice-president, A. Alost, Henry Cook, Claude Ory; secretary, C. R. Panter; treasurer, John Eble.

The German Gardeners' Club of New Orleans had its annual outing and dinner on the 19th. Little Woods on the shores of Lake Pontchartrain was the objective point and a very pleasant day was spent.

CRESCENT CITY.

Oh when you want the business done,
 By play that's strong and steady,
 Just take a look at old Slug Shot,
 For that's the stuff that's ready.

KILLS POTATO BUGS, CURRANT AND CABBAGE WORMS.

- Slugs on Roses,
- Aphis on Roses,
- Bugs on Asters
- Sow Bugs,
- Curculio on Plums
- Caterpillars,
- Bugs on Melons,
- Cut Worms,
- Lice on Fowls,
- Tobacco Worms,

&c.

SLUG SHOT &c. IS SOLD BY SEED DEALERS

Send for Pamphlets

B. HAMMOND, Fishkill-on-Hudson, N. Y.

OF COURSE YOU KNOW GREENHOUSE BUILDING



but there's a lot we know about it, that you don't. Don't know because your business is growing flowers—our's, building greenhouses. For just this reason, when you get ready to build, the best thing you can do is, write us or call at our Sales Offices; then we can go over the matter with you thoroughly and advise what our experience has proven to be best. We want to take up with you not alone the matter of right construction, but also that important question of economy of arrangement and planning for your houses' future additions. Write today—or call any day.

HITCHINGS and COMPANY

GREENHOUSE DESIGNERS AND BUILDERS. Manufacturers of Heating and Ventilating Apparatus
1170 Broadway, New York

Boston.

News of the Week.

The exhibition at Horticultural Hall on Saturday and Sunday last was scheduled as the Rose and Peony show, but roses were conspicuous by their absence and while there was a goodly display of peonies there was not nearly the number of fine blooms that might have been expected. This season the Massachusetts Horticultural Society has been holding its shows weekly and they have proven very popular, especially on Sunday afternoon. The rose show is scheduled for Saturday and there is every indication that there will be a splendid exhibition, and several of the large growers of peonies will also make exhibits.

There were some very fine collections of hardy flowers at Saturday's exhibition especially the herbaceous plants from the Blue Hills Nurseries, from Fred. J. Rea and R. & J. Farquhar & Company. Displays of peonies were made by E. J. Shaylor, Mrs. E. M. Gill, and William Nicholson, who had two fine vases of the variety Lady Bramhall. George Hollis made a display of herbaceous plants as did J. R. Clark & Company; the latter firm being the only exhibitors of sweet williams.

In the prize collection the Blue Hills Nurseries were both first and second for the collection of thirty bottles. For the vase of twenty-five blooms of white peonies the Blue Hills Nurseries were first, Mrs. E. M. Gill second and E. L. Lewis third. Blue Hills Nurseries were also first for vase of twenty-five pink and second for vase of twenty-five red, E. L. Lewis being first. Wm. Whitman was first for vase of twenty-five, any color, and Blue Hills Nurseries, second. Other exhibitors were Wm. Thatcher, gardener and Charles W. Parker, the latter exhibiting *Iris pallida Dalmatica* in fine shape.

The firm of H. A. Stevens & Company, Dedham, which has come into prominence as carnation growers during the past five years, has been dissolved by mutual consent, H. A. Stevens retiring. A new firm has been formed to carry on the business by James Wheeler, Mr. Stevens's former partner and J. Flood. The name of the new concern will be Flood & Company.

Peirce Brothers, Waltham, are building an auto truck which will add greatly to their facilities for getting their enormous products to market.

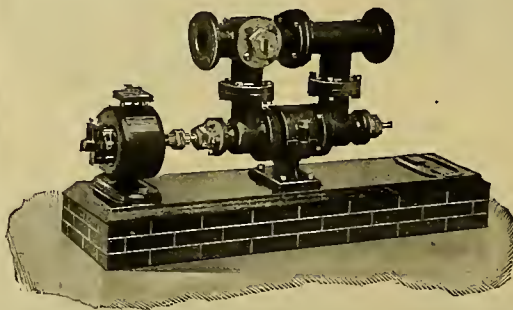
Noticeable among the Mystic Shriners who took part in the celebrations of the twenty-fifth anniversary of Aleppo Temple on Monday were Robert Montgomery of Natick and Alex Montgomery of the Waban Rose conservatories.

Stephen Quinn and wife have been visiting New York this week and expect to make a trip to Jamestown in the near future.

P. J. Dolansky, Lynn, sailed on Tuesday for a three months' trip to Germany. Other Europe-bound craftsmen are James Silman of Waltham, who has started for England, and A. Leuthy and Thos. Roland both of whom expect to sail next week.

W. B. Arnold, who came into prominence as the raiser of the variegated Lawson carnation, is happy over the arrival of a baby girl at his home in Rockland.

The Electric Circulator



No greenhouse is properly equipped without this serviceable little device. It never fails. Read this.

Waverley, Mass., April 24, 1907.

Mr. W. W. Castle, Boston, Mass.

