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FLOWERING BULBS FOR FALL PLANTING

AUTUMN
1921

Deer?

62.23



SEE Page 4 for Special Offer of the varieties of Tulips pictured on this cover which are, reading from left to right: at top, "Dream," and "Pride of Haarlem;" below these, "Clara Butt" and "La Merveille," and at the bottom, "Glow" and "Mrs. Moon."

Vaughan's Seed Store
CHICAGO - NEW YORK.

Helpful Details Making Mail Orders Convenient and Safe

Send to the City Nearest Your Address—Chicago or New York

Order at Once Send in your order as soon as possible after receiving catalog. Bulbs for immediate planting will be sent at once, others at proper time, with due notification.

How to Order Use the order sheets accompanying this catalog. One order sheet is for seeds, bulbs and sundries (i. e. Insecticides, Manures, Poultry Supplies, etc.); the other for plants, shrubs and trees only.

Don't put plants and trees on the same order sheet with bulbs and seeds.

Important Write your name, postoffice, state and express office plainly with black ink, on every order, and every time you write to us. Give plain express, mail or freight directions; where none are given, we route the same at buyers' risk.

Quantity, Size, Price Always give the quantity required of bulbs, plants or trees, mentioning size where different sizes are offered, and carry out the price of each item.

Mistakes These will happen in spite of all care. Write us at once with copy of original order if possible, and mistakes will be promptly rectified. Please do not return goods until you hear from us.

Parcel Post Fourth Class Mail Matter, which includes seeds, plants, bulbs, roots, books, tools, insecticides (in dry and paste form) odorless fertilizers and requisites, may be forwarded by domestic parcel post within the United States. See table opposite showing postage you should add to insure free delivery.

Express Service For most orders exceeding 20 pounds in weight and for plants requiring special packing, we urge they be expressed. Mark order plainly if wanted by Express or Parcel Post.

Time of Sending Not all fall bulbs are ready at the same time, but nearly all the Dutch and French importations are in the store by September 15. The following table gives approximate dates of arrival: **September 1**—Lilium Candidum, Roman Hyacinths, Lilium Harrisii, Frezias, Peonies. **September 15**—Hyacinths, Daffodils and Narcissus, Tulips and other Dutch bulbs, Callas. **October 20**—Full supply of Lilies, Chinese Narcissus, Dahlias and Gladiolus. **November 10**. Lily of the Valley, new crop Tuberoses. **Perennial Plants, September 15** until frost; **Trees and Shrubs** and all nursery stock, **October 1st** until frost.

Our Terms with customers not having an account are strictly cash with order. We prefer not to send C. O. D., but if wanted by that method customers should enclose one-fourth of the amount in remittance with order. No trees, plants or other perishable stock, are sent C. O. D.

How to Send Money Send by New York or Chicago draft, registered letters, or postoffice or express money order; both are cheap and absolutely safe. Small postage stamps are taken as cash, but we prefer larger denominations, such as fives, tens or fifteens. Registered letters can be sent from any postoffice, and your receipt sent you by return mail if demanded. If local checks are used, 25 cents must be added to cover the cost of collecting. Make money order payable to "Vaughan's Seed Store."

PARCEL POST Vaughan's Seed Store at Chicago and New York, covers the United States in a remarkable way to secure cheap postal rates for its many mail order customers.

The weights of all bulbs and roots offered are given and customers are requested to add sufficient to their remittance to cover postage on total estimated weight of order at rates given in the following table.

DOMESTIC PARCEL POST RATES		First pound or fraction	Each additional pound or fraction
On Seeds, Plants, Bulbs, Roots, Books, Tools, etc., within the U. S. and Possessions.			
First Zone	Chicago or New York City or 50 miles thereof	5c.	1c.
Second Zone	within 50 to 150 miles of either.....	5c.	1c.
Third Zone	within 150 to 300 miles.....	6c.	2c.
Fourth Zone	within 300 to 600 miles.....	7c.	4c.
Fifth Zone	within 600 to 1000 miles.....	8c.	6c.
Sixth Zone	within 1000 to 1400 miles.....	9c.	8c.
Seventh Zone	within 1400 to 1800 miles.....	11c.	10c.
Eighth Zone	all over 1800 miles and Canada.....	12c.	12c.

NOTE.—Limit of weight for delivery within the first and second zones, 50 pounds; to Canada 4 lbs., 6 ozs. (postage 60c.); to all other zones 20 pounds. If weight exceeds this, we will pack in 2 or 3 parcels (not more) provided money is remitted to cover postage.

Our Responsibility It is so manifestly impossible for a seller of any perishable article to be responsible for what may happen to it after it leaves his hands, especially one like seeds, which are planted in the ground under varying conditions of soil and climate, that we, in common with all American seed houses, disclaim responsibility as to the crop which may be raised from seeds which we sell.

At the same time, in case of any failure to secure proper results caused from some inherent fault in the seeds themselves, Vaughan's Seed Store accepts responsibility, not for crop, but to the extent of the amount of money paid for the seeds, if immediately advised. Or seeds may be returned.

We Do Not Warrant in any way, expressed or implied, the contents or the description, quality, productiveness or any other matter of any seeds, bulbs, plants, shrubs or trees sold by us, and we will not be in any way responsible for the crop. If the purchaser does not accept these goods on above terms, no sale is made thereof, and he must return them at once and money will be refunded. Subject to the above conditions, we make this sale at the moderate prices at which we sell our goods. **VAUGHAN'S SEED STORE, Incorporated.**

BULBS FOR NATURALIZING

For planting in woodlands, borders and along streams, these fall-planted bulbs are coming into favor more rapidly every year. These Daffodils when planted in clumps in a sheltered, sunny spot, will produce a mass of color in the early spring. When once planted, they remain for years, the clumps increasing mostly in size and vigor.

For Woodlands—Meadows

Lilium Candidum (1st size). Trillium Grandiflorum

	Per 100	Per 1000
Crocus, Named Varieties.....	\$1.75	\$15.00
Crocus, Mixed Colors.....	1.10	9.00
Narcissus, Single Poetieus.....	3.65	33.00
Narcissus, Barri Conspicueus.....	4.50	40.00
Narcissus, Sir Watkins.....	4.50	40.00
Narcissus, Alba Plena.....	4.00	35.00
Narcissus, Leedsii, Mrs. Langtry.....	4.00	35.00
Narcissus, Large Trumpet Golden Spur.....	4.50	40.00
Narcissus, Large Trumpet Princeps Maximus.....	3.65	33.00
Narcissus, Large Trumpet Empress (Bicolor).....	5.00	45.00
Narcissus, Double Von Sion, Fancy.....	4.50	42.00
Tulips, May Flowering, Vaughan's Special Mixed.....	3.00	27.00
Tulips, Darwin, Vaughan's Special Mixed.....	3.25	30.00

Planting in Grass

In planting bulbs in grass a circular hole about 5 or 6 inches deep should be made. If the soil is poor, some prepared compost containing a fair proportion of bone meal should be placed under and over the bulb. Make hole one inch larger than diameter of bulb.

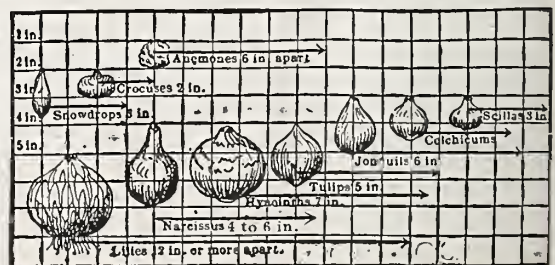
Tulips for Perennial Borders

We strongly recommend the planting of Darwin and Cottage Tulips in clumps and masses among hardy plants. All are perfectly hardy, and there is nothing to equal them for color and grace, standing boldly over the green foliage of the growing perennial plants in May. In our collections of these, will be found every imaginable shade, and for cutting they are invaluable, particularly in Darwin Varieties.

Select varieties that will harmonize in color, and spade over the plots in the border before planting, adding a couple of handfuls of bonemeal to each square yard, then plant the bulbs 6 inches apart and from 4 to 5 inches deep. Plant the various kinds separately, if you order them under name, to get best results.

Depth at Which Bulbs Should be Planted

Many of our customers are frequently puzzled to know proper depth and distance apart at which bulbs should be planted. The accompanying diagram conveys the information very clearly. The chart will bear careful study.



A Message to Bulb Growers

WITH GREETINGS OF OUR
45th FALL SEASON



Long Before the Trees and Shrubs Have Leaved, the Early Tulips Furnish Spring's First Burst of Color

PLANT lovers are coming to realize every year, more and more, the brilliant effectiveness of these early Spring flowers, and the ease of their cultivation, and the certainty of a fine flower from every bulb. They rarely disappoint. The bulb contains in itself the substance to start and develop its flower spike. But, though all this class are dependable, yet in gardens of refinement and artistic planning the kinds used for each annual Spring flower display often change.

The New Fashion in Tulips

BREEDER, Cottage and Darwin Tulips, with rare coloring, giant growth, and more lasting blossoms, have recently come into great popularity. We are featuring all of these for 1921 and in effective collections as well as in separate single colors and soft, artistic shades; many planters use these in solid beds.

Hyacinths Back in Favor

HYACINTHS are again in popular favor. Their readiness for winter bloom in water or earth, their sweet fragrance and splendid coloring, place them at the head of all easily grown winter flowers in the home.

Vaughan's Seed Store was founded in 1876. Its knowledge of the seed and bulb business and equipment for conducting it are the product of forty-four years' experience.

Each year of the forty-four has contributed something toward the complete service which its customers receive today, and the forty-fifth year finds this organization studying, testing, seeking, and we believe learning, more than in any year past.

For many years the records of Bulb Importations by Vaughan's Seed Store at the various ocean ports of the country for its home garden and wholesale demand show the largest importations of any single bulb importing seed establishment in the United States.

Our Experience Profits You

OUR thorough knowledge of quality, our familiarity with growing conditions in Holland and long-established relations with reliable growers in the best localities assure us of ability to obtain bulbs of the greatest merit at most reasonable prices—an advantage of which our customers get full benefit.

J. C. VAUGHAN.

FOUR VIEWS OF VAUGHAN'S NURSERIES, WESTERN SPRINGS, ILLINOIS



ONE OF OUR PEONY FIELDS



PROPAGATING FRAMES, PACKING SHEDS



A BLOCK OF APPLE TREES



ROW AFTER ROW OF BLUE SPRUCE



AUTUMN IS THE TIME TO MAKE A LAWN

MANY gardening operations are more satisfactorily performed in the fall than in the spring. In the sowing of grass seed, to make a new lawn, or to improve an old lawn, fall operations have numerous advantages. It is nature's way to drop grass seed in summer; the seeds are washed into the soil when the first fall rains come, and germinate in time to establish roots before the ground is frozen. Growth is resumed with the first thaws of early spring, and roots are being strengthened when spring sown seed is just undergoing germination. Where a new lawn is sown in the fall, the inevitable bare spots show up early in the spring, permitting resowing in time to cover them for the summer and produce a slightly sweep of lawn in the season when it is most desirable.

VAUGHAN'S "CHICAGO PARKS"

Vaughan's "Chicago Parks" Lawn Seed is familiarly known everywhere in the United States where lawns are made.

It produces a beautiful and enduring turf without the aid of cheap "quick-showing" grasses, which are only of temporary value.

After many years' trials we have a balanced mixture of American and such European grasses as do best in our climates. We select the finest grades of evident purity and germination.

For more than 40 years it has been standard in America, each year adding to its popularity and increasing sales.

In the great parks and cemeteries, where best results must be had in order to produce beautiful and enduring turf, Vaughan's "Chicago Parks" is used almost exclusively.

Vaughan's "Chicago Parks" lawn grass seed is thoroughly cleaned, then re-cleaned. This applies to all the separate kinds of seed contained in the mixture, besides which each lot is tested for germination, in the most painstaking and careful manner.

Price, $\frac{1}{2}$ lb., 25c; 1 lb., 45c; 3 lbs., \$1.30; 5 lbs., \$2.10; 10 lbs., \$4.20; 15 lbs., \$6.20; 20 lbs., \$8.20; 25 lbs., \$10.00; 50 lbs., \$19.00; 100 lbs., \$37.50.

Postage 8c per lb. extra. See Special prepaid offer below.
Write for special prices on large quantities.

VAUGHAN'S "CENTRAL PARK" MIXTURE

A mixture similar to the "Chicago Parks" and adapted to eastern Atlantic conditions. Prices same as "Chicago Parks."

VAUGHAN'S QUICK SOD

A new mixture put up for fall sowing and first planting on new soil. Quick growing, hardy grasses. Produces a good sod that will winter without killing out. Price, lb., 45c; 5 lbs., \$2.15; 10 lbs., \$4.25; 50 lbs., \$20.50; 100 lbs., \$40.00.

Special Prepaid Lawn Seed Offer. On all orders of Lawn Grass Seed amounting to \$2.00 and over, we prepay transportation within 300 miles of Chicago or New York.

During the first winter after the lawn has been started it is advisable to protect it with a thin covering of well rotted manure, but such a mulch is always unsightly and after the first year is not essential.

The following quantities of seed will give a uniform thick growth for the given space, but can be increased if desired.

One pound for 350 square feet; 5 pounds for 1750 square feet; 10 pounds for 3500 square feet; 15 pounds for 4250 square feet, 25 pounds for one-fourth acre; 50 pounds for one-half acre; 100 pounds for one acre. A 25-foot lot, deducting for usual house space and outbuildings requires about 5 pounds; a 50-foot lot about 10 pounds. If intended for renovating an old lawn, use about half above quantities.

VAUGHAN'S "COLUMBIAN"

For Shady Lawns or Sandy Soil.

On sandy soil in shade, conditions are met with when making a lawn which require the use of a special grass seed mixture.

To provide sure and beautiful lawn grass under such conditions, Vaughan's "Columbian" has been prepared with exceptional care.

Vaughan's "Columbian" is an excellent mixture for the uses stated above; its record in public parks, exhibitions and private grounds everywhere in the United States justifies its use by every one who needs lawn seed for a shady place or light, sand soil.

QUANTITY TO USE—On new lawns, use 1 lb. for 400 square feet; 5 lbs. for 2,000 square feet; 10 lbs., for 4,000 square feet; 15 lbs. for 6,000 square feet. 25 lbs., for one-fourth acre; 100 lbs. for one acre. To replenish lawns where turf is thin use 50 lbs. to acre.

Price, lb., 45c; 5 lbs., \$2.10; 10 lbs., \$4.20; 15 lbs., \$6.20; 20 lbs., \$8.20; 25 lbs., \$10.00; 50 lbs., \$19.00; 100 lbs., \$37.50.

Write for special prices on large quantities.

VAUGHAN'S DENSE SHADE MIXTURE

Composed of grasses most suited for growing in heavily shaded situations. Price, Per lb., 60c; 5 lbs., \$2.90; per bu. of 20 lbs., \$11.00

Vaughan's Lawn Restoring Grass Mixture

Takes hold and grows quickly on wornout or burned spots. Sow in very early Spring, or late Summer and Fall (end of August to middle of October); also before every Summer rain, on thin places. Price, per quart, 40c; per bushel of 24 lbs., \$8.75.

VAUGHAN'S "QUICK SHOW" GRASS MIXTURE

Has not the permanency of color of our "Chicago Parks," but makes a respectable showing the first season. Sow 100 lbs. to acre.
Price, per lb., 25c; 5 lbs., \$1.10; 100 lbs., \$20.00.

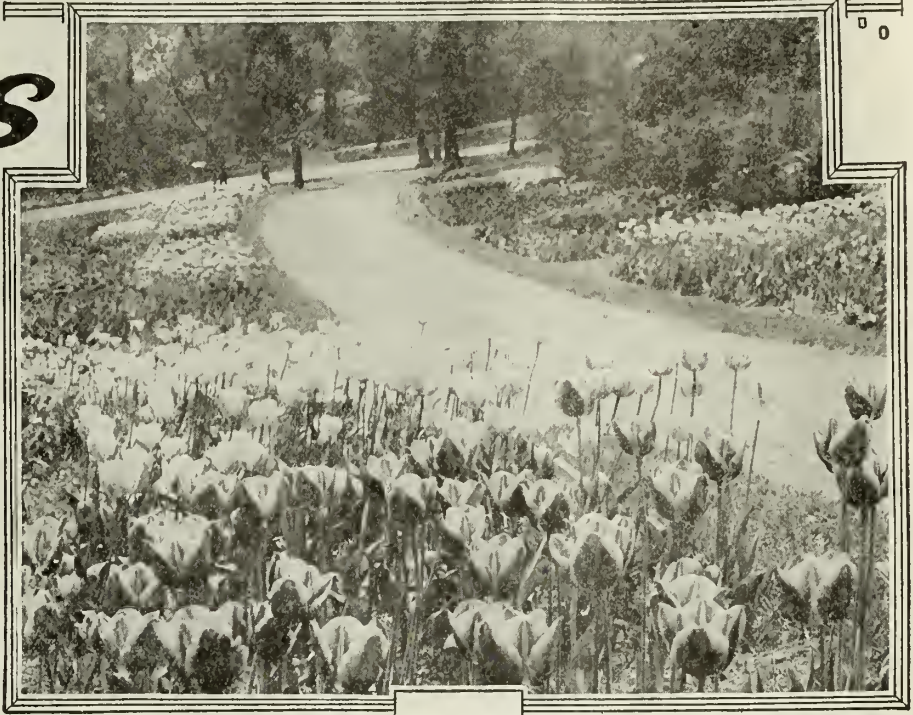
Kentucky Blue Grass We offer in two grades—Extra Fancy Seed, sun-dried, twice re-cleaned. Of very high germination. 1 lb., 55c; 5 lbs., \$2.65; 10 lbs., \$5.25; 100 lbs., \$50.00.
Fancy Seed—Actual weight 21 lbs., per bushel. 1 lb., 50c; 5 lbs., \$2.40; 10 lbs., \$4.75; 100 lbs., \$45.00.

Red Top Grass Fancy re-cleaned. Solid seed, 32 lbs. to bushel. 1 lb., 30c; 10 lbs., \$2.50; 100 lbs., \$22.00. **Common Unhulled** Bushel 14 lbs. 1 lb., 20c; 10 lbs., \$1.75; 100 lbs., \$15.00.

White Clover Extra fancy seed. 1 lb., 70c; 3 lbs., \$1.95; 10 lbs., \$6.00. Add 8 cents per pound to above prices if wanted by mail.

Truly a fine lawn is "a thing of beauty and a joy forever." Sow Vaughan's Lawn Seed.

Tulips



DARWIN TULIPS, SPRING OF 1921, IN BRONX PARK, NEW YORK

TULIPS—flowers of mystery—whence they came none knows. Theirs is a lost history. Even their name is obscure, though usually ascribed to the Persian word, "tuliban" or "thulyiban," the name of a head-dress which the flower, inverted, is said to resemble.

It was thus the Turks called them in 1554, the earliest accurate record we have of them, when they were noted as growing in a garden near Constantinople. And the Turks had cultivated them for centuries. Yet Persia offers no clew to their original species and they were unknown in a wild state in Europe.

Tulips are classed in two general divisions, early and late. The early are divided into double and single. The late tulips are divided into Cottage, Darwin, Breeder, Parrot, Rembrandt, Bizarre, and Bybloom classes, the last four being striped.

These striped tulips figured in that strange episode in the history of Holland known as the tulipomania. A craze for gambling in tulip bulbs swept that country from 1634 to 1637 only to burst as do most "booms."

Dutch fortunes were made and lost overnight. It was necessary for the courts to intervene and the state to appoint a commission of regulation before this tremendous gamble in bulbs was suppressed.

THE MODERN MAY-FLOWERING TYPES

THOUGH still beautiful, as those who do not know them may learn, the striped forms have been superseded in modern favor by the May-flowering Darwin, Cottage and Breeder types.

The Darwin tulips were introduced in 1889 by Krelage & Son of Haarlem, Holland, and they have never told the secret of their discovery. They are probably a selected type of Breeder tulip. They are characterized by their height, sturdy growth and the purity of their colors which range from almost pure white through almost every conceivable shade of pink, rose, cerise, scarlet, crimson, maroon to almost black, with a bewildering array of lavenders, violets, lilacs and slaty tints. They possess a bloom or overlay somewhat suggestive of the bloom on a grape which gives a softness of coloring which is one of their most subtle attractions.

The Breeders are the survival of the old Dutch late garden tulips known as Mother Bulbs. They were the tulips which the old Dutch gardeners grew with the expectation that some day they would "break" into the stripes that were formerly regarded as the essential of a good tulip. They are large and tall as a rule with a series of rather dull and somber shades not found in other flowers. The Breeders show that rarest of garden colors, brown. The bronzes, mahoganys, coffee colors, buffs, dull yellows, roses imposed upon a brown ground have brought them recently a popularity never before enjoyed and they deserve it.

HISTORY OF COTTAGE TYPE

THE Cottage class includes colors and forms that might readily be included with the Darwins or Breeders. In general they are shorter stemmed and possess a range of colors not found in the Darwins—yellows and oranges. They have pointed petals. They are probably old time tulips which wandered into the door yards of the peasantry of Europe when the tulipomania exploded or are from bulbs which had been rejected by the big gardeners in England or France when the fashion of the day demanded that the striped forms should have the preference. This class was defined in the eighties when English growers exhibited collections rescued from the humble garden patches of cottagers which under cultivation showed wonderful improvement in size of bloom, vigor, and purity of color.

The tulip has a habit, after a number of years of solid color, of appearing without warning in a motley of stripes of various colors.

The Bizarres are "broken" Breeder in shades of brown and red with yellow stripings.

The byblooms are subdivided into two classes, roses and violets. The former are broken breeders in shades of red and rose. The latter are purple, lavender, mauve, and similar shades which have broken and are striped with other colors or with white.

The Rembrandts are Darwins which have gone striped. The Parrots are freaks. There are only a few varieties and new ones almost never appear. They have long slashed and fringed petals and are in shades of red and yellow sometimes even striped with green.

CULTURE OF THE TULIP

NOW as to the culture of the tulip. First and foremost it is a manure hater and must on no account be given fresh manure in the soil. It is better not even to use decayed manure unless it can be spaded in some time before the bulbs are to be planted.

The best fertilizer to use is bone meal.

Tulip beds should be well drained. They should be raised a few inches above the surrounding soil to prevent water standing on the beds during the winter.

Plant the bulbs five inches deep, measuring from the top of the bulb and five inches apart for the early varieties and six to eight inches for the late classes.

Bulbs should be dug every year after the leaves have died down, usually around July 1. When the stem twists about the finger readily

without cracking, they may be dug safely. Remove all seed pods as soon as the petals fall.

Give the early tulips a position in full sun. The late tulips will last longer in partial shade although they thrive as luxuriously in full sun.

Tulips will grow in almost any soil but luxuriate and are longer lived in one that is fairly sandy.

In large plantings it is often impossible to dig all bulbs the same year but it should be arranged that no planting stands in one place more than three seasons at most. A change of position so far as soil is concerned does wonders for tulips and an immediate increase in the size of bloom is usually the reward for new quarters. The bulbs also show an increase in plumpness.

EARLY TULIPS, SINGLE AND DOUBLE

EARLY tulips, both the single and the double kinds, seem specially built for formal beds. They are the first bedding plant to spread a gorgeous sheet of color and before the frost is out of the April air the early tulips have spread their brilliant array of bloom and are out of the way in time for the later bedding plants to be set out in May.

Not only in formal beds where they are at their best planted in beds of one variety or in combination of several varieties in sufficient quantity to show their true character, but for clumps inserted here and there among shrubbery or between hardy plants which will come up later and hide the maturing foliage, they are invaluable.

They are the earliest of the tulip pageant which the later Darwins, Breeders, and Cottage varieties continue almost into June. The early tulips do not have the long stems of the later varieties but are valuable for cut flowers. All shades of red, pink, white and yellow are found in their lists with some violets and lavenders of striking beauty. These tulips need to be planted in groups of not less than fifty to show at their best and they are of reasonable enough price so that anyone may have them.

Not only are these early tulips especially adapted to formal beds and groups in the borders but they are the easiest to grow indoors of all the tulips and pots of early tulips will add a welcome touch of color to the gray winter. Potted up as soon as the bulbs are secured in the fall and either allowed to remain outside until frozen or set away to make root growth, the same as hyacinths, they may be then brought to the living room window and speedily display their beauty.

There is no bulb of easier culture than the early tulips.

Tulip Color Schemes

MUCH of the delight of tulip gardening is in the endless array of color combinations possible with them. The striped forms should be planted by themselves, but the solid colors mass in beautiful variety of associations. Here are a few suggested plantings using the May-flowering tulips:

Pale pink to rosy scarlet—Gretchen, Suzon, Farncombe Sanders.

Lavender, bronze and rose—Rev. Ewbank, Bronze Queen, Clara Butt.

Purple and mahogany—Louis XIV and Don Pedro.

Light to deep yellow and orange-scarlet—Moonlight, Mrs. Moon, Yellow Picotee, Prince of Orange, Lucifer.

Light and dark purples and lavenders—Velvet King, Dream, Zulu, Godet Parfait.

Browns and purples—Plutarchus, Apricot, Don Pedro, Godet Parfait.

Very light shades—White Queen, Mrs. Cleveland, Wedding Veil, Painted Lady—best for a shady spot.

Brilliant reds—King Harold, Bartigon, Europe, Glow, Farncombe Sanders.

Art shades—The Fawn, Fairy Queen, John Ruskin.



Tulip Collections for Border Plantings

See Page 9 for Circular Beds

MODERN landscaping favors borders rather than beds. The space along the front and sides of the yard, and beside the foundation, is considered the proper place for planting, in order not to cut up the expanse of lawn.

If one has shrubby plantations, tulips show up wonderfully planted in front of the shrubs. Shallow rooted plants may be grown in the same beds without removing the tulips except every third year.

We can offer at most attractive prices, bulbs for the border plantings illustrated on this page. The colors harmonize and plenty of bulbs are provided to fill the spaces indicated.

Although we cannot undertake to supply particular varieties at these prices, the tulips delivered will be named varieties, bagged separately and tagged with their names.

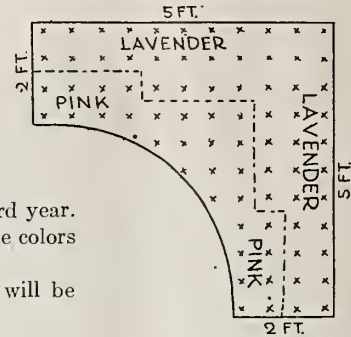
Collection No. 1.

May-Flowering Tulips

Darwin, Cottage or Breeder

To fill a corner space 5 feet on each leg.

49 Lavender }
29 Pink } 78 Bulbs for \$3.75, postpaid.



Plan for Collection No. 1

Collection No. 2

Early-Flowering Tulips

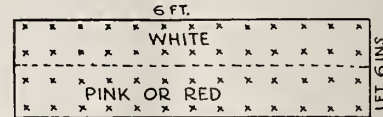
To fill an oblong bed 1 1/2 by 6 feet.

A—Single Early-Flowering.

28 White }
28 Pink or Red } 56 Bulbs for \$2.00, postpaid.

B—Double Early-Flowering.

28 White }
28 Pink or Red } 56 Bulbs for \$2.25, postpaid.



Plan for Collection No. 2

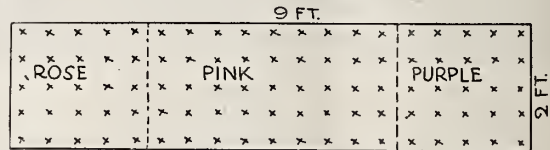
Collection No. 3

May-Flowering Tulips

Darwin, Cottage or Breeder

To fill an oblong bed 2 by 9 feet.

25 rose }
45 pink } 95 Tulips for \$4.00, postpaid.
25 Maroon or Purple }



Plan for Collection No. 3

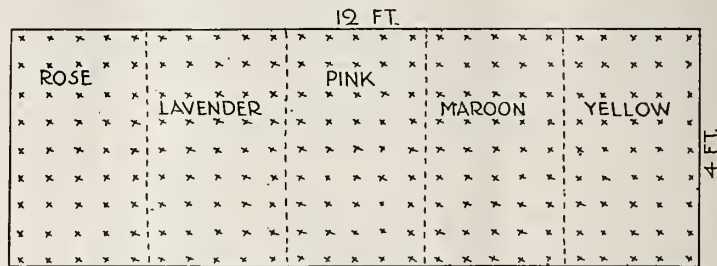
Collection No. 4

May-Flowering Tulips

Darwin, Cottage or Breeder

To fill bed 4 by 12 feet.

45 Rose }
45 Lavender } 225 Tulips for \$10.00,
45 Pink } by express.
45 Maroon or Purple }
45 Yellow }



Plan for Collection No. 4

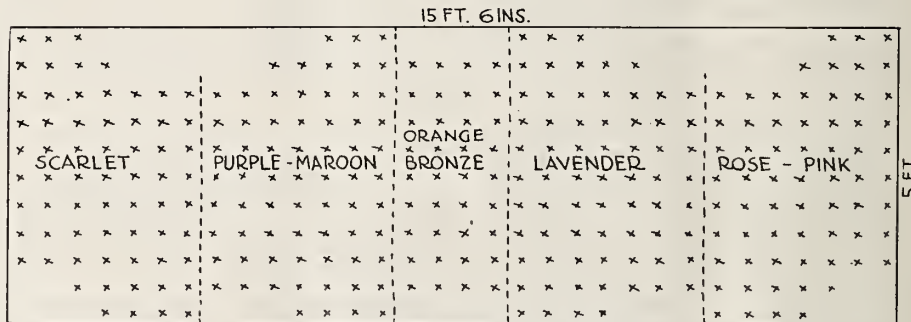
Collection No. 5

May-Flowering Tulips

Darwin, Cottage and Breeder

To fill bed 5 by 15 feet.

65 Scarlet }
68 Purple-maroon } 302 Tulips for \$13.50,
36 Orange-bronze } by express.
68 Lavender }
65 Rose or Pink }



Plan for Collection No. 5

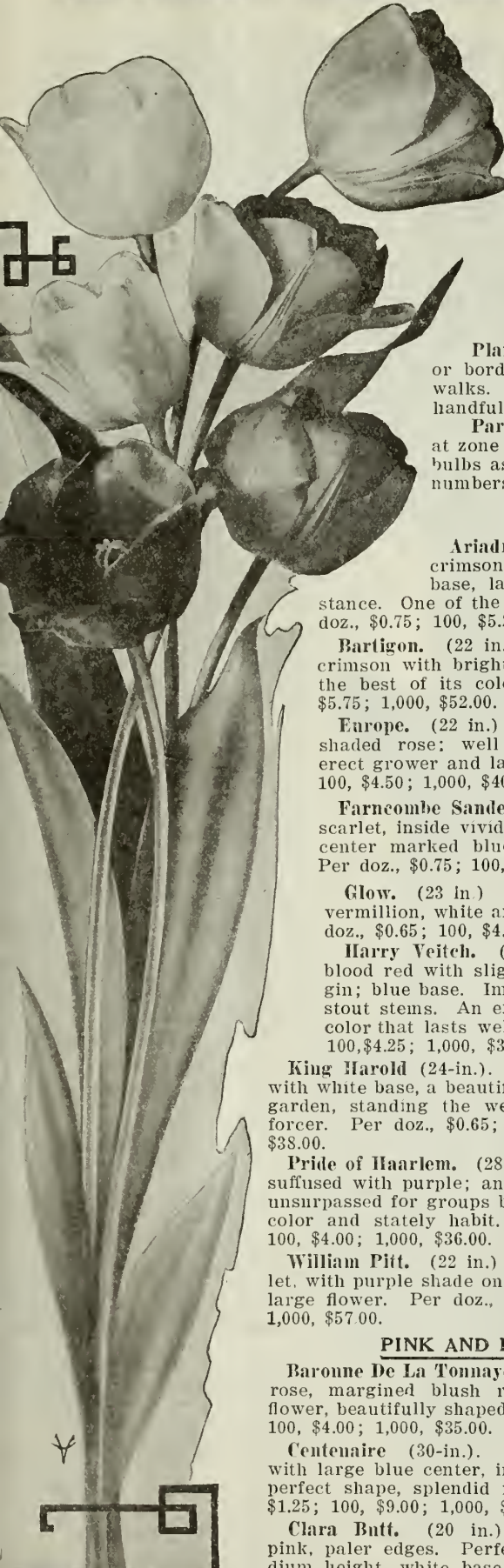
Cover Collection Offer

WE offer at special prices, bulbs of the excellent varieties pictured on our front cover—Dream, Pride of Haarlem, Clara Butt, La Merveille, Glow and Mrs. Moon.

2 each of six named 75c, postpaid
10 each of six named \$3.50, postpaid
20 each of six named \$5.50, by express only

Darwin Tulips

MAY-FLOWERING



BY THEIR wonderful size and stateliness, their exquisite, delicate coloring, by adaptability to American soils, their hardiness and the brilliant display they afford whether massed in beds or grouped with the perennial plants in the Hardy Borders, these late flowering tulips have won a place in the finest gardens in the past few years.

Darwin Tulips are beautifully outlined, cup-shaped and carried on tall, stiff stems. They vary in color from almost jet black, crimson and scarlet, purple to lilac, mauve, pink and indescribable intermediate blendings and pastel shades. Yellow is the one color missing, but this can be supplied from the Cottage varieties listed on following pages.

Planting. Plant four or five inches deep and six inches apart in raised beds or borders so that the bulbs are slightly above the level of adjacent lawn or walks. In preparing the ground, use Vaughan's Rosegrower Bonemeal (three handfuls to a square yard), thoroughly mixed through the soil.

Parcel Post. If you wish bulbs sent by parcel post, add to our prices postage at zone rates from Chicago or New York (see inside front cover) counting twelve bulbs as one pound, fifty as four pounds; one hundred as seven pounds. Larger numbers are sent by express.

SHADES OF RED

Ariadne (28-in.). Brilliant rosy crimson, shaded scarlet with blue base, large flower of great substance. One of the finest. Good forcer. Per doz., \$0.75; 100, \$5.25; 1,000, \$47.00.

Bartigon. (22 in.) Large flowers of fiery crimson with bright scarlet margin. One of the best of its color. Per doz., \$0.85; 100, \$5.75; 1,000, \$52.00.

Europe. (22 in.) Glowing salmon-scarlet, shaded rose; well formed globular flower, erect grower and lasts well. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Farnecombe Sanders. (25 in.) Fiery rose-scarlet, inside vivid cerise-scarlet with white center marked blue; flowers perfect shape. Per doz., \$0.75; 100, \$5.25; 1,000, \$47.00.

Glow. (23 in) Brilliant, glowing vermilion, white and blue base. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.

Harry Veitch. (24 in.) Brilliant blood red with slightly lighter margin; blue base. Immense blooms on stout stems. An extremely brilliant color that lasts well. Per doz., \$0.60; 100, \$4.25; 1,000, \$38.00.

King Harold (24-in.). Deep purple red with white base, a beautiful variety for the garden, standing the weather well, good forcer. Per doz., \$0.65; 100, \$4.25; 1,000, \$38.00.

Pride of Haarlem. (28 in.) Bright rose suffused with purple; an enormous flower unsurpassed for groups because of its fine color and stately habit. Per doz., \$0.60; 100, \$4.00; 1,000, \$36.00.

William Pitt. (22 in.) Very dark scarlet, with purple shade on the outer petals; large flower. Per doz., \$0.95; 100, \$6.25; 1,000, \$57.00.

PINK AND ROSE

Baronne De La Tonnaye. (26 in.) Bright rose, margined blush rose; long, large flower, beautifully shaped. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Centenaire (30-in.). Rich violet-rose with large blue center, immense flower of perfect shape, splendid forcer. Per doz., \$1.25; 100, \$9.00; 1,000, \$85.00.

Clara Butt. (20 in.) Bright shrimp pink, paler edges. Perfect bloom of medium height, white base Midseason, lasts well. The best pink Darwin. Per doz., \$0.55; 100, \$3.65; 1,000, \$33.00.

PINK AND ROSE—Continued

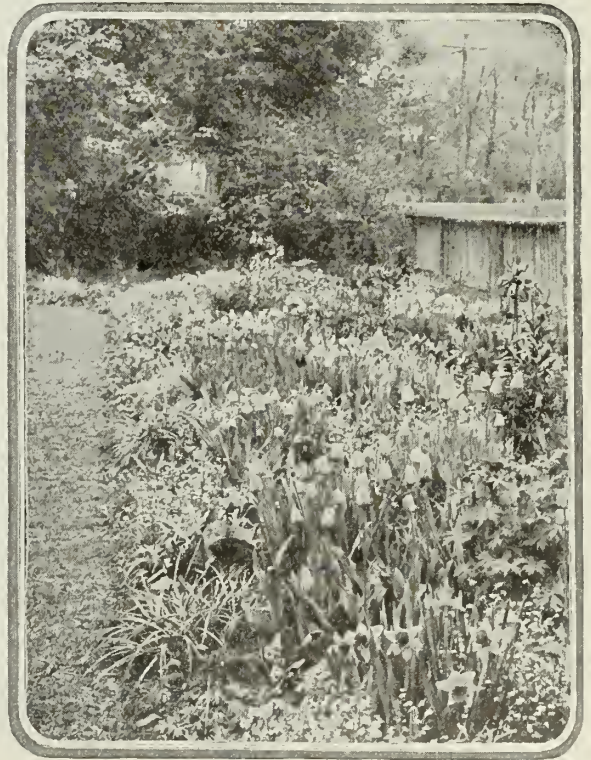
L'Ingenue. (20-in.) Pale rose, shaded creamy white; inside lit up with salmon rose. Doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

Massenet. (25 in.) Soft apple blossom flushed white, large flower. Per doz., \$2.00; 100, \$15.00.

May Queen. (24 in.) Lilac-rose, white center. Doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Massachusetts. (25 in.) Deep rose-banded petals with very distinct pale rose edges. Long oval blooms on strong, erect stems. Blossoms early and cut blossoms last well. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.

Mme. Krelage. (27 in.) Very similar to Massachusetts, but the central pink band is a shade lighter and blends into the pale border. Earlier than Massachusetts and tones off into lighter shades all over. Per doz., \$0.70; 100, \$5.00; 1,000, \$45.00.



Tulips and Daffodils in the Hardy Border Start the Blooming Season Brilliantly

Darwin Tulips, May-Flowering—Special Offers

PINK AND ROSE—Continued

Mrs. Cleveland. (24 in.) Pale lilac rose, with light margin. A delightful color under glass. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Nauticus. (25 in.) Glowing dark cerise, center violet and bronze. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.

Princess Elizabeth. (Syn. *Julie Vinot*.) (26 in.) Large flower; soft rich rose toning to silvery rose at edges. Inside deep rose, white base. Highly recommended. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

Petrus Houdins (28-in.). Bright carmine-rose, the most brilliant color in Darwins. Per doz., \$1.00; 100, \$6.50; 1,000, \$60.00.

Prof. Rawenhoff. (28 in.) Cherry rose with ivory white and blue base. Enormous, attractive flower. Per doz., \$0.70; 100, \$5.00; 1,000, \$45.00.

Sieraad Van Flora. (24 in.) Bright rosy pink flower, shaded with lilac; blue base. Very effective. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Suzon. (22 in.) Pale blush pink outside, rosy pink inside. Blue and white base. A distinct and desirable tulip as a companion to some of the dark shades. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

VIOLET, BLACK AND SHADES OF PURPLE

Dream. (25 in.) Pale violet changing to lavender, with lighter edge, clear blue base. Early and keeps its color. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.

Eletra. (25 in.) A fine erect flower, rosy purple with distinct pale border, and white base. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Erguste. (24 in.) Dark heliotrope, with lavender margin. Keeps its color well. Good for indoors or out. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Faust (30-in.). Dark satiny purple with blue base, very large and well formed good forcer. Per doz., \$1.10; 100, \$7.50; 1,000, \$70.00.

Frans Hals (28-in.). Large blue-violet flowers, extra, very good forcer. Per doz., \$1.75; 100, \$12.00.

La Tulipe Noire. Nearest of all to the black color. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.



