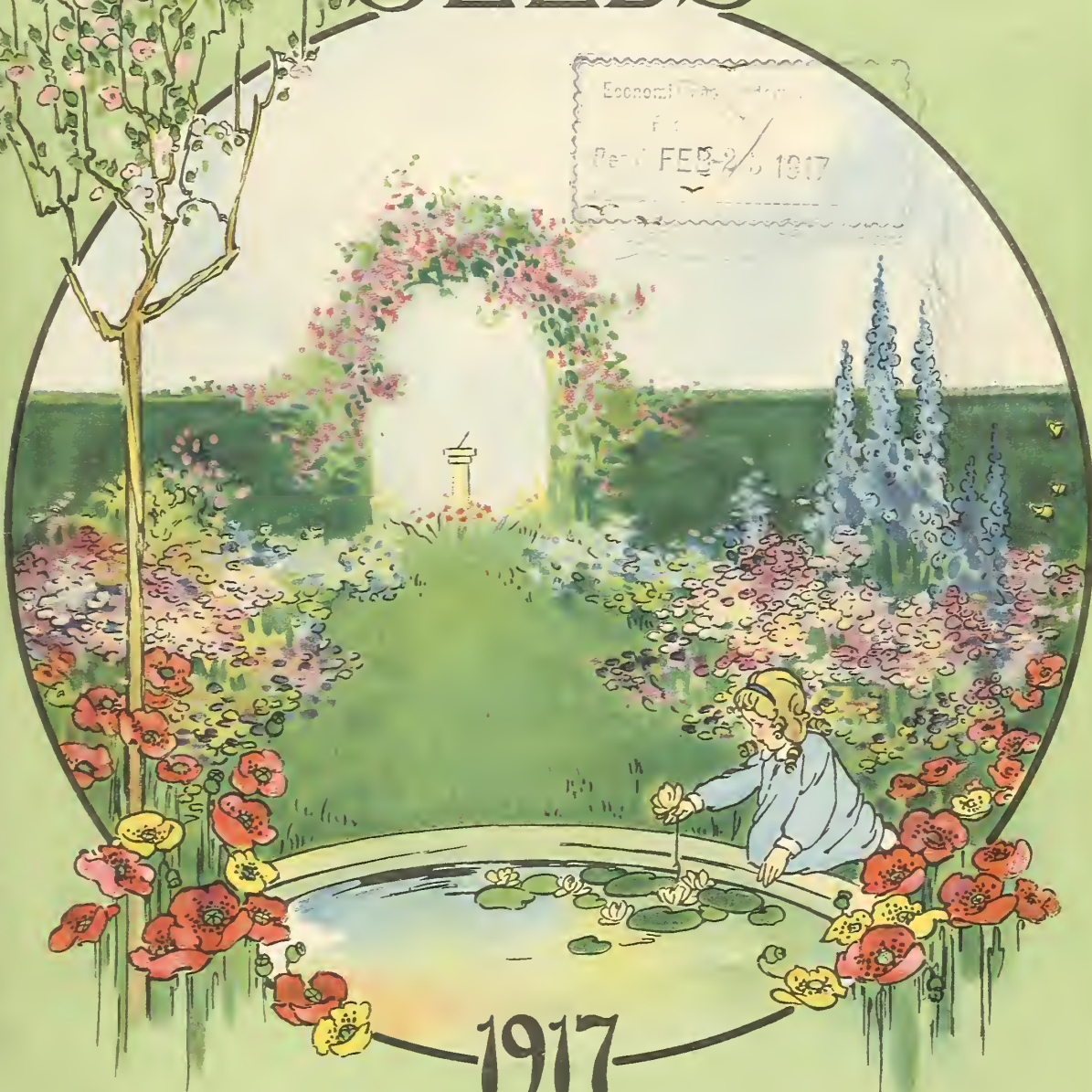


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THORBURN'S SEEDS



Economical
 Paid FEB 26 1917

1917

FOUNDED IN 1802

J. M. THORBURN & CO.

53 BARCLAY STREET THROUGH TO 54 PARK PLACE

NEW YORK CITY

The Improvement of Land



THE proper preparation of land so as to insure maximum crops is a weighty problem with most farmers and gardeners, if we can judge from the number of requests that come in daily for information on this subject.

To prepare old worn-out soils that have been allowed to get into a hard, poor, weedy condition, for a Vegetable Garden, it is necessary to get the soil mellow, well enriched with decayed vegetable matter and well-rotted barnyard manure, and clear of weeds.

The ground should be plowed as early in spring as it can be worked, putting in about one ton of burnt lime to the acre. Harrow and pulverize, giving the soil a thorough working to get it as fine as possible. Sow $1\frac{1}{2}$ bushels Canadian field peas and 3 bushels oats to the acre. Late in June or early in July this crop should be plowed under, applying thirty or forty loads of coarse, well-rotted barnyard manure, well worked in, and sow 2 bushels of buckwheat and rye and 20 lbs. crimson clover to the acre, or $2\frac{1}{2}$ bushels cowpeas to the acre. If buckwheat, rye and clover are used, let the buckwheat die down when frost comes and plow all under early next spring—if cowpeas are sown, turn them under in September and apply a ton of unleached hardwood ashes to the acre and sow 2 bushels rye to the acre, and in spring apply another thirty or forty loads of well-rotted barnyard manure plowing under as soon as dry enough.

In place of the June or July sowing of cereals mentioned above, the oats and peas may be followed with white beans, planted in hills, cultivated both ways and hoed. In September sow rye among the beans and in spring plow all under; another half ton of lime can be used to advantage, and the cultivating and hoeing will clean out the weeds and give a cleaner garden. This soil, if thoroughly plowed and harrowed, should be mellow and rich enough to grow any kind of vegetables.

Another plan would be to plow the ground as deeply as possible in fall. Harrow and pulverize, to make it friable and easy to work. Apply as a top dressing 50 bushels air-slaked lime and sow to rye, 2 bushels to the acre. Apply thirty or forty loads of coarse barnyard manure early in spring, and plow all under about the middle of June, then sow cowpeas, $2\frac{1}{2}$ bushels to the acre, and harrow or cultivate them in. About the end of September turn the cowpeas under, applying one ton of unleached hardwood ashes and again sow to rye. Next spring apply forty loads of well-rotted barnyard manure and plow all under as soon as dry enough.

In order to renovate ground used as a Vegetable Garden that has been run down, as soon as frost comes the ground should be plowed, applying a liberal quantity of sheep manure, working it well in, then sow winter rye, 2 bushels to the acre. In early spring this should be plowed well under, applying our Complete Manure at the rate of 1200 to 1500 lbs. per acre—this will give a good foundation for the new garden.

J. M. THORBURN & CO.

IN presenting this our 116th successive annual Catalogue, we have to thank our innumerable customers and friends for their patronage in the past, which we trust will continue in the future to our mutual advantage.

Our Seeds hold the record for being always *Reliable*. Over a century in business means something—and it does much to emphasize the reliability of our goods. The Thorburn experience—the Thorburn knowledge of what's what in seeds—the Thorburn reputation for fair dealing—these are your safeguards in buying.

Our catalogue has always received a considerable amount of study. The cultural directions and descriptions therein are concise and to the point. You can make up your order from its pages with entire confidence in the exceptional quality of the products we are offering.

We would suggest that your order be made up as soon after the receipt of this catalogue as possible. It will help us to ship promptly, and it will help you by giving you your goods just when you want them. Placing orders late sometimes makes delays unavoidable.

The difficulties and delays in obtaining supplies from our European Growers, as well as the shortage of many crops, both abroad and in our own country, make it more important than ever that orders should be placed as early as possible this year. We have the facilities for handling a vast amount of business, and your orders will receive the most prompt attention regardless of when they come.

Owing to the conditions at present prevailing in Europe, some kinds of seeds may be late in reaching us this season. *It also sometimes happens that certain articles are not ready when the bulk of the goods ordered is shipped. In such cases, rather than hold back the whole order, we send what is ready and keep a memorandum of what is to follow when available. Customers would, therefore, in such cases, do well to await our advice or invoices before writing in regard to items not sent them.*

If there is any information you want that is not given in this catalogue, write us about it. We will give all inquiries our careful attention.

May we have the pleasure of filling your order?

WE ASK THAT YOU READ THE NEXT PAGE BEFORE SENDING IN YOUR ORDER

CONTENTS

For Itemized Index, see pages 159 and 160.

	PAGE		PAGE
NOVELTIES.....	5-10	FORAGE, ECONOMICAL AND MISCEL- LANEOUS SEEDS.....	64-66
COLLECTIONS, VEGETABLE SEEDS.....	11-12	TREE, SHRUB AND FRUIT SEEDS.....	67-70
“ FLOWER SEEDS.....	12	FLOWER SEEDS.....	71-128
VEGETABLE SEEDS.....	13-49	PALM SEEDS.....	128
HERBS.....	49	ORNAMENTAL GRASSES.....	129
TOBACCO SEEDS, BIRD SEEDS, ESCU- LLENT PLANTS AND ROOTS.....	51	BULBS AND ROOTS.....	130-144
BOOKS.....	52-53	INSECTICIDES AND REMEDIES FOR PLANT DISEASES.....	145-146
GRASS SEEDS FOR ALL PURPOSES.....	54-61	FERTILIZERS.....	147-148
CLOVERS, VARIOUS.....	62	TOOLS AND GARDEN REQUISITES.....	149-158
FIELD CORN AND OTHER CEREALS.....	63		

ORDERS

Orders should be written on our order sheet or on a blank sheet separate from letter, *preferably in ink*, and, to receive prompt attention, should be directed to the firm and not to individuals. Orders from new customers should be accompanied by a remittance in the form of a Post-Office or Express Money Order, Bank Check or Bank Bills.

PRICES

The prices quoted are net, and do NOT include free transit, EXCEPT FOR SEEDS IN PACKETS, OUNCES or QUARTER-POUNDS, on which WE pay postage or expressage anywhere in the U. S.

SEEDS BY MAIL OR EXPRESS

If wanted by mail in the United States, add postage according to zone rate, as per table at foot; except for seeds ordered by the packet, ounce or quarter pound, which we mail free. By special arrangement with the express companies, we can ship seeds and bulbs at a reduction of about 25 per cent from the regular rates. In view of the greater safety, it will be found best to send parcels of 15 lbs. or over by express, as packages are apt to get crushed in the mail. Unless otherwise instructed, we send orders from persons unknown to us C. O. D.

PARCEL-POST ZONE RATES

Within the United States

Zone	Within	1st lb.	lb. or or fraction fraction	Additional
1st.	.50 miles of N. Y. City.....	5c.		1c.
2d.	.50 to 150 miles of N. Y. City.....	5c.		1c.
3d.	150 to 300 miles of N. Y. City.....	6c.		2c.
4th.	300 to 600 miles of N. Y. City.....	7c.		4c.
5th.	600 to 1,000 miles of N. Y. City.....	8c.		6c.
6th.	1,000 to 1,400 miles of N. Y. City.....	9c.		8c.
7th.	1,400 to 1,800 miles of N. Y. City.....	11c.		10c.
8th.	1,800 and over miles of N. Y. City.....	12c.		12c.

Maximum weight, 50 lbs. to 1st and 2d zones, and 20 lbs. from the 3d zone upward.
Postage to Canada 12 cents per pound, or fraction thereof, maximum weight 4 lbs. 6 oz.

NAME, ADDRESS, ETC.

We beg our correspondents to give us *each order the correct name and address*; also to indicate *very precisely* the means of carriage which they prefer—**mail, express or freight**, and the office or railroad station which best serves their locality. In case these directions are not followed out, or if they are not sufficient, we ourselves shall of course choose the most advantageous and convenient means.

CULTURAL DIRECTIONS

These apply to the climate of New York and vicinity. For more northern and southern localities the necessary changes in time of sowing, etc., will readily suggest themselves to gardeners.

J. M. Thorburn & Co. give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

F. W. BRUGGERHOF
President

J. M. THORBURN & CO.

53 Barclay Street, through to 54 Park Place, New York

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO THE COMPANY

Telephone Nos. 6445 and 6446 Barclay. Private Exchange connecting all departments

WARRANTIES

Seeds of best quality will sometimes fail through improper treatment. Thus, a small seed may be sown so deeply that the young plant cannot reach the surface. *More failures result from disregard of the conditions necessary to germination than from inferiority of the seeds used.*

These conditions are: A proper temperature, sufficient moisture and free access of air. Besides these, the soil must be in proper condition and present no physical obstacle to the growth of the young plant. If heavy rains have compacted the surface of the soil, and the sun has baked it to a hard crust, it will be impossible, even if all other conditions are favorable, for the seedling plants to force their way through it, and many perish from this cause alone.

Seeds differ greatly as to the temperature required for germination. Beets, Cress, Peas, etc., germinate rapidly at a temperature of 45 deg.; but if Melons and other seeds of that family, Bush or Pole Beans, and other plants of sub-tropical origin are sown under the same conditions, they will be apt to decay, as for their prompt germination they require a heat of at least 60 deg. For this reason many seeds fail yearly from too early sowing.

The second condition, proper moisture, is likely to be violated by an excess rather than by too small a portion. The proper amount is that which a well-drained soil will naturally hold.

Free access of air is all-important, and this is interfered with by an excess of water in the soil.

In germination, complex chemical changes take place in the seeds, in which the air performs an important part. A portion of the seed is consumed, carbonic acid gas being given off in changing the starch and other constituents of the seed into nutriment to forward the growth of the germ or embryo plant, which depends upon the contents of the seed until it forms roots below ground and leaves above, and is able to sustain itself.

Besides these conditions affecting the germination of the seed, the young plants, after they have made their way to the surface, are liable to various accidents; a sudden current of very cold air, or a continuous drying wind may check their growth or destroy them altogether.

In addition, there are numerous insects, both below and above ground, that may attack the plants, some of them being so small that they often destroy a crop before they are discovered.

We may also mention the well-known tendency of many vegetables to revert to their original types, notwithstanding the care of the seed-grower; the Yellow-Podded Wax Beans becoming green, the Yellow and White Celery becoming more or less green, dwarf Peas becoming running sorts, etc.

Directions for the Cultivation of Vegetables

TO SECURE a good crop of vegetables, three things are necessary, viz., a suitable soil, pure seed and clean culture. The exposure for a vegetable-garden should be south or southeast, or nearly so. The soil should be naturally rich and friable, a sandy loam being about the best. If the soil be stiff, it should be gradually mellowed by the free use of barnyard manure, or, if convenient, by the addition of sand. If wet, or inclined to hold an excess of moisture, it should be underdrained, preferably by tile, but if possible, a location should be selected naturally dry and free from surface water.

A dark-colored soil, or one supplied with a goodly portion of decayed vegetable matter, will produce the earliest crops. If the soil be shallow, it should be deepened gradually by plowing or spading an inch or two deeper each year, and not all at once by trenching or subsoiling, unless manure and money both be abundant. A sandy soil may be greatly improved by adding vegetable mold from the woods. To produce the best results, the vegetable garden should have at least one foot of good, rich soil. The roots of large trees should not be allowed to encroach on any part of the garden, though large trees, sufficiently far off, afford a valuable protection on the north and west.

Mark the garden off into squares or beds of convenient size, to facilitate the practice of a rotation of crops, which is an important matter. As a rule, never let the same crop or kind of vegetable occupy the same bed or spot two years in succession.

Potatoes, Onions and a few other things may form exceptions to this rule. Every year the beds must be warmed up by a liberal coat of manure, which should be thoroughly mixed with the soil. From seeds sown in drills, larger crops from a given surface are grown, and cultivation is simple and comparatively easy. The space between the drills, and other special information, is given in the body of this catalogue; the least distance is named, in order to economize space; it might be increased in some cases to advantage. The ground should be frequently hoed, to kill the weeds and to keep the soil mellow; and the proper time to hoe is just when the weeds appear above the ground.