Dear Sir—It is a pleasure to recommend your Circulator for the very efficient work it does for me. I have two greenhouses, each 200 feet long, piped for steam with 1½-inch pipes, and can operate them perfectly with hot water by using the Circulator; in a very short time it brings the returns nearly as hot as the flows. As I have two of the Circulators in use under different conditions, I am well able to judge of the work they are capable of doing, and would not like to part with either of them.

Yours truly,
(Signed) William W. Edgar.

Our New Steel Plate Boiler, built especially for greenhouse heating, is the best and most economical on the market. We do piping and fitting according to most approved methods and guarantee satisfaction.

HEATING ENGINEER.

W. W. CASTLE, 170 Summer St., Boston, Mass.

FRANK VAN ASSCHE GREENHOUSE BUILDER

Private or Commercial. Iron or Wood.

Factory and Yards: Fulton and Rose Ave.
and Dwight St., Jersey City, N. J.

GREENHOUSE GLASS ALL SIZES

16x24 A. & B. Double a Specialty
C. S. WEBER & Co.,
10 Desbrosses St., New York

Elijah Cartwright is sending in some very fine Mrs. Lawson carnations at present to the Music Hall market.

Fletcher of Auburndale is having a run on sweet peas Henry Eckford, which are very fine.

Chas. J. Boyle has resigned his position with Galvin's Bank Bay shore.

Some of the best peonies coming into Boston are the *Festiva maxima* being sent to the Park street market by Elijah A. Wood.

Arthur E. Fewkes starts this week for Ithaca to attend the meeting of the American Peony Society.

Daniel Leamey, formerly with the Waban Rose Conservatories, has added the name of Nichols of Providence, R. I., to the list he sells for in the Music Hall market.

J. A. Pettigrew is laid up with appendicitis at the Faulkner hospital, where he was operated on Tuesday morning. We are glad to note that his condition is as favorable as might be expected and a speedy recovery is looked for.

The Gardeners and Florists' Club will make a trip through the Boston park system on Saturday afternoon. Members will meet at Audubon road and the Riverway at 1.30, reached by Ipswich street cars on Brookline avenue, or Beacon street cars to Audubon road. The picnic arrangement committee has been organized as follows: Duncan Finlayson, chairman, Robert Edgar, Peter Miller, Maurice Fuld, J. W. Duncan, H. M. Robinson,

SAVE TIME AND MONEY OUR GULF CYPRESS

GREENHOUSE MATERIAL

CUT AND SPLICED, REQUIRE NO MECHANICS
LET US ESTIMATE ON YOUR HEATING,
VENTILATING APPARATUS, HOT-BED SASH

Putty--GREENHOUSE GLASS--Points

AT WHOLESALE

S. JACOBS & SONS, GREENHOUSE CONSTRUCTION MATERIAL

1365-79 Flushing Ave.,

BROOKLYN, N. Y.

For Greenhouses, Graperies, Hot beds
Conservatories, and all other purposes. Get
our figures before buying. Estimates freely
given

GLASS

N. COWEN'S SON,
14 & 16 Wooster Street, NEW YORK

Holds Glass
Firmly

See the Point

PEERLESS

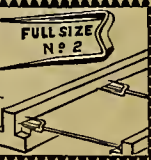
Glazing Points are the best.

No rights or lefts. Box of

1,000 points 75 cts. postpaid.

HENRY A. DREEB,

714 Chestnut St., Phila., Pa.



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

the Faulkner hospital in a rather serious condition. He was operated on for appendicitis but latest reports we are glad to say now point to his recovery.

Professor C. S. Sargent of the Arnold Arboretum left on Wednesday, the 26th inst., for a six weeks' tour in Europe.
J. W. DUNCAN.

U-BAR GREENHOUSES

FOR FLORISTS' SHOW ROOMS, PARKS AND PRIVATE ESTATES.

PIERSON U-BAR CO.

Designers and Builders U-Bar Greenhouses

Metropolitan Building, 4th Ave. and 23d St., New York



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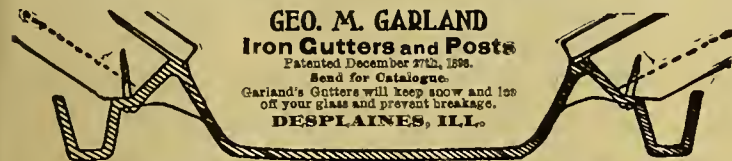
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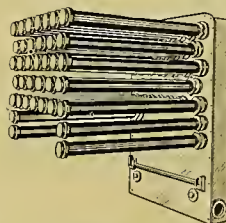
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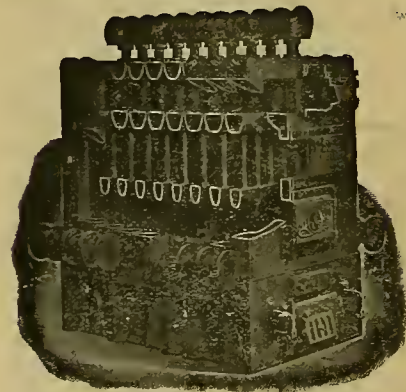
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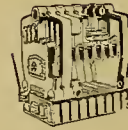
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