REV. H. EW BANK, (20 in.) Deep Lilac, Toning at Edge to Pale Lavender

BRONZE, BLACK AND SHADES OF

PURPLE—Continued

La Tristesse (Dolores). (25 in.) Slaty mauve with silvery margin, and a violet and bronze reverse. A splendid contrast with the yellow Cottage Tulips. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Leonardo da Vinci. (25 in.) Shining violet black. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Mrs. Potter Palmer. (26 in.) Deep reddish purple, with dark blue base. A striking and distinct tulip. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Rev. H. Ewbank. (20 in.) Deep lilac, toning at the edges to pale lavender. Lighter in color and not so tall as Dream, white base. Distinct flat open flower. Lasts well. Most popular of this shade. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

The Sultan. (24 in.) Deep maroon black, brownish margin. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Zulu. (27 in.) Rich, velvety, purple-black; large cup-shaped flower. Per doz., \$0.75; 100, \$5.50; 1,000, \$50.00.

Zanzibar. (24 in.) Rich, glossy maroon, center dark blue and white. Per doz., \$0.70; 100, \$5.00; 1,000, \$45.00.

WHITE AND BLUSH

Gretchen. (23 in.) Pale flesh pink, changing to light peach pink. Large egg-shaped bloom. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Painted Lady. (27 in.) Creamy white, faint tinge of heliotrope. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

White Queen. (24 in.) White passing to pink. Per doz., \$0.60; 100, \$4.00; 1,000, \$36.00.

MIXTURE OF DARWIN TULIPS

Special Mixture, made up by ourselves from best distinct kinds. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Regular Mixture, splendid value for mixed beds and cutting. Per doz., \$0.50; 100, \$3.25; 1,000, \$29.00.

Bizarres, Bybloemens and Parrot Tulips

PARROT TULIPS

THEIR fringed and corrugated petals with their wonderful variation make these old-fashioned flowers the most curious of all Tulips. Flowering at the same time as other late sorts, they are entirely distinct from any other; the flowers are thick-petaled with extra long stems, and keep extremely well after being cut. The average height of them is about 15 inches.

Admiral de Constantinople, red, tipped orange. Doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Lutea Major, bright yellow; large. Doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Markgrave, yellow, striped scarlet and green. Doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Perfecta, yellow, striped red. Doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Couleur Cafe, brown and yellow. Doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Cramoisie Brillant, deep crimson with large black center. Doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Gloriosa, red and yellow. Doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Mixed, Superfine. Doz., \$0.45; 100, \$3.00; 1,000, \$27.00.

OLD-FASHIONED STRIPED TULIPS

THOUGH too gay for modern taste to serve in large plantations, the old fashioned striped tulips are beautiful. They prove that the Dutch tulipomania was not without excuse, and no gardener who wishes his collection to be representative will be without some specimens.

For indoor decoration a few of these truly beautiful and unquestionably striking flowers will be found most welcome. Particularly in May, when they blossom, will their contrasted shades be welcome both indoors and out. **Culture,** same as for Darwin's.

Parcel Post. Count 12 bulbs as one pound, and add postage at zone rates. (See inside cover.)

Bizarres. Flowers beautifully blotched, striped and feathered with crimson, pink, scarlet, rose, lilac and purple on yellow ground. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Bybloemens. White ground, blotched, striped or feathered with lilac, purple, violet, blue. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.



Late-Flowering Tulips in a Formal Border

THESE Tulips rival the Darwin Class for popular favor. Every known shade is to be found, from deepest crimson, to bright red, orange, glorious yellows, pink and a host of delicate tints of yellow, pink, cream and heliotrope. They differ from Darwin Tulips, in having blooms, many with reflexed petals and they bloom a few days later, often carrying the flowering period of Spring bulbs into the early days of June, especially if planted in a shady position. Many sweet scented varieties are included, such as Ges. Lutea and G. Lutea Pallida, Mrs. Moon, Columbus. There is no end of material for color schemes in this class and when massed in beds, borders, or around and among shrubs they produce wonderful effects when suitably contrasted. They will bloom in the same position in congenial soil, for two or three years later without being disturbed.

either oval or pointed

Cottage Tulips

MAY-FLOWERING

Kaleidoscope. Long, handsome flower. Apricot rose, flaked more or less rose crimson. Edged and suffused soft yellow. Per doz., \$4.25; 100, \$30.00.

***Isabella (Shandon Bells).** (15 in.) A beautiful variety with large handsome flowers. Color primrose, flushed rose, changing to rosy-red. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Maiden's Blush (Picotee). (20 in.) A long-shaped flower, pure white recurved petals, margined rose. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Mrs. Kerrell. Light rose with delicate amber tinge, center white bordered blue. Per doz., \$2.35; 100, \$18.00.

BRONZE, FAWN, LILAC AND WHITE COLORS

Daybreak. (18 in.) Violet with large yellow border. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

***Fairy Queen.** (20 in.) Oblong blooms of rosy heliotrope blending into a golden yellow at the edges of petals. Very distinct. One of the most beautiful of all. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Norham Beauty. (20 in.) Purplish lilac shaded bronzy yellow. Per doz., \$0.75; 100, \$5.25; 1,000, \$48.00.

***Parisian White.** (14 in.) Pure white, edged silvery-pink, beautiful globe-shaped flowers. Per doz., \$0.60; 100, \$4.00; 1,000, \$36.00.

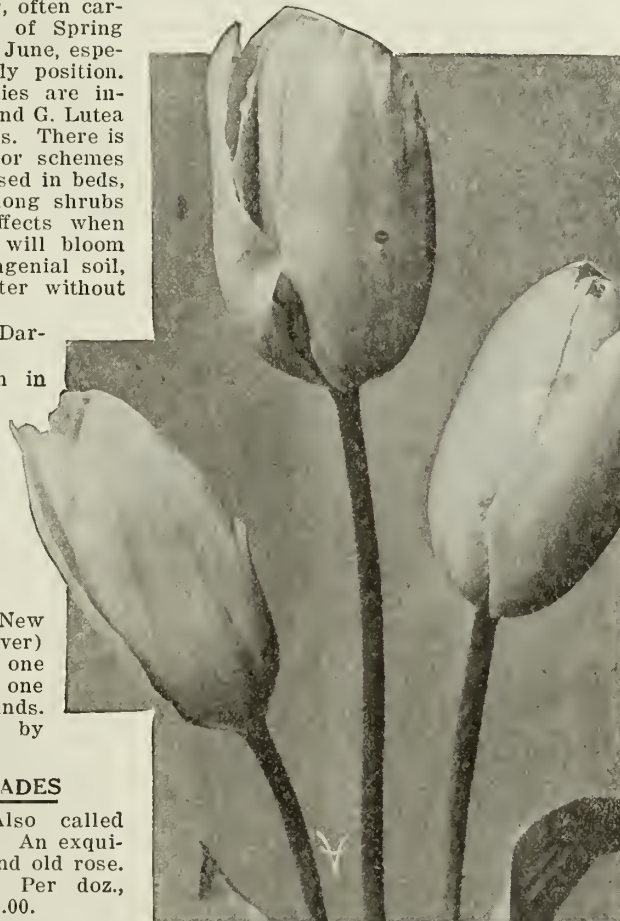
Royal White. Pure white, yellow center, large flower. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

The Fawn. (20 in.) Egg-shaped bloom of yellowish fawn color, blended with pale rosy lavender and blush pink margin. One of the prettiest of all late tulips. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

YELLOW AND STRIPED SHADES

Avis Kennicott. (24 in.) Long pointed bloom of pure yellow, edges of petals slightly frilled. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

***Bouton d'Or.** (16 in.) Round shapely blooms of the purest gold. Good for massing in beds or borders and very fine for vases when cut. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.



FAIRY QUEEN (Cottage Type)

Rosy Heliotrope Blending into Golden-Yellow

PINK AND ROSE SHADES

Hobbema. (16 in.) Also called American Lac and Le Reve. An exquisite shade of salmon pink and old rose. Perfect shape and early. Per doz., \$1.15; 100, \$8.00; 1,000, \$75.00.

***Inglescombe Pink.** (24 in.) Beautiful clear pink with amber tinge inside, later becoming pure pink. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Planting.—Treat same as Darwins.

***For Pots.**—When grown in pots, these, like the Darwin tulips, can be had in flower indoors during March and April, in a temperature not exceeding 55 degrees. Those best suited for growing in this way are marked *.

Parcel Post.—If you wish bulbs sent by parcel post, add to our prices postage at zone rates from Chicago or New York (see inside front cover) counting twelve bulbs as one pound, fifty as four pounds; one hundred as seven pounds. Larger numbers are sent by express.

Cottage Tulips—May-Flowering

YELLOW AND STRIPED—Continued

***Billietiana Illuminator.** (24 in.) This grand tulip was offered by us in America for the first time three years ago in an immense yellow flower, deeply margined and splashed with crimson, with dark Ixia-like base. Has won many awards Per doz., \$2.35; 100, \$18.00.

***Columbus. (Gala Beauty.)** (18 in.) Medium jointed blooms of rich golden yellow, feathered and splashed with intense glowing scarlet. Sweet scented. A delightful combination of color, distinct from all others. Per doz., \$1.00; 100, \$7.50; 1,000, \$70.00.

Elegans Lutea. (Golden Spire.) (18 in.) Immense pure yellow, the edges of the petals tipped and splashed with red. Almost as fine as Mrs. Moon, but not so tall. Doz., \$1.00; 100, \$6.50; 1,000, \$60.00.

Ellen Willmott. (20 in.) Long pointed bloom of pale primrose yellow, edged golden yellow. Sweet scented. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

***Gesneriana Lutea.** (20 in.) A very shapely bloom of the purest yellow; distinctly sweet scented. One of the best yellow tulips in existence for color and perfume. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Gesneriana Lutea Pallida. (Mrs. Keightley.) (20 in.) A pale primrose form of the preceding, highly perfumed and a little earlier. A charming tulip. Per doz., \$0.65; 100, \$4.25; 1,000, \$38.00.

Inglescombe Yellow. (18 in.) A fine, large, globe-shaped flower, color full rich yellow; sometimes called the Yellow Darwin. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

***Parisian Yellow.** (22 in.) Large, handsome clear yellow flowers, borne on long stems. Fine for cutting. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

***Ixioides.** (18 in.) Pure lemon yellow, very distinct, pointed bloom similar to Ges. Lutea Pallida, but has a jet black base. When fully open resembles a giant Ixia, from which it derives its name. Late and lasts. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

Mrs. Moon. (30 in.) This is beyond doubt the finest late yellow tulip in existence. The blooms are long and pointed, the outer petals reflexed. Distinctly perfumed. Highly recommended for large beds and borders. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.

Moonlight. (20 in.) Oblong blossoms of delicate pale yellow. Very distinct. Plant in semi-shade. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

Retroflexa. (16 in.) This is quite a distinct and charming type. Large pale yellow flowers, with pointed petals, elegantly recurved. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Vitellina. (22 in.) A charming flower of an exquisite pure pale primrose shade. Per doz., \$0.60; 100, \$4.25; 1,000, \$38.00.

Yellow Picotee. (20 in.) Pure Yellow, margined crimson, becoming splashed and feathered with crimson at maturity. Large elegant flower. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

SCARLET AND RED SHADES

***Caledonia.** (20 in.) Beautiful globe-shaped flower of a bright orange color. Splendid, planted with a deep red. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

*VAUGHAN'S SPECIAL MIXTURE COTTAGE TULIPS

AN excellent collection of named varieties, giving a dazzling display in mass. Splendid for cutting. Per doz., \$0.60; 100, \$4.00; 1000, \$35.00.
Regular mixed. Per doz., \$0.45; 100, \$3.00; 1000, \$27.00.

Elegans. (16 in.) Dark crimson, reflexed petals. Very early. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Gesneriana Major (Spathulata Major.) (24 in.) Rich crimson-scarlet, with blue basal blotch. One of the best of its color for large plantings especially in combination with yellow or white. Per doz., \$0.65; 100, \$4.25; 1,000, \$38.00.

Gesneriana "Orange Globe." (22 in.) Rich crimson-scarlet, shading to orange. A grand contrast with Gesneriana Lutea Pallida. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Glare of the Garden. (18 in.) Large egg-shaped blooms of rich velvety crimson, with black and gold base. Pronounced the finest of all late crimson tulips. Doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Hammer Hales. Rich mahogany brown-edged, orange. Per doz., \$1.60; 100, \$12.00.

Inglescombe Scarlet. (16 in.) Brilliant vermilion with a black base. One of the best reds. Per doz., \$0.60; 100, \$4.00; 1,000, \$36.00.

John Ruskin. Large egg-shaped bloom of graceful form and habit. Flowers salmon rose with pale yellow margin; inside heliotrope with golden border and base. One of the choicest in this list. Per doz., \$0.80; 100, \$5.25; 1,000, \$48.00.

***La Merveille.** (20 in.) Extra large fragrant flower, suffused with apricot-orange. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

***Scarlet Emperor.** (24 in.) Brilliant glowing scarlet. Flowers of gigantic size, cup shaped, with clear yellow base. (Awarded 1st-class certificate R. H. S., England.) Per doz., \$1.20; 100, \$7.50; 1,000, \$70.00.

BREEDER

OUR list of Breeder tulips has been considerably enlarged this year because of the growing popularity of their unusual shades, and giant blossoms. They blossom in May and though not so tall, perhaps, produce as a rule even larger blossoms than the Darwins.

The colors include many rare among flowers—browns, bronzes, purples, blue-blacks, deep mauves, dull gold and dark lilac, all so exquisitely blended as to produce perfect harmony and effective contrasts when planted with their more brilliant Darwin and Cottage companions.

Planting Directions: Plant and treat like Darwin Tulips.

Parcel Post weights are also the same.

Apricot. (24 in.) Bronze shaded Apricot, olive base, large flower. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

Bacchus (28-in.). Dark violet-blue, very large flower, very handsome. Per doz., \$3.50; 100, \$25.00.

Bronze Queen (28-in.). Soft buff, inside tinged golden-bronze, good forcer. Per doz., \$0.80; 100, \$5. 1,000, \$50.00.

Cardinal Manning. (28 in.) Wine-red, flushed rosy-brown. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

VELVET
KING

BREEDER
TYPE



TULIPS

Coridion (24-in.). Clear yellow, very distinct. Per doz., \$1.50; 100, \$10.00.

Don Pedro. A beautiful shade of coffee-brown shaded maroon inside rich mahogany. Per doz., \$1.50; 100, \$10.00.

Fen Ardent. (24 in.) Brilliant fiery red, good forcer. Per doz., \$1.10; 100, \$7.50; 1,000, \$70.00.

General Ney. (25 in.) Old gold with olive. Large flower. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

Godet Parfait (30-in.). Bright violet with white base, very large flower. Per doz., \$1.15; 100, \$8.00; 1,000, \$75.00.

Golden Bronze (24-in.). Beautiful bronzy yellow, good forcer. Per doz., \$1.50; 100, \$10.00.

Jaune d'Oeuf (26-in.). Outside orange-red, inside orange, good forcer. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Le Mogol (26-in.). Clear lilac, flushed white. Per doz., \$1.00; 100, \$7.00; 1,000, \$65.00.

Louis XIV (New). (16 in.) An immense flower, rich purple, with golden-bronze margin; inside bronzy purple. A gigantic and very handsome tulip. Per doz., \$3.50; 100, \$24.00.

Breeder Tulips—May Flowering

CONTINUED FROM PAGE 8.

Incifer. (18 in.) Bright terra-cotta-orange. Very large. Per doz., \$1.50; 100, \$10.00.

Madame Lethierry (26-in.). Salmon, very handsome. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

Panorama (Fairy) (26-in.). Reddish mahogany, good forcer. Per doz., \$1.50; 100, \$10.00.

Plutarchs (26-in.). Bronze, shaded at base with terra-cotta, a very handsome Tulip. Per doz., \$1.50; 100, \$10.00.

Prince of Orange. Orange-scarlet edged light yellow, flower of striking beauty. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

Queen Alexandra (23-in.). A beautiful new late Tulip with a very elegant shaped flower, soft sulphur yellow with black anthers. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

Samson (25-in.). Violet, bronze bordered, good forcer. Per doz., \$1.25; 100, \$9.00.

Superba (27-in.). Shining velvet black, brown tinted. Per doz., \$1.10; 100, \$8.00; 1,000, \$75.00.

Trenne. (25 in.) A remarkably fine tulip of rich purple, broadly margined amber. Inside brownish-yellow. Per doz., \$1.15; 100, \$8.00; 1,000, \$75.00.

Velvet King. (21 in.) Crimson maroon, reflecting a purplish "bloom"; deep crimson inside. Creamy white base. Rounded petals. Distinct in color and shape from Zulu. Very fine. Per doz., \$1.60; 100, \$12.00.

Violet Queen. Large ruby-violet of stately habit. Per doz., \$1.15; 100, \$7.50; 1,000, \$70.00.

Yellow Perfection. (24 in.) Light bronze yellow. Per doz., \$0.75; 100, \$5.25; 1,000, \$48.00.

**VAUGHAN'S SPECIAL MIXTURE
OF BREEDER TULIPS**

An excellent collection of this popular class of Tulips, including many rare colors.
Per doz., **55c**; 100, **\$3.65**; 1,000, **\$33.00**.

Vaughan's Early-Flowering Tulips

STARTING with the Early Single varieties listed hereunder and followed by the glorious Darwin and Cottage Tulips, already described, an extended flowering season is carried on during April and May; and such colors! From the extremes of deep crimson, brilliant, scarlet, yellow and white, every intermediate shade and blending is included in these grand flowers, giving plenty of material for contrasts and favorite color schemes.

The popularity of the May flowering varieties—the Darwins, Cottage and Breeders, hitherto described, should not be allowed to overshadow the early flowering tulips. These hardy pioneers fearlessly thrust their heads through the cold, wet soil long before most other plants have stirred from winter's sleep. Their burst of color, heralding the spring, cannot be spared from the drab landscape of our chilly northern April.

Planting.—Do not use fresh stable manure at any time, either in the soil or as a mulch, or you will have no flowers. Plant four to

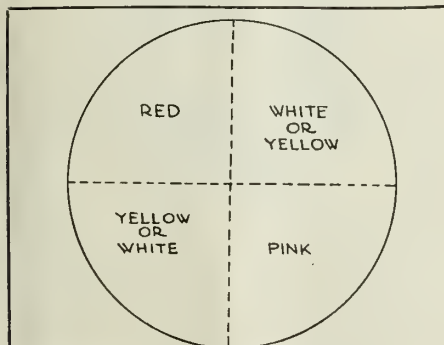
six inches apart and four inches deep. Dig Bone Meal into the beds or borders before planting, about two handfuls to the square yard. When the beds or borders are made, have them raised 4 to 6 inches above the adjacent walk or lawn, this insures proper drainage and prevents lodgments of water around the bulbs, and subsequent rotting. Thoroughly rotted manure (if procurable) may be placed under the bulbs either in beds or pots, but it should not come in contact with them. Put five or six bulbs in a six-inch pot or pan. This is generally the quantity to use.

Explanatory.—The number following the name of the variety denotes the height in inches, while the (a) and (b) indicate their earliness of bloom—the (a's) flower together and are earliest; the (b's) flower together, but are somewhat late. The Duc Van Thol Tulips should be used for pots only.

Parcel Post.—12 bulbs weigh 1 lb.; 50, 4 lbs.; 100, 7 lbs. Add postage at zone rates on inside of front cover.



Couleur Cardinal
Large Crimson Single



SPECIAL OFFER
SINGLE TULIP BEDS— Early Flowering

We can furnish at a special price, bulbs for circular beds in four colors, varieties to be our selection. Shallow rooted plants can be grown in these beds without removing the tulips, except once in three years. For planting in parkways these beds are ideal. Plant the bulbs either 4 or 6 inches apart.

For 3-ft. bed planted 4 in. apart, 96 tulips, 24 each, red, white, yellow and pink **\$3.25**, postpaid.

For 3-ft. bed planted 6 in. apart, 36 tulips, 9 each, red, white, yellow and pink, **\$1.25**, postpaid.

For 4-ft. bed planted 4 in. apart, 128 tulips, 32 each, red, white, yellow and pink, **\$4.50**, postpaid.

For 4-ft. bed, planted 6 in. apart, 60 tulips, 15 each, red, white, yellow and pink, **\$2.00**, postpaid.

SINGLE-FLOWERING

SINGLE PINK AND ROSE

Flamingo, 8a, Carmine-rose and white. Per doz., \$1.00; 100, \$6.50; 1,000, \$60.00.

Mme. Frylink, 8b, very fine pink. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

Queen of the Netherlands, 10a, pale pink. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Pink Beauty, 12b, bright rose pink shading to blush-white. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

Princess Wilhelmina, 12a, deep rosy red, flushed white. Per doz., \$0.60; 100, \$4.00; 1,000, \$36.00.

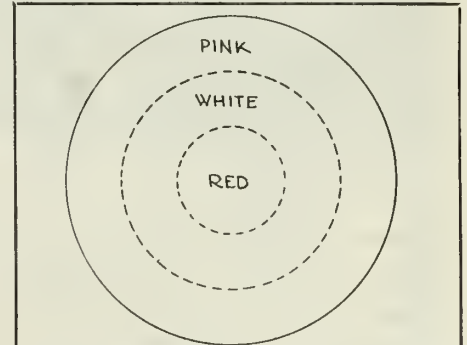
Proserpine, 9a, glossy pink, early. Per doz., \$1.00; 100, \$6.50; 1,000, \$60.00.

Prosperity. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

Rose Gris de Lin, 7b, delicate rose, flushed white. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Rose Lnisante, 7b, brilliant deep pink. Per doz., \$0.75; 100, \$5.25; 1,000, \$48.00.

Vaughan's New Pink, 8a, pink, shaded white. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.



SPECIAL OFFER
DOUBLE TULIP BEDS— Early Flowering

We can furnish at a special price bulbs for circular beds in three colors, varieties to be our selection. Shallow rooted plants can be grown in these beds without removing the tulips, except once in three years. For planting in parkways these beds are ideal. Plant the bulbs either 4 or 6 inches apart.

For 3-ft. bed, planted 4 in. apart, 96 tulips, 32 each, pink, white and red, **\$3.25**, postpaid.

For 3-ft. bed, planted 6 in. apart, 36 tulips, 12 each, pink, white and red, **\$1.25**, postpaid.

For 4-ft. bed, planted 4 in. apart, 126 tulips, 42 each, pink, white and red, **\$4.50**, postpaid.

For 4-ft. bed, planted 6 in. apart, 60 tulips, 20 each, pink, white and red, **\$2.00**, postpaid.

Early Tulips—Single-Flowering Varieties

(Continued from Page 9)

SINGLE SCARLET AND CRIMSON

- Artus**, 7b, a splendid deep scarlet. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.
Belle Alliance, 8b, brilliant scarlet. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.
Brilliant Star, 8a, bright glowing scarlet; very early. Per doz., \$1.00; 100, \$7.00; 1,000, \$65.00.
Conleur Cardinal, 8a, crimson. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.
Cramoisi Brilliant, 7b, bright scarlet. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.
Duc Van Thol, 6a, scarlet. For pots only. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.
Dusart, 7a, dark red. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.
Sir Thomas Lipton, 12a, rich crimson-scarlet. Per doz., \$0.75; 100, \$5.25; 1,000, \$47.00.
Vermillion Brilliant, 7b, dazzling vermilion-scarlet, fine for pots. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

SINGLE WHITE

- La Reine**, 8b, white, shaded rose. Per doz., \$0.55; 100, \$3.50; 1,000, \$30.00.
Pottebakker White, 9a, pure white. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.
Princess Helena, 10a, pure white. Per doz., \$0.60; 100, \$4.25; 1,000, \$38.00.

Princess Marie Anne, 8a, white, shaded rose. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Queen of the Whites, 10a, pure white. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Von Vondel, 8b, pure white, splendid. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.

White Swan, 15b, pure white. Per doz., \$0.60; 100, \$4.00; 1,000, \$36.00.

White Hawk, 7a, white; very fine. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

STRIPED, MARGINED OR OTHERWISE

Cottage Boy, 12b, orange-red, bordered yellow. Per doz., \$0.60; 100, \$4.00; 1,000, \$38.00.

Duchesse de Parma, 9b, orange-scarlet, yellow edge. Per doz., \$0.60; 100, \$4.00; 1,000, \$36.00.

Duc de Berlin, 6a, clear scarlet, edged yellow. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Grand Duke (Keizerskroon) 10b, red with distinct wide golden border, one of the finest. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Prince of Austria, 8a, orange-vermilion. Per doz., 60c; 100, \$4.00; 1,000, \$36.00.

President Lincoln, 8b, light violet. Per doz., 60c; 100, \$4.00; 1,000, \$35.00.

Thomas Moore, 7b, apricot-orange. Per doz., 55c; 100, \$3.50; 1,000, \$30.00.

Wouwerman, 7b, dark violet. Per doz., 65c; 100, \$4.50; 1,000, \$40.00.

These flowers are indispensable.

SINGLE YELLOW

Chrysolora, 8b, golden-yellow; fine bedder. Per doz., \$0.60; 100, \$4.25; 1,000, \$38.00.

Fred Moore, 10b, deep orange, edged yellow. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Gold Finch, 7a, pure yellow, sweet scented. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Golden Queen 12b, beautiful golden-yellow. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.

Mon Tresor, 7a, pure yellow; large cup. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

Prince de Ligny, 12a, golden-yellow. Per doz., \$0.60; 100, \$4.00; 1,000, \$37.00.

Rising Sun. Per doz. \$0.75; 100, \$5.00; 1,000, \$45.00.

Yellow Prince, 8a, golden yellow; fine forcer. Per doz., \$0.55; 100, \$3.50; 1,000, \$32.00.

Extra Fine Single Mixed

Per doz., 40c; 100, \$2.70; 1,000, \$24.00.

Vaughan's Special Single Mixed

Per doz., 50c; 100, \$3.25; 1,000, \$30.00.



COURONNE D'OR (CROWN OF GOLD)

DOUBLE RED

Planting directions and parcel post weights are given on page 9; also explanation of code number and letter following name of each variety.

Imperator Rubrorum, 9a, bright scarlet. Per doz. 75c; 100, \$5.00; 1,000, \$45.00.

Le Matador, 12c, scarlet with purple glow. Per doz., 65c; 100, \$4.50; 1,000, \$42.00.

Rubra Maxima, 8b, dazzling scarlet. Per doz., 50c; 100, \$3.50; 1,000, \$32.00.

Toreador, reddish orange and yellow. Per doz., \$1.00; 100, \$7.00; 1,000, \$65.00.

Vuurbaak, 9b, bright scarlet, suffused orange. Per doz., 75c; 100, \$5.00; 1,000, \$45.00.

Vaughan's Double Early Tulips

WHAT we said on the preceding page about Tulips applies to the Double Tulips with their mammoth peony-like flowers of brilliant and beautifully diversified colors. They are very effective in beds on lawns and terraces. The flowers last much longer in bloom

than the single varieties and consequently, when single and double are planted in one bed, the time of flowering is prolonged from two to three weeks. Early sorts do very well when grown in pots for winter blooming, but they must be forced more slowly than the Single Tulips.

DOUBLE WHITE

Boule de Nieve, 10b, pure white. Per doz., 55c; 100, \$3.50; 1,000, \$32.00.

La Grandesse, 12b, blush-white. Per doz., 60c; 100, \$4.25; 1,000, \$38.00.

Schoonoord (White Murillo), 12b, pure white. Extra fine. Per doz., 55c; 100, \$3.50; 1,000, \$32.00.

DOUBLE PINK

Couronne des Roses, 10b, bright pink. Per doz., 80c; 100, \$5.50; 1,000, \$50.00.

Lac Von Haarlem, 12c, rosy-violet. Per doz., \$1.00; 100, \$6.50; 1,000, \$62.00.

Lord Roseberry, 10b, light pink. Per doz., 65c; 100, \$4.50; 1,000, \$40.00.

Lucretia, 14b, deep rose. Per doz., 60c; 100, \$3.75; 1,000, \$34.00.

Murillo, 7a (fancy), large pink, suffused white. Per doz., 50c; 100, \$3.50; 1,000, \$30.00.

Salvator Rosa, 8a, beautiful rose, fine forcer. Per doz., 60c; 100, \$4.25; 1,000, \$38.00.

DOUBLE YELLOW

Brimstone Beauty, 12b, yellow and apricot. Per doz., 65c; 100, \$4.50; 1,000, \$40.00.

Couronne d'Or (Crown of Gold), 10a, beautiful rich, golden yellow. Per doz., 65c; 100, \$4.50; 1,000, \$40.00.

Golden King, 12b, large pure deep yellow. Per doz., \$1.00; 100, \$6.50; 1,000, \$60.00.

DOUBLE STRIPED OR OTHERWISE COLORED

Gloria Solis, 9a, bright scarlet, yellow border. Per doz., 60c; 100, \$4.00; 1,000, \$36.00.

Titian, 8b, scarlet, edged yellow. Per doz., 65c; 100, \$4.50; 1,000, \$42.00.

Tournesol, Red and Yellow, 8a, very showy. Per doz., 75c; 100, \$5.00; 1,000, \$45.00.

A SPLENDID LATE DOUBLE TULIP

Bleu Celeste (Blue Flag). Blooming in May with the Cottage Tulips, this magnificent variety makes a wonderful showing in the herbaceous border, or in the partial shade of low shrubs. The blooms are large and very double (resembling a good double peony), a delightful shade of pale bluish-purple and are borne on long stems, making them splendid decorative flowers. Per doz., \$1.00; 100, \$6.50; 1,000, \$60.00.

VAUGHAN'S MIXTURES OF DOUBLE TULIPS

Vaughan's Special Mixture. This mixture we make up ourselves from the best named varieties and with such that will bloom about the same time, and of about the same height. Do not compare this mixture with regular mixtures which are made up by the Holland growers of cheap sorts. Per doz., 60c; 100, \$4.00; 1,000, \$35.00.

Extra Fine Double Mixed. Per doz., 50c; 100, \$3.00; 1,000, \$27.00.

Daffodils



Incomparabilis-Gloria Mundi.



Barri Conspicuus.

WOOD and water nymphs seeking the body of the beloved Narcissus found in its place only a flower, blood red within its cup, surrounded with white petals. The Egyptians, we are told, decked their mummies with narcissus. But despite its ancient lineage, the narcissus, or better, the daffodil, as we know it, is a creation of the last half century.

English clergymen, by careful and enthusiastic work in hybridising have produced the majority of the finest varieties now in commerce. Unfortunately our climate is not so favorable to daffodils as that of England and only a few varieties will make a permanent home with us. Those listed in this book have been tried and found to stand the test.

First Heralds of the Spring

OFTEN in March the great golden trumpets announce the coming of spring and frequently they are in bloom above a carpet of snow. No garden plant is hardier and none combine more good qualities, including long stems for cutting, fine keeping qualities, ease of culture either in pots in the house or in the open, with a remarkable variety of shape and form.

The daffodil enthusiasm which annually manifests itself in England in great spring shows where new varieties are displayed, has not reached this country and may not do so, as it takes great patience to wait from five to seven years for seedlings to develop. But we may easily avail ourselves of the results of work abroad.

The new giant trumpets such as Olympia and Van Waveren's Giant—double the size of Emperor—a great race of crosses with the fragrant and snowy poeticus—the cream and white Leedsii class—the new scarlet cupped varieties—all offer wonderful garden material at very moderate price.

Peter Barr, of England, is known as the father of the modern daffodil. He sought new varieties all over the world where they were known to grow. He also collected hybrid varieties and produced many himself. We owe many fine varieties to Rev. George Herbert Englehart. And there are hundreds of others at work cross breeding and producing each year new varieties.

Types of Daffodils Defined

THE Royal Horticultural Society of England divides the narcissus family into eleven sections and these with subdivisions to make it possible to classify the hundreds of new varieties appearing each year. As now accepted the various classes are as follows:

I. Trumpet Daffodils. (a) Varieties with yellow or lemon colored trumpets and perianth of same shade or lighter, but not white. (b) Varieties with white trumpet and perianth. (c) Bicolor varieties, those having white or whitish perianth and yellow, lemon, or primrose trumpets. Examples: (a) Emperor; (b) Mme. de Graaf; (c) Empress.

II. Incomparabilis. Cup or crown not less than one-third, but less than equal to the length of the perianth segments. (a) Yellow shades, with or without red coloring in the cup. (b) Bicolor varieties, with white or whitish perianths and self yellow, red stained or all red cups. Examples: (a) Sir Watkin; (b) Lucifer.

III. Barrii. Cup or crown less than one-third the length of the perianth segments. (a) Yellow shades, with or without red coloring on the cup.

(b) Bicolor varieties, with white or whitish perianth and self yellow, red stained or red cups. Examples: (a) Barrii Conspicuus; (b) Incognita.

IV. Leedsii. Perianth white and cup or crown white, cream, or citron, embracing all sizes found in the Incomparabilis and Barrii classes. Examples: Mrs. Langtry, White Lady.

VIII. Tazetta and Tazetta Hybrids. Includes the bunch flowered or polyanthus narcissus and the poetaz varieties. Examples: Paper White, Elvira.

IX. Poeticus varieties. Example: Horace. Other classes are omitted as they are not suitable for our gardens.

The parents of the vast race of daffodils and narcissus were the trumpet narcissus or true daffodil and the poet's narcissus, the common fragrant, snowy white variety with little red rimmed cup often wrongly called jonouils. This

little key will show how from these two the hundreds of varieties we now have originated.

A trumpet as a seed parent crossed with poeticus gave us the incomparabilis class. A white trumpet and poeticus gave us the Leedsii class, the small white trumpet varieties the ordinary Leedsii and a big white trumpet, the fine race known as Giant Leedsii.

Poeticus and a polyanthus or Tazetta variety gave us the Poetaz class.

One cross produced an entire new race of daffodils which for a time were known by the name of their originator, the Engleheartii class, but they are now classed as Barrii. This was the crossing of the Incomparabilis variety, Princess Mary, with poeticus. The result of this cross gave a series of flowers with flat, wafer-like crowns instead of the usual cup. Some of them were rimmed with red, some all yellow, and some all red. These in turn were crossed and gave rise to hundreds of the newer daffodils. Unfortunately, Princess Mary will not thrive in the United States and sometimes not even in England and the seedlings of this cross inherit her weak constitution and only a few of them will persist in our gardens, these being seedlings in which poeticus blood is preponderant.

Culture of the Daffodil

THE daffodil tribe likes a cool root run and its flowers are at their best in the cooler days of spring. Therefore it is essential to dig the soil deeply and provide humus. Like the tulip, the daffodil will not thrive if there is fresh manure in the soil and bone meal alone should be used as a fertilizer when the bulb is planted. It likes a moist soil but it must have excellent drainage. The bone meal should be mixed in the soil below the bulb and if the soil is heavy, a cushion of sand is advisable.

The bulbs should be planted six inches deep and about the same distance apart. The white trumpets and Leedsii varieties seem to take more kindly to a somewhat sandy soil. The yellow trumpets, particularly King Alfred, like a fairly heavy retentive soil. King Alfred will not flourish in light soil.

Some varieties like Poeticus, Barrii conspicuus, Leedsii, Mrs. Langtry and a few others will naturalize themselves and increase by the wholesale. The brilliantly colored varieties should be given shady places, as the color burns and disappears if they are in full sun.

Where to Plant Them

DAFFODILS are particularly fine subjects to plant under the edge of bushes or among perennials in the hardy border as they seem to like to nestle among the roots of their neighbors. A clump of golden trumpets peeping from beneath the overhanging branches of Spiraea Van Houttei or nestling in a sheltered angle of a building are one of the gladsome sights of early spring.

Planted in drifts of 100 or more, Golden Spur, the earliest of all, Emperor, Empress, Victoria, Mme. de Graaf, are sights in the spring garden long to be remembered.

The creamy Leedsii varieties with blue grape hyacinths or the early dwarf purple iris form a favorite planting.

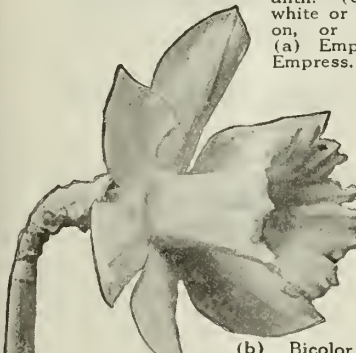
A few bulbs can be tucked into odd corners all about the garden and they will repay mightily when the first sunny days of spring bring their sturdy shoots breaking through the earth.

Daffodils and narcissus need not be moved for several years if they are flourishing, in fact not until the clump becomes so large that it is evident it needs to be divided and they should be replanted at once. August and early September are the best months to plant but it is impossible to

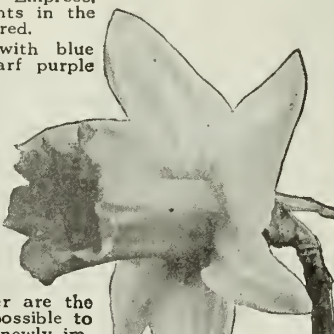
do so with newly imported bulbs which rarely reach us before October. However, with home grown bulbs, the early planting may be followed with good results.

The bulbs should be dug when the foliage falls over and starts to turn yellow. The narcissus does not remain long at rest but soon sends out a new root growth, so it should be watched carefully and not be allowed to remain too long in the ground after the foliage has died down if it is necessary to dig it.

Under American conditions some daffodils prove as hardy as rocks and reproduce and make themselves a permanent fixture in the garden. Others flourish for a season or so and then pine away. It is a matter of experimenting but it is well worth the trial and the expense of importing to find a few hardy ones.



Large Trumpet-Golden Spur.



Bicolor Trumpet-Empress.



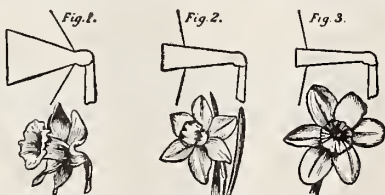
Poetaz - Triumph.

Vaughan's Daffodils

WE HAVE had many years' experience as importers of daffodils for outdoor and indoor growing. The varieties in our list are carefully chosen from the large number of varieties grown abroad, where climatic conditions are much more favorable to these flowers than in our own country. We do the experimenting for you, in putting the improved varieties to test before offering them.

The quality of our bulbs is of the highest, thanks to the knowledge of standard and reliable sources which our long experience supplies. Those who have bought Vaughan's bulbs before, need no assurance of this; and the beginner in this enchanting field of garden art will have every chance of success with Vaughan's daffodil bulbs.

Those we offer are all choice distinct types of the different groups, some moderately priced new kinds being listed each year. They are perfectly hardy (excepting the Polyanthus group), and do well in any location, flowering and increasing yearly. Groups of Daffodils in the border with perennial plants or along the edges of shrubbery are exceedingly effective. Nothing is finer for winter flowering in greenhouses and window gardens or growing in pots or pans. Three or four bulbs can be planted in a 6-inch pan and should be given the same treatment as early Tulips. For outdoor culture plant the bulbs 5 or 6 inches apart, fertilizing with bone meal at the rate of two handfuls to a square yard. Never dig in fresh manure.



CLASSIFICATION OF NARCISSI OR DAFFODILS

"Daffodils" or "Narcissi" are divided into three main divisions: (A) **MAGNI CORONATI**, large trumpet Daffodils; (B) **MEDIO CORONATI**, medium sized trumpets, and (C) **PARVI CORONATI**, small cupped varieties. If a Narcissus bloom is examined,

it will be found to consist mainly of two parts: (1) a long expanding tube, and, (2) a perianth (the petals or perianth segments), bending outwards from

the tube; the three classes mentioned above depend upon the point on the tube or trumpet at which the petals are attached.

When all the petals come from the base, so that the tube entirely forms the trumpet, the flower belongs to the **Magni Coronati** (Fig. 1). When they come further forward on the tube, thus shortening the trumpet in front by about half, it

belongs to the **Medio Coronati** (Fig. 2), and when the perianth is still more forward until the trumpet appears small-cupped or saucer-shaped, this is a type of **Parvi Coronati** (Fig. 3). Example 1—**King Alfred**; example 2—**Gloria Mundi**; example 3—**Ineognita**.