Much time may be gained by starting certain kinds of plants in a hotbed, or even in a coldframe, the latter being a convenient thing, even on a small place. The hotbed is chiefly intended for raising early Tomatoes, Eggplants, Peppers, Cabbage, Cauliflower, Lettuce, etc., but as all these plants can now be bought cheaply of this company at the proper time, the expense and labor of a hotbed may be dispensed with, especially on small places.

To Prepare a Coldframe.—The coldframe is simply a frame set on the ground, no bottom heat being applied. It is banked up on the outside during the Winter with salt hay, straw or coarse litter. The soil is prepared by forking in and thoroughly mixing to the depth of 10 to 12 inches a liberal quantity of old, well-rotted manure. The manure of an old hotbed is good for the purpose. The frame is prepared in the Fall, and young Cabbage, Cauli-



A Section of Our Trial Grounds

flower and Lettuce plants are set out in it in time to get well established before very cold weather. Cauliflower and Cabbage should be set down to the first leaf, and the soil made firm around the plants. The seed is usually sown, in the vicinity of New York, from the 15th to the 20th of September, but the very early kinds some 8 to 10 days later. The young plants will be ready to transplant in about 25 to 30 days. During the cold nights and stormy days, the beds should be closely covered with the sashes, and these further protected by straw mats or shutters. Cauliflower needs more

and closer protection than Cabbage, as it is rather more tender. During mild days admit air freely, the object being to keep the plants in a dormant state, without actual freezing, so that when Spring comes they are in a forward state for setting out early crops. Seeds of Cabbage, Cauliflower, Lettuce and Radish may be sown in a coldframe in the Spring from the last week in February to the first week in March. The frame should stand in a warm and sheltered spot, and be kept from freezing by mats or a thick covering of straw during cold nights.

Directions for Making a Hotbed

IN the vicinity of New York, from the first to the latter part of March is quite early enough to make a hotbed. The time must vary according to the latitude. Use fresh horse manure, and add to this, if possible, one-third to one-half of its bulk of leaves. Mix them thoroughly, tramping down the mass in successive layers, and form into a large pile, so that fermentation will proceed.

In two or three days fermentation will be apparent by the escape of steam from the heap. Now turn again, and allow the heap to remain until the second fermentation commences. Make a pit $2\frac{1}{2}$ feet deep, and of a size suited to the number of plants required. The pit will be better if built up of brick. It should be located in a dry, sheltered spot, facing the south or east, if possible. Hotbed sashes are usually 3x6 feet, and one or two sashes will give early plants enough for a small family. The frame of the bed should be 18 inches high at the back and 12 inches in front, which will give the proper slope to catch the sunlight. Crosspieces should be placed for the sashes to slide on, to facilitate opening and shutting the frames.

When everything is ready, the manure is placed in

the pit and trodden down firmly in layers to the required depth, 2 to $2\frac{1}{2}$ feet. Then put on the sashes and keep the pit closed until the heat arises. At first it will probably be 100 deg. or more, which is too hot to sow the seed in; but in two or three days it will subside to 90 deg. or a little less, when the soil may be put on to the depth of 6 to 8 inches. Try the heat by plunging a thermometer into the manure.

The soil should be of well-rotted sod (or common garden soil will do), mixed with about a third of fine old manure; and in this the seeds may be sown thinly in drills 2 to 3 inches apart, and afterward (as soon as out of the seed-leaf) either thinned out or else transplanted to another frame. Air must be given every mild day by raising the sashes at the back.

Water with tepid water whenever necessary, and during cold nights and snow storms keep covered with mats or board shutters. Tomatoes, Peppers and Eggplants should be sown in a separate frame from Cabbage, Cauliflower and Lettuce, as they require more heat. Hotbeds may be made on the surface of the ground, if the manure extends a foot wider on all sides than the frame.



Another Section of Our Trial Grounds

Novelties and Specialties in Vegetable Seeds

New Dwarf Green-Podded Snap Bean

Thorburn's Earliest of All, Long, Round Green Pod, Stringless. Very early, prolific and of finest quality, also a good forcer. Our trials show this to be the **earliest of all**, as the name we have given it indicates. $\frac{1}{2}$ pt. pkt. 25 cts. No less quantity sold.

New Green-Podded Beans

Pale Dun, or Cream Color. A fine, stringless variety. $\frac{1}{2}$ pt. pkt. 25c.

Dark Dun. Liver color and stringless. Pkt. 15 cts., $\frac{1}{2}$ pt. 25 cts.

Dwarf Green-Podded Bean

Masterpiece (Sutton's). The plant is a robust grower, very prolific, the pods are straight, handsome, very tender, and stringless. Early and well adapted for forcing, an exceptionally fine green, round podded variety. Pt. 50 cts., qt. 85 cts.

Thorburn's Gilt-Edge Cauliflower

Best and surest of all. Produces large, heavy, solid, white heads of finest quality. Undoubtedly the best variety. Pkt. 25 cts., oz. \$2.50, $\frac{1}{4}$ lb. \$9.00.

Early Jersey Wakefield Cabbage

Thorburn's Selected Stock

Undoubtedly the finest strain of this most popular, well-known early Cabbage in cultivation. The heads are extremely solid, pyramidal in shape, with very little outside foliage. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3.00.

Extra-Early Nordheim Sweet Corn

The earliest Sweet Corn in cultivation. Produces stalks from 6 to 7 feet high, each bearing three or four nearly perfect ears of finest quality. On style of Minnesota, but far exceeding that variety in the deliciousness of its flavor, as well as in earliness and productiveness. Pt. 20 cts., qt. 30 cts., $\frac{1}{2}$ pk. 85 cts., pk. \$1.50.

Golden Evergreen Sweet Corn

Late; very sweet, round grains. Pt. 30 cts., qt. 50 cts., $\frac{1}{2}$ pk. \$1.65.

Cucumber, Thorburn's Noroton Selected White Spine

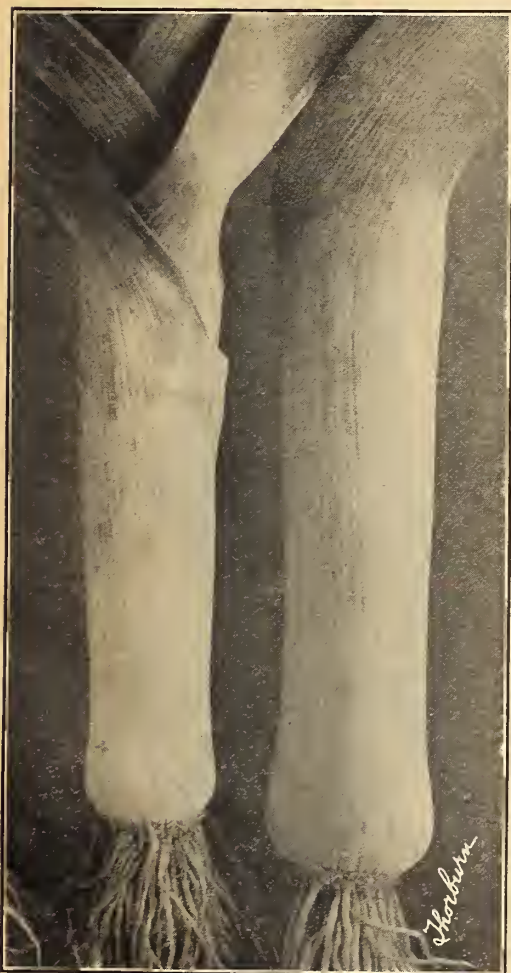
A selection of the Improved White Spine, but earlier, more perfect in shape and more prolific. The best slicing variety we have seen, being solid in flesh, fine-grained, tender and of delicious flavor. Vigorous, healthy grower. A splendid sort for the home garden, and absolutely without an equal for market. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

Celery, Thorburn's Gilt-Edge Golden Self-Blanching

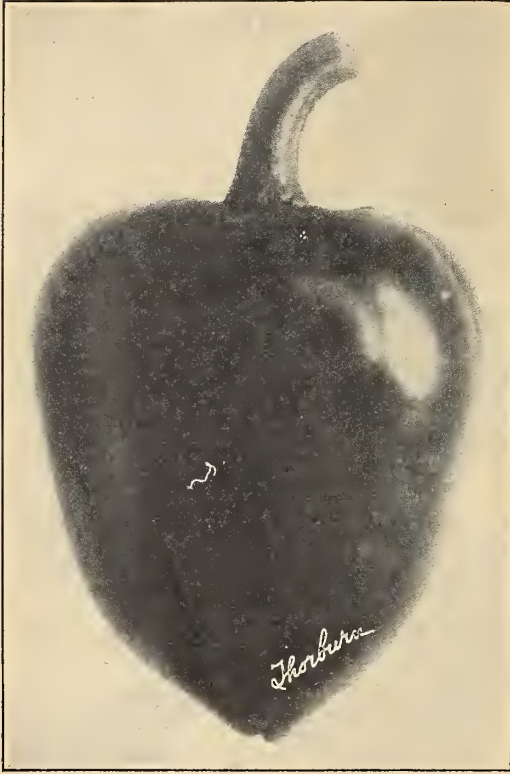
Golden Self-blanching is the variety of Celery par excellence, and we can recommend our strain with every confidence. The chief characteristics of this sort are its self-blanching qualities and the beautiful waxy yellow appearance of the stalks. It is of compact, heavy growth and produces stalks that are brittle and crisp in the extreme, and hearts that are large and solid. Pkt. 20 cts., oz. \$1.00, $\frac{1}{4}$ lb. \$3.50, lb. \$12.00.

Thorburn's Model Leek

Grand exhibition variety of mild, agreeable flavor. The long, thick, pure white stems of immense size are a great improvement on other varieties. Pkt. 15 cts.



Thorburn's Model Leek



Pimiento Pepper

Thorburn's Big Boston Lettuce, Improved

Our strain of this well-known and most popular sort is without doubt the finest in existence. It is too well known to require any lengthy description. It is sufficient to say that it is equally valuable for growing in greenhouses for Winter use, in frames for Spring, or for sowing the seed in the open ground for use in Summer and Fall. It is unequaled by any other variety for crispness and tenderness; produces large, solid heads with few outside leaves, and stands long before running to seed. See illustration of a head of Big Boston Lettuce, Improved, on page 31. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

Egyptian Deity Muskmelon

A new Melon of Casaba type, from South Africa, said to be very fine quality. 20 cts. per oz. (See page 33.)

Pea, Quite Content

A giant-podded, second early Pea, the pods mostly grow in pairs and are quite distinct from all other Peas. The pods are well filled with large, round peas of excellent flavor, very prolific, a stout, robust grower, height about 5 feet. It has been pronounced by experts to be the finest largest, second early Pea. Pt. 30 cts., qt. 50 cts.

Pepper Pimiento, dulce

The mildest of all Peppers. This new sweet Pepper has a flavor unknown to Peppers, absolutely free of the pungent flavor that so many consider undesirable. It has a thick, firm flesh which permits its being scalded and peeled; when fully ripe, the fruits are brilliant scarlet. Should be in every family garden. Pkt. 10 cts., oz. 50 cts.

Tomato "Noroton Forcing"

This new variety will be found to be valuable for the market gardener, as well as for private gardens. Color bright crimson, of uniform size, averaging about six to a pound. Solid, very prolific and of perfect form. Pkt. 15 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

Tomato—Thorburn's Improved Early Cluster

A valuable new variety, color bright scarlet, grows in bunches like grapes, each plant producing 100 to 150 Tomatoes of excellent quality. Pkt. 15 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

Turnip

Prince Engalitscheff

New early, scarlet, striped, yellow, flat. Pkt. 10 cts., oz. 20 cts., lb. \$1.25.



Thorburn's Improved Early Cluster Tomato

Flower Seed Novelties and Specialties of Merit

Aster, Hercules White

A new type of great merit. In form it is similar to the well known "Ostrich Plume," but of dwarf habit, it is a strong grower and produces very large flowers of a refined shape, pure glistening white. Per pkt. 25 cts.

Asters, Hercules Lilac

An artistic flower of a beautiful rosy lilac shade, a decided acquisition to any garden. Per pkt. 25 cts.

Aster, Single Japanese (hA)

This Aster is of a branching habit, which is greatly in its favor as a cut flower, it having a fine, long stem. The central disc of the flower is encircled by a wreath of long, quilled ray petals either white or delicate rose.

White, pkt. 20 cts. Delicate Rose, pkt. 20 cts.

Alyssum Benthamii compacta lutescens

Dwarf, compact, upright growth, with yellowish flowers; useful for carpet-bedding or ribboning. Pkt. 20 cts.

Antirrhinum nanum grandiflorum, "Mauve Beauty"

A unique color in Antirrhinums and quite a new break. The color is a lovely shade of pale clear mauve; the flowers are large and the habit of the plant all that can be desired. A welcome addition to the Nanum type. Pkt. 20 cts.

Antirrhinum, Silver Pink

New, silvery pink, splendid variety for greenhouse culture; semi-dwarf. Pkt. 25 cts.

Aquilegia, Veitch's Long-Spurred Hybrids

A magnificent strain of many years selection, truly beautiful; mixture of Columbines, long stemmed and beautiful colors. Pkt. 40 cts.

Bellis Perennis fl. albo Giant- flowered Daisy

Monstrosa alba—White flowers, 2½ to 3 inches diameter. Pkt. 25 cts.

Monstrosa rosea—Rose flowers, 2½ to 3 inches diameter. Pkt. 25 cts.

Centaurea Cyanus, Double Blue

A double flowered form of the popular old fashioned blue cornflower or bachelor's button, which it eclipses in every way, producing its large, fine double flowers on long, strong stems. Per pkt. 25 cts.

Centaurea moschata rosea (hA)

This new, beautiful annual Sweet Sultan is 2½ to 3 feet high, with flowers of a very delicate rosy white, and light pink stamens and style; the flowers are about the same size as the white and purple varieties, and will make fine flowers for cutting. Pkt. 25 cts.

Calceolaria, Veitchii White

"A white Calceolaria for the conservatory." In many respects, this Calceolaria, is remarkable, and an extraordinary departure from the conventional color of greenhouse Calceolarias, being milk white in color. It is a true perennial, has a strong habit of growth, with healthy, strong, lance-shaped, shining, serrated foliage. It bears an abundance of bloom on first season plants, which grow to a height of about 3 feet, and are quite bushy. It is of great value for decorative work. Pkt. 50 cts.

Calceolaria, Bronze Age

This is another remarkable hybrid and differs from all others in being of deep red mahogany-bronze shades, some light, others dark, ranging between crimson and bronze, softened to a warm murillo tint, while the apex or lid of the pouch in some instances is a deep yellow, free bloomer and robust constitution. Pkt. 40 cts.

New Cardinal Climber (hA)

(Ipomœa Quamoclit Hybrida)

This beautiful annual is the result of a cross between *Ipomœa coccinea* and the Cypress Vine (*Ipomœa Quamoclit*). It is one of the best introductions as regards an annual climber for many years. It is a strong and rapid grower, attaining a height of from 20 to 30 feet, and is of a branching habit. It flowers perpetually from July until frost, the foliage is deeply lacinated, and the flowers are borne in clusters of five to seven, and are of a fiery cardinal-red. It is well worth trying. Pkt. 25 cts.

Celosia Pompon

(Chinese Woolflower)

Brilliant Scarlet.....Pkt. 15 cts.

Do You Need a Gardener?

At all times we have on our books the names of capable men in search of employment on private estates, farms and the like, and all persons in search are cordially invited to call upon us at any time for such men. Gardeners and Superintendents desiring positions are requested to call here, or drop us a line for application blanks.

Chrysanthemum Maximum laciniatum

White Comet Marguerite

Of remarkable beauty, quite different from all other varieties, the petals of this novelty come in light, tufty waves, partly covering the yellow center of the flower, creating a graceful, charming effect. About 40 inches high, with long, strong stems; flowers abundantly in July and August. Pkt. 50 cts.