VAN WAVEREN'S GIANT. LARGEST OF ALL TRUMPETS. SEE PAGE 13.

Large Trumpets ALL YELLOW

Parcel Post. Large bulbs, 12 weigh 1½ lbs.; 50, 5 lbs.; 100, 10 lbs. Mammoth bulbs, 12 weigh 3 lbs.; 50, 9 lbs.; 100, 18 lbs. Price "each" includes postage. Add postage at Zone Rates.

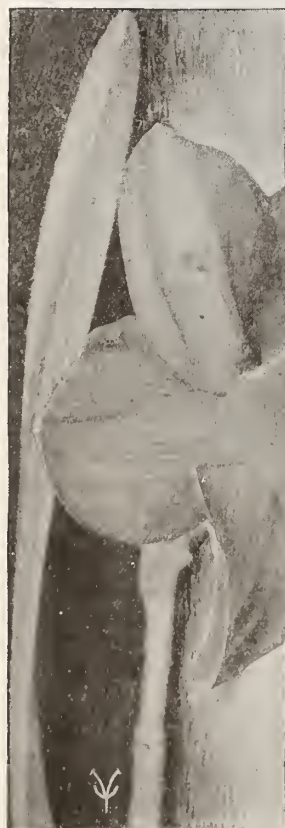
Vaughan's Christmas Glory. Perianth pale yellow and full. Medium size trumpet of rich yellow, well expanded and prettily frilled. Very productive, large bulbs giving from three to six blooms each. A week to 10 days earlier than any other in this list. Invaluable indoors on account of its earliness and free-blooming qualities. Doz., \$1.20; 100, \$7.50; 1,000, \$70.00.

Emperor. A magnificent sort. The entire flower is a rich yellow; trumpet of immense size and petals so broad that they overlap. Three of these bulbs planted in a 6-inch pot will make a splendid show. Large bulbs, per doz., \$0.75; 100, \$5.00; 1,000, \$45.00. Mammoth bulbs, per doz., \$1.00; 100, \$6.75; 1,000, \$62.00.

Golden Spur. A tall, vigorous, golden yellow flower, with healthy green foliage. Fine for beds or pots. Very early. Large bulbs, per doz., \$0.65; 100, \$4.50; 1,000, \$40.00. Mammoth bulbs, per doz., \$1.00; 100 \$7.00; 1000 \$65.00.

Glory of Leiden. Immense flowers of majestic appearance; very long, fluted trumpet, rich golden yellow; the perianth segments are very broad, and overlapping; this variety deserves first place in any Narcissus collection. Per doz., \$1.00; 100, \$7.00; 1,000, \$65.00.

King Alfred. "The King of Yellow Daffodils." Tall, vigorous, golden-yellow flower, of elegant form. The expanded trumpet measures 2½ inches in diameter, the perianth proportionately large and segments gracefully twisted. Height, 24 inches. Per doz., \$1.60; 100, \$12.00.



KING ALFRED
The King of Yellow Daffodils.

Large Trumpet Narcissi—Bicolor

These splendid flowers have white or cream perianth segments with primrose or deep yellow trumpets. They are valuable for cut flowers as well as in the border.

Parcel Post. Large bulbs, 12 weigh 1½ lbs.; 50, 5 lbs.; 100, 10 lbs. Mammoth bulbs, 12 weigh 3 lbs.; 50, 9 lbs.; 100, 18 lbs. Price "each" includes postage. Add postage at Zone rates.

Duke of Bedford (New). A bicolor of massive proportions; perianth pure white, 4½ inches across, with large expanding clear yellow trumpet. Doz., \$4.50; 100, \$35.00.

Empress. This makes a fitting companion to Emperor. We think it one of the finest of bicolors. The trumpet is of a rich yellow, with perianth of snow-white petals; flowers bold and erect. Large bulbs Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00 Mammoth bulbs. Per doz., \$1.10; 100, \$7.00; 1,000, \$65.00.

Glory of Noordwijk. A grand bicolor, large yellow trumpet, petals sulphur yellow. Per doz., \$1.40; 100, \$10.00; 1,000, \$90.00

Miss Ellen Terry. Fine white perianth, yellow trumpet, early foreer. Per doz., \$1.60; 100, \$12.00; 1,000, \$110.00.

Mme. Plomp. Pure white perianth, with broad over-lapping segments. Fine yellow trumpet of great substance. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

Mrs. Walter T. Ware. A perfect shaped, very free and early blooming Daffodil with pure white perianth and well expanded, beautifully recurved, golden yellow trumpet. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

Princeps Maximus. A popular variety, being used extensively for naturalizing in woodlands or along streams; one of the best forcing sorts, being very early; perianth sulphur yellow, trumpet rich yellow.

Large bulbs. Per doz., \$0.50; 100, \$3.60; 1,000, \$33.00. Mammoth bulbs. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.

Victoria. Flowers large and erect, with creamy-white perianth of remarkable breadth and good quality; the trumpet is a clear rich yellow and frilled at mouth. Large bulbs. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00. Mammoth bulbs. Per doz., \$1.10; 100, \$7.00; 1,000, \$65.00.

The Darwin and Cottage Tulips which I purchased last fall are the wonder and delight of myself and friends and I can hardly wait until the fall catalog comes so I can order more.
JULIA SCHUELER, Fort Dodge, Ia.



Leedsii-Duchess of Westminster

LARGE TRUMPETS—Continued

Olympia. Sulphur yellow perianth, handsome yellow frilled trumpet. Per doz., \$2.25; 100, \$16.00.

Spurius Major (Single Von Sion). Flower large and of a uniform deep golden-yellow. Highly prized as a forcing sort and large planted outside. Per doz., \$0.65; 100, \$4.50; 1,000, \$42.00.

Van Waveren's Giant. The largest of all trumpets, perianth primrose, trumpet bright orange-yellow. Per doz., \$2.25; 100, \$16.00.

MEDIUM-SIZED TRUMPETS

Incomparabilis Class

THIS class includes many of the most beautiful and useful Daffodils for bedding, naturalizing and border planting. Strong growers, hardy and free bloomers. Forced for winter flowers, they are splendid.

We include under this heading the beautiful Leedsii kinds, which belong to it only in shape, but are quite distinct in color. All have the purest white perianths and as a rule white cups, though some are often shaded primrose or faint buff-orange.

Parcel Post. Weights of all the following bulbs are as follows: 12 bulbs, 1 lb.; 50, 5 lbs.; 100, 10 lbs. Add postage at Zone Rates on inside of front cover.

Autocrat. A flower of exquisite shape; perianth and cup a uniform pure yellow. Excellent for pots or beds. Per doz., \$0.65; 100, \$4.50; 1,000, \$40.00.

Beauty. Sulphur-yellow perianth, large yellow cup margined scarlet. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

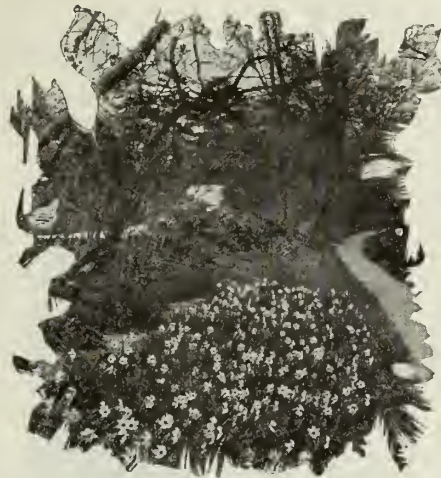
Gloria Mundi. A lovely flower, with fine bold, clear rich yellow perianth, large cup, much expanded, and very heavily stained orange-scarlet; handsome and striking. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

Homespun (Primrose Sir Watkin). One of the finest of all yellow Incomparabilis. Color clear uniform yellow, perfect form, substance and quality. Has received more awards than almost any other Daffodil. Per doz., \$3.00; 100, \$20.00.

Lucifer (New). Long, white segments, long narrow cup, color intense glowing orange-scarlet. Splendid garden plant, as color lasts well in the sun. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

Sir Watkin. A well-known daffodil, excellent for large plantings, or growing in pots. Full perianth of pure yellow with large rich golden trumpet. Large size, per doz., \$0.65; 100, \$4.50; 1,000, \$40.00. Mammoth bulbs, per doz., \$1.00; 100, \$6.75; 1,000, \$62.00.

Will Scarlet. Fiery orange-red cup, very broad and wide open. Per doz., \$3.00; 100, \$20.00.



Daffodils Naturalized in a Woodland

WHITE OR CREAM LARGE TRUMPET

WHITE perianths with white or sulphur trumpets, which change to white as the flowers mature.

Parcel Post. Weights same as above.

Mme. De Graff. The grandest of white daffodils. Broad white over-lapping perianth segments, with cream trumpet, changing to white, beautifully expanded and rolled back. Per doz., \$1.00; 100, \$6.75; 1,000, \$62.00.

Mrs. Thompson. Large and handsome, appears primrose, changing with age to pure white. A strong grower, early and free bloomer. Doz., \$0.75; 100, \$5.00; 1,000, \$47.00.



NARCISSUS VICTORIA
Cream White Perianth, Rich Yellow Trumpet.



TYPE OF NARCISSUS POETICUS
LEEDSII NARCISSUS

ALL have white perianths with white or sulphur trumpets. Most beautiful classes for cutting of all daffodils.

Duchess of Westminster. A most refined and graceful flower, with a large white spreading perianth, and long pale canary cup, which later passes to pure white. Per doz., \$1.20; 100, \$7.50; 1,000, \$70.00.

Evangeline. Pure white perianth, lemon yellow cup. Per doz., \$1.25; 100, \$8.50.

Marie De Graaf. Broad, white perianth, petals and widely expanded primrose crown, often suffused with orange or terra cotta shade. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

Mrs. Langtry. A remarkably free flowering variety, broad white perianth, and white cup opening pale primrose. Valuable for naturalizing. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

White Lady. A giant flowering variety resembling a White Sir Watkin. Large, broad, pure white perianth and a bold frilled cup of pale citron passing to white. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

SMALL CUPPED OR STAR NARCISSI

TO THIS class belong the most interesting of all Narcissi, including the Barri, Burbidgei and Englehearti (Flat Trumpet) sorts. Their pedigree is similar to the Icomparabilis type, but they inherit more of the Poeticus character in having the cups less than one-third of the length of the perianth segments (petals) and more of the red parent blood suffused through the cup. These are usually tipped red, or entirely orange-scarlet, and make dainty flowers for pot culture, or nooks in the garden.

Parcel Post. Reckon postage at 1 lb. per dozen bulbs; 7 lbs. per 100. Add postage to your remittance.

Albatross. Perianth white, cup pale citron-yellow, frilled edged orange-red. Per doz., \$0.75; 100, \$5.00; 1,000, \$45.00.

Barri Conspicuous. A flower of exquisite beauty, unexcelled for cutting; large, broad spreading perianth, broad, short cup conlong in water. Per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

Incognita (New). A beautiful flower, with large white perianth, large, flat cup of a glowing orange apricot color, margined cinnamon-buff. One of the finest of recent introductions. Per doz., \$3.00; 100, \$20.00.

Poeticus Narcissus

THE pure white perianth and all red or picoteed cup and delicious perfume peculiar to itself, makes this one of the most popular of all Narcissi. Millions of these are annually forced for the world's great cut flower markets, and the better, large-flowered, newer types always receive prominence in the choicest corners (usually shady) of the better gardens, and in pots or pans in the best homes and conservatories.

Woodland border and brinks of streams or ponds can also be made peculiarly picturesque when liberal plantings of these unfold their whiteness to the April breezes.

Parcel Post. Reckon postage at rate of 1 lb. per dozen bulbs; 7 lbs. per 100. Add postage to your remittance.

Glory of Lisse. Much better than Poeticus Grandiflorus, pure white yellow cup, very large. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

Horace. Snow-white perianth, dark red cup. Per doz., \$1.75; 100, \$14.00.

King Edward VII (Almira). Magnificent large flowers with broad,



NARCISSUS POETAZ ELVIRA

POETICUS NARCISSUS—Continued

round petals, a glistening white; the yellow cup is edged deep red; very early flowering variety. Doz., \$0.90; 100, \$6.00; 1,000 \$55.00.

Poeticus (Common Pheasant's Eye). The Narcissus for garden planting; pure white with scarlet-edged cup or eye. Fine for naturalizing, being hardy and increases readily in numbers; late. Per doz., \$0.55; 100, \$3.60; 1,000, \$33.00.

Ornatus. A much improved form of the ordinary Poeticus, producing larger flowers and appearing two weeks earlier; for this reason they are especially adapted for forcing and make a splendid cut flower. Large bulbs, per doz., \$0.45; 100, \$2.75; 1,000 \$25.00. Mammoth bulbs, per doz., \$0.60; 100, \$4.00; 1,000, \$35.00.

NARCISSUS POETAZ

(THE HARDY, CLUSTER-FLOWERED
DAFFODIL)

BY CROSSING Poeticus and Polyanthus varieties, growers have succeeded in obtaining this perfectly hardy strain of bunch-flowering Narcissus. Planted in beds they make a mass of flowers. They also do well planted in pots for winter flowers.

Parcel Post. 12 bulbs weigh 1 lb.; 100, 7 lbs. Add postage at Zone rates.

Alsace. Petal pure white with yellow eye; when bursting into flower the eye is slightly edged reddish. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

Aspasia. Perianth pure white, with yellow eye. Large flowers, grows 24 inches, 3 to 4 flowers on a stem. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.

Elvira. Pure white with yellow eye, large flower of remarkably good substance; very long stemmed, 3 to 4 flowers on a stem. Per doz., \$0.80; 100, \$5.50; 1,000, \$50.00.

Irene. Perianth silky sulphur-yellow changing to light yellow; orange eye; large broad truss, bearing 8 to 9 flowers. Per doz., \$1.00; 100, \$6.50; 1,000, \$60.00.

Klondyke. Perianth yellow, with deep golden eye; one of the deepest yellows. Trusses bring 6 to 7 flowers. Per doz., \$1.00; 100, \$6.50; 1,000, \$60.00.

Triumph. Pure white perianth, with deep yellow eye; the largest flowers of this section, resembling Narcissus Bazelman Major. 3 to 4 flowers on a stem. Per doz., \$0.90; 100, \$6.00; 1,000, \$55.00.



A WOODLAWN WALK BORDERED
WITH DAFFODILS

Prineville, Oregon.
The Bulbs arrived in fine condition and were the admiration of all. Many stated that they never saw such large ones and so smooth.

F. E. LAFLER, Prop. The Art Shop.

DAFFODILS OR NARCISSI—Continued

Polyanthus Narcissus (BUNCH FLOWERED)

THE Polyanthus or bunch-flowered Narcissi are not only beautiful, but exceedingly fragrant, and may be grown in bowls or glasses under the same treatment as for Chinese Sacred Lily. Also suitable for window garden, conservatory or garden, very free-flowering and continuing long in bloom. Their tall spikes of bloom bear from six to one dozen flowers each. The pure white petals and gold cups of some varieties, the yellow with deep orange cups of others and the self whites and yellows render them great favorites. They are not quite as hardy as the other types of Narcissus and therefore should be carefully protected in cold climates when grown in the garden.

If by PARCEL POST, 12 bulbs weigh 3 lbs.; 50, 10 lbs. Add postage at zone rates.

Paper White Grandiflora

LARGE FLOWERING—More vigorous and earlier than the old Paper White, producing purest snow-white flowers of large size and good substance. This Narcissus does splendidly when grown in bowls of water and pebbles or moss the same as Chinese Narcissus.

Doz.	100	1000
Medium Bulbs, 12-13 ctms.	\$0.40	\$2.75 \$25.00
Fancy Selected Bulbs, 13 ctms......	.50	3.50 30.00
Mammoth Bulbs, 14 ctms......	.60	4.00 35.00

Double Narcissi

THESE old fashioned daffodils are still very popular, and though they lack the sturdiness of some of the single varieties as bedders, the "Phoenix" varieties have a delightful fragrance and are excellent for cutting, while the old Von Sion has no equal of its class for potting or forcing.

If by Parcel Post, 12 Mother bulbs weigh 3 lbs.; 50, 10 lbs. Other sizes, 12 bulbs, 2 lbs; 50, 7 lbs.

Alba Plena Ordorata—The well known double white, sweet scented form of Poeticus; sometimes called the gardenia-flowered Narcissus. Late flowering, and will not force. Best suited for beds or naturalizing.....

Doz.	100	1000
	\$0.60	\$4.00 \$35.00

Incomparabilis (Butter and Eggs), the double form of Sir Watkin. Light yellow and orange; forces well.....

	.75	5.00	45.00
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Orange Phoenix (Eggs and Bacon) white and orange.....

	.75	5.00	45.00
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Sulphur Phoenix (Codlins and Cream), white and sulphur-yellow. One of the best for cutting and unexcelled for funeral work. As this bulb generally throws two to three flowers, it is a profitable variety to grow.....

	.75	5.00	45.00
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VON SION, the common Double Yellow Daffodil **Mother Bulbs.** (Jumbo Size.) The bulbs are extra large in size, and often give three to five flowers.....

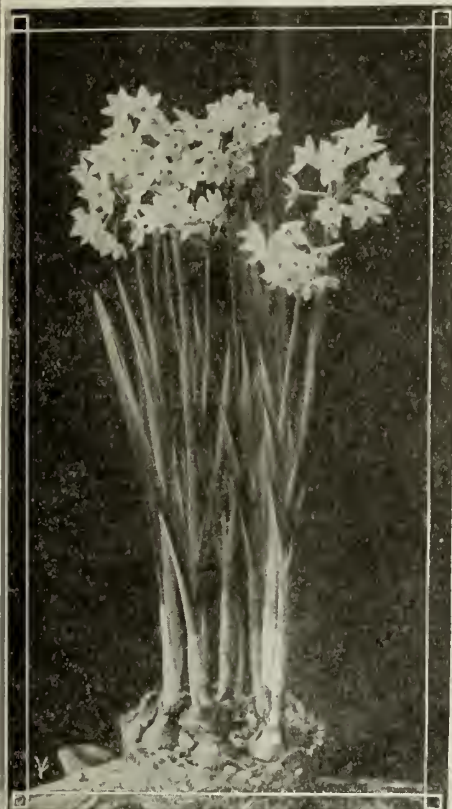
	1.10	7.50	70.00
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VON SION XXX Mammoth Double-Nosed Bulbs, largest and finest roots our growers can select. Each bulb will bring two or more flowers.....

Doz.	100	1000
	\$0.90	\$6.00 \$55.00

VON SION, Fancy Selected Bulbs.....

	.65	4.50	42.00
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PAPER WHITE GRANDIFLORA
(Growing in Gravel)

Double Sacred Lily

Double Roman Narcissus)

GROWN in the same manner as Chinese Sacred Lily. Produces abundance of double flowers; white shaded beautiful yellow; fragrant and lasting. Can be easily brought into bloom for Christmas.

Each, 15c; doz., \$1.50; 100, \$10.00.

True Jonquils—Narcissus

JONQUILS are noted for their graceful, sweet-scented flowers, in or out-of-doors. They thrive well in a moist, shady position in borders, and make splendid edgings to beds of some of the taller Narcissi. For indoor decoration three or four bulbs should be grown in a four or five-inch pot. Add postage at zone rates. 12 bulbs, 1 lb; 100, 7 lbs.

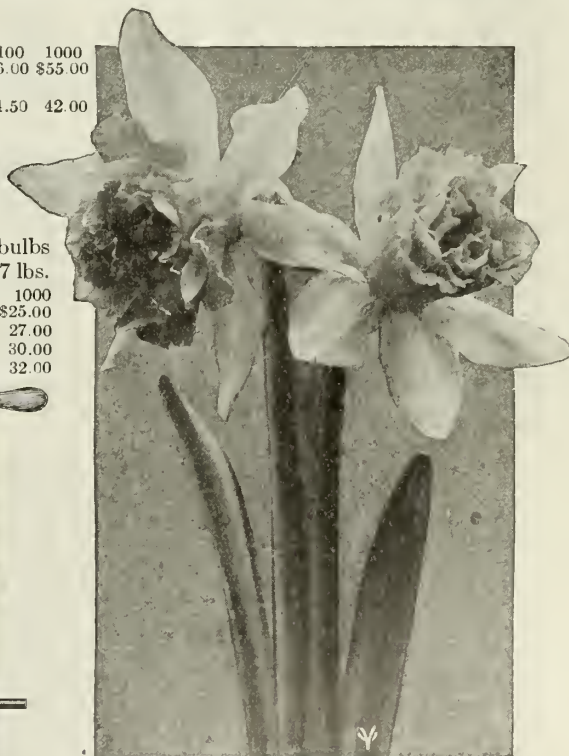
Double. Fragrant. Rich golden-yellow, fragrant flowers, usually two on a stem.....	Doz.	100	1000
	\$0.50	\$2.75	\$25.00
Campernelle. Large, for forcing or bedding. Very fragrant.....		50	3.00 27.00
Rugulosus. Giant-flowered, wrinkled cup, fine for cut flowers, extra fine forcing..		.55	3.25 30.00
Rugulosus Plenus. Double yellow flowers on tall graceful stems. Sweetly perfumed.		.60	3.50 32.00

Bulb Planter

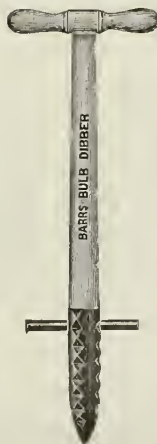
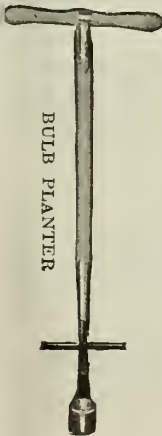
Specially designed for planting Daffodils and other bulbs in grass. This tool cuts and lifts a clean circular piece of turf which is released from the cup when the second hole is made, and lies ready at hand to fill in the holes when the bulbs have been put in, it being only necessary to remove a little of the soil from the bottom of the sod. A time must be chosen for planting when the ground has become softened after early autumn rains and not when in a hard and baked condition, as it is then impossible to use this or indeed any other tool with success. Each (in Chicago) \$3.75; (in New York) \$8.50.

Bulb Dibber

Specially designed for dibbling bulbs into borders, etc.; steel shod, with strong iron thread and cross wooden handle; a good strong heavy tool, weight, about 6¾ lbs., length 36 inches over all. Each (in Chicago) \$3.75; (in New York) \$6.50.



NARCISSUS VON SION
(Double Daffodil)



Vaughan's Hyacinths

For Beds, Borders, PORCH and WINDOW Boxes

Named Bedding Hyacinths

GARDEN CULTURE.—Bulbs may be planted from September to December, in any good, well drained garden soil, which has previously been well enriched and dug from 12 to 18 inches. The beds should be raised several inches above the surrounding ground, to prevent lodgments of water, which causes bulbs to rot. Bulbs should be set 6 inches apart and 6 inches deep. Before the ground freezes, cover the bed with material, such as leaves, straw, pine branches, etc., to a depth of 4 inches. Do not uncover too early in Spring.

PARCEL POST.—Add postage for these at rate of 2 lbs. weight per dozen bulbs. Price each includes postage.

Single Red and Rose

Cardinal Wiseman, dark pink.
Garibaldi, brilliant red, early.
General de Wet, light pink.
Gertrude, rose pink, medium early; one of the best pot varieties
Gigantea, light pink bells, compact spike; medium early.
Jacques, rose pink.
La Victoria, brilliant dark pink.
Lady Derby, delicate pink, early forcer.
Moreno, bright pink, broad spike, early.
Marcou, bright pink.
Queen of Pinks, choice pink.
Robert Steiger, deep crimson, medium early.
Roi des Belges, bright scarlet, early.
 Prices of above, each 12c; doz., \$1.25; 100, \$8.50.

Single Yellow

Buff Beauty, orange yellow.
City of Haarlem, golden-yellow.
King of the Yellows, extra medium early.
Yellow Hammer.
 Prices of above, each 12c; doz., \$1.25; 100, \$8.50.

"Fancy" un-named Hyacinths

THIS is a grade of Mixed Hyacinths which we annually import, paying the highest prices known for mixed varieties. The bulbs measure from 16 to 17 centimeters in size, are plump and sound, selected from the best named varieties.

Blue, all shades.....	} Mailing weight per dozen, 2 lbs.; price,			
Light Blue.....				
Red and Rose.....				
Rose.....		Per Doz.	Per 100	Per 1000
Pure White.....		\$1.00	\$6.50	\$60.00
White, all shades.....				
Yellow.....	} We offer these fancy mixed bulbs in singles only, these being much more desirable.			
Mixed, All Colors.....				

"Medium" un-named Hyacinths

Separate Colors **Single or Double Varieties**

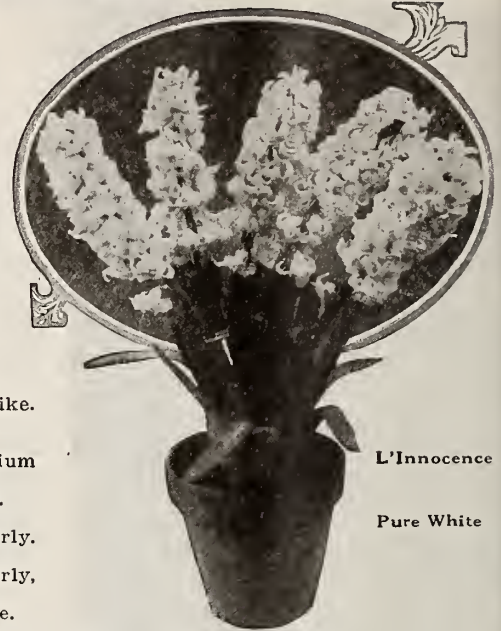
GOOD size flowering bulbs 15 centimeters (5¾ in.) and upward, circumference, much larger than the Mixed Hyacinth bulbs usually sent out.

Blue, all shades.....	} PARCEL POST—Add postage for these at rate of 2 lbs. per dozen bulbs.			
Light Blue.....				
Red and Rose.....				
Rose.....		Per Doz.	Per 100	Per 1000
Pure White.....		75c	\$5.50	\$50.00
White, all shades.....				
Yellow.....				
Mixed, All Colors.....	} Please mention whether Single or Double varieties are desired.			

VAUGHAN'S PREPARED FIBRE

For growing Bulbs in Bowls without drainage.

Per quart, 10c; 3 quarts, 25c; per peck, 60c; per bushel, \$1.75.



L'Innocence

Pure White

SINGLE WHITE—Continued.

L'Innocence, pure white, compact truss on short stem, fine for pots.

Madame Van der Hoop, large spike, late.

Queen Emma, waxy white.

Prices of above, each 12c; doz., \$1.25; 100, \$8.50.

Bowls for Growing Bulbs Indoors

See below for Special Offers of Bulbs for Pots and Bowls

THESE "Zasko" earthenware bowls are made of hard-fired pottery; with a mat-gray body in over-run glazes of highly, harmonizing colors. They are absolutely non-porous and therefore will not damage furniture or other household articles through moisture permeating through. They are perfectly adapted to indoor bulb culture either for growing Paper White Narcissi and Chinese Lilies in gravel and water, or numerous bulbs that can be grown in our Prepared Fibre. They come in two styles.



ZASKO F. L. STYLE (Round)

Diam.	Weight packed	Each
6-inch...	3 lbs.	\$0.50
8-inch...	4 lbs.	.90

F. L. STYLE, IN MATT GREEN, BLUE OR GREEN GLAZE FINISH

Diam.	Weight packed	Each
5-inch...	2 lbs.	\$0.40
6-inch...	3 lbs.	.65

R. K. STYLE (Same Shape as F. L. JET BLACK, GLAZE FINISH

Diam.	Depth	Weight packed	Each
4-inch.....	about 1½ inches	2 lbs.	\$0.25
5-inch.....	about 1¾ inches	2 lbs.	.40
6-inch.....	about 2 inches	3 lbs.	.50

ZASKO STYLE 30 (Octagonal)

Diam.	Weight packed	Each
5-inch...	2 lbs.	\$0.45
6-inch...	3 lbs.	.65

F. L. STYLE, IN MATT GREEN, BLUE OR GREEN GLAZE FINISH

Diam.	Weight packed	Each
5-inch...	2 lbs.	\$0.40
6-inch...	3 lbs.	.65

R. K. STYLE (Same Shape as F. L. JET BLACK, GLAZE FINISH

Diam.	Depth	Weight packed	Each
4-inch.....	about 1½ inches	2 lbs.	\$0.25
5-inch.....	about 1¾ inches	2 lbs.	.40
6-inch.....	about 2 inches	3 lbs.	.50

GRAVEL, such as is used with the above, 5c per lb. 5 lbs., 20c. 10 lbs., 35c. For Parcel Post Delivery of above, add postage at zone rates. NOTE—Not responsible for breakage if bowls are to be sent via Parcel Post.

COLLECTIONS FOR POTS OR BOWLS

All collections our selection of Varieties

- | | |
|--|--|
| (A) HYACINTHS, Extra | { 12 bulbs; 4 kinds; 3 of each, separate, \$1.60
Double quantities, \$3.00 |
| (B) HYACINTHS, Standard | { 12 bulbs; 4 kinds; 3 of each, separate, 1.25
Double quantities, \$2.35. |
| (C) HYACINTHS, "Miniatures" | { 12 bulbs; 4 colors; 3 of each, separate, .60
Double quantities, \$1.00. |
| (D) NARCISSUS, Large Trumpets | { 6 varieties; 3 of each; separate, 18 bulbs 1.00
Double quantities, \$1.85. |
| (E) NARCISSUS, Medium and Small Trumpets | { 6 varieties; 3 of each; separate, 18 bulbs, .85
Double quantities, \$1.50. |
| F) TULIPS, (Early Single) | { 6 kinds; 3 of each; separate, 18 bulbs, .75
Double quantities, \$1.35. |
| (G) TULIPS, (Early Double) | { 6 kinds; 3 of each; separate, 18 bulbs, \$1.00
Double quantities, \$1.75. |
| (H) TULIPS (Darwin) | { 6 varieties; 3 of each; separate; 18 bulbs, 1.00
Double quantities, \$1.90. |
| (J) CROCUS | { 6 varieties; 6 of each; 36 bulbs..... 1.00
Half the quantity for 50c. |

FOR GROWING IN BOWLS OF GRAVEL AND WATER

12 Hyacinths, Single, 3 Colors, for Glasses, \$1.60.

(K) PAPER WHITE NARCISSUS. 12 large bulbs, 75c.

(M) CHINESE NARCISSUS. Each, 25c; dozen, \$2.50.

VAUGHAN'S EXHIBITION HYACINTHS

Hyacinths

Single-Named Varieties

INDOOR CULTURE

HYACINTHS IN POTS.—It is important in the pot culture of Hyacinths to have rich, light soil. If the bulbs are to be potted singly, 5-inch pots are the proper size. Cover the hole in the pot with a piece of broken pot, and over this place a layer of moss, which will keep the soil from clogging the drainage thus provided. Break off any offsets which appear at the base of the bulbs, and, in potting, place each bulb so that its top shall be half an inch below the surface of the soil, and an inch below the rim of the pot. Use a 5-inch pot for single bulb or four in a 6-inch pot. Give a good watering and set away in a cool place, covering them with about 3 to 5 inches of coal ashes or sand. Let them remain here for eight or ten weeks, bringing them to the light as required.

HYACINTHS IN GLASSES.—The single varieties are, with a few exceptions, best adapted to this mode of culture. They produce finer flower spikes than the double. Fill the glass with clear soft water, so as to nearly touch the base of the bulb, putting a small piece of charcoal in each glass to keep the water pure and afford some nourishment. The filled glasses should be placed in a dry, cool, dark place, and kept there until the roots almost touch the bottom of the glass, when they may be exposed gradually to the light. Change water often.

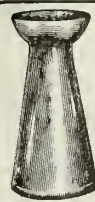
PARCEL POST—Price, each, includes postage. Mailing weight, dozen 3 lbs. Add postage as per rates on inside front cover.

EXHIBITION HYACINTHS—Monster Bulbs

NOTE.—Plant in pots, ornamental bowls, or pans; or grow in water in Hyacinth glasses. Not suitable for outdoor cultivation.

We have arranged this year with one of our Dutch growers to select the very finest and largest bulbs he has, not of any variety, but of special kinds of superior quality, that will give huge spikes in some of the choicest colors obtainable. They are all single flowered kinds in the following colors.

Red, Pink, White, Blush White, Light and Dark Blue, and Yellow.
Each variety will be carefully packed and named.
Price, each, 25c; per doz., \$2.75c; per 100, \$20.00.



Belgian

Hyacinth Glasses

Tye Shape

We offer two styles of these glasses for growing Hyacinths in water. Belgian, and Tye Shape.



	PRICES	Each.	Doz.
Belgian. Tall.....		\$0.45	\$4.50
Tye Shape.....		.45	4.75

FIRST SIZED HYACINTHS FOR GLASSES, POTS, ETC.

Numbers following names indicate time of flowering. No. 1's flowering together earliest, while 4's are latest.

DUTCH ROMAN OR MINIATURE HYACINTHS

(Also called *Cynthellas*)

Splendid for growing in pots, pans or boxes. Although naturally small in size, they give very large spikes of bloom, considering the size of bulb, and are invaluable for forcing.

Single Red and Rose

Moreno, pink.
Gertrude, clear rose.
Gigantea, bluish pink.
Prices of above, doz., 60c; 100, \$4.25; 1,000, \$38.00. Mailing weight, per doz., 2 lbs.

Single White

Albertine, pure white.
La Grandesse, snow white.
L'Innocence, purest white.
Mme. Van der Hoop, purest white, large.
Prices of above, doz., 60c; 100, \$4.25; 1,000, \$38.00. Mailing weight, per doz., 2 lbs.

Single Blue

Grand Maitre, deep porcelain.
Queen of the Blues, light blue.
Prices of above, doz., 60c; 100, \$4.25; 1,000, \$38.00. Mailing weight, per doz., 2 lbs.

FRENCH ROMAN HYACINTHS

These beautiful Hyacinths are indispensable to the florist in his fall and winter cut-flower work, while to the amateur they are among the most easily cultivated and most satisfactory of flowering bulbs. The white variety, if planted early in September and slowly forced, will bloom in November. The others require from two to three weeks longer.

Mailing weight, dozen, 2 lbs.
White, first size, doz. \$1.25; 100, \$8.00; select size, doz., \$1.75; 100, \$10.00, mammoth size, doz., \$2.00; 100, \$12.00.
Blue, doz., \$1.25; 100, \$8.00.
Light Pink, doz., \$1.25; 100, \$8.00.
Dark Pink, doz., \$1.25; 100, \$8.00.

Single Blue and Purple

Bismark, 2, bright blue. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Captain Boynton, 2, sky blue, large spike. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Competitor, 2, light blue. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Enchantress, 3, porcelain blue. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Grand Maitre, 2, dark porcelain, medium early. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Grand Lilas, 2, early, very handsome. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Johan, 2, light blue, large bells. Each, \$0.16; doz., \$1.60; 100, \$12.00.
King of the Blues, 4, dark, medium only. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Lord Balfour, 3, lilac-rose. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Marie, 2, dark, large spike, medium early. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Potgieter, 2, light blue. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Queen of the Blues, 4, light fine spike. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Schotel, 2, light blue, large spike. Each, \$0.20; doz., \$2.00; 100, \$15.00.

Single Yellow and Orange

City of Haarlam, 3, golden-yellow. Each, \$0.20; doz., \$2.00; 100, \$15.00.
King of the Yellows, 4, extra medium early. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Yellow Hammer, 3. Each, \$0.20; doz., \$2.00; 100, \$15.00.

Vaughan's Rainbow Collections

Single Named Hyacinths for Window Garden

Lady Derby, Pink Grand Maitre, Lt. Blue
Roi des Belges, Red L'Innocence, White
King of the Blues, Dark Blue
King of the Yellows, Yellow

PREPARED PRICES—

Postpaid
A—6 Bulbs, one of each variety..... \$0.80
B—12 Bulbs, two of each variety..... 1.50
C—24 Bulbs, four of each variety..... 3.00
D—36 Bulbs, six of each variety..... 5.00

Single Red and Rose

Cardinal Wiseman, 4, dark pink. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Garibaldi, 1, brilliant red, early. Each, \$0.20; doz., \$2.00; 100, \$15.00.
General de Wet, 2, light pink. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Gertrude, 3, rose pink, medium early; one of the best pot varieties. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Gigantea, 2, light pink bells, compact spike; medium only. Each, \$0.16; doz., \$1.60; 100, \$12.00.
La Victoria, 3, brilliant dark pink. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Lady Derby, 1, delicate pink, early forcer. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Moreno, 2, bright pink, broad spike, early. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Mareouni, 2, bright pink. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Queen of Pinks, 2, choice pink. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Robert Steiger, 3, deep crimson, medium only. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Roi des Belges, 3, bright scarlet, early. Each, \$0.16; doz., \$1.60; 100, \$12.00.

Single White and Blush

Albertine, 2, pure white, early. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Angenis Christina, pure white, early. Each, \$0.20; doz., \$2.00; 100, \$15.00.
General Vetter, blush white. Each, \$0.20; doz., \$2.00; 100, \$15.00.
Grandeur a Merveille, 2, blush late. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Hein Roozen, 2, snow white. Each, \$0.16; doz., \$1.60; 100, \$12.00.
La Grandesse, 3, pure white, large bells, splendid spike. Each, \$0.16; doz., \$1.60; 100, \$12.00.
L'Innocence, 2, pure white, compact truss on short stem, fine for pots. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Madam Van der Hoop, 3, large spike, late. Each, \$0.16; doz., \$1.60; 100, \$12.00.
Queen Emma, 3, waxy white. Each, \$0.20; doz., \$2.00; 100, \$15.00.

Amaryllis

OF all bulbs which the amateur can grow successfully indoors, the Amaryllis is at once the largest, most beautiful, surest to flower and most easily handled. Our new hybrids, especially, are so gorgeous in size and coloring as to amaze those not familiar with them. From a single stem, spring from one to three lily-like flowers, six to eight inches in diameter. So vigorous are the bulbs that they will blossom if stood on a table in a warm room, but it is better to grow them in pots.

They thrive best in a compost of two-thirds good garden loam or loam from an old pasture, with one-third leaf mold to which should be added a little sand. The time to start the bulbs is from January to the end of April, though if wanted in bloom during the winter months, they can be potted up in October. They require temperature of 50 to 55 degrees, and if to be forced it should be raised ten degrees.

The size of the pot depends on the variety and size of bulb. A six-inch or seven-inch pot will accommodate one bulb of most varieties, though some of the "monster" bulbs require as large as a 10-inch or 12-inch pot. Place only one bulb in each pot, covering it as far as the neck or upper narrow part. Water sparingly at first until the flower shoots begin to appear. Some growers keep them in the dark until the flower stems are four or five inches long, and then bring them to the light, but this is not necessary where forcing is not intended.

After flowering they should be placed in a warm house, or warm window, or set outside in sand or cinders and watered every day (sometimes twice a day) until the end of August when water should be gradually withheld and the bulbs allowed to go to rest. In September or October the pots should be laid on their sides under the greenhouse stage or outdoors against a shady fence wall.

BELLADONNA MAJOR. Fall bloomer, very free and fragrant. Flowers which are a lovely shell pink color, are borne on stems 2 to 2½ feet high.

Each, 30c; per doz., \$3.00; 100, \$22.00.

(Mailing weight per doz., 6 lbs.; 2 bulbs, 2 lbs.)

VAUGHAN'S NEW HYBRIDS. One of the finest strains of Amaryllis we have yet seen, raised by an eminent grower whose entire stock we have purchased. Flowers are immense, borne mostly two and three to a stem, in an amazing and beautiful range of colors, blended, splashed and striped in a manner not seen in other strains.

Large 3-Inch Bulbs. Each, 60c; per doz., \$6.00; 100, \$45.00.

Calla (Richardia)

White Calla Lily. (Aethiopia). A well known plant of easy culture for winter bloom, and makes a handsome house or window plant. To aid profuse blooming keep dormant from the middle of June until the last of September; pot on receipt in good, rich soil, using 6 to 8-inch pot, give light and heat in abundance. Both foliage and flowers are attractive in this desirable winter bloomer. If by PARCEL POST, add postage at Zone Rates.