New Cosmos

Thorburn's Extra Early Flowering Cosmos. Rose pink and shell pink, the foliage of this variety is not dense, and shows all the long, graceful stems tossing their airy, fairy blossoms in the air, making a most beautiful sight; in our trial grounds the past season this variety was in flower from June 15th until frost. Pkt. 25 cts.

Cosmos, White Lady Lenox

An exact counterpart in every particular, except as to color, of the favorite Pink Lady Lenox Cosmos. Well worth a trial by all lovers of these splendid annuals. Pkt. 25 cts.

Cosmos, Crimson Ray

The flowers while equally as large in diameter, show a new departure in form, number and shape of the petals, the petals greatly increased in number, are narrow and fluted, separated in star-like form, and of the most brilliant crimson. Pkt. 15 cts.

Crested Cosmos

These beautiful new Cosmeas are most striking in color; the flowers are crested and double.

Pink.....Pkt. 25 cts.
White.....Pkt. 25 cts.

Cyclamen Persicum Giganteum Marginatum "Victoria"

Of strong, vigorous growth, these Cyclamen give an abundance of flowers of most beautiful colors in great variety of shades; the quaintly formed flowers standing well above the prettily marked foliage. Pkt. 50 cts.

Dimorphotheca aurantiaca hybrida fl. pl. (hA)

Double-Flowering African Daisy, Pkt. 25 cts.

This is the double and semi-double form of the African Golden Daisy hybrids which we offered last season.

Dimorphotheca Aurantiaca Hybrida, Purplish-red. Pkt. 25 cts.

Dimorphotheca Aurantiaca Hybrida, Lilac, Bluish Tint. Pkt. 25 cts.

Those rare and quite new colorings are very pleasing, ranging from purplish red to purplish rose, mostly with large white center, also to orange red with claret red tips or edges, while in the bluish tints there will be found lilac selves or purplish lilac varieties tinged white or white and yellow centered. Very attractive when in full bloom.

Delphinium Pauli

A new perennial hardy Larkspur from East Africa. The plants form loosely branched bushes, 1½ to 2 feet in height, with wire-like, stiff stems and branches bearing pure white flowers, 1½ to 1¾ inches in diameter, with spurs of equal length; the stamens are dark violet-brown. A feature of this new Delphinium is the intense, sweet, eucharis-like scent of the flowers. Pkt. 20 cts.

Erigeron Multiradiatus Roseus

A new variety of these handsome perennials; producing on graceful, long stalks an abundance of beautiful blooms measuring about 2½ inches across; innumerable rosy-colored petals surround the golden yellow disc, giving the appearance of a small, rose-blooming Marguerite; excellent for cutting. Pkt. 25 cts.

Gazania Longiscapa

A magnificent annual from South Africa. Forms round bushes about 8 inches in height, with dark green foliage, and covered with large, long-stemmed flowers of a lovely golden yellow with unique brown markings. Blooms continuously all through the season; of the easiest culture; succeeds best in a sunny location. Pkt. 25 cts.

Giant Pink Moonflower

The Giant Pink Moonflower produces a luxuriant vine. It grows very fast and dense, with thorns all over stems. The blooms are about the size of a Brazilian Morning Glory. Pkt. 10 cts.

Gloxinia Hybrida

Crassifolia Crispa "Waterloo" Black-purple

Delicate white margin, giant flowers with seven lobes. Very valuable for florists. Pkt. 50 cts.

Crassifolia Crispa "Meteor"

Undoubtedly the most beautiful of all the Crassifolia Gloxinias, deep pure white throat, tinted bluish towards the petals, which are of a bright scarlet red with white underneath. Pkt. 50 cts.

Crassifolia "Scarlet Queen"

This hybrid is of vigorous growth, with wonderful big wave-shaped flowers of true scarlet. Pkt. 50 cts.

Leucanthemum secundum giganteum

Giant Shasta Daisy (hP)

This strain has flowers which measure 4 to 5 inches across, borne on strong stems, 2 to 3 feet high; the discs of this beautiful Daisy are very small, of a deep golden yellow, surrounded with extremely long florets of snow white. Pkt. 25 cts.

Lupinus polyphyllus Moerheimii

A perennial plant that everyone should have.

This new Perennial Lupine is of rather dwarf habit, with beautiful rose-and-white flowers, and blooms continuously during the Summer. 69230. Pkt. 25 cts.

New Hybrid Lupine

All are hardy herbaceous perennials.

Lupinus Polyphyllus

Blue Cloud. Long spikes of soft lavender blue, upper petals shaded rose..... Pkt. \$0 25

Lupinus Polyphyllus

Eastern Queen. Flowers bluish, shaded sky blue, upper petals yellow, shot rose, very beautiful..... 25

Lupinus Polyphyllus

Ophir. Flowers soft blue, with rose lilac, upper petals changing to a purple-red..... 25

Lupinus Polyphyllus

Rosy Gem. Soft rose, passing to a deeper shade..... 25

Lupinus Polyphyllus

The Bride. Soft primrose, shaded delicate rosy peach, pretty..... 25

New Early Blooming Hardy Pansies

This new type of pansy is valuable on account of its hardiness and earliness. If given slight protection they will be found perfectly hardy in this latitude and even further north, beginning to bloom about the end of March. Flowers are very large and have a sweet perfume.

Pkt.

Celestial Queen. Beautiful light blue with yellow eye..... \$0 25

Ice King. Silvery white with dark blue blotches..... 25

March Beauty. Fine dark velvety blue with yellow eye..... 25

Winter Sun. Rich golden yellow with maroon blotches..... 25

Rehmannia angulata

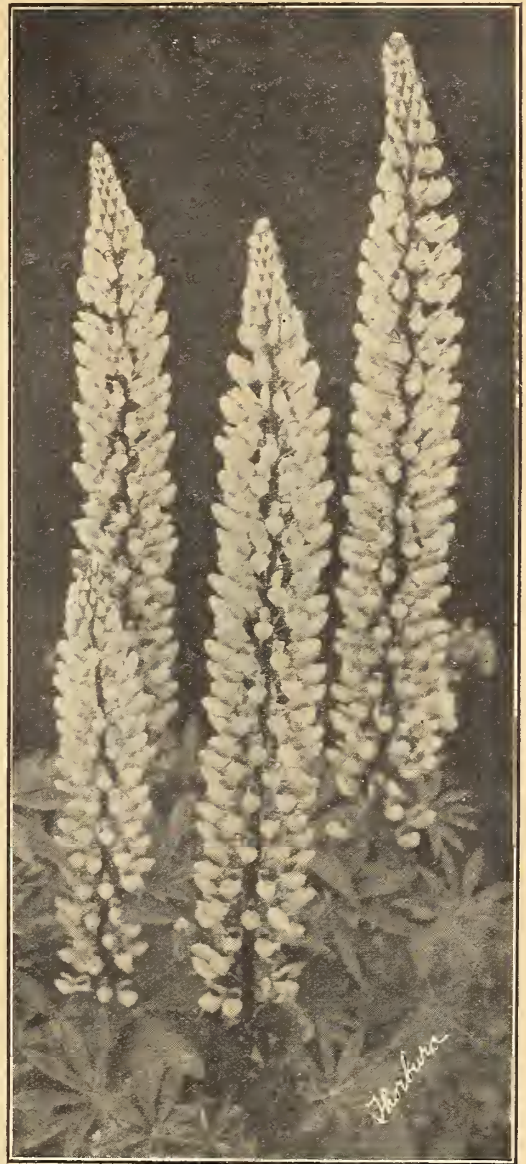
Pink Perfection. Splendid, half hardy, herbaceous perennial for pot culture, or outdoors in sheltered situation. When massed they are very beautiful. Clean, bright pink, with markings on the throat, continuous bloomers..... 40

Nasturtium Lobbianum, Ivy-Leaved, "Emma Alida"

Dark, Ivy-leaf-shaped foliage, with golden yellow and orange to deep scarlet, lacinated flowers; very lively colors. Pkt. 15 cts.

Petunia Hybrida Grandiflora Superbissima "Nana" Selected Mixture

Dwarf Petunia with a high percentage of compact large flowers; colors from dark to light and finely veined in all shades. Pkt. 50 cts.



Lupinus Polyphyllus

Polygonum Orientale

(Persicaria) (Lady's Thumb)

This old-fashioned hardy annual is suitable for backgrounds; pink or greenish purple flowers on short spikes. 1 to 2 feet. Pkt. 15 cts.

Primula Japonica

(The Hardy Japanese Primrose) (Veitch's)

In mixed colors. Primula japonica has, for a generation, been a favorite of those who love the miscellaneous flower border. This mixture comprises every shade of color in primulas. Pkt. 30 cts.

Virginia Poppy (hA)

Papaver Somniferum

This new, large-flowering, single Poppy produces beautiful, large, white flowers with fringed, soft pink edges. They are especially recommended for cut-flowers, for they last long in vases, especially when cut in the morning before they are full blown. Pkt. 15 cts., 2 pkts. 25 cts.

Ricinus Laciniatus

Distinct new variety of Castor-Oil Bean of medium height, with light green, deeply-cut foliage, the elegantly narrow lobes being divided nearly to the stalk. The appearance of the whole plant is very graceful. Pkt. 25 cts.



Ricinus Laciniatus

Salvia Patens

(Veitch's Special Strain)

This particular strain is exceptionally hardy, and has been saved from long established hardy plants. Pkt. 30 cts.

Salvia Splendens, Ostrich-Plume

The most attractive *Salvia* recently introduced, of *Salvia splendens* type; the bush is well covered with beautiful plume, each plume being a bouquet in itself; color brightest scarlet. Pkt. 25 cts.

Extract from one of the numerous unsolicited testimonials we receive:

Miller, South Dakota.

"The seeds you sent us last Spring were simply perfect, and I trust these now ordered will be as good—they could not be better.

Eighty years ago, Elizabeth Dickinson began planting Thorburn seeds. When she passed away, her daughter, Mary Bube, used Thorburn seeds, and now her daughter, Levantia Bard (my wife) will have no other seeds, and our daughter Bess, is a staunch advocate of Thorburn Seeds. Four generations sticking to one brand of flower and vegetable seed is speaking pretty well for their excellence, and rather unusual I think.

JAMES E. BARD."

Stocks

Dresden Perpetual or Branching

"Princess Alice," white, profuse and perpetual-blooming; double white flowers, excellent for cutting. Our strain of this is very fine. See page 123. Pkt. 25 cts.

Yarrawa Sweet Pea

This is a splendid early-flowering Spencer variety, especially valuable for Winter flowering as well as the open ground. The color is rose on first opening, changing as the flower develops to a charming combination of light pink standard and blush wings; of vigorous habit; the flowers are produced on long stiff stems. 54590. Pkt. 25 cts.

Thermopsis Caroliniana

(St. Peter's Staff)

Pretty yellow, Pea-shaped flowers, adapting itself to almost any situation, but succeeding best in a light, rich soil. They are deep rooted plants and endure drought very well. Pkt. 15 cts.

Vinca Delicata

This is the handsomest of all Vincas. Soft, delicate shade of pink in color, very desirable for rockery and shrubbery borders. The plants are quite hardy. Pkt. 15 cts.

Verbena grandiflora, "Helen Willmott"

A very pretty, bright salmon-rose, with white eye. The seed produces plants with flowers, many of which are of the true "Helen Willmott" color, with a percentage of varied shades, which are also very fine both in color and size. Pkt. 25 cts.

New Double semi-dwarf Wallflower

The plants grow 18 inches high, colors ranging from golden yellow to brown and purple. Seed saved from extra selected plants. Pkt. 25 cts.

Zinnia, Double Mammoth-Flowering (hA)

A new and distinct class of this ever-popular flower, producing large, very double blooms, from 4½ to 6 inches in diameter. We offer five distinct colors, viz.: Crimson, Flesh-color, Sulphur-Yellow, Violet and White. Each color and mixed, pkt. 15 cts. Collection of five varieties, one pkt. of each color, 60 cts.

Collections of Vegetable Seeds

Only the choicest sorts are put into these assortments, and they are picked out so as to give a continuous supply of vegetables from your garden all season.

The amount charged for these collections is considerably less than you would pay for the individual seeds, on account of the fact that we are able to put them up during the slack Winter months.

Owing to this, we cannot permit any alterations in the varieties, and the reduced price will not be allowed unless the collection is taken in full and without change.

COLLECTION NO. A, \$1 (Including free delivery)

This collection was gotten up primarily for rather small gardens, such as back-yard gardens and the like.

- | | | |
|---|---|--|
| I pa. Beans , Refugee Green-Pod. | I pa. Cucumber , Imp. White Spine. | 1/2 pt. Peas , Thorburn's Extra-Early Market. |
| I " Beans , Golden Wax. | I " Leek , Best Flag. | I " Radish , Scarlet Turnip. |
| I " Beet , Egyptian. | I " Lettuce , Big Boston. | I " Spinach , Viroflay. |
| I " Cabbage , Early Wakefield. | I " Onion , White Globe. | I " Turnip , Snowball. |
| I " Carrot , Half-Long. | I " Parsley , Extra Curled. | |
| 1/2 pt. Corn , Early Bantam. | | |

COLLECTION NO. 1, \$2.50 (Including free delivery)

Gotten up for a family of two or three persons. It is a rather complete list of varieties.

- | | | |
|---|--|--|
| 1/2 pt. Beans , Refugee Green-Pod. | 1/2 pt. Corn , Cory. | I pa. Onion , White Globe. |
| I " " Golden Wax. | I pa. " Stowell's Evergreen. | I " " Large Red Globe. |
| I pa. Beet , Egyptian. | I " Cucumber , Imp. White Spine. | I " Parsley , Extra Curled. |
| I " " Globe. | I " Eggplant , Imp. N. Y. Purple. | I pt. Peas , Thor. Ex-E'y Market. |
| I " Cabbage , Early Wakefield. | I " Kohlrabi , Early White Vienna | I " " Wrinkled, Our Select'n. |
| I " " Red, for pickling. | I " Leek , Best Flag. | I oz. Radish , Scarlet Turnip. |
| I " Carrot , Half-Long. | I " Lettuce , Big Boston. | I pa. Spinach , Viroflay. |
| I " Cauliflower , Thor. Gilt-Edge. | I " " Cos or Romaine. | I " Tomato , Stone. |
| I " Celery , White Plume. | I " Melon , Long Island Beauty. | I oz. Turnip , Snowball. |
| I " Corn , Early Bantam. | I " Water , Black Spanish. | |

COLLECTION NO. 2, \$5 (Including free delivery)

This assortment is suitable for a family of approximately five persons.

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|---|---|---|
| I pt. Beans , Refugee Green-Pod. | I pt. Corn , Country Gentleman. | I oz. Parsnip , Hollow Crown. |
| I " " Early Valentine. | I " " Metropolitan. | I pt. Peas , Thor. Ex-Er'ly Market. |
| 1/2 " " Stringless Green-Pod. | I " " Stowell's Evergreen. | I " each Peas , Two Best Wrinkled Our Selection. |
| 1/2 " " Challenger Lima. | I oz. Cucumber , Imp. White Spine. | I pa. Pepper , Chinese Giant. |
| I oz. Beet , Eclipse. | I pa. Eggplant , New York Purple. | I oz. Radish , White-tipped. |
| I " " Egyptian. | I " Kohlrabi , Early White Vienna | I " " Scarlet Turnip. |
| I " " Globe. | I " Leek , Best Flag. | I " " Scarlet Globe. |
| I pa. Cabbage , Early Wakefield. | I " Lettuce , Big Boston. | 1/2 " Salsify , Mam. Sa'wich Isl'nd |
| I " " Ballhead. | I " " May King. | 2 oz. Spinach , Viroflay. |
| I " " Thorburn Private | I " " Cos or Romaine. | I pa. Squash , Early Bush Crook-neck. |
| I " " Stock Flat Dutch. | I " " Giant Crystal Head. | I " " Hubbard. |
| I oz. Carrot , Half-Long. | I " Melon , Netted Gem. | I " Tomato , Early June Pink. |
| I " " St. Valery. | I " " Long Island Beauty. | I " " Stone. |
| I pa. Cauliflower , Thor. Gilt-Edge. | I " " Water , Black Spanish. | I " Turnip , Snowball. |
| I " Celery , Giant Pascal. | I oz. Okra , Perkins' Improved. | I " " Golden Ball. |
| I " " White Plume. | I pa. Onion , White Globe. | I " " Thorburn Rutabaga. |
| I " " Fin de Siecle. | 1/2 oz. " Large Red Globe. | |
| 1/2 pt. Corn , Early Bantam. | I pa. Parsley , Extra Curled. | |

COLLECTION NO. 3, \$10 (Including free delivery by express)

Will make an excellent garden for a farm or country estate desiring to put about one acre under cultivation for vegetables.