	Each	Doz.	100
First Size (1½-1¾ inch); weight, dozen, 1 lb.....	\$0.15	\$1.50	\$10.00
Select Size (1¾-2 inch); weight, dozen, 2 lbs.....	.30	3.00	20.00
Mammoth (2-2½ inch); weight, dozen, 3 lbs.....	.35	3.50	25.00

Yellow Calla. (Elliottiana). New and beautiful variety; same habit of growth as ordinary white Calla, flowers same size and shape, rich, clear, lustrous golden-yellow; foliage dark green, with translucent creamy spots, strong bulbs.

First Size.....	.30	3.00	20.00
Select Size.....	.35	3.50	23.00
Mammoth.....	.45	4.50	30.00

Chinese or Sacred Lily

Also Called "Joss Flower."

A species of Polyanthus Narcissus introduced from China. The bulbs are large, measuring from 12 to 18 inches in circumference, and throw up from five to 10 flower-spikes, bearing clusters of large, perfect, waxy white blossoms, with yellow center; of a most delicious fragrance. These may be grown in pots, but are most successful when cultivated in water the same as in China. A dozen bulbs planted at intervals in bowls with enough gravel to hold them upright will give a profusion of bloom during the winter months. In order to get best results it is advisable to cut two or three slits half an inch deep, up and down the sides of the bulbs near the top; this enables the weak shoots to burst through the tough outer layer.

Select Bulbs. Each, 20c, postpaid; per doz., \$1.60; 100, \$12.00.

Vaughan's Giant Freesias

THESE are well known for their delightful fragrance, the new colored ones which we offer, adding a new charm to the class. They should be potted in September and stood outside until the approach of frost, then taken inside to the conservatory or a sunny, airy window, where they will flower freely from January onwards. Plant early to secure good roots. Dozen and 100 prices include postage.

VAUGHAN'S PURITY. Flowers are of a magnificent snowy white, of very large size and great fragrance. One bulb will throw three to five flower-heads each of which will have from eight to nine buds of the finest type.

	Doz.	100	1000
Select Bulbs.....	\$0.45	\$2.50	\$20.00
Small Bulbs.....	.30	1.50	12.00

Fischerii

Finest, largest, purest and most fragrant Freesia yet introduced. The flowers are very large, measuring two inches across; more like Lilies than Freesias in size and purity of color; rarely is a trace of yellow seen.

Per doz., \$1.25; per 100, \$8.00; per 1000, \$75.00.

New French Freesias in Colors

LOVELY and unique colorings—bronze, lilac, yellow, etc., and shadings; very delicate fragrance. Each principal spike usually carries 7 to 9 flowers—while the side spikes usually bear 5 to 6 flowers. The culture is the same as above.

General Pershing. Extra robust grower, 3 feet in height, with 4 to 5 long side laterals, large open flowers of lavender pink, yellow lip and somewhat of a bronze cast. Per 100, \$5.00; per 1000, \$40.00.

Viola. Like a large wood violet, the lower petals of a deeper violet blue, a beautiful distinct and valuable hybrid. The growth is about 30 inches in height with 4 to 5 long side lateral, long enough for any floral work.

	100	1000
Mixed Colors.....	\$5.00	\$40.00
	4.00	35.00

AMARYLLIS—New Hybrids



Colochortus or Mariposa Tulip

These famous California flowers possess much delicacy and brilliancy of coloring. They resemble a tulip in shape, and are of many colors, shades and markings.

Mixed, doz., 60c; 100, \$4.00, postpaid; 1000, \$35.00, postpaid.

Oxalis

Grand Duchess, Doz.	100	1000	Grand Duchess Doz.	100	1000
White.....	\$0.50	\$3.00	Pink.....	\$0.50	\$3.00
Lavender.....	.50	3.00	Yellow.....	.50	3.00

Vaughan's Crocus

Spring Flowering Varieties

ONE of the earliest flowers to open in Spring, the Crocus makes an effective show when planted in masses or where three or four rows are arranged in a border. They are perfectly hardy and can be left in the ground for several years without being disturbed. An effective method of planting is to scatter them over the lawn by digging up a small piece of sod here and there and placing one or two bulbs in each spot. This gives a pretty effect in early spring, and the tops can be cut along with the grass safely when first mowing is made. The large-flowering named varieties are ornamental when flowered in pots six or eight bulbs in 5-inch size. They will not flower if exposed to heat, nor must severe forcing be attempted. It is a mistake to plant Crocuses too deeply, an inch of covering being quite sufficient, anything deeper may cause them to fail to bloom.

Dozen price includes postage. 100 bulbs weigh 3 lbs.

Albion, blue, striped white.	La Majesteuse, white, violet stripe.
Baron von Bruno, dark blue.	Madam Mina, white striped.
David Rizzio, deep purple.	Sir Walter Scott, white, blue stripe.
Dandy, blue.	Mammoth White.
Non Plus Ultra, blue, bordered white.	Cloth of Gold, yellow and brown.
Othello, dark purple.	Cloth of Silver, white and lilac.
Mont Blanc, pure white.	

Price of above, per doz., 30c; 100, \$1.75; 1000, \$15.00.

Select Yellow.....	Doz.	100	1000
Mammoth Yellow.....	\$0.30	\$1.75	\$15.00
	.45	2.75	25.00

SPECIAL OFFER 18 "W": 10 each of 10 varieties of above. (100 bulbs) Our Selection, postpaid, for \$1.50.

Vaughan's "Pride of Holland" Strain

THIS is a special large-flowered strain selected by one of our Dutch growers. They make larger bulbs and give larger blooms than ordinary named kinds, and are of special value for pot culture, the size of the blooms being very noticeable. We offer five colors. Please mention "Pride of Holland" strain when ordering.

Sir Walter Scott, white, blue striped.	David Rizzio.
Queen Victoria, pure white.	King of Blues, fine blue.
Mammoth Yellow.	

Price, per doz., 50c; 100, \$3.25; 1000, \$30.00.

Crocus—Vaughan's Special Mixture

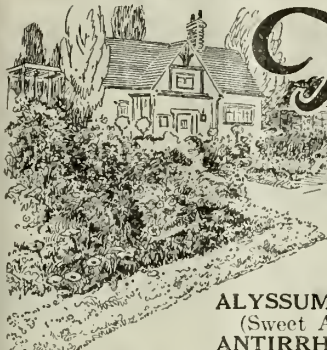
WE make this mixture from named sorts only, adding a liberal amount of the mammoth "Pride of Holland" sorts. For planting outdoor in lawns, along borders or amongst shrubbery this mixture cannot be excelled.

Doz., 35c; 100, \$2.00; 1000, \$18.00.

Unnamed Crocus, Separate Shades

THESE bulbs are of good size and will produce large flowers and are excellent for grass planting and borders.

White.....	} Doz.	100	1000
Blue and Purple.....			
Striped and Variegated.....			
Yellow, large.....			
	\$0.20	\$1.10	\$9.00



Flower seeds for Fall sowing

FEW know many of our prettiest and best known annuals may be sown in the fall, in fact some varieties, like the annual Larkspur, are much better, treated in this way. The principle is the one nature uses. Seed dropped from parent plant will lay dormant in the soil until early in the spring when it germinates and begins a root system long before one can get in the ground to sow seed. Consequently the flowering season is prolonged by the earlier blooming. Ground should be prepared and seed sown just previous to the late heavy frost.

ALYSSUM Benthami Maritima. Pkt. (Sweet Alvsium).....\$0.05

ANTIRRHINUM. Vaughan's Special Mixture..... $\frac{1}{8}$ oz., 25c 15

BRACHYCOME Iberidifolia. Mixed. (Swan River Daisy). 05

CALENDULA. Orange King..... $\frac{1}{2}$ oz., 20c 10

CALLIOPSIS Drummondii. Golden Wave..... $\frac{1}{4}$ oz., 10c 05

CENTAUREA Cyanus. Double blue..... $\frac{1}{4}$ oz., 20c 10

LARKSPUR. Vaughan's Special Mixture of annual varieties.. 10

HUNNEMANNIA Fumariaefolia $\frac{1}{4}$ oz., 20c 10

POPPY. American Legion. This new single Shirley poppy is a dazzling orange-scarlet of enormous size, borne on long stout stems. The plants are of very erect robust growth and the flowers are wonderful keepers when cut in bud. A bunch was a beautiful sight for several days when put in water after a four-day trip from California in an ordinary box without the benefit of refrigeration. ..Oz., \$1.00 \$0.25 Pkt.

SPECIAL OFFER. 1 pkt. each of nine annuals noted above, 80c; regular price, 95c.

SWEET PEAS—Early-Flowering Spencer

THE happy possessor of a greenhouse may plant these at once inside for blooming in midwinter, and the owner of a garden may plant these in late November or early December in the open ground, just before the ground is frozen, so that germination may take place early in the Spring before the ground is usually in condition to be worked. Sweet Peas planted in the fall produce a better root growth, and those early-flowering varieties bloom before the warm weather overtakes them in midsummer.

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|-------|---|-------------|
| 3960 | Amethyst. This is the nearest to royal purple in color | Pkt. \$0.10 |
| 3961 | Apricot Orchid. A delightful and charming shade... | 10 |
| 3961a | Asta Ohn. A clear lavender..... | 15 |
| 3962 | Aviator. This is to our knowledge the best scarlet... | 10 |
| 3963 | Bohemian Girl. Deep pink, shaded orange blush.... | 10 |
| 3964 | Blue Bird. A charming mid-blue self..... | 15 |
| 3965 | Cherry Ripe. Glowing cherry or salmon-cerise self.... | 15 |
| 3966 | Columbia. This is the most profitable pink and white. While it is not quite as early as the "Pink and White" (below) it produces 50 per cent more flowers..... | 15 |
| 3967 | Cream. Identical in color and size of blossom to Dobbie's Cream. It has immense blossoms very frilled and duplexed..... | 10 |
| 3968 | Fire King. Deep orange-scarlet..... | 10 |
| 3969 | Gorgeous. Charming salmon-rose..... | 10 |
| 3970 | Heather Bell. The color is a rich, but pleasing mauve. | 10 |
| 3971 | Hercules. Same shade of pink as Countess Spencer... | 10 |
| 3972 | Liberty. Brilliant red..... | 10 |
| 3973 | Melody. Rose-pink on white ground..... | 10 |
| 3974 | Miss Louise Gude. Best in the shell pink class..... | 10 |

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| 3975 | Morning Star. Deep orange-scarlet or flame color in standard, with rich orange-pink wings..... | Pkt. \$0.10 |
| 3976 | Mrs. A. A. Skaach. Flowers bright shell pink..... | 10 |
| 3977 | Mrs. Chas. A. Zvolanek. One of the best clear lavenders | 10 |
| 3978 | Mrs. M. Spanolin. Black-seeded white..... | 10 |
| 3979 | Mrs. William Sim. Apricot-pink..... | 10 |
| 3980 | Othello. Rich deep maroon..... | 10 |
| 3981 | Pink and White. Blanche Ferry type, extra..... | 10 |
| 2983 | Robin Red Breast. | 10 |
| 3984 | Rose Charm. Bright rose..... | 10 |
| 3985 | Rose Queen. A splendid commercial pink..... | 15 |
| 3986 | Song Bird. Pale pink with a distinct tint of buff.... | 10 |
| 3987 | Songster. Giant early lavender..... | 10 |
| 3988 | Spring Maid. Light pink on a cream ground..... | 10 |
| 3989 | Snow Flake. Best white..... | 10 |
| 3990 | Snow Storm. A good early pure white for late planting | 10 |
| 3991 | The Beauty, The color is a very dark fiery rose..... | 10 |
| 3992 | Venus. Standard white, slightly blushed pink wings... | 10 |
| 3993 | Warbler. Rich mauve purple..... | 10 |
| 3994 | Wedgewood. Magnificent clear blue..... | 10 |
| 3995 | White Orchid. White flowers of good substance..... | 10 |
| 3996 | Yarrowa. The color on opening is rose, changing as the flower develops to a light pink standard, tinted buff with blush wings..... | 10 |
| 3997 | Zvolanek's Blue. Brightest blue..... | 10 |
| 3998 | Zvolanek's Rose. One of the best rose pinks..... | 15 |
| 3999 | MIXED. Winter-Flowering Spencers, many kinds.... | 10 |

VAUGHAN'S PANSIES

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| 2500 | Adonis. Light blue with white center..... | Pkt. \$0.15 |
| 2501 | Auricula Colors. Metallic shades..... | 15 |
| 2502 | Azure Blue. A beautiful shade of sky-blue..... | 15 |
| 2503 | Beaconsfield. Lavender and purple..... $\frac{1}{8}$ oz., 50c 15 | |
| 2504 | Boulogne Giant Mixture. The flowers are of the largest size, great substance, fine form and are borne on particularly strong stems. They are mostly 3 and 5 blotted, delicately veined, rich colors. 100 seeds... | 50 |
| 2505 | Bugnot. Shades of red, bronze and reddish cardinal.. | 20 |
| 2506 | Cassiers 3 and 5 Blotted Mixed. Mostly light shades with dark blotches..... $\frac{1}{8}$ oz. 60c 20 | |
| 2507 | Coal Black. A jet black of truly giant size..... | 15 |
| 2507a | Colossea Venosa. Light, veined shades, large flowers.. | 20 |
| 2508 | Emperor Francis Joseph. Pure white, large blotch of brilliant violet-blue on each petal..... | 20 |
| 2508a | Emperor William. Dark navy blue..... $\frac{1}{8}$ oz. 50c 15 | |
| 2508b | Fiery Faces. Yellow and red..... | 15 |
| 2509 | Mad. Perret. Lovely shades of pink and rose.. $\frac{1}{8}$ oz. 50c 15 | |
| 2510 | Marechal Niel. Delicate pleasing, cream color..... | 15 |
| 2511 | Masterpiece (New Giant Curled or Spencer Pansies) | 25 |

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| 2512 | Orchid Flowered, Andromeda. Delicate apple-blossom | Pkt. \$0.20 |
| 2513 | Almond Blossom. Delicate rose..... | 20 |
| 2515 | Mammoth. Light greenish yellow ground, with deep purple blotches..... | 20 |
| 2517 | Orchid Flowered Mixed. Rare light shades, large frilled flowers, very attractive..... | 15 |
| 2519 | Pink. Finest shades of pink, same as Hydrangea.. $\frac{1}{8}$ oz. 50c 15 | |
| 2521 | President McKinley. Five blotched yellow..... | 15 |
| 2523 | Purple. Very large, rich deep purple..... | 15 |
| 2524 | Prince Bismarck. Light brown colors..... | 15 |
| 2525 | Pretiosa. Deep violet on crimson background, white edge | 15 |
| 2526 | Rosy Morn. A crimson margined with a clear white edge | 15 |
| 2526a | Ruby Red. | 15 |
| 2527 | Striped. Mahogany, striped and flaked white..... | 15 |
| 2528 | Trimardeau. Mixed..... $\frac{1}{8}$ oz. 40c 10 | |
| 2528a | Victoria. Claret-red..... | 15 |
| 2529 | Violet Blue. A very pleasing shade..... $\frac{1}{8}$ oz. 40c 15 | |
| 2529a | Volcano. Deep red with five large blotches, very fine.. | 20 |
| 2530 | Pure White. Pure white without blotches.. $\frac{1}{8}$ oz. 50c 15 | |
| 2531 | White, With Eye. Very large..... $\frac{1}{8}$ oz. 45c 15 | |
| 2532 | Pure Yellow. Golden-yellow without blotches.. $\frac{1}{8}$ oz. 50c 15 | |
| 2533 | Yellow, With Eye. Immense flowers..... $\frac{1}{8}$ oz. 45c 15 | |

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| 2540 | Vaughan's Giant Mixture. It includes the richest reds, coppers and bronzes, together with the most delicate rose-pink shadings and the Masterpiece strain with its delicate veinings and ruffled petals..... $\frac{1}{8}$ oz., \$1.00; 1 pkt., 250 seeds, 25c; 125 seeds 15c | Pkt. |
| 2545 | Vaughan's International Mixture. This is, and always has been, literally a World's Best Mixture.....3 pkts. (600 seeds), 65c; 5 pkts. (1000 seeds), \$1.00; $\frac{1}{8}$ oz., \$1.75; 200 seeds 25c | |



VAUGHAN'S



LILIUM AURATUM

Lilium Longiflorum Giganteum—(Japanese Easter Lily) Best grown indoors

Best of all lilies for indoor pot culture; bulbs planted when received, can be readily brought into bloom by Easter if kept in a warm room or greenhouse. Flowers are large trumpet-shape, pure white in color and of a delicious fragrance. Being perfectly hardy (if given a little protection), it is splendid for outdoor planting.

	Each	Doz.	100
Select Size (7 to 9 inches).....	\$0.35	\$3.50	\$25.00
Mammoth Size (9 to 10 inches).....	.65	6.00	40.00

Lilium Auratum

The Gold-banded Lily of Japan

The most beautiful variety of all the lily family; should be in every garden. Flowers white, dotted crimson, with a clear golden band running through the center of each petal; very fragrant. A splendid lily for pots, or for planting out in the shrub or plant borders. In either way it is very handsome, its large flowers and delicious perfume makes it one of the most valuable of all. It is perfectly hardy with ordinary protection and suitable soil.

First Size (8 to 9 inches), each, 30c; doz., \$3.00;
Mammoth (9 to 11 inches), each, 45c; doz., \$4.50.

Auratum Platyphyllum

This is without a question one of the most wonderful Lilies in cultivation. The leaves are very long and broad and the stems attain a height varying from 7 to 10 feet. The flowers are similar in color to Auratum, heavily spotted, but much larger, the petals more overlapping, and of greater substance. First Size (8 to 10 inches), each, 50c; doz., \$5.00.

Lilium Auratum Rubro-Vittatum

A beautiful distinct and imposing Lily of the Auratum type, producing flowers quite as large as the golden-rayed variety, but instead of the golden rays there is down the center of each long recurved petal a heavy band of crimson, accompanied by crimson spots on a pure white ground. First Size (8 to 10 inches), each, 50c; doz., \$5.00.

Lily of the Valley

Cold Storage.

For forcing. Very fragrant and producing in abundance. Plant about 25 pips in a 7-in. pot or pan, place in a warm temperature, 65° F. and shade from light until leaves and spikes are well developed then admit light gradually. Increase temperature to 75° or 80° if possible. An inverted pot over each potful answers admirably. This is the treatment for cold storage pips only. They bloom in from 18 to 21 days.

VAUGHAN'S PERFECTION PIPS (Ready in November).

Cold Storage, Per 100, \$6.00. Fresh Pips, Doz., \$1.00; 100, \$4.50.

Large Clumps. For outdoor planting, clumps are best to plant. They do best in a shady, moist place. We especially recommend the clumps for outdoors, as they give a quicker and better effect at less cost. Each, 75c postpaid.

FOR color, fragrance, beauty and variety of form, nothing can equal these grand flowers; whether grown in pots or grouped in the hardy plant border, where their hardiness makes them so desirable, they are always an object of beauty, and by judicious selection one can have a continuous bloom from early summer until fall.

Note.—Most Lily Bulbs, being of late maturity, are not ready before October and November (the best time to plant them). Where the ground is liable to freeze up before the late lilies arrive, it should be mulched with six or eight inches of leaves or manure so the bulbs may be planted on arrival.

Lilium Harrisii and Candidum are ready now, all others in November.

Free pamphlet, "Naturalizing Lilies," ask for it with order.

Out door Culture.—When planting Lillies out of doors, see that they have a well drained position, and where they will be shaded from every hot sun. Such places can usually be found around the shrub borders, and in the hardy plant border. Many varieties are termed "stemrooters" that is, they develop roots on the stem up to two or three inches from the ground. These roots are voracious feeders, and on them depend greatly the number and size of flowers. When they appear, the plant should receive a top dressing of good rich soil on which they can feed freely. (Continued top of page 21)

Lilium Candidum

(Madonna or Annunciation Lily). See Cut Opposite Page 21.

This is one of the oldest, loveliest and best known Lillies. Can only be planted in fall, ours is the thick petaled type, imported by us from Northern France. The flowers, of which there are three to twenty on each stem, are snow-white, with heavy yellow stamens and of the most delightful fragrance. It is hardy and will thrive in any ordinary soil, preferring plenty of light and air. Blooms in the open ground about June 20th. Orders, should, therefore, be mailed on receipt of this Catalogue.

	Each	Doz.	100
Select Size.....	\$0.25	\$2.50	\$20.00
Mammoth Size.....	.35	3.50	25.00

Vaughan's
Lily Bulbs
are grown by

Experienced
Dependable
Growers



Cairo, N. Y.
I received the
bulbs in good
shape. They
were a nice
healthy bunch
of bulbs. I am
well pleased
with them.
Yours truly,
A. C. Groat.

We give away
a FREE
pamphlet on
"Naturalizing
Lilies"
with
each Lily order
when asked for

EASTER
LILIES

LILY BULBS

Spade over the ground thoroughly to a depth of 18 inches before planting Lilies and enrich it by adding equal portions of leafmould, peat and rotton manure. Plant the bulbs 4 to 6 inches deep put ing some sand under and around the bulbs, and after covering protect with six or eight inches of leaves or other litter, which must be removed in late spring.

April planting is advisable, if prevented planting the previous fall.

Indoor Culture. — Lilies should be potted immediately upon receipt, if intended for growing in pots or for forcing. In potting use a compost of fibrous loam and sweet decomposed leaf soil, with plenty of coarse sand or a mixture of good peat, loam, and sand, adding to the compost a few pieces of charcoal. See that the pot is well drained. The bulb should be set about half-way down in the pot and barely covered with soil, thus leaving room to top dress and fill the pot with more soil when stem-roots appear above the bulb. After potting, give a thorough watering and set outside in a cold frame or shady situation, then cover with ashes or long straw. After they have stood from three weeks to a month and thoroughly rooted, bring inside, in a temperature of about 66°; let the plants grow slowly under a bench or some other suitable place until about 6 inches high; then place on top of the bench. An occasional application of liquid cow manure, starting about six weeks before flowering time will stimulate the plant wonderfully. **Thorough rooting is essential. Lily Bulbs by Parcel Post. For postage Zone rates see inside front cover.**

Size	3 Bulbs Weigh	Dozen Weigh
8- 9 in.....	1/2 lb.	4- 5 lbs.
9-11 in.....	1 1/2-2 lbs.	6- 7 lbs.
11-13 in.....	2-3 lbs.	9-10 lbs.



LILIIUM SPECIOSUM RUBRUM

Lilium Speciosum—Lance-leaved Lily

These lilies are probably the most popular of all, succeeding equally well in open border or in pots. When fully open, the petals curve gracefully on the flower stem, exposing the beautiful rose and crimson markings, which characterize the **Rubrum** and **Melpomene** types.

Album —Pure White.	Each	Per Doz.	Per 100
First Size (8-9 in.).....	\$0.35	\$3.50	\$25.00
Mammoth (9-11 in.).....	.45	4.50	35.00

Rubrum—White, spotted and rayed rosy red. We consider this the most satisfactory of the Speciosum class.

First Size (8-9 in.).....	\$0.35	\$3.50	\$25.00
Mammoth (9-11 in.).....	.45	4.50	35.00

Melpomene—White, spotted and splashed deep crimson.

First Size (8-9 in.).....	.35	3.50	25.00
Mammoth (9-11 in.).....	.45	4.50	35.00

Lilium Myriophyllum (New)

A New and very rare lily from China. The flowers are white, shading to yellow in the center, with a pink tinge on the outer edges. A strong grower, some 3 or 4 feet high. It is deliciously scented, and its extreme hardiness makes it a valuable lily for out door planting. Each, 75c; per doz., \$7.50.

Various Hardy Lilies "Each" and "dozen" prices include postage

Brownii. Immense handsome trumpet-shaped flowers, 8 to 10 inches long. Pure white inside, brownish fawn outside. Blooms in July.	Each	Doz.
	\$0.60	\$6.50
Canadense. —(Meadow Lily.) Gracefully drooping, bell-shaped, red and yellow flowers typical of our northern meadows.....	.20	2.00
Candidum —See page 20.		
Hansoni. Flowers reddish orange, 8 to 12 in a cluster; petals thick and durable.....	.50	5.00
Henryi. A new, rare, and very beautiful Lily from China. The flower stalks, 3 to 5 feet high, carry 5 to 8 large flowers each; apricot spotted brown.....	.60	6.50
Elegans Mixed. A splendid assortment of this type.....	.20	2.00
Krameri. Delicate rose-pink of elegant outline and graceful habit. Blooms in July.....	.35	3.50
Pardalinum —(Leopard Lily). Rich scarlet and yellow, spotted rich brown.....	.20	2.00
Superbum. The finest of the native Lilies. Flowers bright orange, spotted purple.....	.20	2.00
Tigrinum Splendens. Very hardy native Lily; orange, spotted purple.....	.20	2.00
Tigrinum Flore Pleno —(Double Tiger Lily). The well known double Tiger Lily. Rich orange blossoms, 4-foot.....	.20	2.00
Tigrinum Fortunei —(Improved Tiger Lily). Bulbs will produce more flowers than the ordinary variety.....	.30	3.00
Umbellatum. Colors range from deepest red through all shades of crimson, rose, yellow, buff and apricot.....	.25	3.25



THE MADONNA LILY
LILIIUM CANDIDUM

We supply 6 bulbs of a kind at dozen rate, 25 at 100 rate, and 250 at 1000 rate.

Decorative Plants

FOR HOUSE AND CONSERVATORY



CROTON



CALADIUM



DRACAENA MASSANGEANA



DRACAENA TERMINALIS

THESE make excellent presents for birthdays, holidays, etc. Customers who wish to have any of these plants shipped or delivered may depend on getting choice plants. We shall be glad to attach cards if desired.

Besides the sizes we list, we have choice and larger plants, ranging in prices from \$2.00; \$3.00, \$5.00 and up to \$30.00 in some varieties.

Unless instructed to the contrary, all orders are forwarded by express at buyer's expense.

Plants by Mail. Small plants, when ordered at the "each" price, will be sent by mail when so desired, and it is practicable, the soil being entirely or partly removed and the roots carefully wrapped in damp moss. Small orders, accompanied by extra money for postage, will be sent by mail if so instructed; a list of postal rates for the different zones will be found on inside of front cover. Bulky plants such as large Roses, Shrubs, etc., we send by express only.

Plants by Express. We strongly urge this method of transportation, as it enables us to give better values in larger and finer plants and they will arrive in a more satisfactory condition. We add extra plants to help defray express charges.

Plants by Rail. Trees, Shrubs and other dormant stock can be forwarded safely by fast freight lines, even to very distant points, at low rates.

Safe Arrival Guaranteed. We guarantee the safe arrival of all plants to any point in the U. S. A. or Canada when sent by express. If forwarded in any other manner they are entirely at the risk of the purchaser.

Important. All orders are shipped as soon as possible upon receipt. If instructions accompany the order, we will reserve plants for future shipment. This applies especially to plants ordered during freezing weather.

ASPARAGUS Plumosus (Lace Fern.) Fine for table decoration. 2½-inch, each 20c; doz. \$2.00; 4-inch each 35c; doz. \$3.60.

Sprengeri. Suitable for hanging baskets and porch boxes. 2½-in. pots. Each 20c; doz. \$2.00. 4-in. pots. Each 35c; doz. \$3.60.

BEGONIA, Gloire de Chatelaine. Silvery pink, compact habit, strong, vigorous grower. Strong 4-inch, each, 50c.

CALADIUMS, Fancy Leaved. Named varieties for conservatories or planting outside in partially shaded borders when ground is warm. Dormant bulbs, ready in January, each 40 cents; doz. \$4.20, postpaid.

CHRYSANTHEMUMS. Bush plants in bloom, ready for delivery from October 20th to November 20th, in all colors. \$1.00; \$1.50; \$2.50; \$4.00 and \$5.00 each.

CROTONS. The richest of all variegated plants, fine for indoor culture. Plants, each 50 cents; specimens, each \$1.00, \$1.50, \$2.00 (by express).

CYCLAMEN. Dark Crimson, Dark Rose, White and Pink. 4-inch pots. Each 50c to 75c; 5-inch pots, each \$1.00 to \$1.50; 6-inch pots, each \$2.00 to \$3.00.

DIEFFENBACHIA Magnifica (Shining Comb.) Green foliage, variegated with white. Each, 50c to \$1.00.

DRACAENA AMABILIS. Foliage bright glossy green. Marked and suffused with pink and creamy white. Plants, each, 75c to \$1.50.

Fragrans. An excellent house plant with broad dark green foliage, grows under the most adverse conditions. Each, 75c.

Kelleriana. Small oval leaves, glossy green, thickly spotted with yellow. Very showy. Plants, each 75c and \$1.00.

Massangeana. A beautiful variegated form of *Fragrans* with broad green foliage, broad golden yellow band through the center of each leaf. Each, \$1.00 to \$1.50.

Terminalis. Rich crimson foliage, marked with pink and white. Each, 50c to \$1.00.

FERNS, Boston. Long, gracefully drooping fronds which frequently attain a length of six feet. Called by many the Fountain Fern. Deserves wide use as a house plant for tables or pedestals. 25 cents each; 3 for 65 cents, postpaid. Larger plants, 50 cents, 85 cents, \$1.75. Specimens, \$3.00 to \$6.00. All by express.

FICUS Elastica (Rubber Tree). Well-known reliable plant for rooms and halls. Strong plants, \$1.00 to \$3.00 each, by express.

FICUS Repens. A trailing or creeping variety with small foliage; useful for baskets. Small plants, each 20 cents; 3 for 50 cents postpaid. Larger plants, each 35 cents. (Express.)

NEPHROLEPIS Whitmani (Ostrich Plume Fern). Finely divided fronds, resembling a plume. 25 cents each; 3 for 65 cents, postpaid. Larger plants, 50c, 85c and \$1.75 by express.

PANDANUS Veitchii. Variegated green and white. \$1.00 and \$2.00 each. (Exp.)

PEPPER BIRDSEYE. A compact growing variety covered with small red berries in Fall. 4-inch plants, each, 50c; 5-inch, 75c.

CELESTIAL. Strong, compact grower covered with large conically shaped berries, which when fully developed are a bright scarlet. 4-inch, each, 50c; 5-inch, each, 75c.

POINSETTIA PULCHERRIMA. The well known Christmas plant; forming scarlet brace from 6 to 12 inches across. Small plants, each 20c; 3 for 50c, postpaid. Larger, bushy plants, 5-inch, \$1.25; 6-inch, \$1.75; 7-inch, \$2.50.

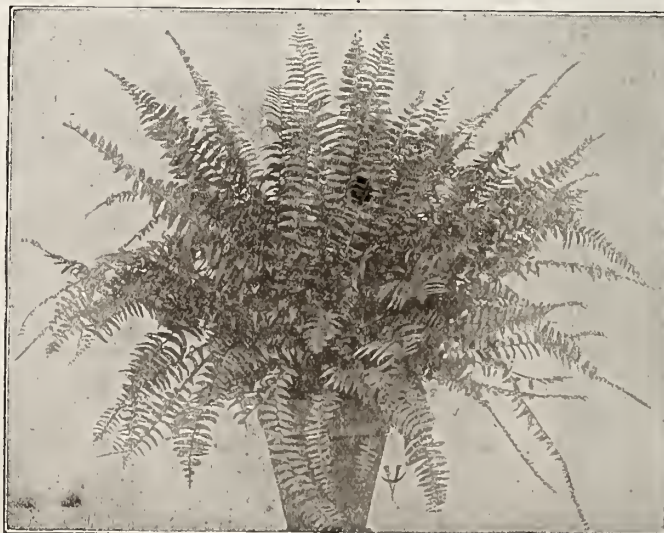
PRIMULA Obconica. No other winter flowering plant can approach this beautiful *Primula*. The colors are perfectly clear and of great brilliancy pure white, enchantress-pink, clear rose and brilliant carmine. 2½-in. pots. Each, 20c; doz., \$2.00. 4-in. pots. Each, 40c; doz., \$4.20.

SANSEVIERIA Zeylanica. An elegant variegated plant especially adapted for house decoration, the thick, leathery leaves standing the heat and dust of the house with impunity. Each, 35c to 75c.

SCILLA Maritima (Sea Onion.) An ornamental plant, the scaly layers of the bulbs being used for making Syrup of Squills. Each, 25c and 35c.

SOLANUM CLEVELANDI. This is a useful pot plant for winter decoration. It is of dwarf branching habit, leaves small and oval shaped; bearing bright scarlet berries. 4-inch plants, each, 60c; 5-inch, 85c.

TRADESCANTIA Tricolor. (Wandering Jew). Most beautifully variegated purple, scarlet and white. Each, 15c; doz., \$1.50.



BOSTON FERN

Topeka, Kansas:—The ferns you shipped me are the best I ever saw; better than I expected.

Edward G. Bass.

CHRYSANTHEMUM (Hardy Daisy)

Fine hardy border plants, their large Daisy-like flowers being produced in great profusion. They are splendid for cut flower purposes, lasting well. King Edward VII is an extraordinary flower.

- Maximum (Type). (Shasta Daisy). June-July. White. 2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.
- King Edward VII. June-July. White. 3 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

COREOPSIS (Tickseed)

One of the most popular handy plants, the flowers are a rich golden yellow of a beautiful graceful form.

- Lanceolata. May-Oct. Yellow. 2ft 3 for 85c; doz., \$3.00; per 100, \$15.00.
- Daisy Shasta. June-July. White. 2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

DELPHINIUM (Perennial Larkspur)

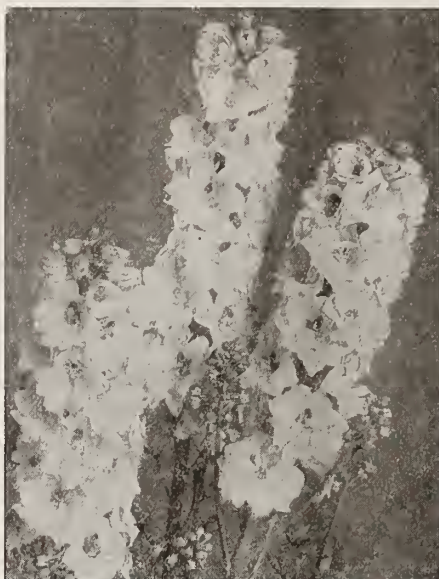
Few plants are so handsome in the garden as the perennial Larkspurs. There are many species in cultivation, but the most important are the tall hybrids, of which there are many varieties with a wonderful range of color. They are valuable for their great variety in height, varying from 1 to 6 feet, for their great variety in shades of color, varying from the palest lavender through every conceivable shade of blue to deep indigo. They thrive in almost any situation or soil and are easily increased, being perfectly hardy. A good, deep, rich soil will repay with larger and better flowers.

- Belladonna. Sky blue. June-Aug. 3 ft. 3 for \$1.00; doz., \$3.60.
- Formosum. July-Sept. Blue with white eye. 4 ft. 3 for 85c; doz., \$3.00.
- Lamartine. July-Aug. Dark blue. 3 ft. 3 for \$1.00; doz., \$3.60.
- Gold Medal Hybrids. This strain is specially grown for us, the seed being saved from selected plants. All inferior colors and types are discarded. Many of them are double flowered, and range in color from pale lavender to indigo-blue. 3 for \$1.00; doz., \$3.60.

DIANTHUS (Hardy Garden Pink)

These very desirable sweet-scented, low-growing, early blooming and free flowering Hardy Garden Pinks are unequalled for the borders of beds, carriage drives, and the old-fashioned garden, and should be planted in quantity in any good garden soil with full sun and an open situation.

- Abbottsford. May-Oct. Pink. 15 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.
- Deltoides. May-Aug. Rose. 15 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.
- Lilac Queen. May-Oct. Mauve. 12 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.
- Vaughan's Special Mixture. May-Oct. 15 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.



DELPHINIUM—Gold Medal Hybrids

DIANTHUS BARBATUS

(See Sweet William)

ERIGERON (Flea Bane)

Valuable summer flowering plants with elegant single aster-like flowers, much prized for cutting. Amos Perry, is a new and much improved variety.

- Amos Perry. June-Oct. Lavender blue. 1 ft. 3 for \$1.00; doz., \$3.60.

EUPATORIUM (Thorough Wort)

Strong growing border plants suitable for cutting; they bear minute white flowers in dense heads; ordinary garden soil suits them.

- Coelestinum. Sept.-Oct. Light blue. 2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

FUNKIA (Day Lily)

Very attractive plants with broad overlapping leaves of various markings; very ornamental, surmounted by dainty lily-like flowers in terminal racemes. Effective in front of shrubbery,

under trees, or any shady position where they thrive best.

- Lanceolata. August. Dark blue. 1 ft., 3 for 85c; doz., \$3.00.
- Thomas Hogg. Aug.-Sept. Rosy purple. 1 1/2 ft. 3 for \$1.00; doz., \$3.60.
- Variegata. 3 for \$1.00; doz., \$3.60.

GAILLARDIA (Blanket Flower)

Gaillardias are fine for bedding and borders, invaluable as a cut-flower, remaining in bloom the entire summer.

- Grandiflora Mixed. June-Oct. Mixed. 1 1/2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

GYPSOPHILA

Large graceful sprays of double white flowers; splendid for cutting.

- Paniculata. (Baby's Breath). July-Aug. White. 1 1/2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

HELIANTHUS (Hardy Sunflower)

Hardy, perennial Sunflowers flourish splendidly in any garden city or country. They are a beautiful race of sturdy, showy plants, invaluable for cutting, as they last so long in water.

- Multiflorus Plenus (Dahlia Sunflower). Aug.-Sept. Double yellow. 5 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

HELIOPSIS

A very brilliant border plant, resembling a double sunflower; flowers double yellow; an excellent cut-flower.

- Gratissima. June-Aug. Double yellow. 2 1/2 ft. 3 for 85c; doz., \$3.00.

HEMEROCALLIS (Yellow Day Lily)

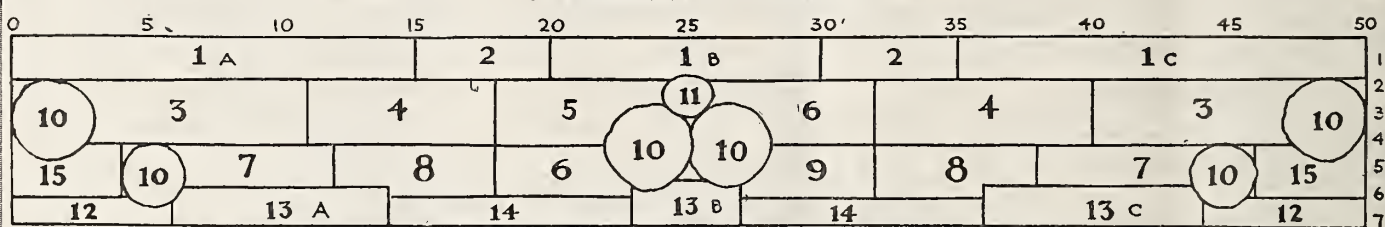
The Day Lilies are magnificent hardy plants and are undoubtedly among the finest plants for ordinary garden culture, as they will grow anywhere in either partial shade or full sun. The flowers are produced in spikes of from six to a dozen blooms, opening in succession, and are very useful when cut for indoor decoration. Good for borders, shrubberies, wild garden or naturalizing in grass.

- Citrina. June-July. Pale Citron yellow. 2 ft. 3 for 85c; doz., \$3.00.
- Flava. July-Aug. Yellow. 3 ft. 3 for 65c; doz., \$2.00; per 100, \$10.00.
- Thunbergii. July. Golden yellow. 4 ft. 3 for 85c; doz., \$3.00.
- Kwanso, fl. pl. June-July. Coppery red double. 3 ft. 3 for 65c; doz., \$2.00; per 100, \$10.00.
- Sovereign. June-July. Chrome yellow. 3 ft. 3 for 85c; doz., \$3.00.

HIBISCUS (Rose Mallows)

—Mixed Mallow Marvels. (Plant in Spring.)

A PERENNIAL BORDER



IT IS the charm of a perennial planting that its occupants become old friends. Once established, the flowers remain as long as they are wanted and year after year we greet them at the same time and in the same place.