- | | | |
|---|--|--|
| I pt. Beans , Refugee Green-Pod. | I qt. Corn , Stowell's Evergreen. | 2 oz. Parsnip , Hollow Crown. |
| I " " Early Valentine. | I oz. Corn Salad , Large-seeded. | I qt. Peas , Thor. Ex.-Early Market. |
| I " " Golden Wax. | 2 " Cress or Pepper Grass . | I " each Peas , Three Best Wrinkled, Our Selection. |
| I " " Stringless Green-Pod. | I " Cucumber , Imp. White Spine. | I pa. Pepper , Chinese Giant. |
| I " " Challenger Lima. | I pa. Eggplant , Imp. N. Y. Purple. | I oz. Radish , White-tipped. |
| 2 oz. Beet , Egyptian. | oz. Endive , Green-Curled | I " " Scarlet Turnip. |
| I " " Globe. | " " Broad-leaved. | I " " Scarlet Globe. |
| 2 " " Half-Long. | I " Kohlrabi , Early White Vienna | I " " Chinese Winter. |
| I pa. Brussels Sprouts , Dalkeith. | I pa. Leek , Best Flag. | 2 ozs. Salsify , Mammoth Sandwich Island. |
| oz. Cabbage , Early Wakefield. | oz. Lettuce , Big Boston. | 1/4 lb. Spinach , Viroflay. |
| " " Thorburn Private | " " May King. | I oz. Squash , E'y Bush Cr'kneck. |
| " " Stock Flat Dutch. | " " Cos or Romaine. | I pa. " Hubbard. |
| I " Carrot , Early French Forcing. | " " Giant Crystal Head. | I oz. " Boston Marrow. |
| I pa. Cauliflower , Thor. Gilt-Edge. | I pa. Melon , Long Island Beauty. | I pa. Tomato , Early June Pink. |
| I " " Thor. Snowball. | I " " Netted Gem. | I " " Stone. |
| 1/2 oz. Celery , Fin de Siecle | I " " Water , Black Spanish. | I oz. Turnip , Thorburn Rutabaga. |
| " " White Plume. | 2 oz. Okra , Perkins' Improved. | I " " Snowball. |
| I pa. " Golden Self-blanching | I " Onion , Yellow Danvers. | I " " Golden Ball |
| I pt. Corn , Early Bantam. | I " " Large Red Globe. | I " " Thorburn Rutabaga. |
| I " " Cory. | I " " White Globe. | I " " Golden Ball |
| I " " Country Gentleman. | I " Parsley , Extra Curled. | I pa. each Herbs , Five Varieties. |

COLLECTION OF VEGETABLE SEEDS—Continued

COLLECTION NO. 4, \$19 (Including free delivery by express)

If your needs require quite a quantity of fresh vegetables, and you have around three acres that you wish made into a garden, you could not do better than to buy this collection. There are quite a number of private estates and farms that are now doing away with the trouble of going through lengthy lists of vegetables suitable to their needs, and are leaving the matter to our judgment. This collection represents our recommendation as to just what should be used, with the exact quantities for planting approximately three acres, and getting the most out of the land.

<p>1 qt. Beans, Refugee Green-Pod. 1 " " Early Valentine. 1 pt. " Stringless Green-Pod. 1 " " Challenger Lima. 4 oz. Beet, Eclipse. 4 " " Egyptian. 4 " " Globe. 4 " " Half-Long. 1 1/2 " Brussels Sprouts, Dalkeith. 1 1/2 " Cabbage, Early Wakefield. 1 1/2 " " Savoy, Early. 1 1/2 " " Thorburn Private Stock Flat Dutch. 4 " Carrot, Early French Forcing. 4 " " Half-Long. 4 " " Long Orange. 1 1/4 " Cauliflower, Thorburn Gilt-Edge. 1 pa. " Thor. Snowball. 1 oz. Celery, Fin de Siecle. 1 " " White Plume. 1 1/2 " " Golden Self-blanching. 1 qt. Corn, Early Bantam. 1 " " Cory.</p>	<p>2 qts. Corn, Country Gentleman. 2 " " Metropolitan. 2 " " Stowell's Evergreen. 1 oz. Cucumber, Imp. Long Green 2 " " Imp. White Spine 1 1/2 " Eggplant, Imp. N. Y. Purple. 1 " Endive, Green Curled. 1 " " Broad-leaved. 1 " Kohlrabi, Early White Vienna 1 " Leek, Best Flag. 1 " Lettuce, Big Boston. 1 " " Cos or Romaine. 1 " " E'y-Curled Simpson. 1 " " Giant Crystal Head. 2 ozs. Melon, Netteed Gem. 2 " " Long Island Beauty. 2 " " Water, Black Spanish 4 " Okra, Perkins' Improved. 2 " Onion, Yellow Danvers. 2 " " White Globe. 2 " " Large Red Globe. 2 " Parsley, Extra Curled. 4 " Parsnip, Hollow Crown. 1 qt. Peas, Thor. Ex.-E'y Market.</p>	<p>6 qts. Peas, Three Best Wrinkled. Our Selection. 1/2 oz. Pepper, Chinese Giant. 1/4 lb. Pumpkin, White Cushaw, or Jonathan. 4 ozs. Radish, White-tipped. 4 " " Scarlet Turnip. 4 " " Scarlet Globe. 4 " Salsify, Mammoth Sandwich Island. 1/2 lb. Spinach, New Zeal. Summer. 1/2 " " Viroflay. 1 oz. Squash, E'y Bush Crookneck. 1 " " Hubbard. 1 " " Boston Marrow. 1/2 " Tomato, Early June Pink. 1/2 " " Stone. 1 pa. " Beauty. 2 ozs. Turnip, Snowball. 2 " " Golden Ball. 2 " " Thorburn Rutabaga 1 pa. each Herbs, Five varieties.</p>
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CHOICE COLLECTIONS OF FLOWER SEEDS

(FREE BY MAIL)

Collection of 12 varieties of Dwarf Annuals, 1 packet each, as follows.....93000 50 cts.

Asters, Mixed	Larkspur, Dwarf Rocket, Mixed	Phlox Drummondii, Mixed
Candytuft, Mixed	Marigold, Dwarf French, Mixed	Portulaca, Single, Mixed
Convolvulus, Dwarf, Mixed	Mignonette	Sweet Alyssum
Eschscholtzia, Mixed	Naturtium, Dwarf, Mixed	Zinnia, Dwarf, Mixed

Collection of 12 varieties of Tall Annuals, 1 packet each, as follows.....93020 50 cts.

Centaurea cyanus, Mixed	Larkspur, Tall Rocket, Mixed	Poppy, Mixed
Clarkia, Mixed	Lupinus, Mixed	Scabiosa, Tall, Mixed
Collinsia, Mixed	Marigold, African, Mixed	Sunflower
Cosmos, Mixed	Malope, Mixed	Zinnia, Tall, Mixed

Collection of 24 varieties of Annuals, 1 packet each, all carefully selected in pictorial pkts..93050 \$1

Collection of 12 varieties of Dwarf Perennials, 1 packet each, as follows.....93080 \$1

Alsine pinifolia	Candytuft gibraltarica	Lychnis Haageana Hybrids
Alyssum saxatile compactum	Daisy, Double, Mixed	Pinks, Mixed
Arabis alpina	Gypsophila	Primrose, Yellow
Campanula grand. Mariesii	Leontopodium (Edelweiss)	Snapdragon, Dwarf, Mixed

Collection of 12 varieties of Tall Perennials, 1 packet each, as follows.....93120 85 cts.

Aquilegia, Mixed	Foxglove	Phlox decussata
Centaurea candidissima	Gaillardia	Poppy, orientale
Coreopsis	Galega	Scabiosa caucasica
Delphinium, Mixed	Lupinus polyphyllus	Sweet William

Collection of 12 varieties of Everlastings, 1 packet each.....93140 50 cts.

Collection of 12 varieties of Greenhouse Seeds, 1 packet each, as follows.....93180 \$2

Asparagus plumosus nanus	Coleus, Fine Hybrids	Musk Plant
Begonias, Single, Tuberous-rooted	Cyclamen giganteum, Mixed	Primula chinensis fimbriata, Extra-fine Mixed
Cineraria hybrida, Mixed	Heliotrope	Smilax
Calceolaria hybrida, Large-flowered, Self-colored	Primula obconica grandiflora hybrida, Mixed	Stevia serrata

Collection of 12 varieties of Annuals for Bees, 1 packet each.....93200 50 cts.

Vegetable Seeds

Please notice that we pay postage or express charges on all garden seeds ordered by the packet, ounce and quarter-pound. If larger quantities are ordered to be sent by mail, add postage at zone rates.

See pages 11 and 12 of this Catalogue for COMPLETE COLLECTIONS OF VEGETABLE SEEDS of approved and choice sorts for from \$1 to \$19, and page 12 for CHOICE COLLECTIONS OF FLOWER SEEDS.

ARTICHOKE

ARTICHAUT

Alcachofa

Artichoke

CULTURE.—Deep, rich, sandy loam with plenty of well-rotted manure. Sow seeds in April or May, and when plants are large enough, transplant into rows 3 to 4 feet apart and 2 feet in the rows. They reach maturity the second year. When cold weather sets in, bank the earth to the top, first cutting off and tying up the leaves so that they will occupy less space, and in the spring fork in a dressing of manure. Artichoke may also be treated as an annual by sowing the seed in hotbeds during February and transplanting in May. The heads should be cut off and used as they get ready. If left to ripen on the plant, they will exhaust it, and no more will be produced that season. Heads are unfit for culinary purposes after the flowers expand.



Colossal Asparagus

French Green Globe. (Seed.) The standard sort. **110** Pkt. Oz. ¼ lb. \$0.15 \$0.60 \$2.00
French Purple Globe. **120** 15 60 2.00
Jerusalem Artichoke Roots. Qt. 25 cts.
FRENCH GLOBE ARTICHOKE ROOTS. (Ready in April.) Extra large, strong roots, from selected plants,—not seedling plants, which rarely come true. 25 cts. each, \$2.50 per doz.

ASPARAGUS

ASPERGES

Esparrago

Spargel

CULTURE.—Sow the seed thinly in rows 1 foot apart in April or May (4 or 5 lbs. to the acre), and keep down all weeds. To secure strong, healthy plants, thin the seedlings to 3 or 4 inches in the rows, saving only the strongest. The one-year-old plants should be set out in spring in rich, sandy loam, dug 18 inches deep, into which has been worked plenty of well-rotted manure. If a stiff clay soil is all that can be had, add plenty of sand and sifted coal-ashes to loosen it up, and also see that it is well underdrained. In planting for private use, set out in beds 5 feet wide, three rows in a bed, the outer being each 1 foot from the edge, and allow 18 inches between the rows; set the plants from 4 to 6 inches below the surface. If set out in autumn, top-dress with 6 inches of manure. For market, on a large scale, set out 4 by 1½ feet. Every fall apply a good dressing of coarse manure, after the tops have been cut, and in spring fork in. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. Slugs are easily destroyed by applying air-slaked lime or paris green. *Asparagus from seed does not always come true to name.*

Colossal. The approved standard sort. The famous **170** Oz. ¼ lb. Lb. \$0 10 \$0 15 \$0 40
Argenteuil of the French is identical with it.
Palmetto. Of southern origin; a very desirable, bright green Asparagus. **180** 10 15 40
Bonvalette's Giant. An improved Palmetto, said to produce larger stalks. **190** 10 25 75
Columbian Mammoth. Very large shoots. **200** 10 25 75
Giant Argenteuil. Popular variety in France, similar to Colossal, but larger stalks **210** 10 25 75

All 5 cts. per packet.

ASPARAGUS ROOTS

Plant either in spring or fall

		50	100	1000
Colossal.	2-year-old roots.....	\$0 60	\$1 00	\$8 00
"	3-year-old roots.....	1 00	1 50	
"	4-year-old roots. For forcing.....	1 25	2 00	
Columbian Mammoth.	2-year-old roots.....	60	1 00	8 00
Barr's Mammoth.	2-year-old roots.....	60	1 00	8 00
Giant Argenteuil.	2-year-old roots.....	60	1 00	8 00
Palmetto.	2-year-old roots.....	60	1 00	8 00

In France a business is now made of growing small, green, delicate shoots of Asparagus during the winter. Strong roots may be forced in hotbeds out-of-doors. They should be packed closely into the frames, and by making a new bed every five or six weeks these tiny shoots may be had all winter and are valuable served with omelets, green peas, etc.

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

BEANS

As a farinaceous food for man, the Bean is considered far superior to any other legume, and next in importance to wheat. The modern varieties leave little to be desired; the great care given to their improvement has resulted in superior sorts, greatly extending the season of use, as well as varying the flavor.

CULTURE.—About the first of May, if the ground is perfectly warm, select a warm, dry, sheltered spot, dig and manure slightly; make drills 2 inches deep and 18 inches to 2 feet apart; drop the Beans 3 inches apart in the drills, and cover not more than 2 inches deep. Hoe well in dry weather to keep down the weeds. Sow every two weeks for a succession. One quart to 100 feet of drill; one bushel to the acre, in drills.