Yet such a border is ever changing. Each flower has its season, when it buds, blossoms, and finally exhausts its glory and retires for a long rest.

Because of the variation in blooming season and the wide range of colors, the arrangement of a perennial border is in itself an art. By skillful planning, the border may be made to present from May until October a continuous show of blossoms, of colors that harmonize. The plants which may be used vary not only in color but in size. For the planning of a perennial border which will provide a succession of bloom and correct color of harmony, an exact knowledge of the plants to be used is required. And for the experienced gardener such arranging and rearranging affords keen pleasure.

For the beginner, who desires to acquire familiarity with the material before venturing upon an original plan, we offer a collection and planting plan.

This plan is intended for an area, 7 x 50 feet, on the border of the garden, in front of shrubbery or in other suitable location. In a smaller space exactly half of it may be used, requiring 7 x 25 feet. An explanation of the plan, in which the kind and number of plants to be used in each numbered location on the plan is here given:

KEY TO PERENNIAL BORDER PLAN, 7 x 50 FEET

Location No.	Plants to Be Used	No. of Plants
1A	ASTER, Climax	18
1B	BUDDLEYA, Variabilis	12
1C	SALVIA, Pitcheri	18
2	YUCCA, Filamentosa	6
3	ASTER, St. Egwin	18
4	MONARDA, Didyma	18
5	HIBISCUS, Mixed Mallow Marvel	3
6	COREOPSIS, Lanceolata	12
7	PHLOX, Mrs. Jenkins	18
8	LILLIUM CANDIDUM	24
9	CAMPANULA, Medium Mixed	12
10	PEONIES, Selection of	6
11	PRIMULA, Evening Primrose	3
12	SWEET WILLIAM, Mixed	24
13A	IRIS, Gertrude	10
13B	IRIS, Kharput	10
13C	IRIS, Mrs. H. Darwin	4
14	HARDY PINKS, Special Mixed	24
15	TULIPS, Darwin's Selection	24

The collection of 264 plants for space 7 x 50 feet sent to purchaser by express, not prepaid, for \$50.00; prepaid, \$58.00.

Half the collection, 132 plants, for space 7 x 25 feet sent to purchaser by express, not prepaid, for \$26.50; prepaid, \$30.00.

The Cottage Tulips are Excellent for the Perennial Border; All are Perfectly Hardy.

VAUGHAN'S HARDY IRISES

Flag Iris or Fleur de Lis

THESE Irises are all sun lovers and delight in a well drained situation. They are all deliciously fragrant, large and handsome, more or less beautifully mottled in the "Standards" and veined in the "Falls," while the beards range from delicate primrose to orange. Their beauty at first sight rivals that of the Orchid, but, on closer examination, we have no hesitation in saying they yield points of interest not to be found in the whole of the Orchid family. Those who have not used these Irises for surrounding lakes and ponds, or cultivated them in the flower borders, shrubberies, woodland walks, and wild gardens, should do so. If planted around ponds or lakes they should be placed well above the water level. If planted in the Fall, Iris of this class will become established sufficiently to blossom next year.

PLANTS BY PARCEL POST—If to be sent by parcel post add postage as follows; Single plants; 5c; 3 plants, 10c; 6 plants, 15c; 12 plants, 25c. We accept no responsibility for delays or conditions that may prove injurious to the contents.

PLANTS BY EXPRESS—We recommend this mode of transit where quantities are over 18 to 24 plants. We pack carefully, but accept no responsibility for delays over which we have no control that may cause injury to the contents.

"S" refers to the three standard, or upright curling petals; "F" to falls or drooping petals.



DARK BLUE AND PURPLE

- Archbishop** (Archeveque). "S" Deep velvety violet; "F" Deep purple violet; an exquisite Iris; very scarce. 3 for \$2.40; each, 85c.
- Black Prince** (Kochi Atro-purpurea). "S" Purple lilac; "F" velvety black. A very striking dark flower. Per 100, \$15.00; doz., \$3.00; 3 for 85c.
- Gertrude**. Deep violet blue; very fragrant. Per 100, \$10.00; doz., \$2.00; 3 for 55c.
- Monsignor**. Tall, large blossoms borne in profusion. "S" Blush lavender; "F" Violet with white penciling at throat. Doz., \$3.60; 3 for \$1.00.
- Twilight** (Crepuscule). "S" and "F" delicate violet-purple, quite devoid of markings. Immense flowers on long stems. Early. Highly recommended. Doz., \$3.60; 3 for \$1.00.

YELLOW SHADES

- Darius**. "S" Primrose yellow; "F" Lilac and primrose. Per 100, \$10.00; doz., \$2.00; 3 for 55c.
- Forin**. "S" and "F" pale canary yellow, merging to cream at base. Doz., \$2.50; 3 for 65c; per 100, \$12.00.
- Gajus**. "S" Light clear yellow; "F" Crimson, reticulated white and yellow. Per 100, \$10.00; doz., \$2.00; 3 for 85c.
- Loreley**. "S" Light yellow; "F" Ultramarine blue, bordered cream. Style arms deeper yellow; grows 30 inches. Per 100, \$15.00; doz., \$2.40; 3 for 65c.
- Maori King**. "S" Golden yellow; "F" Velvety maroon margined gold. Per 100, \$15.00; doz., \$3.00; 3 for 85c.
- Princess Victoria Louise**. (New.) "S" Immense sulphur yellow; "F" Plum color, shaded primrose. A very uncommon and pleasing shade. Per 100, \$12.00; doz., \$2.40; 3 for 65c.

LIGHT BLUE AND PURPLE

- Alcazar**. "S" Violet with bronze sheen; "F" rich crimson with lighter veins. A very rich and striking flower; 3 for \$2.75; each, \$1.00.
- Amas** (Macrantha). "S" Rich blue; "F" Violet; very large and handsome. Doz., \$4.00; each, 40c.
- Candelabre**. "S" Mauve and purple, with spotted effect on inside; "F" Violet, with white and black veins, unique candelabra-like form and rich coloring. Doz., \$2.50; 3 for 65c; per 100, \$12.00.
- Caterina**. "S" clear blue; "F" soft lilac. A new hybrid between Trojana and Pallida. Flowers of large size on stout branching stems. 3 for \$2.40; each, 85c.
- Celeste**. Fine satiny blue. One of the most beautiful of hardy Irises. Per 100, \$12.00; doz., \$2.50; 3 for 65c.
- Cherubin**. "S" Pale lilac; "F" Pale lilac, veined purple. Per 100, \$15.00; doz., \$3.00; 3 for 85c.
- Clio**. "S" White; "F" clear blue. Doz., \$3.00; 3 for 85c; per 100, \$15.00.
- Dalmarius**. A cross between Dalmatica and Darius; "S" pale grey-blue; "F" darker shaded violet brown; very distinct. Doz., \$3.00; 3 for 85c.
- Dorothea**. An early dwarf flower of exceptional merit. "S" Mauve, deeper in center; "F" Soft blue, with orange veining. Very fine. Per 100, \$10.00; doz., \$2.00; 3 for 55c.



Monsignor

Pallida Dalmatica

Fairy. Beautiful white with blue border and veinings. One of the indispensables. Doz., \$3.60; 3 for \$1.00.

Jeanne d'Arc. Flowers large, petals broad, of a fresh clear lilac. "S" Ruffled, spreading in manner of Japanese Iris; "F" Pure white, bordered lilac. 3 ft. Per 100, \$15.00; doz., \$3.00; 3 for 85c.

Kharput (Italia). "S" Violet; "F" Violet purple, large handsome bloom. Per 100, \$10.00; doz., \$2.00; 3 for 55c.

L'Avenir. A beautiful shade of satin blue. Per 100, \$15.00; doz., \$2.40; 3 for 65c.

Lord Seymour. Very much like Mme. Chereau, but "S" are a more delicate pale lavender. Doz., \$2.40; 3 for 65c; per 100, \$15.00.

Loute. "S" light blue and heliotrope; "F" Reddish purple and bronze. Flowers of majestic proportions and striking color. Doz., \$6.00; 3 for \$1.60; each, 60c.

Mme. Chereau. One of the most beautiful of its class. The flowers are pure white, with a broad and irregular border of clear blue, and are borne on strong upright stems that are often from two to three feet tall. Doz., \$2.40; 3 for 85c.

Oriflamme. "S" light blue; "F" violet purple; extra fine large flower. Doz., \$6.00; 3 for \$1.60; each, 60c.

Pallida Dalmatica. One of the most beautiful of all these Irises. Perfectly hardy, strong grower and very free flowering. Exquisite shade of lavender-blue. Per 100, \$15.00; doz., \$3.00; 3 for 85c.

Pres. Thiers. "S" Lavender blue; "F" Deeper blue, white penciling. Per 100, \$12.00; doz., \$2.50; 3 for 65c.

Stormcloud (Nuee d'Orange.) (New.) Very large flowers of grayish slate-blue, with bronze shading. "F" Purplish blue, very fine. Doz., \$5.00; 3 for \$1.50; each, 65c.

Tamerlane. "S" Pale violet; "F" deep purple. Magnificent, tall, bold. Doz., \$5.00; 3 for \$1.50; each, 65c.

Violaeca Grandiflora. Standards and Falls. Clear violet blue. The best true blue. Doz., \$5.00; 3 for \$1.50; each, 65c.

VAUGHAN'S GIANT COLLECTION HARDY IRIS

Dalmarius, Gertrude, Isoline, King of Iris, Lohengrin, Lord Seymour, Loute, Monsignor, Stormcloud and Twilight.

SPECIAL OFFER—One each of the above ten Iris for \$3.00 postpaid.

VAUGHAN'S COLLECTION OF PINK SHADES OF IRIS

Caprice, Isoline, Lohengrin, Marian, Queen Alexandra and Queen of May.

SPECIAL OFFER. One each of the above six Iris for \$1.75 postpaid.

RED, WHITE AND BLUE COLLECTION

Mme Pacquette Gertrude Mrs. H. Darwin. 1 Collection, 65c; 3 Collections, \$1.75; 6 Collections, \$3.00 All Prepaid.

BARGAIN COLLECTIONS

One each, 6 varieties (6 plants)..... \$1.00
Two each, 9 varieties (18 plants)..... 2.00
Three each, 12 varieties (36 plants)..... 3.00
(Our Selection). ALL PREPAID.

HARDY IRIS SPECIAL MIXTURE

Doz., \$1.25 (postpaid); (by express) per 100, \$6.00; per 1000, \$50.00 (Exp.) (25 at 100 rate, 250 at 1000 rate.)

GOOD MIXTURE

For large plantings and naturalizing, splendid value. Per 100, \$3.00; per 1000, \$24.00 (exp.)

BRONZE SHADES

Dr. Bernice. "S" Coppery bronze; "F" Velvety crimson. Very handsome. Per 100, \$10.00; doz., \$2.00; 3 for 55c.

Eldorado. "S" Bronze shaded yellow; "F" Violet purple touched at sides with bronze yellow. A unique and brilliant color combination; grows 32 inches high. Per 100, \$15.00; doz., \$3.00; 3 for 85c.

King of Iris. "S" Lemon yellow; "F" Rich crimson bordered with gold; very tall with large flowers. Doz., \$5.00; 3 for \$1.50; each, 60c.

Prosper Laugier. Deep velvety crimson, with deeply veined throat. "F" very broad, deep, ruby-purple, richly veined in throat. Doz., \$3.60; 3 for \$1.00.

Queen Alexandra "S" fawn, shot with lilac "F" lilac reticulated at base bronze; beards yellow. Doz., \$3.00; 3 for 85c.

PINK SHADES

Caprice. "S" Reddish purple; "F" Deeper, self-colored. One of the best red Irises. Per 100, \$15.00; doz., \$3.00; 3 for 85c.

Isoline. "S" Lilac pink; "F" Purplish old rose, with golden throat and yellow beard. Very handsome and extremely scarce. Per 100, \$25.00; doz., \$3.60; 3 for \$1.00.

Lohengrin. Large handsome pink silvery-mauve flowers. Per 100, \$15.00; doz., \$2.50; 3 for 65c.

Marian. "S" Lavender pink; "F" deep lavender pink of soft distinct color. Doz., \$3.00; 3 for 85c.

Queen of May. "S" Lilac pink; "F" Lilac, blended with white; distinct. Per 100, \$12.00; doz., \$2.40; 3 for 65c.

(Iris Continued on Next Page)

IRIS—Continued

WHITE

- Florentina Alba.** Large pure white fragrant flowers. Doz., \$3.00; 3 for 85c; per 100, \$15.00.
- Mrs. H. Darwin.** "S" Clear waxy white; "F" White, violet veins. Per 100, \$10.00; doz., \$2.00; 3 for 55c.
- Nelly.** "S" Blue; "F" clear white with blue veining and blotches. Per 100, \$15.00; doz., \$2.40; 3 for 65c.
- Rhein Nixe.** "S" White, very large. "F" Rich violet purple with distinct narrow white edge. A charming flower. Scarce. Beautiful in massed effects. Per 100, \$12.00; doz., \$2.50; 3 for 65c.

VARIOUS IRISES

- SIBIRICA Orientalis.** (Yale Blue.) A slender, graceful tall-growing Iris, with deep blue flowers. Doz., \$3.00; 3 for 85c.
- Snow Queen.** Snow-white flowers borne on strong erect stems. Doz., \$3.00; 3 for 85c.
- PUMILA Hybrida.** Dwarf variety of German Iris, growing about 8 inches high, very free-blooming, sweet scented. These bloom about two weeks before the German Iris. **Cyanea.** Rich royal purple with black shading. Each, 20c; doz., \$2.00; per 100, \$10.00.

HEUCHERA (Alum Root)

They are of the simplest cultivation, and thrive well in ordinary garden soil. Their dainty sprays of rose carmine flowers make them invaluable for cutting.

- Brizoides Gracillima.** May-June. Rosy Carmine. 2 ft. 3 for \$1.00; doz., \$3.60.
- Nancy Perry.** 3 for \$1.00; doz., \$3.60.

HYPERICUM (St. John's Wort)

A splendid new shrub-like plant of pendulous spreading habit. The flowers are golden yellow over 2 inches in diameter, like immense single buttercups. A most desirable plant for sunny situations.

- Moserianum.** July-Sept. Golden yellow, 3 ft. 3 for \$1.00; doz., \$3.60; per 100, \$20.00.

LAVENDULA

Delightfully fragrant flowers, much used when dry on account of their sweet odor.

- Vera.** (True Lavender.) June-Aug. Blue. 2 ft. 3 for 85c; doz., \$3.00.
- Linum Perenne Album.** White. 3 for 85c; doz., \$3.00.

LYCHNIS (Jerusalem Cross)

Highly ornamental plants for summer, valued for cut flowers and border plants.

- Chalcedonica.** June-Sept. Orange scarlet. 2-3 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

MERTENSIA (Blue Bells or Virginian Cowslip)

A lovely plant for choice spots in borders, or rock gardens, preferring a southwest aspect; will thrive in any good soil and in the shade.

- Virginica.** May-June. Light blue. 18 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.

MONARDA (Bergamot or Bee Balm)

Fine for naturalizing in woods and shrubbery; bearing large whorls of flowers and fragrant foliage; good for bees. Sandy loam and sunny position. Fine for masses.

- Didyma.** June-Sept. Brilliant scarlet. 3 ft. 3 for \$1.00; doz., \$3.60; per 100, \$18.00.

NEPETA

These little plants give clouds of bright blue flowers all summer. Makes a fine permanent edging and an excellent rock plant.

- Mussini.** May-Sept. Light blue. 1 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

PACHYSANDRA

Small whitish flowers in May, which are insignificant, deep green evergreen foliage, after the Helleborus type but much smaller; unsurpassable where an evergreen carpet is required. Looks well on graves, around shrubs and under trees, thrives anywhere.

- Terminalis.** May. White. 4-6 in. 3 for 85c; doz., \$3.00.



PYRETHRUM ROSEUM

PAPAVER (Iceland Poppy)

Elegant free flowering plants bearing flowers in abundance all summer.

- Nudicaule.** June-Sept. Orange. 15 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.
- Nudicaule.** June-Sept. White. 15 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.
- Nudicaule.** June-Sept. Yellow. 15 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.
- Nudicaule.** June-Sept. Royal Scarlet. 15 in. 3 for 85c; doz., \$3.00.

PHYSOSTEGIA (False Dragon Head)

Fine for a cool situation and rich, light soil, bearing erect spikes of pretty feathery-like flowers. Useful for borders, wild gardens and for cutting.

- Grandiflora.** June-Sept. Pink. 3 ft. 3 for \$1.25; doz., \$4.00.
- Virginica.** June-Sept. Soft pink. 3-4 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.
- Alba.** June-Sept. Pure white. 2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

PRIMULA

These Hardy Primroses are among our most delightful spring flowers. They require a partially shaded location.

- Veris Grandiflora.** June-July. Mixed. 10 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.
- Rheingold.** June-July. Orange and red. 10 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.

PYRETHRUM (Painted Daisy)

These are of great value for cut flower purposes, lasting in water longer than any flower we know. They are perfectly hardy, delighting in a cool, moist soil.

- Roseum, Single and Double Mixed.** June. Various. 18 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.

RANUNCULUS (Buttercup)

Acris is the well-known double yellow buttercup so effective either as a cut flower or grouped in the Hardy borders. Repens is a showy plant bearing rosettes of double yellow button-like flowers during May and June. Likes a shady or partial shady situation in rich soil.

- Acris fl. pl.** (True Buttercup). May-June. Yellow. 2 ft. 3 for \$1.00; doz., \$3.60.

RUDBECKIA (Cone Flower)

The Rudbeckias are very decorative plants for shrubberies, flower borders or side of carriage drives, thriving in any good garden soil. Golden Glow is perhaps the best known kind, although they are all worthy of a trial, especially the Purpurea for its wine-red color.

- Laciniata fl. pl.** (Golden Glow). July-Oct. Yellow. 5-7 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

SALVIA

Beautiful plants, with long spikes of tubular blue flowers. Leaves of *Officialis* used for seasonings and dressings. Pitcheri makes a grand showing in the fall and is without a doubt one of the best of all Autumn blue flowers.

- Pitcheri** (Meadow Sage). Sept.-Oct. Deep blue. 3 1/2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

- Officialis.** (Common Sage). 3 for 50c; doz., \$2.00; per 100, \$10.00.

SEDUM

Fine plants for rock-gardens, ruins, banks and walls, preferring open, loamy soil and stones. They will, however, flourish anywhere in city or country and stand dry weather. They are especially suited to sunny locations.

- Acre.** (Golden Moss). May-June. Bright yellow. 3 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.

- Brilliant.** June-July. Scarlet. 6 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.

- Rubrum.** June-Aug. Brilliant red. 6 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.

SPIRAEA (Meadow Sweet)

Filipendula fl. pl. is good for front row in hardy border or edging. Graceful plants, both in flower and foliage. The graceful plumes of *Venusta* are a handsome sight when in full bloom.

- Filipendula fl. pl.** (Dropwort). June-July. Double white, 18 in. 3 for \$1.00; doz., \$3.60.

STATICE (Sea Lavender)

Spreading panicles of everlasting flowers which are much prized for Winter decoration. They are graceful plants for the border; require sandy soil and full exposure to the sun.

- Latifolia.** July-Sept. Lavender. 2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

SWEET WILLIAM (Dianthus Barbatus)

The varieties offered are an improvement on the old-fashioned kinds, inasmuch as the colors and size of flower are far superior, being grown from select seed. Sweet William looks fine in solid beds or masses and requires a good, rich, well manured soil to grow it to perfection.

- Diadematum.** June-Oct. Rose sprinkled with white. 3 for 85c; doz., \$3.00; per 100, \$15.00.

- Scarlet Beauty.** June-Oct. Scarlet. 3 for 85c; doz., \$3.00; per 100, \$15.00.

- Johnson's Giant.** June-Oct. Mixed, extra fine. 2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

- Single White.** June-Oct. 2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

THALICTRUM (Meadow Rue)

These stately plants should be more grown on account of their finely cut foliage, which much resembles that of Maiden-hair Ferns. *Dipterocarum* is a beautiful and rare plant bearing light sprays of lilac flowers.

- Adiantifolium.** June-Aug. Yellow. 8 in. 3 for 85c; doz., \$3.00; per 100, \$15.00.

- Dipterocarum.** Aug.-Sept. Lilac Mauve. 4 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

TRILLIUM (Wake Robin)

One of the most beautiful of our native flowers. Hardy everywhere. Should be planted in partial shade. Splendid for naturalizing in moist shaded places. Flowers are pure white.

- Grandiflorum.** May-June. White. 12 in. 3 for 50c; doz., \$2.00; per 100, \$10.00.

VERONICA (Speedwell)

Among the prettiest of herbaceous plants, bearing in most cases blue flowers, which are much needed.

- Amethystinum.** June-July. Blue. 2 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.

- Spicata.** July-Aug. Blue. 3 for 85c; doz., \$3.00; per 100, \$15.00.

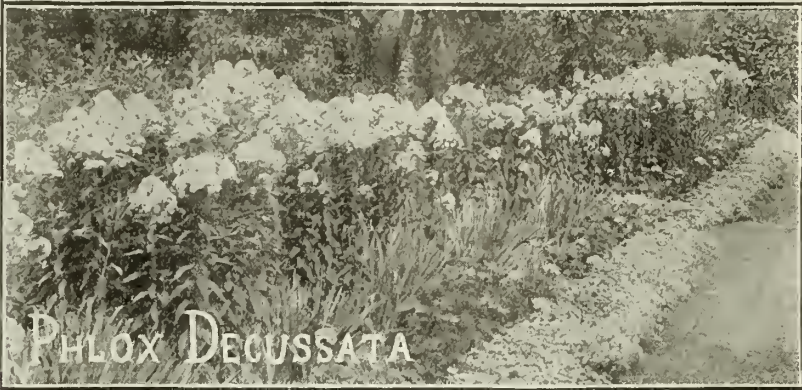
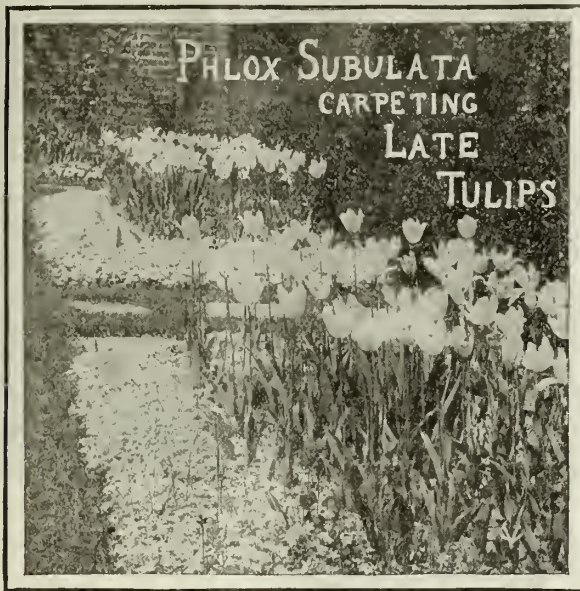
- Spicata Alba.** June-July. White. 18 in. 3 for 85c; doz., \$3.00.

- Longifolia Subsessilis.** 3 for 85c; doz., \$3.00.

YUCCA (Adam's Needle)

A charming plant to group in the hardy flower border, cemetery or as specimens on the lawn.

- Filamentosa.** June-July. Pure white. 4-5 ft. 3 for 85c; doz., \$3.00; per 100, \$15.00.



Hardy Phlox

PHLOX DECUSSATA

Dwarf and Alpine Phlox

THIS is one of the most useful flowers for summer decorations, the colors varying from pure white to deep crimson. They are not at all particular as to soil, and are exceedingly hardy. To obtain good results it is wise to manure the soil well and give them a fairly open situation, and an occasional soaking of water during very dry weather. Once planted they require no further attention for several years, but it is advisable to renew them about every fifth year.

The flowering period is from the early part of July to the middle of September and they grow to heights varying from 1 to 3 and even 4 feet. If the first flower spikes are cut off as soon as over, and the plants are given a good soaking, a second crop of bloom extending until late in the fall may be expected.

Our collection contains the finest of the new introductions. The colors are very beautiful and striking, and the individual flowers are in many cases twice and thrice the size of older varieties.

Letters and numbers immediately following the varieties indicate time of flowering and approximate height as follows:

- | | | |
|---------------|------------|---|
| (1) Early | (D) Dwarf | Our prices are for one-year field grown plants. |
| (2) Midseason | (M) Medium | |
| (3) Late | (T) Tall | |

The blue, lavender and orange colored ones should be planted in semi-shade, as the sun often bleaches out the colors in a short time.

THESE are remarkable for their dense prostrate habit and mass of bloom in spring and early summer. They are splendid subjects for the fronts of borders and graves. They are quite distinct from the Phloxes offered on this page.

Subulata Alba. A compact mass of elegant prostrate foliage, dainty white flowers in May and June; height, 4 in. Per dozen, \$3.00; 3 for 85c; 100, \$15.00.

Subulata Rosea. Same as above, but with dainty pink flowers. This and Alba are fine for graves. Per dozen, \$3.00; 3 for 85c.

Phlox Arendsi

Flowers in May, height 12 to 14 inches, excellent for perennial borders and shrubberies. Continues long in bloom.

Amanda. 15 in. high, well branched. Flowers of medium size, early, lavender with dark center. A splendid bedder. Per dozen, \$2.50; 3 for 65c.

Luise. Height, about 24 in. Color of flower, pale lilac with carmine eye. Per dozen, \$2.50; 3 for 65c.

Antonin Mercie. (M. 2.) A beautiful grayish lilac with white center. (A favorite among the light varieties.) Per doz., \$2.50; 3 for 65c; 100, \$16.00.

Crepuscule. (M 2.) Large cherry-red center, edged pale violet pink. Per doz., \$3.00; 3 for 85c.

Maculata Alpha. (Suffruticosa.) Dwarf early variety with dark pinkish mauve flowers, stems usually spotted and slender. Per doz., \$2.50; 3 for 65c.

Miss Lassberg. The purest white in cultivation. Extra fine. Per doz., \$3.60; 3 for \$1.00; per 100, \$20.00.

Miss Lingard. (T. 1.) (Suffruticosa). Pure white; the earliest of all. Blooms all summer. Good for cut flowers. Per doz., \$3.60; 3 for \$1.00; per 100, \$20.00.

Mrs. Jenkins. A very free-flowering early variety of medium height producing immense panicles of pure white flowers. Per doz., \$2.50; 3 for 65c; 100, \$15.00.

Rheinlander. A new variety of great beauty, a rare shade of salmon pink intensified by a distinct carot-red eye. Flowers and truss of unusual size. Doz., \$3.60; 3 for \$1.00.

Rhynstrom. Beautiful rich salmon-rose, enormous flowers. A good strong grower and a very free-flowering variety. Per doz., \$3.60; 3 for \$1.00.

Rosenberg. (M 2.) New. Bright reddish violet with blood-red eye; individual flowers large. Doz., \$3.60; 3 for \$1.00.

R. P. Struthers. Rosy carmine with claret eye. Doz., \$3.00; 3 for 85c.

Wanadis. Mottled white and light violet, intensified with bright purplish-red eye; very distinct. Doz., \$3.60; 3 for \$1.00.

MIXED.—1 year field-grown plants of a choice mixture of colors. Unnamed varieties. Our selection. Per doz., \$2.00; 3 for 55c.

SPECIAL OFFER No. 28. One each of 10 varieties, our selection from above. All distinctly labeled for \$2.50 by express, not prepaid.

SPECIAL OFFER No. 28A. One each of 6 varieties (six plants), our selection. Distinctly labeled for \$1.50 postpaid.

SPECIAL OFFER No. 28B. Two plants each of 3 varieties (six plants), three distinct colors, our selection, for \$1.25 postpaid.

Etna. Dark crimson and orange without any markings. Good sized flowers in compact trusses. Doz., \$3.60; 3 for \$1.00.

Europa. (T. 2.) White, distinct carmine eye, large flower. Per doz., \$4.00; 3 for \$1.25.



HARDY PHLOX



MARGUERITE GERARD

BARONESS SCHROEDER

DUKE OF WELLINGTON

PRES. TAFT

Vaughan's Peonies

PEONIES, especially the modern introductions, are probably the most valuable, and most beloved of all perennial plants. Planted in sun or semi-shade, in single clumps or long beds; or bordering lawns, shrub rows, and carriage drives, they give a grand display of large fragrant blossoms of brilliant colors during June, followed by their exquisite foliage which is very ornamental during summer months. They are also most effective for home and table decorations, and last longer in water than many other perennials. Avoid buying cheap Peonies, they require just as much care as the better kinds, and are disappointing in the end. We grow only varieties that we have thoroughly tested at our trial grounds, and here offer the grandest Peonies in commerce.

Planting. Peonies may be planted in the fall or spring, but fall planting has many advantages. Orders should be sent in at once so that we can forward when weather permits. Avoid planting too deeply, as this is often the cause of shy blooming; 2 or 3 inches of soil over the crown (eyes) being sufficient. After planting give a heavy mulching of rotten stable manure, and do not transplant the clumps for at least 5 years, and then only if very necessary. We offer three sizes, viz:—**Divided roots**, 2 to 5 eyes. **Medium roots**, 4 eyes and up. **Large roots**, 4 to 5-year old clumps, 8 eyes and up.

D—Divided. M—Medium. L—Large Roots.

White and Light Varieties

Baroness Schroeder. Rose type; late. White with shadings of flesh. This is one of the finest Peonies. Its immense flowers of great substance with high chalice-shaped center are freely produced, lasting a long time. It is as sweet as the rose with the true June rose fragrance. D, \$2.00.

Charlemagne. Lilac white with a slight blush center, fragrant, medium height, free bloomer. Globular rose-type flower. Flowers open better in water in house than on the plant. Late; extra. D, 75c.

Couronne D'Or. Large, flat, semi-rose type. Pure white, with a ring of yellow stamens around a tuft of center petals, tipped carmine. Medium tall, splendid grower, free bloomer. Late. D, 75c; M, \$1.50.

Duchess de Nemours (Calot). Sulphur white with greenish reflex. Flower large, cup-shaped. Splendid cut flower variety. Midseason, follows Festiva Maxima; fragrant. D, 65c; M, \$1.00; L, \$1.50.

Duke of Wellington. A very large, vigorous, tall-growing variety with flowers of enormous size, with high built centers, two rows of large broad guard petals of pure snow-white, while the center of the flower is sulphur-yellow. Flowers are borne on strong upright stalks, are fragrant and freely produced; late mid-season. D, 75c; M, \$1.20.

Festiva Maxima. This is probably the most popular and beautiful white peony. Flowers are of immense size, often 7 to 8 inches in diameter. The edges of center petals are dotted with carmine spots. It is a free and willing bloomer and quite early. D, 75c.

Jeanne d'Arc. Collar, cream white, shaded with sulphur. Guards, pale lilac-rose, and full high brilliant pink center, with occasional carmine spots. A vigorous plant, and a very free midseason bloomer. Exquisitely fragrant. D, 75c; M, \$1.15.

La Rosiere. Large, compact semi-double flower, with broad petals, outer petals pure white at center with yellowish-white border. In form and effect resembles an enormous tea rose. Midseason. D, \$1.00.

La Tulipe. Very large shell-formed bloom; delicate rose, fading to creamy white; center petals tipped with carmine; outside of guard petals striped with carmine. Late. D, 75c; M, \$1.15.

Madame de Verneville. Guard petals sulphur white, center delicate flesh. Flowers very double and compact, imbricated; born on long stems. This is one of the most desirable for all purposes. D, 60c; M, 90c; L, \$1.25.

Madame Emile Lemoine. Flowers extra large, imbricated, each petal overlapping the other, giving the flower a very unusually distinctive shape. Color glossy white, overlaid with a sheen of satiny pink, pure white when fully open. A strong grower and free bloomer. Midseason. D, \$2.00.

Madame De Vetry. Crown type; midseason. Very large, finely formed bloom. Lilac-white guards and crown, sulphur-white collar of wide petals, center striped carmine. Splendid cut flower variety and a fine bedding sort; fragrant. D, 75c.

Maria Lemoine. Delicate ivory white; solid massive blooms of extra size; very late. D, \$1.00; M, \$1.50.

Princess Beatrice. Crown type; midseason. Large compact, high built crown. Guards delicate lilac-rose, color creamy-white with shades of amber. Crown of brilliant sea-shell pink, the extreme center flecked crimson. A glorious flower; free bloomer, fragrant; the best of all the tricolor peonies. D, 85c; M, \$1.25.

Queen Victoria. Guard petals milk-white, tinted flesh, center creamy-white with crimson spots, large globular flower, on stems of medium height, free bloomer, midseason. D, 50c; M, 75c.

Light and Dark Pink and Rose

Alexander Dumas. Light violet-rose, of medium size. A creamy-white collar of narrow petals mingled with the white outer petals. A fine cut flower variety and a good producer. Early midseason. D, 60c.

Claire Dubois. Very large, double, globular flowers; color rich clear satiny pink, with glossy reflex. One of the most desirable pink peonies. Late midseason. D, \$1.25; M, \$2.00.

Dorchester. Delicate salmon-pink, a color that is very rare in peonies. Flowers very late. A most desirable sort. D, 75c; M, \$1.50.

Edulis Superba. This is one of our earliest varieties, usually coming into bloom on Decoration Day. Color is a bright clear mauve-pink, with silvery reflex. Flowers are of large size and very fragrant. D, 60c.

Eugenie Verdier. Delicate flesh pink, very tall, free and very beautiful. Midseason. We can conscientiously recommend this as one of the best pink peonies in cultivation. D, 75c.

Faust. Guard petals and crown pink, fading to lilac-white, collar of narrow sulphur-white petals, midseason. D, 60c; M, \$1.00.

Floral Treasure. Very large, full flower of clear, even pink, shading lighter at the center; a very delicate color. Early midseason. D, 75c; M, \$1.15.

Kohinoor. Shell pink, very free, splendid cut flower. Midseason. D, 75c; M, \$1.15.

Livingstone. Very massive solid light pink of the highest class. Rose shape. Free. Vigorous bloomer and very late. D, \$1.50; M, \$2.25.

Madame Emile Galle. Flat, compact, rose-type bloom. Deep lilac-white, changing to milk-white in the center. Tall. Late. D, \$1.00.

Madame Forel. Immense, compact, ball-shaped bloom. Clear deep rose. Strong stems, very fragrant. Late. D, \$1.00; M, \$1.50; L, \$2.00.

Marguerite Gerard. Large, compact, semi-rose developing into a crown with stamens. Very pale hydrangea-pink, fading to nearly white, central petals flecked dark carmine. Free, late. Extra. D, \$1.25.

M. Bouchardat. Semi-rose type; late midseason. Large, full, compact, imbricated bloom, bright pink shaded darker pink with broad silvery reflex. Free bloomer. Excellent for landscape work. D, 75c.

M Jules Elie. This is by many considered the most beautiful of all peonies. The flowers are of immense size, globular in form. The color is glistening lilac-pink, shading to deeper rose at the base. The whole flower is overlaid with a sheen of silver. One of the best cut flowers, being a splendid keeper. D, \$1.00; M, \$1.50.

Octavie Demay. Very large, flat crown, guards and center delicate hydrangea-pink, collar almost white. Very fragrant, very dwarf. Midseason. A wonderful peony. D, \$1.25.

President Taft. A vigorous, strong grower, a profuse bloomer, every shoot being crowned by a big bloom. The flower is really of enormous size; there may be peony flowers as large, but none larger. The color is a delicate hydrangea-pink, completely enveloped in a halo of angelic white. The fragrance is delicious. It is certainly a glorious, gorgeous flower, very large and double. D, \$2.50; M, \$3.75.

None of the Early Flowering Summer Perennials can excel the Peony in beauty of form, color and fragrance. Peonies should be in every garden.



MME. DE VERNEVILLE



FELIX CROUSSE



OFFICINALIS RUBRA PLENA



LIVINGSTONE

Vaughan's Peonies

Light and Dark Pink, and Rose—Continued

Souvenir de l'Exposition Universelle. Rose type; late midseason. Very large; flat flower of violet-rose with silvery reflex and distinctly tipped silver; fragrant; free bloomer, with spreading habit. D, 65c.

Therese. A most desirable variety of a charming shade of violet-rose, changing to lilac-white. Develops a high crown, strong grower and very free bloomer. A splendid addition to the mid-season sorts of which it is one of the best. D, \$6.00.

Triomphe de l'Exposition de Lille. Large, imbricated flower; soft carnation pink, with white reflex, carmine center; very fresh coloring. One of the best. D, 85c; M, \$1.25.

Red and Crimson Sorts

Adolph Rousseau. Huge semi-double flowers of deep purplish-red. Tall vigorous, early. One of the darkest of all. D, \$1.75.

Agida. A grand bright showy red, almost a scarlet. A free bloomer, semi-double; midseason. A very attractive color. D, 50c.

Augustin d'Hour. Bomb type; midseason. Extremely large; showy, perfectly built bloom. Color very deep, rich, brilliant solferino-red with slight silvery reflex; the largest of all the peonies. It is a taller grower and larger flower than Felix Crousse. D, \$1.25.

Delachei. Violet-crimson; large, compact flower; semi-rose type. A good red peony. D, 75c.

Felix Crousse. Rose type; late midseason. Felix Crousse fills the bill. Its large, globular flowers, solid and compactly built from edge to center, are a rich, even, brilliant, dazzling ruby-red. Exceptionally fiery, bright and effective. D, \$1.00; M, \$1.50.

Karl Rosenfield. Very large flower, globular semi-rose type. Extremely vigorous grower, tall, and free-flowering. As an early red, it has no equal. D, \$2.50; M, \$3.50.

M. Krelage. Large, compact, semi-rose type. Dark solferino-red, with silvery tips. Slightly fragrant. Strong, upright, free bloomer. Late. Very desirable. D, \$1.00.

Louis Van Houtte. Medium size, semi-rose type. Deep carmine-rose, tipped silver with a brilliant fiery reflex. Medium late. D, 60c; M, 85c.

M. Martin Cahuzac. Medium sized, globular, semi-rose type. Dark purple garnet with black reflex. The darkest peony known. Strong, vigorous grower. Free bloomer. Midseason. D, \$3.50.

Meissonier. Bomb type; midseason. Very brilliant crimson; full double flowers on stiff, wiry stems. The coloring is wonderfully rich and brilliant. In the Chicago cut flower markets this peony is known as the American Beauty Peony on account of the resemblance in color to the rose of that name. D, 85c.

Officinalis Rubra Plena. This is the old-fashioned red, the most brilliant of all red Peonies. Early and splendid cut flower. D, \$1.00.

Various Peonies

Single Unnamed.

- Single Pink, divided roots, each, 75c.
- Double White, divided roots, each 50c.
- Double Pink, divided roots, each, 50c.
- Double Red, divided roots, each, 60c.

Lynn, Mass.

The Hardy Perennial seeds were excellent, as were the seeds we had earlier in the season. Some seeds of another firm planted in the same frame looked like a poor proposition as compared with yours.

Very truly yours,
L. A. WENTWORTH.

Discount on Peonies

Orders amounting to over \$5.00 and less than \$10.00 are subject to 10 per cent discount for cash.

Orders over \$10.00 and less than \$15.00 are subject to 12 per cent discount for cash.

All orders of \$15.00 and over are subject to 15 per cent discount for cash.

Profits From Peonies

Peony culture is no longer a fad, but a real, live, business proposition, offering most excellent financial returns for the investment and labor required. Few, if any, of our popular commercial flowers can be produced with equal assurances of netting the grower better results in satisfaction and income. Peonies can be successfully grown under widely varying conditions, providing the proper cultural methods are pursued, and, while adaptable to culture in any open field, they are particularly suitable for improving vacant city property and back yard areas which would otherwise be waste ground.

Write us for list of best cut flower varieties of peonies and prices for dozen and 100 lots of a kind.



FESTIVA MAXIMA

ORNAMENTAL and FLOWERING SHRUBS



BERBERIS THUNBERGII—Japanese Barberrry

SHIPPING DIRECTIONS. Shrub orders amounting to \$5.00 and over and mixed orders, part shrubs and trees, amounting to \$8.00 include prepayment either by express or freight, within limits of Chicago, otherwise Shrubs and Trees must be sent by express or freight, customers paying charges. Always give full and explicit shipping directions, as our responsibility ends on delivery of Shrubs and Trees in good condition to the freight or express office. All Trees, Shrubs and Plants shipped subject to customers assuming risk regarding State Entomology requirements.

ABOUT PRICES OF TREES AND SHRUBS

Where the price each is given, the following are our rates for 10 of a kind.

Each	10	Each	10
40c	\$3.50	70c	\$6.50
45c	4.00	75c	7.00
50c	4.50	80c	7.50
55c	5.00	85c	8.00
60c	5.50	\$1.00	8.50
65c	6.00		

Less than 5 plants of a kind will be charged at the Each rate.

Where personal selection of any stock is made by customers at our Nursery we always charge according to its value.

No Trees, Shrubs or other perishable stock are sent C. O. D.

Ask for Pamphlet "Planting Suggestions" Useful advice Free

Visitors are invited to our nursery to inspect our stock of Ornamental Shrubs, Fruit and Shade Trees, etc. We have a choice lot of specimens such as are not usually seen. Our nursery is located at Western Springs, (15 miles west of Chicago on C. B. & Q. R.R.), two blocks South of 47th Street, the continuation of East Boulevard.

The Planting Season is limited by climatic conditions and by the stage of growth of the trees and plants. In Spring the planting season begins as soon as the frost is out of the ground sufficiently to permit digging, and continues until about June first. Toward the last of the summer the evergreens are the first to complete their growing season, and are usually ready for transplanting by the end of August. Deciduous trees and plants may be moved as soon as the leaves have performed their functions, which is generally at the time of the first frost in the fall, about the 1st of October. The fall season lasts until the ground becomes frozen too hard to allow digging, about December 1st.

A denotes shrubs which attain 9 to 12 feet in height at maturity.

B denotes shrubs which attain 5 to 8 feet in height at maturity.

C denotes shrubs which attain 1 to 4 feet in height at maturity.

Our Shrubs are transplanted every two or three years and are furnished with plenty of fibrous roots and should not be compared with stock that is seldom transplanted or never moved from cutting beds until sold.

Specimens. This term is applied to shrubs that are perfect both in height and diameter as well as shape, and are recommended where immediate effect is desired.

Non-Warranty. Most of the failures with trees and plants are due to improper planting, unfavorable soil or weather conditions, or other causes beyond the control of the nurseryman. Beyond the guarantee that all stock is in alive and healthy condition when it leaves our hands, we give no warranty as to description, quality, productiveness or growth of any of the trees, plants, or shrubs that we send out, nor will we be in any way responsible for the results obtained through their use. Every order for articles named in this catalogue will be executed under these conditions only. It is obvious, however, that we can afford to send out only such stock as will not only grow well, but prove true to name and description.



A VIEW OF OUR NURSERIES

IMPORTANT. Unpack and examine all packages on arrival, and if roots are dry, give a good soaking with water. Never let trees lie about with their roots exposed to the air. If several have to be planted, open a trench and "heel in" the roots, and then plant at your leisure.

ALMOND, DOUBLE-FLOWERING (B) } Plant in Spring
ALTHEA FRUTEX (Rose of Sharon)

AMELANCHIER (June-Berry or Shad-Bush)

Vulgaris. This variety blooms in early summer. The flowers are white and are followed by black or purplish berries, which are juicy and sweet. The leaves color beautifully in the fall. 3 to 4 ft. 75c.

AMORPHA (B)

Hardy, free-flowering shrubs, with feathery foliage, adapted to sunny locations. Very valuable for border plantations or for massing on banks and slopes.

Fruticosa (False Indigo.) This large growing shrub has dense terminal panicles of pretty, odd and attractive bluish flowers in July. 3-year, 85c.

ARALIA (The Angelica Tree)

The luxuriant, tropical aspect of these plants is extremely charming. The large compound leaves, often 3 or 4 feet long, the huge panicles of creamy white flowers, and, in autumn, the wealth of dark purple berries disposed in numerous globe-like clusters—these constitute some of the glories of the Aralias. They are small trees or bushes, relatively hardy, with the larger or tree-like stems surrounded at the base by smaller, unbranched shoots.

Pentaphylla. (B.) A pretty Japanese shrub of medium size, rapid growth, branches furnished with spines, leaves five-lobed. 3 to 4 ft., bushy, 90c.

Spinosa (Hercule's Club). A large shrub of semi-tropical appearance. Very prickly stem. Bears immense clusters of white flowers. 3 to 4 ft., 85c.

BERBERIS (Barberrry)

The following varieties are all "safe" ones. Only the Vulgaris, green-leaved and purple-leaved, are harmful as declared by the U. S. Department of Agriculture.

Hicifolia. (Holly-leaved Barberrry). (B.) The thick, spiny evergreen leaves of this species give it a very close resemblance to the Holly.

2 to 2½ ft., \$1.35; 3 ft. Specimens, \$1.75.

These prices are for stock with ball of earth and burlapped.

Thunbergii. (Japanese Barberrry.) (B.) One of the most beautiful shrubs either for hedging or general purposes. It is of a neat, compact growth and never need be touched with the shears. The foliage is beautiful at all times, and in the fall turns to a most brilliant crimson color. The plant is literally covered with bright scarlet berries all the fall and winter. It seldom grows over 4 ft. high. It is fine for the edge of a terrace and along roads and walks, and is justly popular as a hedge plant, forming without clipping a low dense hedge of surpassing grace and beauty, or by the free use of the shears, a formal hedge of great density and durability.

2-year, 12 to 18 inch, each, 45c; per 100, \$30.00.

3-year, 18 to 24 inch, each, 65c; per 100, \$40.00.

BOX - BARBERRY

The New Hardy Edging and Dwarf Hedge

A dwarf, upright form of the familiar Berberis Thunbergii; it is perfectly hardy, thriving wherever Berberis Thunbergii grows. It does not carry wheat rust.

Box-Barberrry lends itself most happily to low edgings for formal gardens, when set about four inches apart. It also makes a beautiful low hedge when set 6 to 8 inches apart. The foliage is light green, changing in autumn to dazzling red and yellow. We offer one-year field plants, each, 30c; 10 for \$2.75; per 100, \$22.50.



BECHTEL'S DOUBLE-FLOWERING CRAB

CALYCANTHUS FLORIDUS (Sweet Shrub) (A)

The Calycanthus is one of the most desirable shrubs. The wood is fragrant. Flowers are of a rare chocolate color, having an exquisite pineapple fragrance. They bloom in June and throughout the summer. 2 to 3 ft., bushy, 80c.

CEPHALANTHUS OCCIDENTALIS (Button Bush) (B)

A hardy vigorous shrub with large glossy foliage and attractive white flowers. Thrives best in moist loamy soil. Very valuable for waterside planting, especially when fully exposed to the sun. 2 to 3 ft., 60c.

CERASUS (Flowering' Cherry) (A)

With but a few exceptions there are none of the Spring-flowering shrubs that excel these in beauty when covered with their wealth of blossoms. Plant them around the lawn, near walks, or other conspicuous places where they can be admired by everybody.

Virginica (Choke Cherry). A handsome shrub or small tree with small racemes of beautiful white flowers. Leaves dark green, oval in shape, turning to yellow before falling. Fruit so dark a purple as to be nearly black. 4 to 5 ft., 80c; 5 to 6 ft., \$1.00.

CORCHORUS (Kerria) (B)

(The Globe Flower or Japanese Rose)

Japonicus. A shrub 4 to 6 feet tall. Native of Japan. Leaves bright green, fading in autumn with tones of yellow. Flowers numerous, bright yellow, large and showy. A charming old-fashioned plant. 1½ ft., extra bushy, 75c.

CORNUS (Dogwood) (B)

Hardy and vigorous shrubs, thriving best in moist, fertile soils. In addition, to the showy flowers and fruits which characterize most of the species, they are very attractive objects in winter on account of the brilliant color of the bark of the young shoots and twigs. Valuable for borders and waterside planting.

Mascula. (Cornelian Cherry.) (B.) One of the earliest of spring-blooming shrubs bearing a profusion of small, yellow flowers along its naked branches in early days of April. Bright red berries the size of small cherries. 2 to 3 ft., 65c; 4 to 5 ft., \$1.25; 5 to 6 ft., \$1.50.

Sanguinea. (Red-branched Dogwood.) (B.) Very conspicuous and ornamental. Bark in winter blood-red. 4 to 5 ft., bushy, 90c; 5 to 6 ft., bushy, \$1.10.

Sibirica. (Siberian Red Osier.) An upright shrub with bright blood-red branches. Native of Siberia. Flowers creamy white in numerous small flat-topped clusters. Fruit light blue or bluish white. Usually 6 to 10 feet tall. Very brilliant, especially in early spring, when the bark is intensely colored. Our stock is very bushy. 2 to 3 ft., 65c; 3 to 4 ft., 75c; 4 to 5 ft., 90c

Stolonifera Aurea. (Golden-twigg'd Osier.) A variety with golden yellow bark, very attractive. Planted in masses with the red-barked varieties, an effective and striking contrast may be secured. It is perfectly hardy. 2 to 3 ft., extra bushy, 65c; 3 to 4 ft., extra bushy, 75c; 4 to 5 ft., 90c.

CRAB (Bechtel's Double-Flowering) (A)

Most beautiful of all the flowering Crabs; hardy. Trees of medium size are covered in early spring with large, beautiful, double, fragrant flowers resembling small roses of a delicate pink. This is the ideal lawn tree for a small yard. 4 to 5 ft., extra fine, \$2.50; 5 to 6 ft., Specimens, \$4.50 to \$6.00; 6 to 7 ft., Specimens, \$6.00 to \$8.00; 7 to 8 ft., Specimens, \$8.00 to \$10.00. (See also *Malus Floribunda*.)

CRATAEGUS (Hawthorn)

Carrieri. Foliage dark, glossy green; fruit large, dark red, showy and hangs to tree long into the winter. 6 to 7 ft., \$2.50.

CYDONIA (Pyrus)

Hardy shrubs with handsome flowers in early spring. They are invaluable for border or garden planting, and make beautiful informal or clipped hedges. The fragrant fruits are often used for making a tart, delicious jelly. They thrive in almost any well-drained soil.

Japonica. (Japan Quince.) (B.) A single shrub on the lawn is very attractive; brilliant crimson flowers, among the first in spring. Valuable for ornamental hedges. 2 to 3 ft., 80c; 3 to 4 ft., 90c; 4 to 5 ft., \$1.00.

Maulei. A beautiful dwarf shrub bearing a profusion of bright orange-scarlet flowers. A very desirable hardy shrub. 2 to 3 ft., 85c; 3 to 4 ft., \$1.00.

Rosea Grandiflora. Bright rose-pink flowers. 3 to 4 ft., \$1.00.

Rubra Grandiflora. Deep crimson flowers, with very showy fruit, 2 to 3 ft. 50c; 3 to 4 ft., bushy, \$1.00.

Umblicata. (B.) Flowers brilliant rosy red, succeeded by large showy fruit, One of the finest large shrubs. 3 to 4 ft., \$1.00; 4 to 5 ft., bushy, \$1.20.

DEUTZIA

We are indebted to Japan for this valuable genus of plants. Their hardihood fine habit, luxuriant foliage and profusion of attractive flowers place them among the most beautiful and most popular of flowering shrubs. Flowers in June and through July and August. Of easy culture, thriving in almost any well-drained soil.

Crenata Flore Pleno. This is a variety that has very double flowers which are white tinged with rose. The flowers are produced in great profusion in racemes from 4 to 5 inches long. 4 to 5 ft., \$1.00.

Pride of Rochester. (B.) A variety of *Deutzia Crenata Flore Pleno*, and producing large double white flowers; back of the petals slightly tinted with rose. It excels all the older sorts in size of flower, length of panicle, profuseness of bloom and vigorous habit. 4 to 5 ft., extra bushy, \$1.00.

ELEAGNUS (Silver Thorn)

Angustifolia. (Russian Olive.) (B.) A large shrub with silvery, often spiny branches. Leaves light green above, silvery white beneath, lanceolate, 2 to 3 inches long. Flowers yellow within, silvery on the outside, fragrant. Berries yellow, coated with silver scales. 6 to 7 ft., \$1.00; 7 to 8 ft., \$1.25.

EUONYMUS (Strawberry or Burning Bush)

Hardy shrubs with showy fruits, noted for the intense coloring of the fall foliage. They are well adapted for specimen plants or for massing in the shrub borders. They require moist, loamy soil.

Alatus. (Winged Burning Bush.) (B.) Dwarf, compact habit. Wood corky; leaves small; fruit red; very beautiful in autumn when the foliage turns bright red. One of the prettiest of shrubs for specimens on the lawn. 2 to 3 ft., extra bushy, \$1.75; balled and burlap'd, 5 to 6 ft., Specimens, \$5.00 to \$7.00; 6 to 8 ft., Specimens, \$8.00 to \$10.00.

FORSYTHIA (Golden Bell)

These are pretty shrubs of medium size. All natives of China and Japan. The flowers are drooping, golden yellow, and appear very early in spring before the leaves. The best very early-flowering shrubs. Admired by thousands in Chicago Parks. They should be planted where they will receive the full benefit of early spring sunshine.

Intermedia. Flowers bright yellow, glossy green foliage. 3 to 4 ft., extra bushy, 70c; per 100, \$50.00; 4 to 5 ft., extra bushy, 85c; 4 to 5 ft., Specimens, \$1.25.

Guelder Rose. See *Viburnum Sterile*.

HIPPOPHAEA RHAMNOIDES (Sea Buckthorn) (B)

A large shrub with spine-tipped branches. Flowers yellowish, produced in short clusters in spring. Berries, orange or bright orange-red, maturing in early autumn. Good for embankments or bluffs near the sea shore. 3 to 4 ft., 75c.

HYDRANGEA

ARBORESCENS GRANDIFLORA "SNOWBALL" (C)

This new American *Hydrangea* was found growing wild some years ago in the woods of Ohio and is one of the most beautiful hardy flowering shrubs. Its greatest value, aside from its beauty, is that it comes into bloom just after the flowering time of the Lilacs, Syringas, *Viburnums* and spring-flowering *Spiraeas* and continues on into August. The panicle is more like a *Snowball* in form and size than *Paniculata Grandiflora* (hence the name), and is a pure white. It thrives well in various soils but requires shade. 2-yr., 75c; 3-yr. 85c.

HYDRANGEA PANICULATA GRANDIFLORA (A)

Tens of thousands of this noble summer and autumn-flowering shrub have been sold the past few years, and the demand is now universal. They grow to a height of 8 to 10 feet, and are absolutely hardy, grow in any soil and bloom the same year they are set out. They flower abundantly, bearing immense panicles of bloom a foot long, white at first, turning to rose in autumn, commencing to bloom in August, when very few shrubs are in bloom. An annual shortening of branches tends to increase the size of the flowers. 2-yr., bushy, 75c; 3-yr., bushy, 90c.



HYDRANGEA PANICULATA GRANDIFLORA

LIGUSTRUM (Privet)

These are extensively used for hedges and screens and are also planted among other shrubs for the beauty of their flowers and berries. They are hardy and vigorous, thriving in almost any fertile soil and stand clipping.

Amurense. (Amoor Privet.) (B) A large shrub with upright branches. Leaves dark green and lustrous, tardily deciduous, or in the South nearly evergreen. Flowers white, in erect panicles. Splendid for hedges. Very similar to the California Privet so universally used for hedging in the East, but unlike it here in that the Amoor is hardy. 2 to 3 ft., extra bushy, 60c; per 100, \$35.00; 3 to 4 ft., extra bushy, 75c; per 100, \$50.00.

Ibota. (Chinese Privet.) (B) A valuable hardy Privet for the western and northern states. It is almost evergreen and grows freely in all soils. Compact and regular in form, and bears shearing to any extent. Flowers white and fragrant; leaves long and shiny. A charming shrub for hedges or specimens. 2 to 3 ft., extra bushy, 60c; per 100, \$35.00; 3 to 4 ft., extra bushy, 75c; per 100, \$50.00; 4 ft. Specimens, 90c.

Ovalifolium. (Californian Privet.) (B). Large, broad leaves, and one of the best of all Privets, but not hardy in vicinity of Chicago. Those residing in southern states should use it. (Best planted in Spring). 2 to 3 ft., bushy, 40c; per 100, \$25.00.

LILAC (True Syringa) (B)

Alphonse Lavalle. A variety bearing beautiful double flowers of a rare blue color. 4 to 5 ft., \$1.85.

Bertha Dammann. Magnificent pure white flowers. 3 to 4 ft., \$1.20; 4 to 5 ft., \$2.00.

Charles X. A strong, rapid-growing variety, with large, shining leaves; trusses large, of a reddish purple color. 3 to 4 ft., \$1.50.

Congo. Flowers large, wine-red. Very valuable. 4 to 5 ft., \$2.00.

Japonica. June. Glossy, leathery leaves. It is quite hardy, and the yellowish white flowers come after other lilacs are through blooming. 3 to 4 ft., \$1.50; 4 to 5 ft., \$1.75.

Jeanne d'Arc. Large panicles of pure white flowers. 4 to 5 ft., \$2.00; 5 to 6 ft., \$2.25.

Josikaea. (Hungarian Lilac.) Has dark lilac-colored flowers. It blooms the first week in June. It is distinct and valuable. 3 to 4 ft., \$1.25.

Mad. Lemoine. Double pure white flowers, borne in large clusters. Strong bushes. 3 to 4 ft., \$1.75; 4 to 5 ft., \$2.00; 5 to 6 ft., \$2.50.

Marie Legraye. Large panicles of white flowers. Valuable for forcing. The finest white Lilac. 3 to 4 ft., \$1.50; 4 to 5 ft., \$1.75.

Michael Buchner. Dwarf plant, vigorous. Double flowers of pale lilac color. 3 to 4 ft., \$1.85; 4 to 5 ft., \$2.00; 5 to 6 ft., \$2.50.

Souvenir de Louis Spath. A distinct and most beautiful variety having immense trusses of deep purplish-red with enormous flowers. 3 to 4 ft., \$1.85; 4 to 5 ft., \$2.00.

Villosa. A species from Japan. Large branching panicles; flowers light purple in bud, white when open; fragrant. Especially valuable, as its flowers appear two weeks after those of other Lilacs. 3 to 4 ft., \$1.20; 4 to 5 ft., \$1.50.

Volcan. Flowers large, ruby-red. 4 to 5 ft., \$1.85.

Vulgaris Purpurea. (Common Lilac.) Bluish-purple flowers. A standard variety. Always good. 3 to 4 ft., extra bushy, 75c; per 100, \$60.00; 4 to 5 ft., extra bushy, 90c; per 100, \$75.00; 5 to 6 ft., \$1.20; per 100, \$80.00; 7 to 8 ft., \$1.75.

Waldeck-Rousseau. Flowers double, light rosy lilac. 4 to 5 ft., \$2.00.

LILAC TREE FORM

Japonica. A unique species from Japan becoming a good sized tree with glossy leathery leaves. It is quite hardy, and the creamy white flowers in large panicles bloom a month later than other lilacs, and for this reason it is especially desirable. 4 to 5 ft., \$1.75; 5 to 6 ft., \$2.25; 6 to 7 ft., \$3.00.

LONICERA (Bush Honeysuckle)

Handsome upright shrubs, with showy flowers and bright berries. They thrive in almost any fertile soil, and in most instances prefer sunny situations. Invaluable for border or mass planting. Other species are described under "Vines."

Alberti. A low shrub with slender graceful branches. Leaves narrow, glaucous, of bluish green, about an inch long. Flowers rosy pink, fragrant, blooming in late spring or early summer. Berries very large, vinous-red, with a glaucous bloom. Well adapted for rock gardens. 2 ft., bushy, 75c.

Morrowii. (Japanese Bush Honeysuckle) (B). A strong, vigorous grower with wide spreading branches, with pure white flowers produced in May and June, followed by brilliant red berries. 2 to 3 ft., 60c; 4 to 5 ft. Specimens, \$1.00.

Tatarica (Tartarian Honeysuckle). A large shrub with numerous upright or spreading branches. Flowers white or pink, borne in great profusion in late spring. Fruit red or orange, ripening in summer and persisting until autumn.

Tatarica Alba (White Tartarian) (B). 4 to 5 ft., extra bushy, 90c.

Tatarica Rosea (Pink Tartarian) (B). 3 to 4 ft., 80c; 4 to 5 ft., extra bushy, 90c. 5 to 6 ft., extra bushy, \$1.25.

Tatarica Rubra. (Red Tartarian). 6 to 7 ft., \$1.75.

LYCIUM (Matrimony Vine)

An old-fashioned hardy shrub with a wealth of scarlet berries. It thrives in almost any fertile soil. The long branches may be trained over fences or trellises, but more effective results may be obtained by planting at the top of retaining walls or steep banks and allowing the graceful stem to fall over.

Barbarum. 2-year, 60c.

**PRIVET HEDGE****MALUS (Pyrus)**

Arbutifolia (Choke-Berry). Clusters of small white flowers in May succeeded in August by bright red berries that remain until winter. Bright crimson autumn foliage. 3 to 4 ft., 80c.

Bechtel's Double Flowering Crab—See page 31.

Coronaria. (Wild Crab Apple). A small tree or bush with spreading spiny branches. Leaves heart-shaped, bronze at the time of unfolding, turning yellow or bronze in autumn. Flowers very fragrant, pink, produced in clusters. Fruit yellow-green, fragrant. Frequently used for making preserves. 4 to 5 ft., \$1.50.

Spectabilis Fl. Albo Pleno. Chinese Double White Flowered Crab. 5 to 6 ft. Specimens, \$1.75.

Niedwetskiana. Handsome pinkish white flowers, grand variety. 6 to 7 ft., \$1.75; 7 to 8 ft., \$2.25.

MORUS (Mulberry)

Tatarica. (Russian) 20 to 25 ft. Hardier in the northwest than all others. 7 to 8 ft., \$1.00.

PHILADELPHUS OR SYRINGA (Mock Orange)

Indispensable well-known shrubs that are prized for their beautiful foliage and white flowers. The taller kinds flower profusely and nothing is finer in their season; while the dwarf varieties do not bloom so lavishly, they form pretty, compact bushes, useful for the front of shrubberies.

Bouquet Blanc. Double or semi-double flowers; very floriferous. 3 to 4 ft., bushy, 90c.

Grandiflorus (A). (Large-flowered Syringa or Mock Orange). Without a doubt one of the most popular shrubs grown, and ought to be in every garden, no matter how small. Flowers are pure white, very large and it is one of the most free-flowering of the genus. 3 to 4 ft., bushy, 75c; 4 to 5 ft., bushy, 90c.

Lemoinei. Flowers are large, semi-double, very fine. The bush is of a dwarfish habit. Considered one of the best of many varieties of Mock Orange. 3 to 4 ft., 90c.

Lemoinei Conquette. Branches thin and flexible. Flowers large, double, irregular, with narrow sepals, tulip-shaped; very sweet and floriferous. 3 to 4 ft., 90c.

Lemoinei Erectus (B). A charming variety of erect growth; creamy white fragrant flowers, smaller than the other varieties, but very attractive. Distinguished by its smaller leaves. 3 to 4 ft., bushy, 90c.

PRIVET. See Ligustrum.

PRUNUS (Plum)**Ornamental and Flowering Varieties.**

Pissardii (A). (Purple-leaved Plum.) A small tree shrub. The young branches are a dark purple; the leaves, when young, are lustrous crimson, changing to a dark purple, and retain this beautiful tint until they drop, late in autumn. The tree is covered early in the spring with small, single white flowers, which appear before the leaves. Beautiful as lawn specimens, or grouped with other shrubs and trees for foliage effect. 4 to 5 ft., \$1.10; 5 to 6 ft., \$1.25.

Triloba (B). (Double-flowered Plum.) Native of China. A very desirable addition to hardy shrubs; flowers double, of a delicate pink, upwards of an inch in diameter, thickly set on the long, slender branches; flowers in May before the leaves unfold. Tree form, 5 ft. Specimens, \$6.00 to \$10.00.

Wild Plums. 5 to 7 ft., 50c; per 100, \$35.00.

PTELEA (Hop Tree)

Trifoliata. A large shrub or small tree of rapid growth and robust habit. Fruit winged, and in clusters, flowers in June. Succeeds well in the shade. 4 to 5 ft., \$1.00.

Meriden, Conn.

A year ago last fall, I ordered Japanese Iris seed from three different firms. Two days ago I transplanted the seedlings. From the seed bought of one firm I had one plant, from another sixteen plants, but from yours thirty-six plants.

Yours truly,

FRANCES R. IRES.



SPIRAEA—Van Houttei (Bridal Wreath)

RHAMNUS (Buckthorn)

Hardy vigorous shrubs with handsome foliage and showy berries. The larger-growing species are well adapted and often used for hedges, both informal and clipped. They thrive in moist, loamy soils and are not adverse to partial shade.

Catharticus. (A). A fine, robust shrub, with dark green foliage, white flowers and small, black fruit. A popular hedge plant. 3 to 4 ft., 60c; 4 to 5 ft., 75c; per 100, \$50.00; 5 to 6 ft., \$1.00; per 100, \$70.00; 6 to 7 ft., \$1.25.

Frangula. (Alder Buckthorn.) (B.) A valuable and decorative species of erect habit with glossy leaves and black berries. Its long black branches speckled with white are very attractive in winter. 5 to 6 ft., \$1.10.

RHODOTYPOS (White Kerria)

Kerrioides (C). A very ornamental Japanese shrub of medium size with handsome foliage and large single white flowers in the latter part of May, succeeded by numerous black berries. 2 to 3 ft., 80c.

RIBES CURRANT

Alpinum (B). An attractive shrub with fragrant golden-yellow flowers and deep scarlet fruit. 2 to 3 ft., extra bushy, 60c.

Aureum. (Yellow-flowering or Missouri Currant.) (B) A native shrub with glabrous shining leaves and yellow sweet-scented flowers in June. 2 to 3 ft., bushy, 60c; 3 to 4 ft., bushy, 75c.

RHUS (Sumach)

Aromatica (Fragrant Sumach) (C). A low shrub with a peculiar aromatic odor when bruised. Brilliant red foliage in autumn. 3 to 4 ft., 90c.

Cotinus. (Smoke Tree). A small tree or large shrub with obovate leaves. Flowers pale purple, borne in loose panicles, the pedicels of which soon lengthen and become plumose, lending the smoky aspect which gave to the plant its common name. A highly ornamental object. In autumn the foliage assumes brilliant tones of red and yellow. 3 to 4 ft., \$1.00.

Glabra Laciniata (Cut-leaved Sumach). A very striking plant, of moderate size, with deeply cut leaves resembling rich fern leaves; dark green above and glaucous below, and turning to a rich red in autumn. 3 to 4 ft., 80c.

Typhina Laciniata. (Fern-leaved Stagbourn Sumach). As its name indicates, the branches resemble the elk's horn while developing, and it is one of the most tropical-looking native shrubs we possess. The foliage is finely cut and turns a golden-yellow in the fall. Attains a height of 20 ft. 2 to 3 ft., 50c; 4 to 5 ft., 90c.

ROSA (Rose)

Rubiginosa. (True English Sweet Briar.) This is the true Eglantine. It is perfectly hardy, and once it is planted, little, if any, care is necessary. 4-yr., 85c.

Rugosa Rubra. This red-flowered single Japanese rose is very valuable for shrubberies. Bright pink flowers in May, with large tomato-like berries in winter. 2-yr., 75c.

SALIX (Willow)

The Willows will grow anywhere, but do best in rich moist soil. They are particularly valuable as among the few trees that will endure the harsh winds of the sea coast. Make attractive clumps in neighborhood of ponds and streams.

Britzensis. Of particular beauty in winter; the color of the bark changes with the approach of cold weather, taking on a flame or bronze color, and this is maintained until spring. Very effective when the ground is covered with snow. 8 to 10 ft., 90c.

Discolor (Pussy Willow). A small tree with upright or ascending branches. Catkins appearing in early spring before the leaves come out. Very handsome in flower and greatly esteemed. 3 to 4 ft., 75c; per 100, \$50.00; 4 to 5 ft., 85c; per 100, \$65.00.

Laurifolia. (Laurel-leaved Willow). A rapid grower, erect form, with broad glossy, dark-green leaves; admirable for sea shore and narrow streets. 5 to 6 ft., 80c; per 100, \$60.00; 6 to 7 ft., 90c; per 100, \$70.00.

Vitellina Aurea. Branches rich golden-yellow with drooping habit. 5 to 6 ft., 85c.

SAMBUCUS (Elder)

Hardy vigorous-growing shrubs with showy flowers and a profusion of berries. They thrive best in moist loamy soils, and are well adapted for waterside and border planting.

Nigra Aurea. (A). Golden-leaved. The golden foliage of this makes it in much demand. It makes a showy appearance when planted in shrub beds. 4 to 5 ft., 75c; 5 to 6 ft., 90c.

SAMBUCUS (Elder)—Continued.

Nigra Laciniata. (Cut-leaved Elder.) The foliage is deeply cut and incised, lending an airy fern-like aspect. Very attractive. 7 to 8 ft., \$1.10.

Racemosa. Attractive red berries in summer. 3 to 4 ft., 75c.

SHAD BUSH. See Amelanchier. **SNOWBERRY.** See Symphoricarpos.

SILVER THORN. See Eleagnus **SWEET BRIAR.** See Rosa Rubiginosa.

SMOKE TREE. See Rhus Cotinus. **SWEET SHRUB.** See Calycanthus.

SNOWBALLS. See Viburnum.

SPIRAEA

A large group of showy, free-flowering, hardy shrubs. Some of the species bloom in early spring, others in midsummer, while some produce their flowers from summer until fall.

Anthony Waterer. (B). Perpetual-blooming Red Spiraea. A fine, hardy perpetual-blooming shrub, very desirable for the lawn. Makes nice, round bushes 3 ft. high and wide; beginning to bloom in summer, continuing until fall. Rose-red flowers in large, round clusters all over the bush. 18 to 24 in., 85c; 24 to 30 in., \$1.00.

Arguta Multiflora (Snow Garland). A remarkably floriferous and showy shrub. Leaves narrow, bright green fading with tones of yellow and orange. Flowers pure white, borne in great profusion in early spring. Height 3 to 5 ft. One of the best of the early Spiraeas. 3 to 4 ft., \$1.00; 4 to 5 ft., \$1.20.

Billardi. (B). Pink flowers; blooms nearly all summer. It is a grand subject for planting in masses, and makes a good cut flower. 3 to 4 ft., 75c.

Callosa Alba. (Fortune's Dwarf White Spiraea.) A white flowering variety, of dwarf, bushy, symmetrical form. Keeps in flower all summer. A valuable small shrub. 12 to 18 in., 75c; 18 to 24 in., 90c.

Callosa Froebeli. Low-growing shrub with bluish-green leaves. Mass of rich rose-colored blooms throughout summer. Extra bushy, 2 to 2½ ft., 90c.

Opulifolia. (Nine Bark.) A tall shrub with spreading branches, growing 8 to 10 ft. high. Flowers whitish, in early summer, disposed in numerous clusters. Especially valuable for shaded places. 4 to 5 ft., extra bushy, 70c; 5 to 6 ft., 85c.

Opulifolia Aurea. (Golden-leaved Nine Bark.) (B). Golden yellow tinted foliage, and white flowers in June. Very conspicuous. 3 to 4 ft., 75c; 4 to 5 ft., 85c.

Thunbergii. (Thunberg's Spiraea.) (B). Of dwarf habit and rounded, graceful form; branches slender and somewhat drooping; foliage narrow and yellowish green; flowers small, white, appearing early in spring, being one of the first Spiraeas to flower. When in bloom they appear as if covered with snow. 2 to 2½ ft., 75c.

Van Houttei (Bridal Wreath). This is without a doubt the most beautiful and useful of shrubs. Always effective if planted singly or in groups on the lawn, in front of the porch, in shrub borders or in a hedge. Handsome throughout the entire year. Our stock is very large and in splendid condition. 2 to 3 ft., bushy, 60c; 3 to 4 ft., bushy, 75c; 4 to 5 ft., bushy, 90c; 4 to 5 ft., extra bushy, \$1.10.

SYMPHORICARPUS

(The Coral-Berry, Indian Currant and Snowberry)

Small native shrubs much used in shaded places and in open masses. Grow in almost any soil; quite hardy; very ornamental, when covered with berries.

Racemosus. (Snowberry.) (B). A graceful shrub, 3 to 5 ft. tall, with slender branches. Flowers white or pinkish, in loose racemes in summer followed by waxy, white berries, which remain almost until spring. 2 to 3 ft., bushy, 50c; 3 to 4 ft., 65c.

Vulgaris. (Coral-Berry or Indian Currant.) (B). A grand shrub, producing a wealth of red or purplish berries which remain on the branches all winter. Leaves ovate, bright green. 2 to 3 ft., 65c; 3 to 4 ft., bushy, 75c.

TAMARIX (B)

Shrubs of strong but slender, upright growth, clothed in foliage as light and feathery as that of the asparagus. Their delicate fringed flowers are usually some warm shade of pink or red and so are very ornamental at the back of shrubby borders and valuable for seaside.

Amurense. A splendid hardy variety, with silky pink tassels; flowers all summer. 3 to 4 ft., 60c; 4 to 5 ft., 75c; 5 to 6 ft., 90c; 6 to 7 ft., \$1.10.

Hispid Aestivalis. A new variety of vigorous growth. In May the branches are covered half their length with numerous bright carmine-pink flowers. Blooms for a long time. 3 to 4 ft., 75c; 4 to 5 ft., 90c.

VIBURNUM

(The Arrow-woods, High Bush Cranberry and Snowballs)

The Viburnums are one of the most useful shrubs, being very hardy and of good habit. They all have white flowers mostly on flat heads and with a few exceptions are noted for their handsome clusters of berries. The foliage assumes brilliant and intense color tones in the autumn.

Carlesii. A dwarf compact shrub, bearing large corymbs of white blossoms, of a strong delicious fragrance, quite surpassing any shrub we know of, and equal to that of a Bouvardia. Very rare. 12 to 18 inch, \$4.00.

Lantana. (Early white Lantana-leaved Viburnum.) (A). Large, robust shrub with soft, heavy leaves, and large clusters of white flowers in May, succeeded by red fruit; retains its foliage very late. 3 to 4 ft., 75c; 4 to 5 ft., 90c.

Opulus. (High Bush Cranberry.) (A). May. Spreading habit. Single white flowers borne in flat, imperfect clusters followed by clusters of red berries that cling to the leafless branches all winter. 3 to 4 ft., extra bushy, 90c; 4 to 5 ft., \$1.20. 6 to 7 ft. Specimens, \$1.75.

Opulus Sterile. (The old-fashioned "Snowball Tree.") Large balls or globes of white flowers. Well known. 3 to 4 ft., 90c.

WEIGELIA (Diervilla) (B)

These shrubs bloom after the lilacs, in June and July. They make a strong growth, erect when young, gradually spreading and drooping into most graceful shapes with age. Their large flowers are of wide trumpet-shape, colors from white to red, and borne in clusters thickly along the branches.

Amabilis. Of robust habit. Large foliage and pink flowers. Blooms freely in the autumn. 3 to 4 ft., 85c.

Candida. White Weigelia, flowering throughout the summer. Unique and very attractive. 3 to 4 ft., \$1.00.

Nana Variegata. (C). One of the most conspicuous shrubs; leaves beautifully margined creamy white; flowers pink. A dwarf grower and admirably adapted to small lawns or gardens. 2 to 3 ft., extra bushy, 75c.

Rosea. A beautiful shrub, with rose-colored flowers. 2 to 3 ft., 75c; 3 to 4 ft., \$1.00.

ORNAMENTAL TREES

On orders for trees amounting to \$12.00 and over, we prepay freight charges within limits of Chicago, orders for smaller amounts are shipped charges collect.

ASH (Fraxinus)

Americana. (American White Ash.) A fine tree that produces large clusters of greenish white flowers on the ends of the branches in June. A desirable shade tree for street or lawn planting.

Height	Caliper	Each	10 for	100 for
10 to 12 ft.	1½ to 2 inch	\$3.00	\$25.00	\$200.00
8 to 10 ft.	.....	2.50	20.00	150.00

Viridis. (Green Ash.) A beautiful tree with glossy green leaves and symmetrical habit, rapid growth. A splendid tree for street planting.

We have these only in larger sizes, write for prices.

BOX ELDER (Ash Leaved Maple)

A rapid growing tree with wide spreading branches having bright green leaves, turning yellow in early autumn. 10 to 12 ft., \$2.25.

CATALPA

Bungei. (Umbrella Tree.) These beautiful globe-shaped tops being grafted high on clean straight stems form one of the most valuable trees for landscape designing, especially for formal effects. 2-year heads, 5 to 6 ft. clear stem, \$3.00 to \$4.50.

Kaempferi. (Japanese Catalpa.) A species of rapid growth, deep green, glossy foliage.

Height	Caliper	Each	10 for
8 to 10 ft.	1½ to 2 inch	\$2.75	\$25.00
10 to 12 ft.	2 to 2½ inch	3.50	32.50

Speciosa. (Western Catalpa.) One of the most rapid growers, producing large panicles of fragrant white flowers delicately marked with violet and yellow. Reliable, hardy and extensively planted.

Height	Caliper	Each	10 for	100 for
8 to 10 ft.	1½ to 2 inch	\$2.50	\$20.00	\$175.00
10 to 12 ft.	2 to 2½ inch	3.25	30.00	.....
12 to 14 ft.	2½ to 3 inch	4.00	35.00	.....

ELM (Ulmus)

American. The ideal street tree. We offer shapely trees.

Height	Caliper	Each	10 for	100 for
8 to 10 ft.	1½ to 2 inch	\$ 2.50	\$20.00	.....
10 to 12 ft.	2 to 2½ inch	4.00	37.50	\$350.00
10 to 12 ft.	2½ inch	5.00	47.50	450.00
12 to 14 ft.	3 inch	6.50	60.00	.....
12 to 14 ft.	3½ inch	8.50	80.00	.....
14 to 16 ft.	4 inch	12.00	.....	.....

For larger trees and larger quantities, write for prices.

English Elm. (U. Campestris.) Leaves deep rich green, persisting and holding their color longer than any other species. Extensively planted as a shade tree.

Height	Caliper	Each	10 for
10 to 12 ft.	2½ inch	\$ 5.75	\$55.00
12 to 14 ft.	3 inch	6.75	65.00
14 to 16 ft.	3½ inch	8.50	80.00
16 to 18 ft.	4 inch	12.00	100.00
16 to 18 ft.	4½ inch	15.00	.....
18 to 20 ft.	5 inch	18.00	.....

Write for prices in larger lots.

This is wonderfully fine stock and this type is much better suited to city conditions than the American Elm, which latter is best for the country.

Huntingdon Elm. (Ulmus Vegeta.) Clean, smooth bark, erect, stately habit. Not as subject to attacks of insects as some kinds, and one of the very best ornamental trees for any purpose.

Height	Caliper	Each
8 to 10 ft.	1 to 1½ inch	\$3.75
8 to 10 ft.	1½ to 2 inch	4.00 to 4.50
10 to 12 ft.	2 to 2½ inch	4.50 to 5.50

Monumental Elm. (U. Campestris Monumentalis.) A slow growing variety, forms a straight dense column, reminding one of a Lombardy Poplar. Very distinct and beautiful.

Height	Caliper	Each	10 for
8 to 10 ft.	1½ to 2 inch	\$ 4.00	\$35.00
10 to 12 ft.	2 to 2½ inch	5.00	45.00
12 to 15 ft.	2½ to 3 inch	\$ 7.50 to 10.00	.....
12 to 15 ft.	3½ to 4 inch	15.00 to 18.00	.....

Purpurea. (Purple-leaved.) A variety with large purple leaves in the spring, changing to dark green as season advances.

Height	Caliper	Each
15 to 18 ft.	3 to 3½ inch	\$10.00 to \$15.00
18 to 20 ft.	3½ to 4 inch	15.00 to 18.00
18 to 20 ft.	4½ to 5 inch	18.00 to 22.00

Scotch Elm. This is a splendid variety for street planting. They average 7 to 8 ft. clear stem and we have 1500 to select from.