DWARF GREEN-PODDED SNAP BEANS

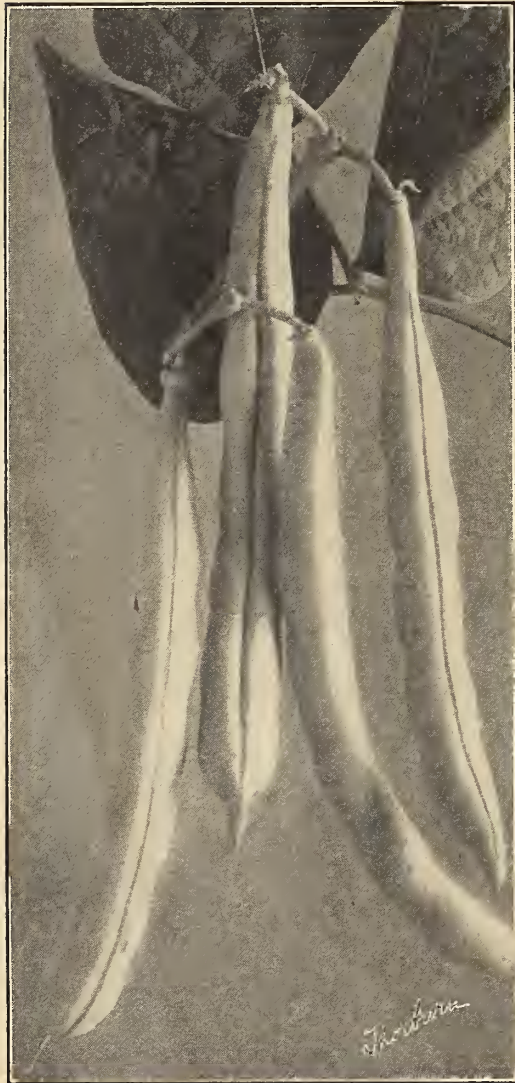
HARICOTS NAINS

Frijoles

Krup-Bohnen

We supply packets of all Green-podded Snap Beans at 10 cts. each, postpaid, except where quoted otherwise; other quantities NOT prepaid; add postage at zone rate 1 lb. per pint, 2 lbs. per quart

Thorburn's Earliest of All. New stringless, (See Novelties) . . . ½ Pint pkt. 25 cts. Pt. Qt. ½ pk.
Bountiful. Extra early, very prolific and long-bearing; flat, green pods, tender and stringless 310 \$0 35 \$0 60 \$2 00



Thorburn's Extra Early Refugee Beans

China. White, pink eye; early and bears long, flat pods	314	35	60	2 00
Dark Dun. Liver color; stringless. (See also Novelties)	316	50		
Dwarf Horticultural. Late and productive; broad, flat, stringless pods	320	35	60	2 00
Full Measure. Large, round pods, firm, tender, sweet and entirely stringless. Fine shipper and keeper	340	35	60	2 00
Goddard, Improved (Boston Favorite). Long, flat pods; stringless; very prolific; late. Can also be used as a shell Bean	360	35	60	2 00
Green-seeded Flageolet. Used as a <i>shell Bean</i> when green for many exquisite French dishes, also good as a string Bean. Beans tender and of fine flavor	370	25	40	1 50
Longfellow. Long, straight, round, solid, green pods; very early	390	35	60	2 00
Low's Champion. Large, flat pods, stringless; fine flavor; early	400	35	60	2 00
Marvel of Paris. Long slender flat pods, early, very productive	410	40	75	2 50
Mohawk. Long, flat, straight pods; early, very productive	420	30	50	1 75
Refugee Late, or 1,000-to-1. Medium to late, productive and tender; round pods	440	30	50	1 75
Refugee, Thorburn Extra-Early. Has all the superior qualities of the famous Refugee, and is fully two weeks earlier in podding. Beans extra fine and borne profusely	450	30	50	1 75

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

DWARF GREEN-PODDED SNAP BEANS—Continued

	Pt.	Qt.	½ pk.
Refugee, Stringless. Stringless at all stages of development.....	470	\$0 35	\$0 60 \$2 00
Six-Weeks, Long Yellow. Early; full, flat pods.....	480	35	60 2 00
Six-Weeks, Round Yellow. Full, green, roundish pods; early and productive; fine flavor.....	485	35	60 2 00
Stringless Green-Pod. Extra early; stringless; prolific; round pods.....	490	35	60 2 25
Stringless Green-Pod Giant. Improved long-podded strain of above.....	500	35	60 2 25
Masterpiece (Suttons) a superior green round-podded variety, very prolific, long, straight, stringless pods; very early, fine forcer. (See also Novelties).....	510	50	85 3 25
Valentine, Extra-Early. Round, thick, solid pods; tender; fine flavor.....	520	30	50 1 75
Valentine, Black. Resembles the Valentine, but with black seed; long, round, solid pods; very tender and of good flavor; very early.....	540	30	50 1 75

ENGLISH DWARF BEANS

FEVE DE MARIAS

Haba

Große Bohnen

CULTURE.—Sow in drills 2 feet apart, as early in the spring as the ground can be worked (these are as hardy as peas), in order to get them into pod before the heat of summer. When in pod, break off the top of the plant to check the growth. Plant and hoe the same as for Dwarf Beans. A strong soil suits them best.

Properly cooked, these Beans form one of the most delicious vegetables. To each half gallon of water allow one heaped tablespoonful of salt. The Beans should be young and freshly gathered. After shelling, put them into boiling water, salted as above. Boil rapidly for fifteen or twenty minutes, then serve with a sauce of parsley and butter. Boiled bacon is often served with the Beans.

	Pt.	Qt.	½ pk.
Broad Windsor. Largest and best of the class.....	650	\$0 25	\$0 40 \$1 50
Mazagan. Earliest of the class.....	660	25	35 1 50
Sword Long Pod. A size smaller than Windsor.....	670	25	40 1 50

DWARF WAX BEANS

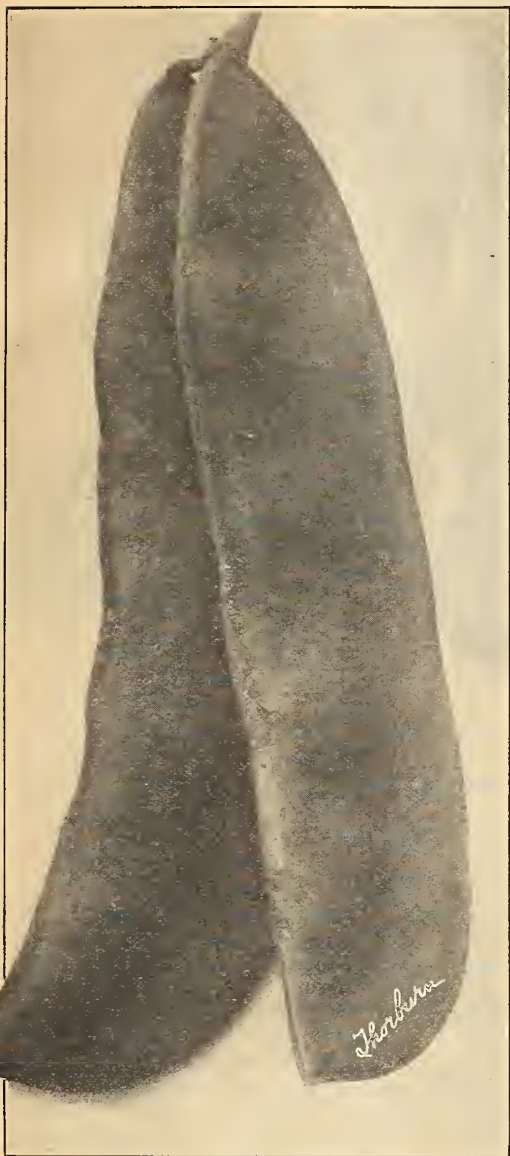
We supply packets of all Dwarf Wax Beans at 10 cts. each, postpaid; other quantities NOT pre-paid; add postage at zone rate 1 lb. per pint, 2 lbs. per quart

	Pt.	Qt.	½ pk.
Black Wax, Improved Prolific. Very early and prolific. The pods are round, full, stringless and of fine quality.....	750	\$0 35	\$0 60 \$2 00
Black Wax, Currie's Rust-proof. Flat pods; early; productive.....	770	35	60 2 00
Black Wax, Pencil-Pod. Slender, long, round pods.....	780	35	60 2 00
Davis Kidney Wax. Long, handsome, waxy white, flat pods.....	790	40	70 2 25
Detroit Wax. Very much like Golden Wax; flat pods.....	792	35	60 2 00
Golden Wax, Improved. Very early; flat pods; stringless; prolific.....	800	35	60 2 00
Golden-eyed Wax. Hardy and prolific; flat, yellow pods; early and free from rust.....	820	30	50 1 75
Hodson Wax. Very large, brittle and tender wax pods; enormously productive; late.....	830	30	50 1 75



Stringless Green Pod

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Carpinteria Pole Lima Beans

POLE, or RUNNING BEANS

HARICOTS A RAMES *Frijoles de Bejuco*
Stangen-Bohnen

We supply packets of Pole Beans at 10 cts. each, postpaid; other quantities NOT prepaid; add postage at zone rate 1 lb. per pint, 2 lbs. per quart.

CULTURE.—Sow as the soil becomes warm and dry, from the first part of May (for all except Limas) to the latter part of May, in hills 4 feet apart each way. Limas should not be planted until warm weather has fairly set in. One quart of Limas will plant about 100 hills, allowing four or five Beans to a hill and of the smaller sorts, about 200 hills. Poles 8 to 10 feet long should be firmly set in the hills before planting seed.

Pt. Qt. ¼ pk.

LIMA THORBURN'S CHALLENGER.
Thick and productive;
best of all.....1200 \$0 25 \$0 45 \$1 50

Carpinteria Pole. Large; thicker than ordinary Pole Limas; vigorous grower. Very large flat beans.....1204 25 45 1 50

Giant Podded. Very large Pods, immense yielder, very large Beans of fine flavor...1206 25 45 1 50

Ideal Pole. Large, tender and of fine flavor; productive; like Large White Lima.....1210 25 45 1 50

Early Jersey. Very early; Beans large and tender and average three to a pod.....1214 25 45 1 50

King of the Garden. Large in pod and Bean, late.....1230 25 45 1 50

Leviathan. Early, very prolific and of excellent quality.....1235 25 45 1 50

Siebert's Early. Very early; immense yielder; large-sized Beans, finest quality.....1240 25 45 1 50

Small Sieva or Carolina.
Early.....1250 25 45 1 50

Black German Wax. Yellow pods.....1260 30 50 1 75

Dutch Case-Knife. Pods long, green and flat; can be either snapped or shelled...1270 25 45 1 50

Golden Cluster Improved Wax. Long, golden yellow pods in clusters.....1300 30 50 1 75

Kentucky Wonder (Old Homestead). Pods green; very long and flat; exceedingly prolific.....1310 30 50 1 75

Kentucky Wonder. White Seed.....1314 30 50 1 75

" " Golden Wax Pod.....1320 30 50 1 75

Lazy Wife Pole. Long green pods of good quality, white beans.....1330 30 50 1 75

Scarlet Runner. The popular English Pole Bean, good for string Beans and ornamental.....1340 30 50

Southern Creaseback. Long, round, stringless pods; fleshy, tender and of good flavor.....1350 25 45 1 50

Yard-Long French......Per lb. 75 cts. 1390

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Crimson Globe Beet

BEET

BETTERAVE

Remolacha

Salatrübe

CULTURE.—Sow as early in the spring as the ground can be worked (one ounce to 50 feet of drill, five or six pounds to the acre), and every two weeks after for a succession up to the first week of July. For general crop, sow about the middle of May. The soil should be light, sandy loam, well enriched with stable manure and plowed and harrowed until very fine. Sow in drills 1 foot to 15 inches apart, and when well up, thin to from 4 to 6 inches. The young Beets with their tops, pulled out of the row, are excellent used as a spinach. For this purpose, sow frequently and use when of the size of a hickory nut.

	Oz.	¼ lb.	Lb.
Bassano. Early; light color; good sort.....	1500	\$0 10	\$0 30 \$1 00
Crimson Globe. Globular shape; flesh rich, deep crimson; tender and sweet. . .	1520	15	40 1 25
Detroit Dark Red Turnip. Round; skin dark blood-red; flesh bright red. . . .	1540	15	40 1 25
Dewing Early. Of fine form and flavor; good for market.	1550	10	30 1 00
Early Blood Turnip. Dark red; fine flavor; good for winter.	1560	10	30 1 00
Eclipse. Early; round; bright red.	1570	10	30 1 00
Edmand Blood Turnip. A market-gardeners' strain; regular in shape and of best quality.	1580	10	30 1 00
Egyptian. Extra early; flat.	1590	10	30 1 00
Egyptian, Crosby's. Extra early; round; dark blood-color.	1600	15	40 1 25
Half-Long Blood. Fine dark strain for winter.	1610	10	30 1 00
Long Smooth Blood. (Out of ground.) A good late variety for winter.	1620	10	30 1 00
Model Red Globe. Early and smooth; very dark red; splendid sort.	1635	15	40 1 25
Trevis (Columbia). Red; early; flat; tender. Fine sort for table.	1644	15	40 1 25
Witham Fireball. Brilliant red flesh, solid, sweet and crisp; fine quality; globe-shaped; very early.	1650	15	40 1 25
Swiss Chard, or Silver Beet. To be used same as spinach (see page 44).	1690	15	40 1 25
Swiss Chard, or Silver Beet, Lucullus. Large leaves; tender and of fine flavor, dark green; pure white ribs (see page 44).	1700	15	50 1 50

All 5 cents per packet.

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

MANGEL-WURZEL AND SUGAR BEET Runkelrüben

CULTURE.—As all Mangels require a deep soil in order to grow well, plow and subsoil at least 1 foot to 18 inches and apply plenty of rich stable or Thorburn's Complete Manure. Sow in May or June, in rows 18 inches to 2 feet apart, and thin to 8 inches in the rows. Young plants may be transplanted to fill up vacancies. Sow in addition, when the plants are 3 to 4 inches high, at the rate of 200 pounds of Complete Manure, 200 pounds of bone meal and 400 pounds of salt to the acre. As soon as frost occurs, dig the crop. In order to be well preserved for gradual consumption during the winter, the Roots should be heaped to a height of perhaps 6 feet, on a dry, sloping situation; cover at first with a piece of canvas, and as the cold increases, this should be replaced by about 6 inches of either salt hay, straw, seaweed or corn-stalks, with a light layer of earth on top. As soon as this surface soil becomes frozen, about 6 to 8 inches more of earth should be placed over it. By following up this gradual process of covering, all danger of heating will be obviated, and the roots will keep in perfect order. *Sow from five to eight pounds to the acre.*

MANGEL-WURZEL

Giant Half-Sugar Red-skinned. Longish ovoid red skin; white flesh; crisp and fine.....	1850	Oz. \$0 10	¼ lb. \$0 25	Lb. \$0 60
Giant Yellow Intermediate. Very large.....	1860	10	25	60
Golden Tankard Mangel-Wurzel.				
Large; bright yellow skin; handsome, sweet and productive....	1870	10	20	50
Golden Globe. Productive.....	1874	10	25	75
Mammoth Long Red Mangel-Wurzel. Very large; enormously productive under careful culture.....				
	1910	10	20	50
Yellow Ovoid. Of distinct shape; one of the most productive sorts; flesh white tender and sweet..				
	1950	10	15	40

SUGAR BEET

We recommend five to ten pounds to the acre.

White, Rose-Top	2020	Oz. \$0 10	¼ lb. \$0 15	Lb. \$0 40
White, Green-Top	2030	10	15	40
Lane's Imperial	2040	10	15	40

BORAGE BOURRACHE *Borraja* Borretsch

The young leaves of this annual, which smell somewhat like a cucumber, are used as a salad, or boiled like spinach. Should be sown at intervals, as the leaves are palatable only when young. Sow in the spring, in light soil; transplant in shallow drills, a foot apart, when of six weeks growth. 240. Pkt. 5c., oz. 15c., ¼ lb. 40c., lb. \$1.50.

BROCCOLI BROCCOLI *Brocoli* Spargelkohl

CULTURE—Sow early sorts as soon as the ground can be worked in the spring, in shallow drills, drawn 3 or 4 inches apart. Plant out 2 feet apart each way when the plants are about 4 inches high. Cultivate the same as cabbage, in rich soil, and use the same remedies for insect attacks. The following are sorts best adapted to this climate; they are excellent and deserve much wider culture than is usual in this country.