Height	Caliper	Each	10 for
8 to 10 ft.	1½ to 2 inch	\$3.50	\$32.50
10 to 12 ft.	2 to 2½ inch	4.00	35.00
10 to 12 ft.	2½ to 3 inch	6.00	55.00

GINGKO BILOBA (Maidenhair Tree)

THE value of this tree lies in the fact that it is immune from the ordinary attacks of insects and withstands so well the unnatural conditions of our cities. It is highly ornamental on lawns or public grounds.

Height	Caliper	Each
7 to 8 ft.	.....	\$2.50
10 to 12 ft.	2 to 2½ inch	\$5.00 to 8.00

LOCUST (Robinia)

Pseudacacia. (Black or Yellow Locust.) It is well known for its beauty when loaded with its racemes of creamy flowers in spring. 8 to 10 ft., each, \$1.50; 10 for \$10.00.

Honey Locust. (American.) A tree of picturesque outline and rapid growth. Thrives on very light soils.

Height	Each	10 for	100 for
7 to 8 ft.	\$1.50	\$12.50	\$ 90.00
8 to 10 ft.	2.00	15.00	100.00

MAPLE (Acer)

Norway Maple. (Platanoides.) Its compact habit and vigorous growth render it one of the most desirable.

Height	Caliper	Each	10 for
10 to 12 ft.	2 inch	\$ 5.50	\$50.00
10 to 15 ft.	2½ inch	7.00	65.00
15 to 18 ft.	3 inch (8 to 10 ft. clear stem)	9.00	85.00
15 to 18 ft.	3½ inch (8 to 10 ft. clear stem)	15.00	.....

Schwedleri. (Schwedler's Purple-Leaved Maple.) A handsome tree with beautiful foliage, in the spring a purplish crimson changing to dark green during the summer and fading to tones of purple, red and brown in the fall. Has the same characteristics as the Norway Maple.

Height	Caliper	Each
12 to 15 ft.	2 inch	\$ 6.50
12 to 15 ft.	2½ inch	9.50
15 to 18 ft.	3 inch	15.00

Silver Maple. (Dasycarpum.) Very fast grower, makes dense shade and thrives in any soil. We offer especially fine trees for street planting.

Height	Caliper	Each	10 for
8 to 10 ft.	1 to 1½ inch	\$2.25	\$20.00
10 to 12 ft.	1½ to 2 inch	2.70	25.00

MULBERRY (Morus)

Russian. (M. Tartarica.) Very hardy, vigorous grower, fruit of small size, varies in color from white to black. (For prices see Shrubs.)

Weeping Mulberry. (M. Tartarica Pendula.) The most beautiful weeping tree of recent introduction. The slender branches grow downward parallel with the stem, forming an umbrella-like shape. All who have seen it agree that in light airy gracefulness and delicacy of form, it is without a rival. It undoubtedly takes the foremost place among weeping trees. It has beautiful foliage, is hardy, enduring the cold of the north and the heat of the south. 5 to 6 ft., 2 yr. heads, \$4.00 to \$6.00.

OAK (Quercus)

Pin Oak. (Quercus Palustris.) An upright vigorous growing variety, forming a stately round-topped tree, with long slightly pendulous branches. The dark green, deeply cut foliage turns to brilliant yellow and crimson shades in autumn, forming one of the best of our fall colored trees. Transplants the easiest of all oaks, and is one of our very finest lawn trees and a desirable avenue tree.

Height	Caliper	Each	10 for
7 to 8 ft.	1 to 1½ inch	\$3.00	\$25.00
8 to 10 ft.	1½ to 2 inch	4.00	35.00

Red Oak. (Quercus Rubra.) An American variety, rapid in growth, with large foliage, which assumes in the fall a purplish scarlet hue. It makes a fine specimen and cannot be too highly recommended for general planting.

Height	Caliper	Each	10 for
7 to 8 ft.	1 to 1½ inch	\$3.00	\$25.00
8 to 10 ft.	1½ to 2 inch	4.00	35.00

POPLAR (Populus)

Bolleana. Grows 60 to 80 feet high. Similar in habit to the Lombardy Poplar; very emphatic and a distinct-looking tree; has silvery white foliage.

Height	Caliper	Each
8 to 10 ft.	1½ to 2 inch	\$2.50 to \$3.00
10 to 12 ft.	2 to 2½ inch	3.00 to 3.50
12 to 14 ft.	2½ to 3 inch	3.50 to 4.00

Carolina Poplar.

Height	Caliper	Each
10 to 12 ft.	1½ to 2 inch	\$2.25 to \$3.00
10 to 12 ft.	2 to 2½ inch	3.00 to 3.50

Lombardy Poplar. A tall columnar tree of picturesque and very formal aspect. One of the characteristic trees of Lombardy and other parts of Italy. Widely planted; a very rapid-growing and hardy tree.

Height	Caliper	Each	10 for	100 for
8 to 10 ft.	.....	\$1.20	\$ 8.00	\$50.00
10 to 12 ft.	1½ to 2 inch	1.50	10.00	70.00
12 to 15 ft.	2 to 2½ inch	2.50	.....	.....

TREE OF HEAVEN

Tree of Heaven. (Ailanthus Glandulosa.) A lofty rapid-growing tree from China, with long elegant feathery foliage exempt from all diseases and insects. Thoroughly hardy and has ability to withstand the smoke and gases of the city. 5 to 6 ft., \$1.20.

WALNUT

Sieboldii. A perfectly hardy tree of rapid growth and handsome outline. Nuts produced in clusters. A fine ornamental tree. 7 to 8 ft., each, \$2.00; 10 for \$16.50. 8 to 10 ft., each, \$2.50; 10 for \$20.00.

Hardy Coniferous Evergreens

EVERGREENS include some of the most beautiful trees in cultivation, and varieties may be selected which are adapted to almost any soil or climate. We are giving attention to the propagation and culture of perfectly hardy species and varieties which are the most useful to the general planter, and the list offered below comprises those most in demand as individual specimens and for windbreaks. As individual specimens for lawn planting, it is difficult to imagine anything more stately and beautiful. As screens against objectionable objects and for windbreaks and hedges, nothing is to be had which will give as thick and dense foliage during the entire season.

All of our Evergreens are transplanted every two years, and to insure against loss in handling, each will be lifted with a ball of earth and the roots wrapped in burlap.

To be successful, transplanting should be done during the early spring, **April or May**, and in **September**. We advise the planting of the larger specimens quoted. By this means you get immediate results, which otherwise would take time to obtain.

PICEA (Spruce)

Excelsa. (Norway Spruce). A tall and beautiful tree, the most widely grown of all the spruces, equally adaptable to planting as specimens on lawns, for shelter or windbreak. 13 to 24 in., **\$1.50 to \$2.00**.

Excelsa Nigra. (American Black Spruce). A small or medium sized tree; a native of North America, of great hardiness, and particularly useful for planting in the Northern States. 1 to 1½ ft., **\$1.50 to \$2.00**. 1½ to 2 ft., **\$2.00 to \$2.50**.

Koster's Blue Spruce

Pungens Glauca Kosteriana (Koster's Blue Spruce). Notable variety from the Rocky Mountains and the most valuable conifer for ornamental planting. A rapid vigorous grower, with stiff, close branches and brilliant, rich silvery blue foliage. Perfectly hardy under all conditions. More in demand at the present time than any other conifer. The stock we offer is the "Compacta" type, which is far more regular, compact and dense than the ordinary Colorado Spruce, besides being of the deepest steel-blue. Beware of seedlings offered at low prices; these are not as blue in color nor as symmetrical and regular in shape. Well-shaped trees, especially selected from our large stock. The variation in these prices is due to the great variation in the individual specimens as to color, shape, symmetry and general appearance.

Height	Each	Height	Each
2½ ft.	\$ 6.00 to \$ 8.00	7 ft.	\$27.50 to \$30.00
3 ft.	8.00 to 10.00	8 ft.	32.50 to 35.00
3½ ft.	10.00 to 15.00	10 ft.	45.00 to 50.00
5 ft.	17.50 to 20.00	12 ft.	50.00 to 60.00
6 ft.	22.50 to 25.00		

For Larger Specimens, Write for Prices.

Pungens Glauca (Colorado Spruce). This excellent native Spruce can be supplied in two colors—slate-blue and green. Height, 12 to 18 in., blue, **\$3.50 to \$4.00**; 12 to 18 in., green, **\$2.50 to \$3.00**; 18 to 24 in., **\$3.00 to \$3.50**.

PINUS (Pines)

Mugho. (Dwarf Pine). A low growing handsome evergreen with vividly colored leaves of a twisty nature and cones of a brown, grayish tinge. Extra fine. 12 by 18 in., **\$3.50**; 18 by 18 in., **\$4.00**; 18 by 24 in., **\$4.50**.

Strobus. (White Pine). A very beautiful and graceful pine, regular in form with dark green foliage, growing quite tall, surmounted by a symmetrically-formed crown. 2 to 3 ft., **\$2.50 to \$3.00**; 5 to 6 ft., **\$5.00 to \$7.00**.

TAXUS (Yew)

Cuspidata. Of dwarf spreading growth, light green foliage. Very hardy. 4 ft., **\$7.00**; 4½ ft., **\$8.50**; 5 ft., **\$10.00**.

Cuspidata Brevifolia. A form of the above with short, dark green leaves. A very handsome, hardy variety. Rare. 12 to 15 in., **\$4.00**.

THUYA (Arborvitae)

Occidentalis. (American Arborvitae). A very pretty shapely tree of pyramidal form. The foliage is a fresh vivid green, mellowing to a softer shade on the under side. 18 to 24 in., **\$1.50**; 10 for **\$12.50**; 2 to 3 ft., **\$2.00 to \$2.50**; 3 to 4 ft., **\$3.00 to \$4.50**; 5 ft., **\$6.50**.

Occidentalis Globosa. A round compact form, deep green foliage. Very shapely as specimens. 18 by 18 in., **\$4.50**; 24 by 24 in., **\$6.50**.

Occidentalis Rosenthalii. Hardy compact grower with dense foliage of dark green. 2 to 3 ft., **\$3.50 to \$4.50**.

Occidentalis Wareana. The hardest of American Arborvitae, although of somewhat slower growth; it has most beautiful dense and symmetrical form with a rich dark green foliage. 12 to 18 in., **\$2.50 to \$3.00**; 18 to 24 in., **\$3.00 to \$4.00**; 2 to 3 ft., bushy, **\$6.00 to \$7.00**.

THUYOPSIS

Standishii. (Japanese Arborvitae). A beautiful and attractive species with horizontal branches and bright green foliage. 3 to 4 ft., **\$3.50 to \$4.00**; 4½ ft., **\$5.00**; 5 ft., **\$6.50**.



We have KOSTER'S BLUE SPRUCE in all sizes from 2 to 12 ft. high.



JUNIPERUS PFITZERIANA

A Graceful Specimen for Lawn or Mixed Border

ABIES (Firs)

Brachyphylla. (Nikko Fir) A fine hardy fir, of open habit and rapid growth. Fine for groups or specimens on lawns, etc. 5 to 6 ft. Specimens, **\$8.00**.

Douglasii. (Douglas Fir). A fine rapid growing fir, for extensive planting, windbreaks, etc. or as individual specimens. 3 to 4 ft., **\$4.00 to \$5.00**; 4 to 5 ft., **\$5.00 to \$7.00**.

JUNIPERS

Japonica. Foliage beautiful glaucous green, regularly interspersed with branches of a pure white. A distinct, rare and beautiful variety. 2 ft. by 2 ft., **\$4.00 to \$5.00**.

Pfitzeriana. One of the best Junipers. Makes rapid growth. Boughs are of a thick, rich green, and inclined to droop, making it one of the most desirable as a specimen plant or excellent for rock gardens, where perpetual green is desired. It attains a height of about 12 ft.

24x24 in., **\$4.50**; 30x30 in., **\$6.50**; 6 ft. by 5 ft. Specimens, **\$30.00 to \$35.00**; 6 by 8 ft. Specimens, **\$40.00 to \$50.00**.

Sabina. (Savin Juniper). A dwarf spreading evergreen, with trailing branches suitable for rock work. 12 by 18-in., **\$2.50 to \$3.50**; 3½ by 6 ft., **\$15.00 to \$20.00**.

Virginiana (Red Cedar). A rapid, erect grower, with bright rich green foliage. 2 to 3 ft., **\$3.00 to \$3.50**; 3 to 4 ft., **\$3.50 to \$4.00**; 4 to 5 ft., **\$5.00 to \$6.50**.

Virginiana Elegantissima. A distinct and beautiful variety of the Red Cedar, with golden bronze foliage; particularly attractive in winter, when the golden bronze of the young growth is contrasted with the dark green of the older. 4 to 4½ ft., **\$10.00 to \$12.00**; 5 ft., **\$15.00**.

Virginiana Glauca. (Blue Virginia Cedar). A vigorous growing variety, with foliage of silvery tinge, compact and conical in form. Makes a fine tree. 3 to 4 ft., **\$5.50 to \$8.00**; 5 ft., **\$12.00**.

Virginiana Schottii. Best of all the upright green Junipers; fine pyramidal form with foliage of a peculiar bright green. 2 to 2½ ft., **\$3.50 to \$4.00**;

LARIX (Larch)

Europaea. (Common European Larch). A hardy deciduous conifer, of rapid growth, with fine needle-like leaves. A valuable timber tree, and fine for mixed plantations. 4 to 5 ft., **\$3.00 to \$4.50**; 5 to 6 ft., **\$4.50 to \$6.00**; 6 to 7 ft., **\$6.00 to \$8.00**.

PLANTING NURSERY STOCK

When you receive the bundle from the nursery, if you are not ready to plant, open it up, soak the roots well, and then open a trench about 8 or 9 inches deep and heel in the roots. **Don't** put them in the basement near the boiler, and **don't** leave them lying around with the roots exposed to the air or wind. Dig the hole large enough to take all the roots without crowding. See that any injured roots are cut off cleanly. Put the best soil around the roots, tamp well, and don't make the mistake of placing fertilizer directly upon them. Manure, however, may be placed on top of the ground as a mulch. The mistake is frequently made of mulching too heavily, thereby shutting off the supply of air, causing suffocation. Too much is worse than none. Shrubs, trees and fruit trees should be mulched every fall, and this turned in with a fork in the spring. Heavy mulching in the spring excludes the first warm rays of the sun, which are so essential to the growth of young surface rootlets, the feeders for flower and fruit production.

Soil. For all planting, the earth should be in good tilth, especially where small plants are to be set. A good rule to follow is: "The smaller the plant the finer the soil." Good preparation is half the battle. If manure is to be had, and it is possible, spade in a liberal quantity the fall before setting. Remove all quack and other roots. Good drainage is desirable, and can usually be secured by digging to a depth of about three feet and filling in the bottom with coarse stones. Where very wet, drain with land tile. If the soil is sour or acid, dress with slacked lime, two handfuls to the square yard, and dig in with a fork.

Time to Plant. This depends on the appearance and disappearance of frost. Spring planting should be done as soon as you can get a spade into the ground to its full depth, after frost; fall planting may be commenced about the middle of October and continued until frost.

Vaughan's Fruit Trees

We shall be glad to prune fruit and other trees for planting if requested. In that case, however, our customers cannot expect to receive trees that answer our specifications as to height, for the catalogue prices are for trees unpruned.

Certificate of inspection, showing freedom of our stock from San Jose and other injurious insects, etc., will be attached to all shipments.

APPLES

We offer the following selected varieties in the 4 to 5-ft. size. Each, \$1.20; 3 for \$3.30; 10 for \$10.00.

Varieties marked (*) can be supplied in 5 to 6-ft. sizes. Extra strong. Each, \$1.70; 3 for \$4.80; 10 for \$15.00.

Autumn Strawberry. Red stripes, very white flesh. Bears young.

Baldwin. Large, roundish; deep bright red; juicy, crisp, sub-acid, good flavor very productive of fair, handsome fruit. One of the most popular commercial varieties in northern states. Dec. to March.

***Banana.** Large, clear yellow, fine quality.

***Ben Davis.** Large, handsome, striped, productive; a late keeper. Tree remarkably healthy and vigorous. A profitable, market sort. Dec. to March.

***Black Ben Davis.** Stronger, hardier, and a better drought resister than Ben Davis; fruit large, solid, deep dark-red.

***Delicious.** Fruit large, nearly covered with brilliant dark-red, flesh fine-grained, crisp, melting; very highest quality. Splendid keeper and shipper.

***Duchess of Oldenburg.** Tree a strong grower, young and abundant bearer. Fruit large, yellow streaked red, rich sub-acid flavor, juicy and good. Valuable in all sections for both market and home use. Early Sept.

***Early Harvest.** Medium to large; pale yellow; tender, with a mild, fine flavor. An erect grower and a good bearer; excellent for orchard and garden; one of the first to ripen. Middle to end of August.

***Fameuse.** (Snow Apple.) Medium size; deep crimson; flesh snowy white, tender, melting and delicious; one of the finest dessert fruits, and valuable for market; succeeds particularly well in the North. November to January.

Grimes' Golden. Greatly prized as a hardy variety, producing annual crops. Medium, roundish oblate; rich golden-yellow, with small dots; flesh yellow, juicy, tender, crisp, rich, slightly sub-acid, with a fine aroma. Dec. to Feb.

***Jonathan.** Medium, pale yellow, nearly covered with brilliant stripes of lively red; flesh white, juicy, spicy, sub-acid, fine grained, rich.

McIntosh Red. Large; skin yellow, nearly covered with bright red; flesh white, tender and juicy. A popular bright red apple largely grown in the North where hardiness is required. Nov. to Feb.

***Northern Spy.** Large, somewhat ribbed. Flesh white and tender, with a mild sub-acid, rich and delicious flavor.

***Northwestern Greening.** Yellow, smooth, rich, of good size, resembling Grimes' Golden in shape and color; good quality and an extra long keeper. Tree hardy, vigorous, abundant annual bearer.

***Red Astrachan.** Large, beautiful deep crimson, overspread with a thick bloom; juicy, rich, acid, productive. One of the best summer apples. August.

***Rome Beauty.** (Late Winter.) A large, bright red apple that is tender fleshed, juicy, good quality and an A-1 cooker. Bears young, blooms late, fruit hangs firmly and can always be depended upon for a full crop.

Spitzenburg. Large, oblong and tapering; skin smooth, bright red, with numerous russet dots; flesh yellow, crisp, juicy, with a brisk, rich flavor.

Wagener. (Red Winter Apple.) Wagener is one of the most beautiful winter apples ever grown. It is of the highest quality, the flesh being crisp, tender and aromatic. We know of no apple possessing greater beauty or of finer quality. It succeeds well East and West. Dec. to May.

Wealthy. The best, handsomest, most satisfactory fall apple. Largely planted throughout the United States. It is large and uniform in size, a brilliant red all over marked with stripes and splashes of deeper red. The tree grows large and symmetrical, is an enormous bearer and is hardy and thrifty. Wealthy trees bear extremely young and none more profitable earlier in life.

***Winesap.** Large, deep red, a good keeper; quality medium, a moderate grower and good bearer. Succeeds well in the west. Dec. to May.

***Yellow Transparent.** One of the most desirable early apples in cultivation. Early bearer, frequently producing fine fruit on 2-year trees in nursery rows. Good grower and hardy, fruit pale yellow, good size and good quality; skin clear, white at first, becoming a beautiful pale yellow. July and August.

CRAB APPLES

Prices same as Standard Apples

Any of the following: 4 to 5 ft. and 5 to 6 ft. trees.

The Crab Apple has many points of excellence. It makes a fine ornamental tree, perfectly hardy, and will grow in any kind of soil. It bears very early and every year. Unequaled for jelly and for vinegar; can be dried or preserved.

***Hyslop.** The fruit is covered with brilliant carmine to dark purplish red, overspread with a thick blue bloom. It is roundish, uniform shape; large size for a crab. Good for jellies and cooking purposes.

***Siberian.** Sour and acid; excellent for jelly; a good grower.

***Transcendent.** An old variety, well known for its bright red color, good size, and juicy, crisp yellow, sub-acid flesh; roundish oblong shape. Very good for culinary uses.

***Whitney.** One of the largest, glossy green splashed carmine.

CHERRIES

Any of the following (except where noted): 4 to 5-ft. trees. Each, \$1.50.

DYHOUSE. Largely planted for early market, ripening a week before Early Richmond. Early annual bearer, productive, fine size, good quality. Acid. June.

EARLY RICHMOND. Medium size, dark red; melting, juicy, sprightly acid flavor. This is one of the most valuable and popular of the acid cherries for cooking purposes and production. June.

ENGLISH MORELLO. Rich, dark red fruit. Extra large.

MONTMORENCY. A popular market variety; good for all purposes. Vigorous grower, very productive. Fruit large, light red; ten days later than Early Richmond. Late June.

EARLY RICHMOND. (Grafted on Morelo.) This is the best type of Early Richmond for the vicinity of Chicago, producing fruit much earlier than trees grafted on Mahaleb, etc. 4 to 5 ft., each, \$2.00.

DWARF APPLE AND PEAR TREES

The Dwarf Apple and Pear Trees come into bearing much earlier than the Standard Trees. Their low, broad heads are within reach so that the fruit can be easily picked. These trees take up so little room that they can be planted in the garden, or even on the lawn, and with care will bear good crops within three or four years. The fruit is of extra high quality. Dwarf Trees are secured by propagating Apples on Paradise stock; Pears on Quince. We have the following list to offer:

DWARF APPLES. 3 to 4 ft. Each, \$1.50.
Delicious, Duchess of Oldenburg, Snow Fameuse, Wagener, Yellow Transparent.

DWARF PEARS. 3 to 4 ft. Each, \$1.50.
Bartlett, Clapp's Favorite, Duchess, Seckel.

PEARS

Price (except where noted), 4 to 5 ft. Each, \$1.50; 3 for \$4.20; 10 for \$13.50.

The soil best adapted for Pear culture is of rich and heavy quality. The fruit of summer and autumn varieties should be picked as soon as it has attained full size, when, if ripened in dark, dry closets, it is not subject to rotting at the core, and develops its best flavor. Pick winter sorts as soon as the weather indicates the liability of hard frost. Spraying is desirable at the blooming season, but leaf-blight can be treated by cutting away the diseased limbs entirely. Thinning increases size and quality of remaining crop.

BARTLETT. The most popular summer pear; large fruit of musky melting flavor. The tree is a vigorous grower, an early and abundant bearer. August and September.

CLAPP'S FAVORITE. Resembles the Bartlett, ripening a few days earlier, hardy and vigorous either on the pear or quince. Care should be taken to pick the fruit at least ten days before ripe.

DUCHESS. Grafted on Quince, on which it does best. A fall pear, large fruit, rich and juicy. A popular market variety.

FLEMISH BEAUTY. Large, juicy, rich, one of the hardiest. September and October.

KIEFFER. Good for preserving and canning; extra large; good bearer. October. 6 to 7 ft., \$2.00.

KOONCE. Thoroughly tested for several years. Has produced good crops when all other varieties were killed by frost. Fruit medium to large, yellow with carmine cheek; quality good; ripens in time for the earliest market. July and August 7 to 8 ft., \$2.25.

SECKEL. Small, yellowish brown, red cheek; best to eat out of hand, or pickle.

PLUMS

ABUNDANCE. This is the plum for you, if you try but one. Lemon yellow ground, nearly overspread with cherry; flesh yellow. August. 4 to 5 ft., each, \$1.50.

BURBANK. The best and most profitable among growers for market. Tree hardy, sprawling, vigorous grower, unequalled in productiveness; fruit large, excellent quality, cherry-red with lilac bloom. August. 4 to 5 ft., each, \$1.50.

Okata. A Hansen seedling. Very early and productive. Fruit of medium size, dark red skin, green flesh, quality good. \$2.00.

Sapa. One of Prof. Hansen's seedlings. Skin dark purple; flesh, dark purple red. An early bearer. \$2.00.

WANETA. One of the latest of Prof. Hansen's hybrids, being a cross of the Terry and Japanese apple plum. It bears the largest fruit of any of the hybrids, one specimen plum being 2 inches in diameter. The fruit is red, thin skinned, and has a sweet and delicious flavor. 4 to 5 ft., \$2.00.

QUINCE

Meech. A vigorous grower and immensely productive. This fruit is large, lively orange yellow, of great beauty and delightful fragrance. Its cooking qualities are unsurpassed. 4 to 5 ft., each, \$1.50.

Orange. Large, bright yellow, fruit of excellent flavor. 4 to 5 ft., each, \$1.50.

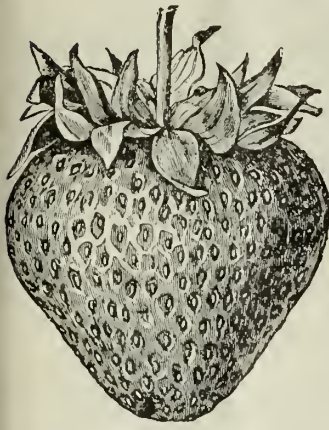
PEACHES

Plant in spring.

A leaflet on PLANTING, MANURING and PRUNING fruit trees will be sent free to all applicants.

STRAWBERRIES—Pot Grown

Price of the following, except where noted, per doz., 75c;
50 for \$2.75; 100 for \$5.00, by Express:



SENATOR DUNLAP

AROMA. (Per.) Late. One of the most popular late varieties. Fruit large to very large; holds its size well throughout all the pickings. Berry is roundish, conical, smooth and perfect in form and of a beautiful bright glossy red in color; very firm and of high quality. Its rich aromatic flavor has suggested its name. The habit of spreading which this variety possesses opens the way for the sunlight to reach the crown. The leaves are broad, clean and smooth and of a dark green color.

CHARLES I. (Per.) Early. This variety has proven itself one of the very best early berries, yielding more quarts of fine, large berries than any other early variety. It is more widely grown than any other early variety and has given satisfaction wherever grown. The berries are extra large, regular in form, a good color and quality. Plants are medium in size, vigorous, healthy, and a good plant maker.

GIBSON. (Per.) Medium early. Berries are large and regular in shape, holding their size well to the end of the season. Color rich red. Flavor is neither sweet nor sour, but just right for canning. Extremely productive, in fact we know of no variety that will produce more quarts of berries per acre than the Gibson. It makes a strong vigorous plant that withstands adverse conditions admirably. This variety seems to embody every requirement necessary for a profitable berry. We recommend it and know you will not make any mistake in planting Gibson.

BIG JOE. (Per.) Late. Fruit large roundish, conical, even in size and shape and holds its size well until the last picking. Dark glossy red, firm and of excellent quality, adapted to practically all conditions of soil and climate. A splendid producer. A good pollinizer for the late imperfect blossoming varieties. Also known as the Joe Johnson.



POT-GROWN STRAWBERRY PLANT

KELLOGG'S PREMIER. (Per.) Early. Berries are large, beautifully formed, red through and through; flavor delicious. A splendid shipper. The deep, heavy rooting system makes the plant a strong drought resister, and it is especially adapted to any soil or climate, giving you a big crop of fancy berries which will sell at highest prices. When extra fancy early fruit is wanted, we advise this.

SENATOR DUNLAP. (Mid-Season). One of the best and most popular. It succeeds everywhere and with everybody, with the new beginner as well as with the veteran grower, but should not be allowed to matt too thickly. The fruit is dark red with a glossy finish shading to a deep scarlet on the underside. The meat is bright red all through and is exceedingly juicy. For a medium sized, productive, early to mid-season berry, you need to plant it.

EVERBEARING. Everbearing Strawberries are no longer an experiment. They are a success, becoming essential all over the country, and are making good

every place where they have been tested. For best results the blossoms should be kept picked off until the middle of July. This will assure a good crop for fall. The variety we list is the best of all the Everbearing varieties, being a strong grower and heavy yielder.

PROGRESSIVE. You can have Strawberries just as easily in the Fall as in the Spring by planting the Progressive, which is the best of all the Fall or ever-bearing Strawberries. This is the strongest growing plant of all the Fall-bearing varieties we have tried. The plants are very large and heavily rooted, producing a phenomenal crop of medium to large fruits of a dark red color, both inside and out, and of sweet mild flavor. Think of having all the berries you can use on your table during the months of September, October and November, and later, if not killed by freezing weather.

Price, per doz., 85c; 50 for \$3.50; 100 for \$6.00, by Express.

VAUGHAN'S SMALL FRUITS

BLACKBERRIES

Price, each, 25c; 3 for 65c; 10 for \$1.50; per 100, \$7.50.

If to go by mail, add 10c per doz. or 60c per 100 for postage and packing.

ANCIENT BRITON. Large berries of excellent quality, very prolific. Vigorous, healthy, and one of the hardiest of all.

BLOWERS. A new large blackberry, very hardy and productive.

ELDORADO. The vines are very vigorous and hardy, enduring the winters of the far northwest without injury, and their yield is enormous. Berries large, jet black. Large elusters.

HIMALAYA GIANT. New. Vigorous grower; canes sometimes reaching 30 to 40 feet; must be trained on a trellis. Fruit large, black, has yielded as much as 400 crates per acre.

SNYDER. Extremely hardy, enormously productive, medium size; no hard, sour core; sweet and juicy; ripens early.

CURRENTS AND GOOSEBERRIES

These can only be shipped to points in Illinois on account of restrictions of the Dept. of Agriculture. We shall be pleased to send list of varieties and prices on application.

GRAPES

Price, (except where noted) 2-year, each 50c; 3 for \$1.35; 10 for \$4.00; 3-year, each 65c; 3 for \$1.80; 10 for \$5.50.

If to go by mail, add 10c each or 50c per 10 for postage and extra packing expense.

AGAWAN. (Red or Maroon.) Bunch usually loose shouldered; berries large; skin thick, flesh pulpy, meaty, juicy, of a rich aromatic flavor; ripens about with Concord; a good keeper.

BRIGHTON. (Dark Red.) Bunches large, berries medium size, skin thin, flesh tender, quality the best. Must be grown with other sorts, as it does not pollinize itself. One of the best early red grapes.

CAMPBELL'S EARLY—King of American Grapes. (Black.) A grape in all respects better adapted to general use in all sections than any other which has yet been grown and tested. Large, nearly round, often an inch or more in diameter; black, with light, purple bloom; skin thick; flavor rich and sweet. Price, 2-year-old vines, each 75c; 3 for \$2.10; 10 for \$6.50. Can only supply 2-year-old vines.

CATAWBA. (Red.) Bunches large and loose; berries large, of coppery red color, becoming purplish when well ripened.

CONCORD. One of the most popular and reliable varieties grown.

DELAWARE. (Red.) Bunches small, compact, shouldered; berries small, round; skin thin; flesh very juicy and very sweet. Early and abundant bearer.

DIAMOND. The leading early white grape. Bunch medium, berry large, white with rich yellow tinge; juicy, almost free from pulp.

GRAPES—Continued

MOORE'S EARLY. (Black.) Bunch medium; berry large, round, with a heavy blue bloom; vine hardy and moderately prolific. Large size and early.

NIAGARA. (White.) Vine hardy; unusually strong grower.

WORDEN. A seedling of the Concord. Bunch large, compact, handsome; berries large—larger than those of the Concord. It ripens a few days earlier and is superior to it in flavor. Very popular for the vineyard and garden.

RASPBERRIES

Price, (except where noted,) each, 20c; 3 for 50c; 10 for \$1.20; per 100, \$6.00.

If to go by mail, add 10c per doz., 50c per 100 for postage and packing.

COLOSSAL. Truly colossal fruit; dark red berries, sub-acid flavor.

COLUMBIAN. (Red.) Valuable and profitable. The fruit is cone-shaped, almost purplish color. Fruiting season extends from July 10th to August 15th.

CUMBERLAND. (Black.) Very hardy and productive; remarkably free from disease.

CUTHBERT. Deep crimson, firm. A strong, hardy and productive variety.

GREGG. (Black.) Large heavy bearer.

GOLDEN QUEEN. Large, beautiful clear amber yellow.

THE HERBERT RASPBERRY. (Red.) A very strong grower, hardy and very productive. Fruit large to very large; conical, bright to rather deep red; moderately firm; sweet and sub-acid, juicy and of good flavor. The best Red Raspberry today. Price, each, 30c; 3 for 70c; 10 for \$2.00; per 100, \$12.00.

KANSAS. The best of all black caps, berries as large or larger than the Gregg; jet black, firm, handsome and of the best quality.

LOUDON. It is almost ever-bearing; fine deep red fruit; large and prolific.

NEW EVER-BEARING RASPBERRY

ST. REGIS. Gives raspberries for four months the first year planted. The berries are large and of very fine quality, rich and sugary, and keep longer after picking than any other red raspberry. They are of a bright crimson color, and firm, meaty substance. It is the earliest of all red raspberries, commencing to ripen in June, and bears a tremendous crop on the first canes, while the young canes continue to bear fruit in increasing numbers until frost sets in. Awarded the highest certificate of merit by the American Institute of New York. Price, each, 25c; 3 for 65c; 10 for \$1.50; per 100, \$7.50.

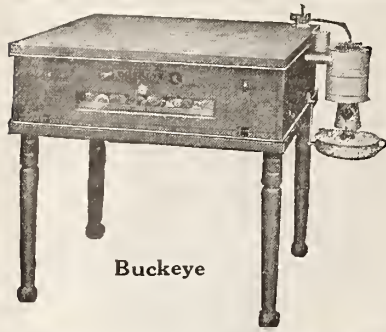
RHUBARB

VAUGHAN'S MAMMOTH RHUBARB ROOTS

2-year and 3-year by mail, 5c per root extra.

1-year, each, 20c; 3 for 45c; 10 for \$1.30. 2-year, each, 30c; 3 for 75c; 10 for \$2.25. 3-year, each, 50c; 3 for \$1.35; 10 for \$4.00.

VAUGHAN'S POULTRY DEPARTMENT



Buckeye

Monthly Price List on Feeds Free on Application

KING PIGEON FEED

is made from the very choicest, plumpest Corn, Wheat, Buckwheat, Kaffir Corn, Peas, Millet and Hemp (without grit). It is a very choice feed for those desiring a feed containing corn.

Price on Monthly Order Blank.

GLOBE PIGEON FEED

is, without doubt, the best and most popular pigeon feed on the market. It is a no corn, no grit feed, made from Wheat, Buckwheat, Kaffir, Peas, Millet and Hemp. This feed is used by some of the best known pigeon raisers in America. A trial will convince you. Get our folder on GLOBE PIGEON FEEDS. It tells you all about them.

Price on Monthly Order Blank. Mailed Free.



Peerless Fountain with Heater

PEERLESS FOUNTAIN AND HEATER

This may be used either with or without the heater attached. With its use there is always at hand a supply of pure water for your flock. Easy to clean. Fowls cannot injure their combs when drinking.

The Combination Peerless Fountain and Heater when in use should be hung to the wall either by back strap or bail, which makes it absolutely safe.

- Price, fountain only, 5-quart size.....\$1.00
- Price, fountain only, 10-quart size..... 1.35
- Price, heater for above..... 2.00

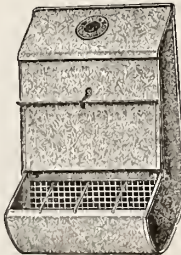
VAUGHAN'S FOUNTAIN

This fountain is made of heavy galvanized tin which will not rust and is so constructed that it can be placed on the floor or hung on the wall. The bottom is fastened by hinges on the back of the fountain and closed up at the front by a spring in the center. In front is an arch to keep dust and dirt from entering the water. Price, half-gallon size...\$1.00. 1-gallon size...\$1.25. 2-gallon size...\$1.50

MOES' DRY MASH HOPPER

The curved bottom of the hopper keeps the feed within easy reach of the birds. The gradual enlargement from the top to base prevents clogging. The wire grid and the wires running from the flange through the wire grid prevents any chance of the fowls throwing out or wasting the feed. The sloping cover prevents the birds from roosting on the hopper, and when both covers are closed, it is rat and mouse-proof. A trial will convince you that it is a hopper of the greatest merit. Manufactured of heavy galvanized iron in three sizes.

- No. 35, 8½ in. wide. Each.....\$1.70
- No. 36, 12 in. wide. Each..... 2.25
- No. 37, 24 in. wide. Each..... 3.00



STEVENS' "EVERGREEN" OAT SPROUTER

ALL METAL, LAMPLESS, INEXPENSIVE

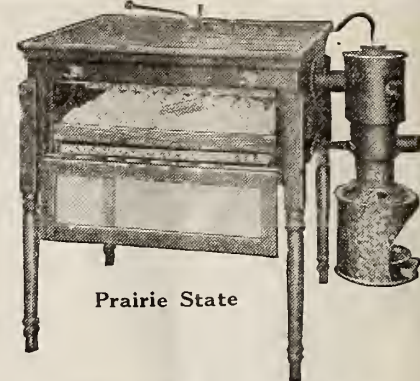
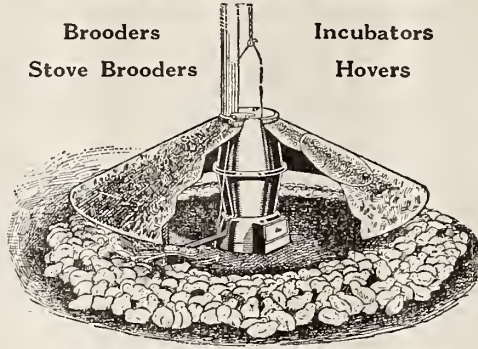
The pans are all galvanized iron and perforated, with the exception of the bottom or drip pan which catches surplus water. Any pan is removable for emptying or refilling without disturbing the others.

The stand is constructed in such a way that it may be put together or taken apart in two minutes, by simply removing cross rods; this makes it very convenient for shipping or storage when not in use. It is made of band iron with rods running under each pan riveted in, making it very rigid.

- | | | | |
|------------------------------|-----------------|------------------------------|-----------------|
| | Ship. Wt. Price | 4 SIZES | Ship. Wt. Price |
| 8 Pan, 11x15 in., med. size | 18 lbs \$ 6.85 | 5 Pan, 11x15 in., small size | 13 lbs. \$5.00 |
| 8 Pan, 11x33 in., large size | 35 lbs 10.50 | 5 Pan, 11x33 in., med. large | 25 lbs. 7.50 |

BUCKEYE AND PRAIRIE STATE

Brooders
Stove Brooders
Incubators
Hovers



Prairie State

Globe Egg Mash

A high grade 20 per cent protein, ground grain feed. A great egg producer.



Globe Scratch Feed

A mixture of clean, sound sweet grains, to supplement Globe Egg Mash.

Globe Chick Mash

with dried buttermilk insures health and promotes rapid growth of baby chicks.

Ask for "Globe" Feeding Plan.

Monthly order blank and price list mailed free on request.

Conkey's Feeds and Remedies

- Conkey's Lice Powder. It is an effective disinfectant. Price, 15 oz., 30c; 48 oz., 60c.
- Conkey's Poultry Tonic. A general invigorator. Price, 32c, 63c and \$1.25.
- Conkey's Roup Cure. Price, pkg., 32c and 63c.
- Conkey's Scaly Legs. Price, per can, 32c and 63c.
- Poultry Worm Remedy. Price, can, 32c and 63c.

Pratt's Poultry Remedies

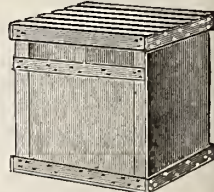
- Pratt's Roup Cure. Package, 32c, 63c, and \$1.25.
- Pratt's Roup Pills. Package, 32c and 63c.
- Pratt's Scaly Leg Remedy. Package, 32c.
- Pratt's Bronchitis Remedy. Package, 32c.
- Pratt's Chicken Pox Remedy. Box, 32c and 63c.
- Pratt's Cholera Remedy, per box, 32c and 63c.
- Pratt's Condition Tablets. Package, 32c.
- Pratt's Lice Killer, 1 lb can, 30c; 2½ lbs, 60c.

Above Prices Include War Tax.