Early White	2100	Oz. \$0 30	¼ lb. \$0 85	Lb. \$3 00
Mammoth White	2110	30	85	3 00
Purple Cape Early	2120	30	85	3 00
Veitch's Self Protecting	2130	30	85	3 00

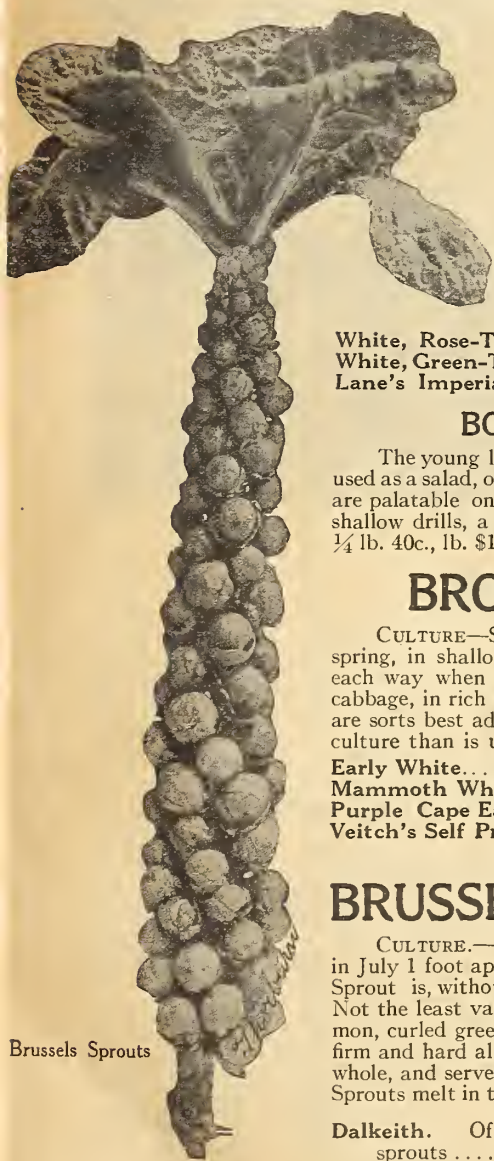
10 cents per packet

BRUSSELS SPROUTS CHOU DE BRUXELLES *Berza de Brusels* Rosentohl

CULTURE.—Sow in May, in the same manner as cauliflower, and transplant in July 1 foot apart in the rows which should be 1½ feet apart. The Brussels Sprout is, without exception, the very best winter vegetable that can be grown. Not the least valuable point connected with it is that it is as hardy as the common, curled greens. The real Sprout is not much larger than a marble, and as firm and hard almost as the stalk itself. Strip off the outer covering, cook them whole, and serve them in that fashion. When cooked through and no more, such Sprouts melt in the mouth like the tenderest cauliflower, and are equally good.

Dalkeith. Of dwarf growth, producing large, solid sprouts.....	2190	Oz. \$0 35	¼ lb. \$1 00	Lb. \$3 50
		pkt. 10 cts.		

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Brussels Sprouts



Thorburn's Gilt-Edge Cauliflower

CAULIFLOWER

CHOU-FLEUR

Coliflor

Blumenkohl

CULTURE.—The same as for cabbage except that extra manure and plenty of water will pay upon Cauliflower. If the soil be dry, water frequently, and, if the plants have a heavy mulch of hay or straw, it will keep the soil moist, and they will not suffer from drought. The early kinds should be strong enough to plant out not later than the middle of April; the late kinds may be planted out the same time as cabbage.

Thorburn's Extra Early Dwarf Erfurt. The best and earliest for forcing; very dwarf and compact, with short stem and small leaves. The curd is very tender and exceedingly fine-flavored. Should not be confounded with entirely different sorts advertised.....	pkt. 50c	2250	\$6	00
Large Early Erfurt. (Thorburn Selection.) Justly popular with market-gardeners for late crop	pkt. 25c	2260	2 25	\$8 00 \$30 00
THORBURN'S GILT-EDGE. Large, heavy sort, maturing immediately after our <i>Large Snowball</i> . Best of all. See <i>Novelties</i>	pkt. 25c	2270	2 50	9 00 34 00
Thorburn's Extra-Early Snowball. Our strain of this popular variety is unequalled. It is one of the best for forcing under glass or for open ground	pkt. 25c	2280	2 25	8 00 30 00
Thorburn's Large Early Snowball. A large strain of the above.....	pkt. 25c	2290	2 25	8 00 30 00
Danish Giant, or Dry Weather. Later than Early Erfurt, pure white and of fine quality said to be less affected by drought than any other variety.....	pkt. 25c	2295	1 50	
Denmark. On the style of Large Erfurt; very fine.....	pkt. 25c	2300	2 00	7 50 28 00
Lenormand Short-Stem. Has very large heads; white and firm.....	pkt. 10c	2320	75	2 25 8 00
Large Algiers. Market-gardeners popular late sort for the South.....	pkt. 10c	2330	75	2 25 8 00
Thorburn's Nonpareil. A first-class standard sort.....	pkt. 10c	2340	60	2 00 7 00
Early London. Large and hardy.....	pkt. 10c	2350	45	1 35 4 50
Autumn Giant. Vigorous in growth; very large; late.....	pkt. 10c	2360	45	1 35 4 50

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Thorburn's Early Jersey Wakefield Cabbage

CABBAGE

CHOU

Berza de repollo

Рапш

CULTURE.—Soil for Cabbage should be rich and heavy loam, with good drainage. On such a soil, with an abundance of stable or Thorburn's Complete Manure, excellent crops are sure to be grown. For early spring, sow in fall not too early, for the plants are liable to bolt in the spring, instead of heading. In a month the plants will be fit to transplant to coldframes, where they are wintered, taking care in planting to set the young plants down to the first leaves. Transplant in spring as soon as the ground can be worked, setting the plants 2 feet apart one way and from 12 to 18 inches the other, according to the variety. If it is desirable to economize space, lettuce, or radish may be sown between the rows, as they will be out of the way before the Cabbage needs the room. For late or winter crop, the seed is sown in May, and the plants set out in July. In this case, they are set in rows 2 by 3 feet, so as to work them with a horse and cultivator. To destroy the green worm, an experienced grower says: "Take one ounce of saltpeter and dissolve it in twelve quarts of water; then take a short-handled whisk-broom dip it in the solution and sprinkle the plants well. One application is sufficient unless the stuff is washed off by heavy rains. The liquid being perfectly clear, never colors the cauliflower or Cabbage heads." To prevent the turnip flea attacking the young plants, sift fine air-slaked lime or tobacco dust over them as soon as they appear above ground

		Oz.	¼ lb.	Lb.
Autumn King. Large flat heads, fine quality and good keeper for winter.	2380	\$0 30	\$0 85	\$3 00
Early Etampes. A fine, extra early, small, French sort with pointed heads.	2405	20	60	2 00
Early Spring. Flat, extra-early; medium size.	2410	20	60	2 00
Early York. The standard English sort. Splendid.	pkt. 5c 2420	15	35	1 25
Large Early York. Larger than the above. Splendid.	pkt. 5c 2430	15	35	1 25
EARLY JERSEY WAKEFIELD, THORBURN'S. The most popular early variety; heads very solid, pyramidal shape. <i>See Novelties</i>	2460	30	85	3 00
Charleston Wakefield. Large strain of the above.	2464	25	75	2 50
Enkhuizen Glory. Large, early, white, solid, ball-shaped heads.	2470	25	75	2 50
Early Flat Dutch. For forcing or for general crop.	2475	25	75	2 50
Early Winnigstadt. A standard second-early variety; very hard heads. A valuable market Cabbage.	pkt. 10c 2484	25	75	2 50
Early Summer. Second-early; produces large, solid heads of finest quality and of fine flavor.	2490	20	60	2 00

All 10 cents per packet except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

CABBAGE—Continued

	Oz.	¼ lb.	Lb.
Fottler's Brunswick. Of dwarf, compact growth; hard and solid heads. Good for both intermediate and winter use.....	2500	\$0 25	\$0 75 \$2 50
Succession Improved. Excellent second-early sort; large, solid heads; very popular second crop.....	2520	30	85 3 00
Large Late Flat Dutch. A valuable sort for market. One of the best-known winter Cabbages.....	2540	20	60 2 00
Thorburn Market-Gardener's Private Stock Flat Dutch. Fine strain of the immense winter Cabbage grown on Long Island for market. Of the finest quality and flavor.....	2560	30	85 3 00
Danish Ballhead Winter, Short Stem. Very round, solid winter sort, largely grown in Denmark for the London market. A fine shipper.....	2580	25	65 2 25
Red Dutch. Popular pickling variety; large heads of finest quality.....	2610	25	75 2 50
Red Zenith. Very fine, dark red, solid head, medium early, finest of all.....	2620	30	85 3 00
Savoy, Early Ulm. Medium size, round, deep green head; very early.....	2640	30	85 3 00
" Late Drumhead. Large, late, finely curled.....	2650	20	60 2 00
Chinese (Pe-Tsai) Expected.....	2660	30	85 3 00

All 10 cents per packet except where quoted otherwise

CARDOON

CARDOON

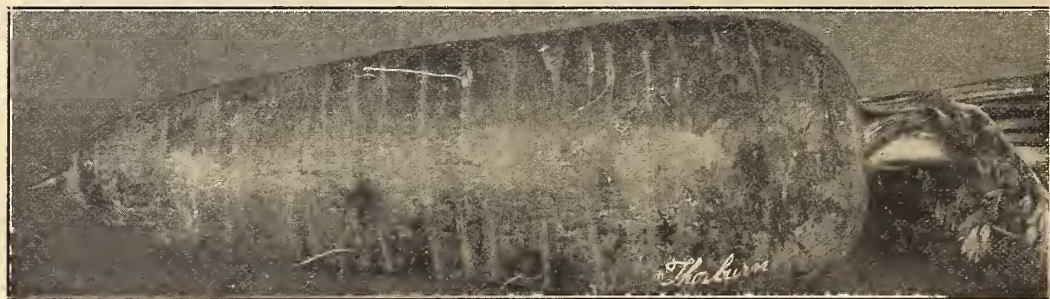
Cardo

Cardon

CULTURE.—Sow early in spring, in rows where the plants are to stand, and thin them to 2 feet apart. When full size, bind them together with bast or raffia, and earth up like celery to blanch. The stems of the leaves are used for salads, soups and stews. The stems should be wintered in a cellar away from frost.

Large Solid. Smooth; grows about 4 feet high; leaves nearly free from spines

	Oz.	¼ lb.	Lb.
pkt. 10c 2770	\$0 25	\$0 60	\$2 00



Chantenay Carrot

CARROT

CAROTTE

Zanahoria

Möhren

CULTURE.—Sow No. 2890 as early as the ground can be worked; or, for late crop, until the latter part of July, or early in August for a winter crop. This is the finest and most tender for table use. For main crop sow other sorts from middle of May to the first of July. Thin out early crop to 5 inches in the row, main crop, 6 to 7 inches, the rows 10 inches apart for early crop, 14 for main crop. Hoe often and deeply between the rows. Soil should be light and loamy, richly manured and deeply dug. Sow at the rate of two to three pounds to the acre; one ounce to 100 feet to drill. Carrot-tops cut from fairly young plants may be used for pretty indoor greenery. Put one cutting into each thumb-pot, or three or four into a larger pot around the sides. Fairly good and sandy soil should be used, syringing frequently until growth is well forward. About 1 inch of Carrot should be left to put in soil, but this should be surrounded with soil or moss to hide it. When fully grown it is very pretty, the long fronds hanging over gracefully.

	Oz.	¼ lb.	Lb.
Parisian Forcing, Early. Tender and sweet; fine for early and late crops and for frames.....	2890	\$0 25	\$0 75 \$2 50
pkt. 10c.....			
Oxheart Half-Short (Guerande). Very thick and short.....	2920	15	50 1 50
Scarlet Horn, Early. Very thick roots; fine for frames.....	2930	15	50 1 50
Half-Long, Stump-rooted, Nantes Strain. One of the most popular sorts.....	2970	20	50 1 75
Chantenay, Half-Long, Stump-rooted. Style of Nantes, broader shoulder.....	2990	15	50 1 50
Danvers Half-Long. Large; of good quality; productive.....	3020	15	50 1 50
St. Valery. A thick, intermediate long red.....	3030	15	50 1 50
Long Orange. Best for stock-feeding.....	3040	15	50 1 50
Long White Belgian. Very large; one of the best varieties for stock.....	3070	10	25 75

All 5 cents per packet except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

CELERY

CELERI

Apios

Sellerie

CULTURE.—Sow the seed in a light, rich, dry border as early as the ground can be worked, in drills 8 to 10 inches apart, and cover the seeds about a quarter of an inch deep, rolling or treading them in if the ground be dry. When fairly out of the seed-leaf, they may be transplanted to another bed, or they may be thinned out to 6 or 8 inches apart, and let grow until wanted to plant out in beds or trenches. The beds should be kept well weeded, and an occasional soaking with water in dry weather will do the plants good. Early in July in the North, a month or six weeks later in the southern states is the proper time to set the plants out in beds or trenches. Press the soil firmly against the roots. In the garden the better way is to set the plants in shallow trenches. We say shallow for it is obviously a bad plan to remove all the good soil (as must be done in a deep trench) and put the plants in that which is poor. The plants must be set in a single row in a narrow trench; or the trench may be made into a bed wide enough to hold two, three or four rows, 1 foot apart, and the plants about 8 inches apart in the rows, and in this case the plants are in a compact form to be covered for the winter where they grow. This will save much labor where there is no root-cellar for storage, as often happens to be the case. The bed should be made very rich with thoroughly decomposed manure. The plants will need to be earthed up two or three times, and, in doing this, care should be taken not to let the earth get into the heart of the plant. In field culture, the plants are set on the surface in rows 4 feet apart when the Celery is to be earthed up in the field for early use, and 2 feet apart when the plants are to be taken up and blanched in the cellar for winter use. The plants are set 6 inches apart in rows. If not grown in beds, the best way to store is to dig trenches in a well-drained spot in the open ground, 1 foot wide, and at a depth of a few inches less than the height of the Celery. The plants are then lifted and set close together. When severe cold weather comes on, cover gradually with leaves, hay or straw, and place boards on top. The turnip-rooted Celery (Celeriac) needs no earthing up, and may be planted in rows 1 foot apart. Early spraying with bordeaux mixture is extremely efficacious in case of Celery blight or rust.

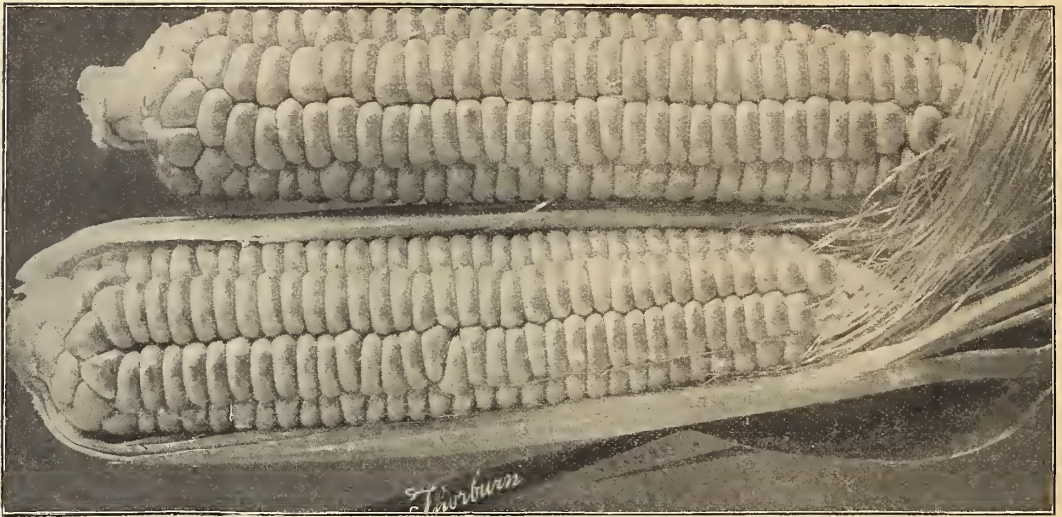


Golden Self-Blanching Celery, Thorburn's Gilt-Edge

Thorburn's Fin de Siecle. We consider this the largest, hardest, solidest, crispest best-keeping and best shipping winter Celery we know of.	3200	\$0 25	\$0 75	\$2 50
Improved White Plume. Naturally white or light foliage; requires but little banking up to blanch; very early and extensively grown for market.	3210	25	60	2 00
GOLDEN SELF-BLANCHING, THORBURN'S GILT-EDGE. Our finest strain.	3230	1 00	3 50	12 00
Perfection Heartwell. One of the finest and largest of winter varieties, either for family or market-garden. The heart is golden yellow.	3260	25	60	2 00
Thorburn's Schumacher. Solid and crisp; firm, golden yellow heart.	3270	25	60	2 00
Giant Pascal. An easily blanched and fine-keeping, large, late sort.	3300	25	50	1 75
Dwarf Golden Heart. Large, solid, crisp and tender, blanching white, hardy	3305	25	60	2 00
New Rose. Fine flavor; handsome variety.	3350	25	60	2 00
Winter Queen. Very large, solid, green, winter sort; blanches well.	3384	25	60	2 00
Celeriac, Giant Prague. Very large roots, for soups and stews; when cooked and sliced makes fine winter salad.	3400	40	1 25	4 00
Celeriac, Erfurt. For soups and stews.	3425	40	1 25	4 00

Celeriac may be stored like beets, and will keep all winter
All 10 cents per packet except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Golden Bantam Sweet Corn

CORN, SWEET or SUGAR

CULTURE.—Plant in hills 3 feet apart each way, and five or six kernels in a hill. Hoe often and draw soil up to the stem; break off side-shoots. Make the ground rich with well-rotted manure. If sown thinly in drills, a greater yield from a given surface will be obtained.

We supply packets of Corn at 10cts. each, postpaid; for other quantities, NOT PREPAID, add postage at the zone rate of 1 lb. per pint and 2 lbs. per quart.

Most varieties can be furnished on ears at 5cts. each, transportation extra

EXTRA EARLY

	Pt.	Qt.	½ pk.	Pk.	Bus.
THORBURN'S NORDHEIM EXTRA-EARLY. Earliest and finest of all. The stalks grow 6 to 7 feet high, each bearing three or four nearly perfect ears of excellent quality. The grains are large, white and very sweet.....	3700	\$0 20	\$0 30	\$0 85	\$1 50 \$5 00
Early Mayflower. Extra early; large ears; sweet and tender...	3705	20	35	1 00	1 75 6 00
Early Red-Cob Cory. A very early variety with good-sized ears. Very sweet, tender and of fine flavor.....	3710	20	30	85	1 50 5 00
White Cory. Resembles the ordinary Cory, but with white cob..	3720	20	30	85	1 50 5 00
Mammoth White Cory. Ears double the size of the old Cory, and better in flavor.....	3740	20	30	85	1 50 5 00
Metropolitan. Large, handsome ears of fine quality; very early. A splendid market variety.....	3750	20	30	85	1 50 5 00
Golden Bantam. Extra early; yellow; very sweet and tender...	3760	25	40	1 25	2 25 8 00
Seymour's Sweet Orange. A vigorous grower, attaining a height of 6 to 7 feet, and producing generally two good-sized ears to a stalk. It matures about a week later than Golden Bantam and is fully equal to it in the deliciousness of its flavor.....	3764	20	30	85	1 50 5 00
Peep-o'-Day. Very early, sweet and of delicate flavor.....	3780	20	30	85	1 50 5 00
Minnesota. Nearly as early as Cory, but with larger ears.....	3790	15	25	75	1 30 4 50
Perry Hybrid. Early and large; valuable for market.....	3800	15	25	75	1 30 4 50
Kendel's Giant. Very early for so large-eared a variety; sweet and tender.....	3840	20	30	85	1 50 5 00
Extra-Early Adams. Not a Sugar Corn but grown for early use. Tender and sweet; fine for the table.....	3860	15	25	75	1 25 4 00

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

SECOND-EARLY, or INTERMEDIATE

Thorburn's Early White Perfection. A valuable second-early sort, producing good-sized ears. The cob is small and the grain is almost white. It is a heavy yielder, very sweet and an almost perfect type without flint or glaze.....3900

	Pt.	Qt.	½ pk.	Pk.	Bus.
without flint or glaze.....3900	\$0 20	\$0 30	\$0 85	\$1 50	\$5 00
Early Champion. Very large ears, considering its earliness.....3910	15	25	75	1 30	4 50
Early Mammoth. Large ears; fine quality; not very late.....3930	15	25	75	1 30	4 50
Crosby. Matures after Minnesota; fair sized ears of good quality.....3940	15	25	75	1 30	4 50
Howling Mob. An early corn of large size, white and sweet.....3944	20	35	1 00	1 75	6 50
Long Island Beauty. Very early; large size; valuable market sort. 3945	15	25	75	1 30	4 50
Potter Excelsior. Good-sized ears of fine quality.....3950	15	25	75	1 30	4 50
Moore Concord. Of strong growth; ears large and well filled....3960	15	25	75	1 30	4 50
Early Evergreen. A week earlier than Stowell Evergreen.....3970	20	35	1 00	1 75	6 50
Early Adams. Grown extensively for market.....3980	20	30	85	1 50	5 00

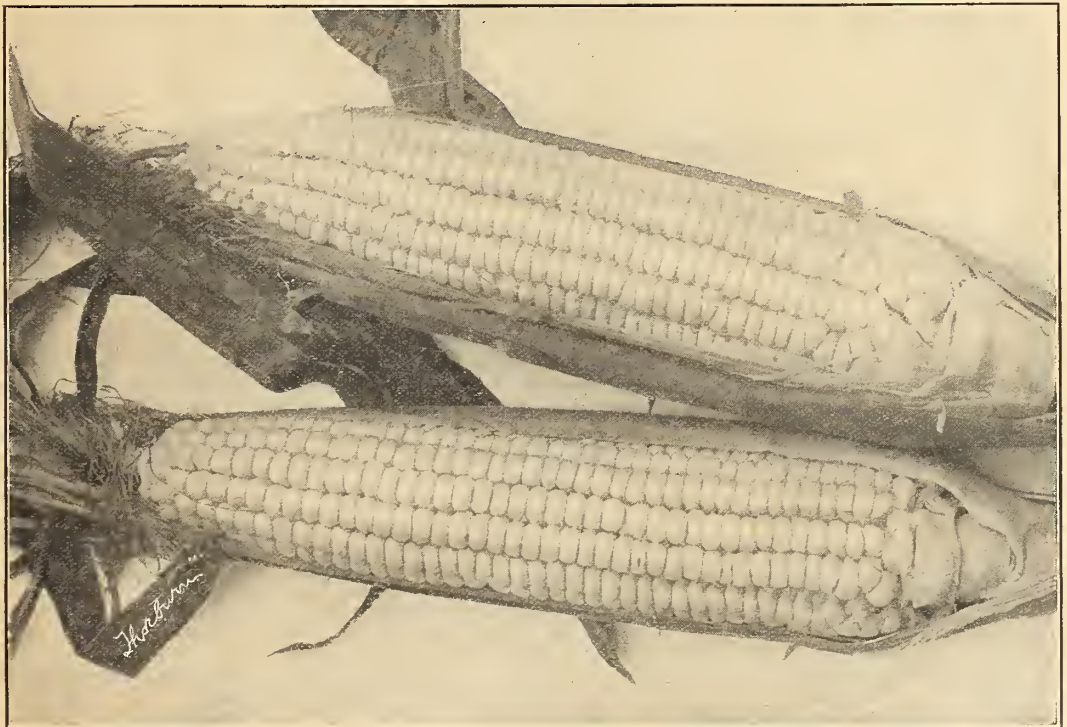
GENERAL CROP

Hickox Improved. Handsome ears; very white and of rich flavor. 4020	15	25	75	1 30	4 50
Stowell Evergreen. One of the most popular varieties.....4040	25	45	1 50	2 50	9 00
Golden Evergreen. Late; very sweet, round grains.....4050	30	50	1 65	3 00	
White Evergreen. Strain of Evergreen with pure white grains...4060	25	40	1 25	2 00	7 00

LATE SWEET CORN

Black Mexican. Very sweet, of superior flavor; grains black....4100	20	35	1 00	1 75	6 00
Late Mammoth. Rank in growth; large ears, rich and sweet...4120	20	35	1 00	1 75	6 00
Country Gentleman. A large selection of the Ne Plus Ultra, introduced by us in 1888.....4140	30	50	1 75	3 00	
Ne Plus Ultra. Small, but one of the sweetest sorts....4150	25	40	1 25	2 00	7 00
SWEET FODDER CORN.....4180			75	1 25	4 00

FOR FIELD CORN AND POP CORN, SEE PAGE 63



Seymour's Sweet Orange Corn—See page 24

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Witloof Chicory

be gradually banked up like celery. The stalks when blanched, make a delicious salad. It is also used by the French as a boiled vegetable. . . 4310

Witloof Striped. Leaves large and fleshy, striped red, rose and yellow . . . 4315

WITLOOF ROOTS. For forcing and blanching. Largely used for salad, and also as a cooked vegetable. The roots may be forced in a dark dry cellar on a mild hotbed made with fresh horse-manure; when this becomes hot cover with a layer of rich, light soil to a depth of one foot. As soon as the soil becomes warm plant the roots close together in rows, all crowns at same level, each row 6 inches apart. Cover with 8 inches of very light soil. There are also systems of hot water pipes used in place of manure for forcing this vegetable. Per 100 \$3.50, per 50 \$2.00, per 20 \$1.00.

SEE ALSO, ENDIVE, THE CHICORY OF THE FRENCH, PAGE 28

COLLARDS

CULTURE.—Sow seed as for cabbage, in June, July and August for succession. Transplant when a month old in rows a foot apart each way and hoe often.

Georgia pkt. 5c. 4380 \$0 10 \$0 20 \$0 60

CORN SALAD, or FETTICUS

MACHE *Macha o Valerianilla* Stetsalat

CULTURE.—Sow during August or early in September, in drills one-fourth of an inch deep and 6 inches apart. If the weather is dry when the seed is sown, tread it lightly to insure germination. Keep weeds down with hoe. Just before the winter cover thinly with straw or leaves.

Large-seeded 4430 \$0 10 \$0 25 \$0 70

Green Cabbaging 4450 10 30 80

CRESS

CRESSON *Bara o Mastuerzo* Kresse

CULTURE.—Sow No. 4520 thickly in shallow drills, every two or three weeks. It should be cut often and it will continue to grow. It is useful not only for salad, but for the breakfast table and for garnishing. Nos. 4550 and 4570 should be sown in damp soil; or, if a stream of water can be utilized, they will be much finer. They will also thrive well in damp hotbeds. Rightly managed, their culture is very profitable. To obtain early salad, it is a good plan to sow with Water Cress seed a strip 4 inches wide on the outer margin of a hotbed, inside the frame, where it is always cool.

Curled, or Pepper Grass 4520 \$0 10 \$0 20 \$0 50

Common, or Plain-leaved 4530 10 20 50

Broad-leaved Winter, or Upland. Gray seed. 4540 10 25 75

Golden Yellow broad-leaved. Yellow. Mild and tender. 4555 10 25 75

True Water Cress pkt. 10c. 4570 35 1 00

All on this page 5 cents per packet except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

CHERVIL

CERFEUIL *Perifollo* Benfenlauch

CULTURE.—Cultivate and use the curled variety of chervil like parsley. Sow at any time in the spring in shallow drills, 1 foot apart, in well-prepared ground.

Curled. Leaves used for flavoring soups and stews and for garnishing. 4240 \$0 15 \$0 40 \$1 25

Plain. Like above, but not curled. 4250 15 40 1 25

CHICORY

Witloof. Known in restaurants as French Endive. Sown in May and June in drills. Transplant or thin to 6 ins.; treat as endive, except that in late summer or fall it should

10 30 85 3 00
15 50 1 25 4 00



Thorburn's Noroton Selected White Spine Cucumber

CUCUMBER

CONCOMBRE

Pepino

Gurfe

CULTURE.—For very early, sow in hotbeds upon pieces of sod, or in small pots. They can be readily transplanted with a gain of about six weeks over those sown in the open ground. Plant out in rich soil when danger of frost is over, or protect by hand-glasses, or by paper held down at the corners with a handful of earth. For general crop, sow in the open ground as soon as the weather is settled and warm, and every two weeks for a succession. For pickles, sow from middle of June to first week in July. Sod land, turned over in fall, is the best for them. Plant in hills 4 feet apart, putting a shovelful of well-rotted manure in each hill.

	Oz.	¼ lb.	Lb.
Davis Perfect. Fine for forcing or for outdoors. The fruit is long and straight, and being a comparatively shy seeder, is very valuable for slicing.....	4770	\$0 10	\$0 20 \$0 75
Early Green Cluster. Fruit small and in clusters; very prolific.....	4780	10	25 75
Early Russian. Very early, short; fine for pickles.....	4790	10	25 75
Giant Pera. Very long; one of the best for table use.....	4800	15	35 1 25
Fordhook Pickling. Very prolific; medium size; fine pickling strain.....	4810	10	30 1 00
Thorburn Everbearing. Small-sized; very early and enormously productive; valuable as a green pickler.....	4820	10	30 1 00
Cool and Crisp. Extra early and very prolific; long, straight, slender and very dark green; good either for pickling or slicing.....	4830	10	25 85
Fordhook Famous. Long, straight and well formed; vigorous grower, very productive; does not turn yellow.....	4850	10	30 1 00
New Orleans Market. For forcing or open ground; very productive.....	4860	10	25 85
White Spine Extra-Early. An extra-early strain of the popular White Spine....	4864	10	30 1 00
“ “ Improved. A very handsome and uniform early variety.....	4870	10	30 1 00
“ “ Arlington. Fine either for forcing or for outdoors.....	4880	10	30 1 00
“ “ Klondyke. A desirable early dark green variety; very prolific....	4885	10	30 1 00
“ “ Hills Forcing	4886	15	35 1 25
“ “ THORBURN'S NOROTON SELECTED. A selection of Improved White Spine. Earlier, more perfect in shape and more prolific; best slicing variety; splendid either for home garden or market.....	4890	15	35 1 25
“ “ Extra-Long, Perfected. A beautiful, large and well-shaped Cucumber.....	4900	10	30 1 00
“ “ Evergreen. Very Early; prolific.....	4910	15	35 1 25

All 5 cents per packet, except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

CUCUMBER—Continued

	Oz.	1/4 lb.	Lb.
Long Green, Improved. Long and Crisp; a popular variety for pickles.....	4920	\$0 15	\$0 30 \$1 00
“ “ Turkey. Fruit very long and slim.....	pkt. 5c.4930	15	30 1 00
Green Prolific Pickling. One of the best for pickling; dark green.....	4940	15	30 1 00
Tailby Hybrid. Very long, and superior for table use.....	4960	15	30 1 00
Japan Climbing. Good for frames or open ground.....	4970	15	30 1 00
Small Gherkin. Very small bur; used for pickles.....	pkt. 10c.4980	20	40 1 50
Lemon Cucumber, or Garden Lemon. Almost round, yellow and green markings; tender and of sweet flavor. Like a lemon in appearance.....	pkt. 10c.4990	20	40 1 50

All 5 cents per packet, except where quoted otherwise

ENGLISH CUCUMBER FOR FRAMES (Concombre especes Anglaises pour couches)

CULTURE.—Sow seeds in October, November or December, according to the time they are wanted, in small pots, in fibrous loam, lightened and enriched with old manure; give plenty of air and water. Plunge the pots in a frame near the glass, where there is a little bottom heat, and keep them covered with brown paper until the seeds germinate. Afterward uncover and ventilate to insure sturdiness of habit. Only strong plants should be employed. It is necessary to fertilize the pistulate flowers with the staminate to render the vines productive as, owing to the absence of flies or bees, they will not produce a crop under glass as in open ground.