ALL-WOOD SHIPPING COOPS

Considered one of the best on the market. A closed coop made of light lumber having a two-inch opening in front and back under slatted top so as to give fowls plenty of fresh air when shipping them. Birds shipped in this coop are in no danger of smothering, free from heat of steam pipes, drafts on depot platforms, and arrive at destination without having their plumage harmed. Made in the following sizes:

No.	Length	Width	Height	Each	Per Doz.
1	12	18	18	\$0.60	\$6.25
2	18	18	18	.75	7.75
3	12	21	21	.75	7.75
4	18	21	21	.90	9.25
5	24	21	21	1.00	10.50
6	30	21	21	1.15	12.00



All Wood Shipping Coop

WRITE FOR COMPLETE POULTRY CATALOGUE

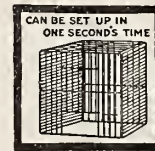
EXHIBITION COOPS

Birds do not show their good points in a poorly constructed coop. Manufactured of the best grade of galvanized steel wire and sheet metal, electrically welded.

No. 56, all wire coop, 24x24x27 inches high..... \$2.00

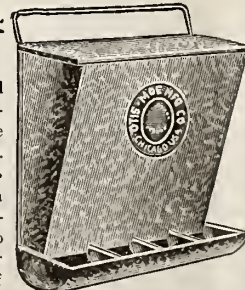
CAGE CUPS FOR EXHIBITION COOPS

Galvanized cups used for feed or water, provided with wire hooks to hang on sides. Each.....18c. Per doz....\$1.80

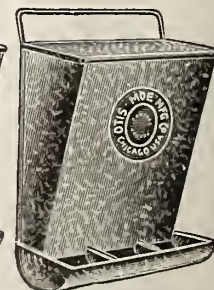


GRIT AND SHELL BOXES

Grit, shell and charcoal have now become a recognized essential part of the diet insuring healthy fowls. They cannot be more economically supplied than in one of our inexpensive compartment boxes. Can also be used as a feed hopper for little chicks. Made of heavy galvanized iron in three sizes.



No. 90—Four Compartment, Round Bottom.



No. 9—Three Compartment, Round Bottom.

- No. 9, shipping weight, 3 lbs, each.....\$1.10
- No. 90, shipping weight, 4 lbs, each..... 1.40

Complete Poultry Catalogue on Incubators and Supplies Free on Application.

For Fall
Planting

Vegetable Seeds and Roots

For Greenhouse,
Frame or Garden

Winter Onion Sets

These are used for producing green onions for early spring use. No large bulb is formed, the sets being produced on the top of the stalk. Very productive, perennial and perfectly hardy. Planted in the fall to depth of 3 to 4 inches. Pt., (½ lb.) 15c; qt., (1 lb.) 25c; pk., (7 lbs.) 75c; ½ bu., (14 lbs.) \$1.25; bu., (28 lbs.) \$2.25.

WHITE WELSH ONION. For green onions. Hardy with slight protection. Pkt. 10c; ½ oz., 15c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

Cucumber—English Frame Varieties

Rollison's Telegraph. Greenhouse, English grown. Pkt., 50c.
Vaughan's Prolific Forcing. Pkt., 25c.

GREENHOUSE AND FRAME VARIETIES

The Vaughan. (The best American Cucumber.) Darker, thinner, longer and more prolific than the old standards like Davis Perfect. Pkt. 10c; oz., 50c.

Davis' Perfect. (Vaughan's Select Stock.) Selected for length and tapering ends. Extra fine color. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.75. Stock seed selected for forcing. Pkt., 15c; 2 pkts., 25c; ½ oz., 60c; oz., \$1.00

Radish

Improved Early Scarlet Globe. Vaughan's Selected Stock. The standard red radish for hot bed and forcing use. An unequalled strain of this most popular sort. Pkt., 10c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.50.

Giant Butter Radish. An improvement on the Crimson Giant. The largest of the early forcing radishes. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.65.

Crimson Giant. A standard, very large and early forcing radish, a fine strain. Pkt., 10c; oz., 15c; ¼ lb.; 45c; 1 lb., \$1.50.

Vaughan's 20-Day. The earliest olive-shaped Red Radish. Matures 20 days after sowing. Pkt., 10c; ¼ lb., 45c; lb., \$1.40.

Spinach

Extra Large Round Leaf, Monstrous Leaved Viroflay, and Vaughan's Norfolk Savoy. Oz., 10c; ¼ lb., 15c; 1 lb., 50c.

Tomatoes

For Under Glass. Best Re-selected Stocks.

Comet (Scarlet), Sterling Castle (Scarlet), Sunrise (Scarlet), Hubert's Marvel (round like an apple), Frogmore Selected (Scarlet), Best of All and Lorillard (Two old standards).

Above varieties, Pkt., 15c each.
Lister's Prolific (New.) Latest popular English sort. Pkt., 25c.
New Globe, Chalk's Early Jewel and Bonny Best, American forcing varieties. Pkt., 10c.

Plant
the Best

Vaughan's Grass and Farm Seeds

For Fall
Sowing

New Rosen Rye

We have been growing this new Michigan variety for several years and consider it a great advance over other sorts. From all parts of the country there are reports of yields 20 to 30 per cent heavier than the common variety. It is a four row, winter variety, introduced by the Michigan Agricultural Experiment Station. Our seed is our own growing in Michigan and certified.

Peck, 65c; bushel, \$1.75; 10-bu. lot \$16.00.
2-bu. grain bags, 35c each, extra. If shipped from New York, add 30c per bushel to these prices.

Common Rye

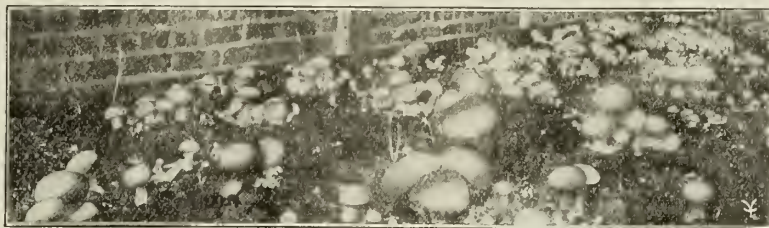
Our seed is a fine, clean, heavy yielding strain. Michigan grown. Peck, 60c; bu., \$1.60; 10-bu. lot, \$14.00.
2-bu. grain bags, 35c each, extra. If shipped from New York add 30c per bushel to these prices.

WINTER VETCH (Also Called Hairy or Sand Vetch)

Should be sown early in fall. The best winter cover crop, especially fine for orchards. 10 lbs., \$1.60; bu., \$7.75; 100 lbs., \$12.00. Grain bags, 35c each, extra.



Harvesting Rosen Rye on our Michigan Farm.



MUSHROOMS GROWING IN A BASEMENT.

Mushroom Spawn

(LAMBERT'S SPORE CULTURE)

Thousands of people are successfully raising delicious mushrooms in their basements, cellars and outbuildings. Write for free leaflet on culture. This vegetable is produced by planting Spawn. Our Spawn is always fresh; monthly shipments are received from our manufacturers.

The following strains produce fairly true to type:
No. 7. Brown. (Bohemia.) Very hardy and a good producer.
No. 8. Cream Columbia. Mammoth Strain. Hardy and prolific.
No. 9. White Alaska. Mammoth Strain. A most popular sort with growers for the market.

Price—New Spore Culture. The latest process of manufacture. A much harder and more prolific spawn than any yet produced. Price, Lambert's spore culture brick, (weight 1½ lb.) 35c; 2 for 65c; 5 bricks, \$1.50; 10 bricks, \$2.75; 100 bricks, \$20.00. Not prepaid.

Direct Bricks. Standard process—brick (weight 1½ lb.), 30c; 5 bricks, \$1.40; 10 bricks, \$2.50; 100 bricks, \$18.00. Not prepaid. Special prices in case lots.

ENGLISH SPAWN. A very superior strain to the old English Milltrack Spawn. We are one of the largest handlers in the United States; fresh importations every few weeks (weight per brick 1½ lb.). Price, brick, 25c; 2 bricks, 40c; 8 bricks, \$1.40; 25 lbs., \$3.25; 100 lbs., \$12.00; if shipped from New York, \$7.00. Special prices on half ton lots and up.

Lettuce

GRAND RAPIDS FORCING. Vaughan's Selected Stock For Greenhouse Use. This grand forcing variety is the hardiest of all sorts for greenhouse use and is planted now to the exclusion of almost all other sorts for its purpose. Our strain cannot be surpassed in quality. Bred from single plant selections. Vaughan's Extra Selected Stock. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; 1 lb., \$1.50.

Standard Stock. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 30c; 1 lb., \$1.00.
BLACK-SEEDED SIMPSON. Forms large, loose leaves of ideal color. A good variety for use under glass and best for early outdoor planting. Vaughan's Select Stock. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.50.

RED ROCK WHEAT (New)

Certified seed, our own growing in Michigan. An extra hardy red bearded sort, recently introduced by the Michigan Agricultural Station. A heavy yielder and in Michigan has proven even less liable to winter kill than Turkey Red.

Peck, 85c; bu., \$2.50; 10 bu., \$22.50.
2-bu. grain bags, 35c each, extra. If shipped from New York add 30c per bushel to these prices.

TURKEY RED WHEAT

Well bearded and very heavy. The bearded wheats are by far the hardiest of the winter sorts. The heads of the Turkey Red are of good size and the plants stood out well. Carefully reselected. Prices by freight or express at purchasers expense. Peck, 85c; bu., \$2.50; 10 bu., \$22.50.

Grain bags, 35c each, extra. If to be shipped from New York add 30c per bushel to these prices.

KLONDYKE WHEAT

A bald or smooth wheat, red chaffed, with fine amber grain. Has displaced the old standard Golden Chaff, where grown in comparison.

Peck, 85c; bu., \$2.50; 10 bu., \$22.50.
2-bu. grain bags, 35c each, extra. If to be shipped from New York add 30c per bushel to these prices.

☐ CLOVERS, ALFALFA, VETCH, TIMOTHY, ETC.

Brand—The highest market quality obtainable. We maintain our own seed laboratory. Every lot tested for germination. Samples and analysis on request.

	10 lbs.	Bu.	100 lbs.
Alfalfa, Dakota Dry Land.....	\$3.50	\$24.50	\$30.00
" West. Grown Fancy.....	2.85	14.75	24.00
" Grimm or Everlasting.....	6.25	36.50	60.00
Clover, Medium Red Fancy.....	2.80	15.00	24.50
" Mammoth Red Fancy.....	2.90	15.30	25.00
" Alsike Fancy.....	2.40	13.80	22.50
" Crimson.....	1.45	7.50	12.00
" Sweet or Bokhara.....	1.69	8.40	13.00
Timothy, Fancy.....	1.00	3.60	7.50

Grain bags 35c each extra, F. O. B. Chicago. Add one dollar per hundred pounds if ordered from New York. Above prices represent values as this catalog went to press. Market is unsettled. Write for latest prices and figures on medium grades.

Hardy Climbing Vines

AMPELOPSIS VEITCHII (Boston Ivy)

The grandest hardy climbing vine in existence for covering houses, churches, schools, etc. Its glossy ivy leaves overlap each other, and its long, delicate young shoots stretch up the walls with free and rapid growth. The tendrils at nearly every point cling firmly to the smoothest surface of rock or brick.

Pot Crown. For late planting. Prices, each, \$1.00; doz., \$10.00.

Ampelopsis Engelmannii. (Engelman's Ivy.) One of the hardiest, best and quickest growing climbers for the north and northwest. Quite similar to the Virginia Creeper, but vastly superior to it, the foliage being cleaner, of greater substance and not turning yellow during the early fall, and almost perfectly free from insects. Leaves color beautifully in the fall. 2-yr., 50c. (If by mail, add 10c.)

Ampelopsis Quinquefolia. (Virginia Creeper or Woodbine.) Luxuriant in growth, with handsome foliage turning to bright crimson in the fall. Very hardy vine for covering old tree trunks, walls or fences. 2-yr., 50c; 3 yr., 65c. (If by mail, add 10c.)

CELASTRUS

Celastrus Articulatus. A very vigorous climbing shrub from Japan, adapted for running over wild and rugged arrangements. It is most attractive in autumn when covered with fruits which are a light yellow color when ripe and which split open after the manner of *Euonymus*, showing bright red seeds within. 3-yr., 85c; 4-yr., \$1.10.

Celastrus Scandens. (Climbing Bitter Sweet.) A native climbing or twining plant, with handsome large leaves; yellow flowers in May and June and clusters of ornamental orange-capsuled fruit in autumn. One of the most desirable climbers for shade. Strong 3-yr. vines, each, 85c; 4-yr., \$1.20.

CLEMATIS

JAPANESE CLEMATIS (Clematis Paniculata)

The finest small-flowered Clematis extant. A wonderfully rapid grower, quickly covering trellises, arbors, etc. The flowers are pure white, deliciously fragrant and produced with the greatest freedom. It flowers in September, when few other vines are in bloom. Easiest to grow and most popular of all the small-flowered vines.

2-year, each, \$0.75; 3 for \$2.10; doz., 7.50. (If by mail, add 5c each.)

3-year, each, \$1.00; 3 for \$2.75; doz., \$10.00. (If by mail, add 8c each.)

The large-flowered Clematises, *C. Coccinea* and *Crispa* are best planted in Spring and will be offered in our 1922 Spring Catalog; also the Honeysuckles.

WISTARIA MAGNIFICA

A strong, rapid-growing vine with light green compound foliage of an evergreen nature and purple lilac, pea-shaped flowers, borne in very dense, long, pendulous racemes in advance of the opening of the foliage.

3-yr., extra strong, 85c. (If by mail, add 10c.)



CLEMATIS PANICULATA



WISTARIA

Contents of Gardening Illustrated, Autumn, 1921

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VAUGHAN'S GARDEN TOOLS AND REQUISITES

PRICES GIVEN BELOW DO NOT INCLUDE PREPAYING OF CHARGES EXCEPT WHERE NOTED

FUMIGATORS, Eureka, galvanized. Used for burning tobacco stems in order to fumigate green-houses. No. 1, capacity 1/2 pk., \$3.00; No. 2, capacity 1 pk., \$4.35; No. 3, capacity 1/2 bu., \$5.25; No. 4, capacity 3/4 bu., \$7.00.

FERTILIZERS (F. O. B. Chicago)

See Special Price Sheet for New York Prices.

BONE MEAL, Vaughan's "Rose Grower" Brand. Has been slightly steamed so that it can be ground fine, and is thus quicker in its action. 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.35; 50 lbs., \$2.25; 100 lbs., \$3.50.

BONE MEAL, "Regular Grade." 5 lbs., 30c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.15; 100 lbs., \$3.30.

CATTLE MANURE (Shredded). A natural fertilizer for all general purposes. If applied to the lawn in the fall it protects grass roots through the winter. As easy and clean to handle as grain. Price: 100 lbs., \$2.25; 500 lbs., \$9.50; 1,000 lbs., \$16.00; 2,000 lbs., \$31.50. (Prepaid to nearest railroad station if within twenty miles of Chicago.)

NITRATE OF SODA or Chili Saltpeter. Nitrate of Soda is not a substitute for other Manures, but we recommend it as the cheapest and best form in which to apply Nitrogen to plants. Gardeners who are using farm manure should continue to use it, but use Nitrate of Soda in addition to other fertilizers. If your object is to grow maximum crops you must furnish the plant with Nitrogen. Price (subject to market changes), 5 lbs., 60c; 10 lbs., \$1.00; 25 lbs., \$2.50; 100 lbs., \$7.00. Write for prices on larger quantities.

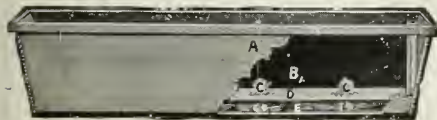
SHEEP MANURE (Pulverized). Excellent for mixing with soil for greenhouse plants; one part manure and six parts soil. 5 lbs., 30c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.00; 100 lbs., \$3.20; 500 lbs., \$11.50; 1000 lbs., \$20.00; ton, \$38.50. (25 lbs. and up prepaid to nearest railroad station if within twenty miles of Chicago.)

VAUGHAN'S CONCENTRATED PLANT FOOD. This is the most useful fertilizer for all kinds of plants raised in pots. Small pkg., 20c each. Large pkg., 30c each.

Mailing weight, small, 10 oz.; large 17 oz. Each package contains full directions.

FLOWER BOXES AND BASKETS

Splendid for growing bulbs



"Illinois" Self-Watering

Box has reservoir in bottom, which when filled with water will supply plants with moisture for ten days.

Water being conveyed direct to the roots of plants leaves soil in a loose condition, ideal for plant growth. Sold in following Shapes and Sizes.

WINDOW BOXES

8-in. deep, 9 1/2-in. wide., except No. 0, 6-in. x 6-in.			
No.	Length	Price	No. Length Price
1	23 in.	3.25	6.....33 in.....\$4.60
2	25 in.	3.50	7.....35 in..... 4.85
3	27 in.	3.85	8.....37 in..... 5.10
4	29 in.	4.10	9.....39 in..... 5.35
5	31 in.	4.35	10.....41 in..... 5.60

PORCH BOXES

9-in. deep, 12-in. wide.		8-in. deep, 12-in. wide.	
No.	Length Price	No.	Length Price
23	45 in. 6.50	25	53 in. \$7.75
24	49 in. 7.15		

HANGING BASKETS

No.	Depth Square	Price	No.	Depth Square	Price
8	6 in.	2.25	12	8 in.	\$2.95
10	7 in.	2.45	14	9 in.	3.35

GLASS CUTTER, DIAMOND. Each, \$5.00.

GLASS CUTTER, RED DEVIL. Each, 20c.

GLAZING POINTS, Vaughan's Perfection. No rights or lefts. No. 2, small, single thick glass; No. 2 1/2, double thick, for greenhouse and skylights. Price, per lb. (approximately 900), 70c, postage extra.

Siebert's Improved, 3/4 and 3/8, price per lb., 70c

HOTBED SASIL. Unglazed, for 3 rows, 10-inch glass.

Each, \$2.70; 3 for \$7.50; doz., \$28.75.

Glazed, each, \$7.30; 3 for \$21.50; doz., \$83.00.
For 8-inch glass, 4 rows each, \$3.35; 3 for \$9.75; doz., \$37.80.

Glazed, each, \$7.75; 3 for \$22.75; doz., \$86.00.

HOTBED MATS.

Burlap. Lined waste wool and cotton quilted.

Made of finest material.

Size A—40 in. x 76 in., each, \$3.25; doz., \$33.00.

Size B—76 in. x 76 in., each, \$3.75.

INSECTICIDES AND FUNGICIDES

Insecticides containing Poison cannot be sent by mail.

Weights—By mail, 1/2 pt. 1 lb.; pt. 2 lbs.; qt., 3 lbs.

APHINE. A new insecticide discovery that kills plant lice of every species. Effective indoors and outdoors. Per 1/2 pint, 40c; per pint, 65c; per quart, \$1.00; gallon, \$3.00.

BLACK LEAF 40. Highly recommended as a spray for soft-bodied sucking insects. Follow directions carefully. 1 oz., 25c; 1/2 lb., \$1.00; 2 lbs., \$3.25. (1 oz. makes from 5 to 10 gals. of spray).

WHALE OIL SOAP. An excellent wash for trees and plants where insects and eggs affect the bark; also used for smearing upon trees to prevent worms crawling up. Per lb., 30c; 5 lbs., \$1.25.

FLOWERS OF SULPHUR. For mildew on roses, etc. Lb., 12c; 10 lbs., 85c; 25 lbs., \$2.00.

LEMON OIL. Destroys mealy bug, scale, thrip, red spider, etc. 1/2 pint, 35c; pint, 60c; quart, \$1.00; 1/2 gal., \$1.75; gal., \$3.00.

LIME-SULPHUR. The best remedy for San Jose scale. One gallon makes ten; one of the best Autumn sprays. Qt. can, 50c; 1 gal., \$1.00; 5 gal. can, \$4.00.

NICO-FUME. Strips of paper strongly saturated with Nicotine. These when suspended and lighted make one of the best and simplest methods of fumigating greenhouses. Use 4 to 6 sheets for ordinary house 100 feet by 20 feet wide. Price, 24 sheets, \$1.25; 144 sheets, \$5.00; 288 sheets, \$9.50.

NICO-FUME LIQUID. For fumigating or spraying; contains 40 per cent Nicotine. 1/4 lb., 65c; 1 lb., \$2.00; 4 lbs., \$7.50; 8 lbs., \$14.50.

NICOTICIDE. Fumigating or spraying compound for killing insects on plants in greenhouses and frames. 4 oz., 75c; 1/2 pt., \$1.25; pint, \$2.25; quart, \$4.00; 1/2 gal., \$8.00; gal., \$16.00.

NIKOTEEN. Use same as Nicoticide. 1/2 pint, \$1.10; pint, \$2.00.

SULPHO TOBACCO SOAP. For greenfly on roses. 8 oz. box, 25c; by mail, 30c; 3 ozs., 15c; by mail, 18c.

TOBACCO STEMS. For fumigating.

5 lbs., 25c; 100 lbs., \$2.25.

TOBACCO DUST. One of the best remedies for green and black aphid, fleas, beetles, etc., also for insects in the ground. Lb., 15c; 5 lbs., 45c; 10 lbs., 80c; 100 lbs., \$4.75.

KNIVES, Propagating. Ivory handle.

Each, \$2.50; by mail, \$2.55.

Propagating. "The Vaughan," best of all.

Each, \$1.25; by mail, \$1.30.

Budding and Propagating. Two blades, white handle. Each, \$1.50; by mail, \$1.55.

Pruning. Stag handle, English.

Each, \$2.00; by mail, \$2.05.

Imported Pruning. \$2.00; by mail, \$2.05.

LABELS, Wooden, for Pots. Per 100 1000

4 in., painted.....\$0.30 \$1.75

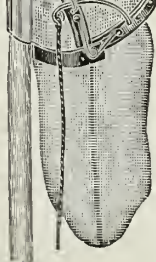
5 in., painted..... .35 2.25

Tree (wired) 3 1/2 in..... .45 3.00

Cypress.—For use outside, will last for years.

16x1 1/2 in. Doz., 60c; 100 for \$4.00; 18x2 in.

Doz., 75c., 100, \$5.00.



MASTER FRUIT PICKER

No Broken Limbs

(on trees or men)

From Picking Fruit

Mechanical Apple and Fruit

Picker

So simple children can pick fruit

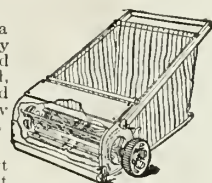
with no danger

For 18 months this picker has been successfully used in Northern Illinois. Now being offered to the Fruit Growers of United States, Canada and England.

Price \$1.50. Parcel Post Paid.

LAWN SWEEPER

The Gem. Will clean a lawn more thoroughly than four men with hand rakes. Made of metal, wood and canvas, and lighter and less noisy than all metal. 24 in. cut. Each, \$33.00.



LEAF CART. A hand cart frame with a very light wood rack. Complete with truck. \$21.00.

LEAF MOLD. Peck 40c; Sack Bushel \$1.25.

PEAT. For potting Orchids, etc... Per bbl., \$3.00

Peat. For potting Azaleas..... Per bbl., 3.00

TUBS—(Flower) Richmond.

These are made of best seasoned White Virginia Cedar, securely bound with welded wire hoops. They are nicely painted green, paint of best oils.

Prices F. O. B. Chicago or New York.

No.	Each	Four	No.	Each	Four
1 6x 6	\$0.75	\$2.80	9 14x13	\$2.25	\$8.60
3 8x 8	.85	3.20	11 16x15	2.75	10.60
5 10x 9	1.15	4.40	13 18x17	3.50	13.60
7 12x11	1.60	6.20	14 19x18	4.25	16.40

If handles are required add 35c per tub.

The first numeral is diam. at top; the second is depth.

PUTTY (Twemlow's Old English). Semi-liquid.

To be used in same manner as Mastica.

Price, per gal., \$3.25.

PUTTY BULB (Scollay's). A useful tool with a tube for applying liquid putty in glazing green-houses. Each, \$1.50. Mailing weight, 1 lb.

POTS, PANS AND SAUCERS

RED CLAY POTS.—We pack these carefully, but will not be responsible for breakages.

Doz.	100	1000	Doz.	100	
2 in.	\$0.25	\$1.30	\$10.25	6 in. \$1.10	\$7.50
2 1/2 in. . . . .	.30	1.50	11.00	7 in. 1.75	12.25
3 in. . . . .	.40	2.00	17.00	8 in. 2.35	17.00
4 in. . . . .	.50	3.00	.....	10 in., each,	45c.
5 in. . . . .	.75	5.25	.....	12 in., each,	80c.

BULB OR FERN PANS (RED)

Each	Doz.	Each	Doz.		
6 in.	\$0.15	\$1.10	8 in. \$0.25	\$2.35	
7 in.20	1.75	10 in.45	4.75

SAUCERS.—Fibre, waterproof and unbreakable.

Each	Doz.	Each	Doz.		
5 in.	\$0.40	\$4.35	9 in. \$0.60	\$6.00	
6 in. . . . .	.45	4.60	10 in. . . . .	.65	6.50
7 in. . . . .	.50	5.25	12 in. . . . .	.75	7.00
8 in. . . . .	.55	5.75			

POTTING SOIL. This mixture is prepared by us. Suitable for all ordinary plants and bulbs; by express or freight at buyer's expense, ready for use. Pk., 40c; bu., \$1.25; bbl., \$3.00.

RAKES, Steel Bow Garden. Best, does not break in center; 12 teeth; \$1.10; 14 teeth, \$1.20; 16 teeth, \$1.30.

Garden. 12 teeth, 75c; 14 teeth, 85c; 16 teeth, 95c.

LAWN RAKES

Automatic Self-Cleaning. A backward motion of the operator clears all the teeth at once. Each, \$1.10.



Lawn Queen. Wire teeth, reversible head. 24 teeth, each, 90c. 36 teeth, each, \$1.25.

SAWS, Vaughan's "Perfection" Pruning. Adjustable blade, so branches can be easily removed close to the trunk of the tree. Each, \$2.50; extra blades, 25c.

SHEARS (Pruning)—Best Grade, 9 in. each, \$2.00. California style, with Brass Spring, 9 in., each, \$2.15. 6 inch Nickel Plated, each, \$1.50.

SPRINKLERS. The Lenox. A splendid sprayer for in or outdoor plants, rose bushes, etc. Each, 75c; by mail, 80c; extra bulbs, 25c each.

Scollay's Rubber. Indispensable for floral work. Large, \$1.50; by mail, \$1.55; Medium, \$1.25; by mail, \$1.30.

WATERING POTS.—American. Heavy galvanized round can, two copper-faced roses, long spout; 4 quart, \$4.00; 6 quart, \$4.35; 8 quart, \$4.70; 10 quart, \$5.00; 12 quart, \$5.40.

French Style. Oval, otherwise same make as above; 6 quart, \$4.70; 8 quart, \$5.25; 10 quart, \$5.60; 12 quart, \$6.30.

VAUGHAN'S HIGH-GRADE FERTILIZERS

SPECIAL TRUCK AND FARM MANURE 5-8-1

This is a good grade of concentrated Manure, suitable for lawns and flowers as well as vegetables mentioned below. It is of exceptional value and will prove a money-maker to every farmer or gardener that uses it.

To be used on	Rate per acre	To be used on	Rate per acre
Essex Rape	200 to 500 lbs.	Celery	700 to 800 lbs.
Asparagus	1,000 lbs.	Cucumber	400 to 800 lbs.
Beans	400 to 600 lbs.	Lettuce	500 to 1,000 lbs.
Beet	500 to 1,500 lbs.	Onion	500 to 1,500 lbs.
Cabbage	400 to 1,500 lbs.	Potato	500 to 1,000 lbs.
Carrot	300 to 800 lbs.	Strawberries	500 to 1,000 lbs.
Price, 25 lbs., \$1.75; 50 lbs., \$3.00; 100 lbs., \$4.75; 500 lbs., \$21.50; 1000 lbs., \$40.00; 2000 lbs., \$75.00.			

FERTILIZER MIXTURE 2-8-1.

For fruit trees and small fruits, garden truck, tobacco, etc. Quick in starting, lasting in effect, giving firm, healthy growth and developing the fruit. Quantity of pounds to be used per acre. Beet, 500 to 1,500; Carrot, 300 to 800; Parsnip, 400 to 1,000; Potato, 500 to 1,000; Sage, 200 to 600; Salsify, 500 to 1,000; Turnip, 500 to 1,000; Blackberries, 400 to 800; Grapes, 400 to 500; Strawberries, 500 to 1,000. Price, 25 lbs., \$1.35; 50 lbs., \$2.00; 100 lbs., \$3.75; 500 lbs., \$17.00; 1000 lbs., \$30.00; 2000 lbs., \$56.00.

HUMUS "Hyper Humus" Brand.

Recommended for top dressing or use on heavy clay soils. Price, 100-lb. cases, each, \$2.50; 5 cases, each, \$2.25.

PURE RAW BONE, Coarse Ground.

Excellent material for vine borders or greenhouse benching. Also all bulbs, indoors and outside. Fine for roses. High analysis. Send for sample. Price, 100 lbs., \$6.00; 500 lbs., \$26.25; 1000 lbs., \$48.00; 2000 lbs., \$90.00.

MURIATE OF POTASH. Imported potash once again available; Should be used liberally, especially for all root crops. Price, 25 lbs., \$3.00; 50 lbs., \$5.00; 100 lbs., \$9.00.

BONE, BLOOD AND POTASH

Fertilizer Mixture 5-8-7 Per Cent Analysis

This is our best brand of concentrated manure; excellent for mixing into potting soil or as a top dressing. It is a money-maker. For potting soil use about 20 pounds to a cubic yard of soil, and for the dressing scatter it about as thick as lawn grass is sown, after loosening the surface of the soil. It is excellent for Carnations if applied by the end of October or in November. It can also be applied as a liquid manure by using an 8-inch potful to a barrel of water.

Price, 25 lbs., \$2.00; 50 lbs., \$3.50; 100 lbs., \$6.00; 500 lbs., \$27.00; 1000 lbs., \$50.00; 2000 lbs., \$95.00.

BONE AND BLOOD (Tankage).

For Cabbage, Cauliflower, Corn and other crops of big surface growth; not desirable for root crops except it is used in connection with potash salts or hardwood ashes, and if so used it is especially adapted to fruits, if applied early. For garden crops use 300 to 500 lbs. per acre.

Price, 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50; 500 lbs., \$19.00; 1000 lbs., \$36.00; 2000 lbs., \$67.50.

DRIED BLOOD. For top-dressing, for mixing with the soil, and for applying in liquid form, it is one of the best and safest nitrogenous fertilizers. It is splendid for roses, carnations, mums, all kinds of pot plants. Price, 100 lbs., \$6.75; 500 lbs., \$32.00; 1000 lbs., \$60.00; 2000 lbs., \$115.00.

HARDWOOD ASHES. This is also a splendid fertilizer for the lawn and garden, containing all of the fertilizing elements except nitrogen. If used on the lawn at the rate of a ton or more per acre as a first application, an annual dressing of three hundred pounds afterwards, will insure a thrifty growth of dark color, exemption from ill effects of dry weather and freedom from weeds. Price, 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00; 500 lbs., \$12.50; 1000 lbs., \$22.50; 2000 lbs., \$40.00.

IMPORTED ENGLISH FERTILIZERS

We are glad to be able once more to offer these imported Fertilizers to our customers at reasonable prices. During the war they were unobtainable, the manufacturing plants being engaged in production of war material.

CLAYS' FERTILIZER.

This valuable imported manure is especially recommended to all who grow either fruit, flowers or vegetables, and wish to bring them to the highest perfection. It should also be used in potting soil and as a top-dressing. Price, 7 lbs., \$1.25; 14 lbs., \$2.25; 28 lbs., \$4.00; 56 lbs., \$7.50; 112 lbs., \$14.00.

THOMPSON'S "SPECIAL" TOP-DRESSING MANURE

Also called "Chrysanthemum" Manure. An excellent stimulating Manure for top dressing for Chrysanthemums and similar plants. It is entirely soluble and very powerful, especially suitable for top-dressing plants in pots during the growing season. A heaped dessertspoonful will be sufficient for a ten-inch pot, sprinkled over the surface of the soil and watered in with tepid water. This may be given three times during the growing seasons. Best results will follow. Price, 7 lbs., \$1.25; 14 lbs., \$2.00; 28 lbs., \$3.75; 56 lbs., \$7.00.

THOMPSON'S VINE, PLANT AND VEGETABLE MANURE

So compounded as to combine stimulating with lasting effects. A safe and reliable Food and Stimulant for every Fruit-bearing plant, for Foliage and Flowering plants, for vegetables and out-door plants of every description; admirably adapted for mixing with the soil when potting in the proportion of 4 lbs. to each wheelbarrow of soil. Price, 14 lbs., \$1.75; 28 lbs., \$3.25; 56 lbs., \$6.00; 112 lbs., \$10.00.

PURE ICHTHEMIC GUANO

An Ideal Plant Food, that exactly fulfills all the requirements of Plants and Flowers, Fruit and Vegetables in a well-balanced form, so as not to stimulate one feature of the growth at the expense of another. It is clean in use, absolutely reliable, and may be safely applied in the prescribed quantities. DIRECTIONS FOR USE.—(1) In the dry state, 1 to 2 ounces to the square yard of ground. (2) In a liquid state, a tablespoonful to a gallon of water in the case of pot plants, about three times a week. (3) In a dry state mix with soil, when potting, 1 part to 100 parts of soil. Vines take a larger quantity, being applied in the early stages at the rate of 1/2 lb. to the square yard while growing, and at the time of growing, use a solution of four tablespoonfuls to the gallon of water. Imported in original bags of 112 lbs. each. Price, 28 lbs., \$2.75; 56 lbs., \$5.00; 112 lbs., \$9.50.

We are not responsible for loss in weight of Imported Fertilizers, due to evaporation.

Prices are unsettled. In case market declines, orders will be filled at market prices and differences refunded.

SCOTCH SOOT (Genuine Imported)

Gardeners know the value of the genuine article for stimulating a healthy growth of dark green foliage, and its beneficial effect in freeing the soil from slugs, grubs and cut worms. Price, 25 lbs. \$2.00; 50 lbs. \$3.50; 100 lbs. \$6.00; 500 lbs. \$25.00.

VAUGHAN'S "ROSE GROWER" BONE MEAL

This is a special brand we have put up for our trade. It is ground fine, hence acts quickly. Free from acid and a superb article. It is made from bone accumulated in large slaughter houses, and should not be compared with the Bone Meal made from cattle heads and feet gathered upon the Western prairies. Our "Rose Grower" Bone has been slightly steamed to soften it and is thus quicker in its action. Analysis: Ammonia, 4 1/2 to 5 1/2 per cent; total phosphoric acid, 22 to 25 per cent; bone phosphate, 48 to 54 per cent.

Price, 5 lbs., 65c; 10 lbs., \$1.10; 25 lbs., \$2.00; 50 lbs., \$3.25; 100 lbs., \$6.00; 500 lbs., \$25.00; 1000 lbs., \$47.50; 2000 lbs., \$90.00.

REGULAR BONE MEAL.

Price, 25 lbs., \$1.75; 50 lbs., \$3.00; 100 lbs., \$5.00; 500 lbs., \$22.50; 1000 lbs., \$42.50; 2000 lbs., \$80.00.

Quantity Required. For permanent pasture and mowing lands, 1/2 to 1 ton per acre; for trees and vines, 2 to 4 quarts each; for top-dressing, 1,000 to 1,500 lbs. per acre; rose beds and plants, 1 part to about 50 of soil; for starting a new lawn, as a base, 3 to 5 lbs. per 100 square feet.

PULVERIZED LIMESTONE

The best form in which to apply lime as a neutralizer for acid soils. It is not caustic and will not burn the humus in the soil, consequently can be applied any time of the year without danger. Price, 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.00; 500 lbs., \$7.50; 1000 lbs., \$12.50; 2000 lbs., \$20.00.

NITRATE OF SODA or Chili Saltpeter

Nitrate of Soda is not a substitute for other manures, but we recommend it as the cheapest and best form in which to apply Nitrogen to plants. Gardeners who are using farm manure should continue to use it, but use Nitrate of Soda in addition to other fertilizers. If your object is to grow maximum crops you must in some way furnish the plants with Nitrogen. No matter what manure or fertilizer is used the Nitrogen must be converted into Nitrate before the plants can use it.

Price (subject to market changes), 5 lbs., 50c; 10 lbs., 90c; 25 lbs., \$1.60; 50 lbs., \$2.75; 100 lbs., \$5.00; 500 lbs., \$23.50; 1000 lbs., \$45.00. Write for prices on larger quantities.

CATTLE MANURE (Shredded).

A natural fertilizer for all general purposes. If applied to the lawn in the fall it protects grass roots through the winter. As easy and clean to handle as grain. Price, 100 lbs., \$4.00; 500 lbs., \$16.00; 1000 lbs., \$30.00; 2000 lbs., \$55.00.

VAUGHAN'S SHEEP MANURE

This is a pure, natural Manure, and its effect is immediate; it is excellent for mixing with the soil for greenhouse plants—one part manure and six parts soil. Strawn over and dug into the vegetable garden or placed directly in drills or hills, it promotes a rapid, steady growth until maturity. It makes the richest, safest and quickest Liquid Manure. For use in liquid form one pound to five gallons of water will make a liquid which can be used with safety daily. Price, 5 lbs., 50c; 10 lbs., 90c; 25 lbs., \$1.50; 50 lbs., \$2.25; 100 lbs., \$4.00; 500 lbs., \$17.50; 1000 lbs., \$33.00; 2000 lbs., \$60.00.

VAUGHAN'S LAWN AND GARDEN FERTILIZER

Make first application in early spring, when frost is out of the ground, distribute evenly 25 lbs. fertilizer to every 1,000 square feet of lawn. In seeding down new lawn, scatter double the amount, 50 lbs. of fertilizer on every 1,000 square feet; rake in thoroughly, then sow seed. Price, 5 lbs., 50c; 10 lbs., 90c; 25 lbs., \$1.65; 50 lbs., \$3.00; 100 lbs., \$5.00; 500 lbs., \$22.50; 1000 lbs., \$43.00; 2000 lbs., \$82.00.

ACID PHOSPHATE 16%. Used on grain crops and others requiring an excessive amount of phosphoric acid. Price, 25 lbs., \$1.25; 50 lbs., \$2.00; 100 lbs., \$3.50; 500 lbs., \$15.00; 1000 lbs., \$25.00; ton, \$45.00.

VAUGHAN'S CONCENTRATED PLANT FOOD

A most useful Fertilizer for all kinds of plants raised in pots. It produces a rapid and vigorous growth and an abundance of flowers.

Package containing food for 20 plants for 3 months, 20c; 3 for 55c; large package, containing sufficient plant food for one year, 30c; 3 for 80c; if by parcel post, add 5c for small package and 10c for large package.

SULPHATE OF AMMONIA. Used for its Nitrogen. A very desirable fertilizer for all plants in which a large leaf development or rapid growth is desired. Use 1 pound to 50 square feet of ground or bench or a tablespoonful to a bushel of soil, or 3 gallons of water. Price, 25 lbs., \$2.50; 50 lbs., \$4.50; 100 lbs., \$8.00; 500 lbs., \$37.50.

HORN SHAVINGS These are largely used by florists on such plants as Fuchsias, Geraniums, etc., and in the large vases in Parks and Cemeteries, to supply food after the natural fertility of the soil is exhausted. Price, 25 lbs., \$2.50; 50 lbs., \$4.50; 100 lbs., \$8.00; 500 lbs., \$35.00.

From _____

P. O. _____ State _____


Vaughan's Seed Store

New York


43 Barclay Street



M. JULES ELIE



FELIX CROUSSE



PRES. TAFT

**FOUR
SPLENDID
PEONIES**

FELIX CROUSSE. Each, \$1.00

FESTIVA MAXIMA. Each, 60c.

PRES. TAFT. Each, \$2.50

M. JULES ELIE. Each, \$1.00

THE above prices do not include postage.

If wanted by mail, add 5c each to the price. September is the best time for the planting of Peonies.

VAUGHAN'S



FESTIVA MAXIMA