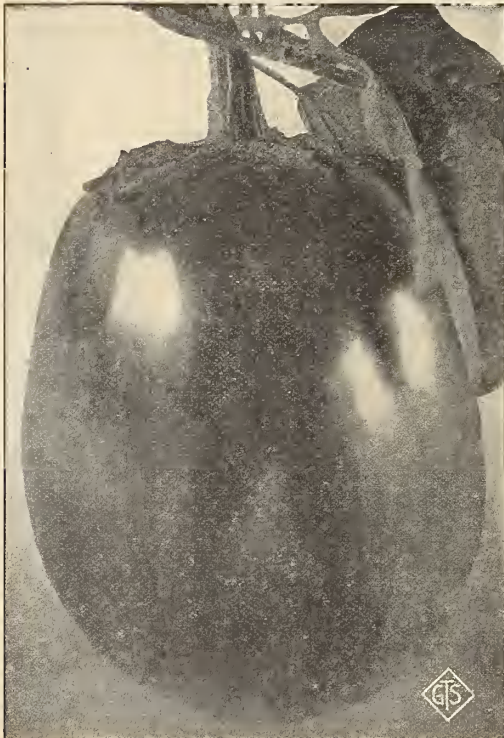
	Pkt.		Pkt.
Hurst's Monarch. Splendid sort.....	5096	Rochford's Market. Fine variety.....	5120
Lockie's Perfection. Fine Color.....	5100	Telegraph. Free-bearing; handsome.....	5130
Marvel. (Hurst's.) Heavy cropper.....	5110	Veitch's Sensation. Fine dark variety.....	5160

ENDIVE, or CHICORY CHICOREE Escarola o Endivia Endivie

CULTURE.—Sow in June, July and August; cover lightly; when up, thin out to 8 inches apart and water well, if dry. When the leaves are 6 to 8 inches long, blanch by tying together near the top with yarn or raffia. (They must be quite dry, or they will rot.) At the approach of winter, take up carefully, with a ball of earth to each plant, and place close together in frame or cellar. They must be kept dry and have plenty of air.

	Oz.	1/4 lb.	Lb.
Green Curled Winter. Standard sort for fall and winter crop.....	pkt. 5c... 5210	\$0 10	\$0 35 \$1 25
Large Green Curled (de Ruffec). Broad ribs; fine for fall and winter.....	pkt. 5c... 5220	10	35 1 25
“ Curled (Pancalier). Fine, very large.....	pkt. 5c... 5225	10	35 1 25
Giant Fringed or Oyster. New, has a large white heart.....	pkt. 5c... 5227	10	35 1 25
White Curled. For early use.....	pkt. 5c... 5240	10	35 1 25
Broad-leaved (Escarolle). A sweet variety; fall and winter.....	pkt. 5c... 5230	15	35 1 25

SEE ALSO WITLOOF (FRENCH ENDIVE) UNDER CHICORY, PAGE 26



Improved New York Spineless Eggplant

EGGPLANT

AUBERGINE Berengena Eierpfanze

CULTURE.—Sow in hotbeds very early in spring and transplant when 2 inches high into a second bed or into small pots. If this is not done, thin to 4 inches apart. Do not plant out until weather is perfectly settled and warm. Cool nights or wet weather will check them. Keep some back in frames for a second planting, in case of weather changing unexpectedly. Set out plants 3 feet by 2.

	Oz.	1/4 lb.	Lb.
Improved New York Spineless. The standard; largest and best; oval; deep purple; early and productive.....	5310	\$0 50	\$1 50
BLACK BEAUTY. As large as the New York Improved but about ten days earlier; very rich purplish black.....	5320	50	1 50
Early Dwarf Purple. Dwarf; very early; small, ovoid fruit.....	5330	30	85 3 00
Florida High Bush. Purple, though not so deep as the New York Spineless, which it resembles in shape. Productive, vigorous and can stand more cold than that variety.....	5340	35	1 00 3 50
Long Purple. Of distinct shape and fine quality.....	5350	35	1 00 3 50

All 10 cts. per packet

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

FENNEL, FLORENCE or NAPLES

FENOUIL DE FLORENCE *Finocchio di Napoli*

CULTURE.—Sow in spring, in rows 16 to 20 inches apart. Thin out so as to have the seedlings 5 or 6 inches apart and water as plentifully as possible. The plant is usually eaten boiled. In flavor it resembles celery, but has a sweet taste and a more delicate odor 14180

Pkt 5 cts., oz. 10 cts., ¼ lb. 25 cts., lb. \$1.00.

SEE ALSO HERBS

KALE or BORECOLE

CHOU VERT FRISE *Col Krauskohl*

CULTURE.—Nos. 5600 and 5610 are cultivated and grown exactly like cabbage. Sow No. 5600 in August and September for early greens. Sow 5700 early in the spring in hotbed and when 1 or 2 inches high transplant into a bed or border that has been highly manured and deeply dug.

Curled Dwarf Green Scotch. Very dwarf and spreading; best strain; largely grown in the South, being sown in August and September 5600 \$0 10 \$0 30 \$1 00

Curled Tall Green Scotch. A taller growth of No. 5600 5610 10 30 1 00

Curled Siberian Thorburn Improved. Green, curled; hardy 5630 10 20 65

Emerald Isle. Very fine. 5635 15 50 1 50

Thousand-headed. Forcattle 5640 10 20 65

Jersey Winter Kale, or Cow Cabbage. For feeding cattle; very hardy. 5650 \$0 10 \$0 20 \$0 65



Early White Vienna Kohlrabi

KOHLRABI

CHOU-RAVE *Colinabo Kohlrabi*

CULTURE.—Sow in spring, in rows 18 inches apart, afterward thinning the plants to 8 to 10 inches. If the weather is suitable the thinnings may be planted, but it is considered difficult to transplant. Keep the weeds down, and when the thickened stems above ground are 2 or 3 inches through they are fit to eat, and should be used at once, being tough when old. Cook same as turnips.

Early White. Handsome; very delicate in flavor; whiteball 5800 \$0 25 \$0 75 \$2 50

Early White Vienna. Fine every way. For frames. 5810 30 85 3 00

LEEK

POIREAU *Puerro Porre, oderlauch*

CULTURE.—Sow very early in spring in drills 6 inches apart and 1 inch deep. One ounce to 100 feet of drill. Thin out to 1 inch. When about 7 inches high, transplant in rows 12 inches apart, as deep as possible, but do not cover the young center leaves. Water thoroughly if dry when planted out. Draw earth up to them as they grow; rich soil is required. Take up and store in earth in a cool cellar before winter weather. The seeds may also be sown in September, and the young plants transplanted in spring to where they are to remain.

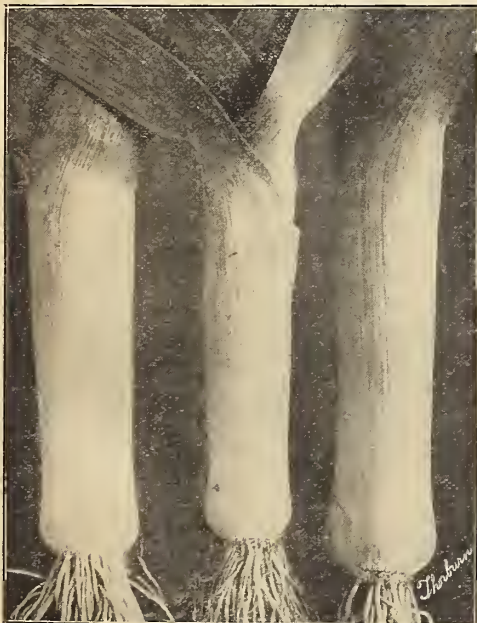
THORBURN'S BEST LARGE FLAG. Hardy and productive. 5910 \$0 15 \$0 50 \$1 50

Large Carentan. Distinct and dark-colored leaves; stout in habit and hardy 5940 15 50 1 50

Musselburgh. Similar to above. 5950 15 50 1 50

Prizetaker. Very large. 5960 20 50 1 75

All 5 cents per packet except where quoted otherwise



Thorburn's Best Large Flag Leek

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Grand Rapids Forcing Lettuce

LETTUCE

LAITUE

Lechuga

Salat

CULTURE.—Sow 6030, 6120, 6230, 6340 and 6350 in hotbeds in March, and these as well as all the other varieties, in the open ground as soon as it can be worked, and transplant to rows 8 inches apart. Sow in two weeks' time again for a succession; also Cos sorts. Latter part of August, sow any of the varieties. In October some of these may be planted in frames, to head in winter and early spring. Always sow thinly and thin out well, or the plants will not be strong. The last spring sowing had better be grown where sown, being thinned out to 6 to 8 inches apart. Cos Lettuce may be sown in a hotbed early in the year, and transplanted to a coldframe, so as to have good plants to set out at the opening of the ground. Lettuce requires good ground, enriched with thoroughly rotted manure, and well pulverized. The after culture should be close and careful, to secure the best results. Lettuce seldom, if ever, heads well in hot weather.

	Oz.	¼ lb.	Lb.
American Gathering. Twisted and curled leaves, fine early or late. <i>w. s.</i>6020	\$0 10	\$0 25	\$0 80
THORBURN'S BIG BOSTON IMPROVED. Fine for forcing in coldframes or for open ground. <i>See Novelties w. s.</i>6030	15	35	1 25
Buttercup. Yellow, solid, small heads; for forcing or outdoors. <i>w. s.</i>6040	15	35	1 25
California Cream Butter. Very large, solid heads inside very white. <i>b. s.</i>6050	15	30	1 00
Crisp as Ice. Very large and solid, dark red Lettuce, crisp and tender; resists heat well.6060	15	35	1 25
Deacon. Large solid Summer Cabbage variety.6070	15	35	1 25
Denver Market. Very curly heads; good for forcing or outdoors. <i>w. s.</i>6080	15	30	1 00
Giant Crystal Head. A splendid cabbage Lettuce; large, solid; outside leaves bright green, inside crystal-white; yellow heart; crisp, tender. <i>w. s.</i>6100	15	30	1 00
Giant Glacier. Immense heads of finest quality crisp and tender.6115	15	35	1 25
Grand Rapids Forcing. Large, tender; one of the best for forcing, <i>b. s.</i>6120	15	30	1 00
Hanson Improved. Very large and solid; tender and of fine quality; withstands the hot sun well. <i>w. s.</i>6140	15	30	1 00
Hubbard Market. A large cabbage variety, with crisp, tender leaves; for forcing or open ground. <i>w. s.</i>6160	15	35	1 25
Iceberg. Large, solid, curled heads; yellow heart, crisp and tender.6170	15	35	1 25

All 5 cents per packet except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

LETTUCE—Continued

	Oz.	¼ lb.	Lb.
Mammoth Black-seeded Butter, Thorburn. A selected strain; large, solid, yellow heads. Favorite variety of New York market-gardeners.....	6200	\$0 15	\$0 35 \$1 25
Market-Gardener's Private Stock, Thorburn. A selected strain; solid, large heads, resisting the sun for a long time before shooting. <i>b. s.</i>	6210	15	35 1 25
Maximum, Thorburn. The largest and best; solid; crisp; leaves tender and particularly fine in flavor. <i>b. s.</i>	6220	15	40 1 50
May King. Large, round, solid heads. <i>w. s.</i>	6230	15	35 1 25
Mignonette. Distinct russet colored; very solid and compact. <i>b. s.</i>	6240	15	35 1 25
The Morse. A large non-heading variety, leaves crisp and of fine flavor.....	6245	15	35 1 25
New York Cabbage. Large, solid heads; inside very white. <i>w. s.</i>	6250	15	35 1 25
New Orchid. The famous Orchid Salad, used in many of the highest-class restaurants; should be cut as the orchid center develops; that is, when the plants have attained about one-quarter of their full growth. <i>w. s.</i>	6255	15	35 1 25
Oak Leaf. A curled-leaf variety of bright green color. <i>w. s.</i>	6260	15	35 1 25
Passion. A medium-sized cabbage variety, with tender, crisp and fine-flavored leaves popular in the South. <i>b. s.</i>	6270	15	35 1 25
Philadelphia Dutch Speckled Butter. Small, compact heads good for frames or open ground.....	6275	15	35 1 25
Salamander Improved. Fine, compact heads; tender; quality of the best; resists summer heat. <i>b. s.</i>	6300	15	35 1 25
Shotwell Brownhead. Large, handsome, tender heads, crisp, and of fine flavor; very hardy. <i>b. s.</i>	6310	15	40 1 50
Simpson Early Curled. A leading early sort; very tender. <i>w. s.</i>	6320	15	35 1 25
Simpson Black Seed. A superior variety; large, and of light color, tender and crisp. <i>b. s.</i>	6330	15	35 1 25
Tennisball White Seed. (Boston Market). A well-known forcer; larger heads; crisp and tender. <i>w. s.</i>	6340	15	35 1 25

All 5 cents per packet except where quoted otherwise



Thorburn's Big Boston Improved Lettuce

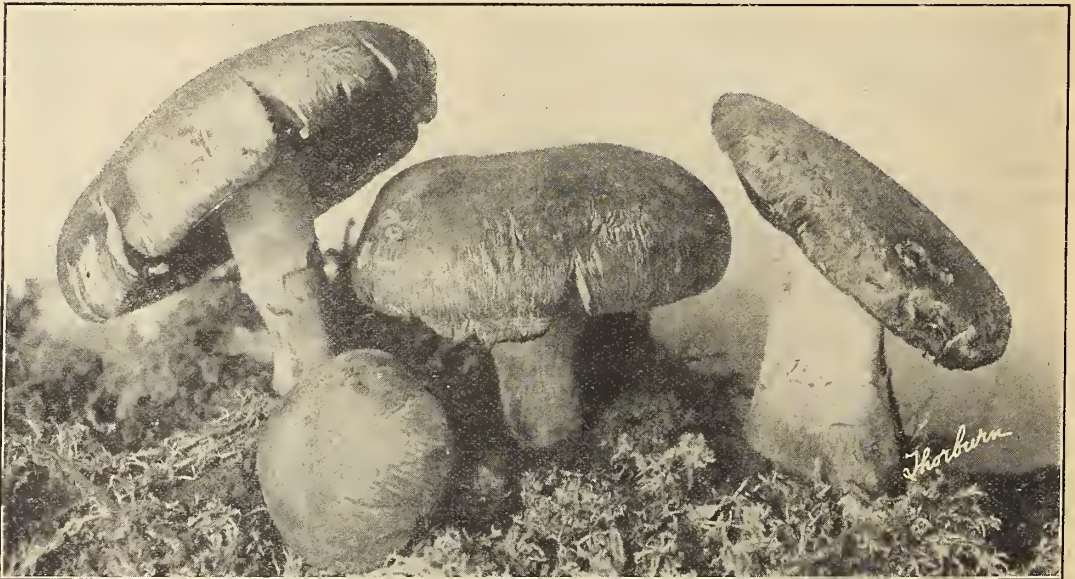
LETTUCE—Continued

Tennisball Black Seed. Forms close, hard heads, leaves very crisp and tender; for forcing. <i>b. s.</i>	6350	Oz. 15	¼ lb. 35	Lb. 1 25
Trocadero. Hardy; for spring or summer; green, tinged russet; very tender, crisp and fine-flavored. <i>w. s.</i>	6360	15	40	1 50
Wayahead. Handsome large heads of finest quality. Fine for all seasons frames or open.....	6370	15	40	1 50
White Summer Cabbage. Close heads of good size; fine for summer. <i>w. s.</i>	6390	15	35	1 25
Yellow Seeded Butter. Large heads of fine quality, crisp, tender leaves.....	6410	15	35	1 25

ROMAINE, or COS LETTUCE

Bath Cos., Black-seeded. Pale green leaves, slightly tinged with brown. Early and productive and of fine flavor. <i>b. s.</i>	6440	15	40	1 50
White Paris Cos. Of upright growth; fine. <i>w. s.</i>	6450	15	40	1 50
Giant White Cos.	6455	15	40	1 50
Trianon Cos. Resists heat well. <i>w. s.</i>	6460	15	40	1 50
Balloon Cos. Fine sort. <i>b. s.</i>	6480	15	40	1 50
RED COS. Splendid French sort. Outer leaves red-brown; very attractive....	6500	15	40	1 50

All 5 cents per packet



MUSHROOM SPAWN

BLANC DE CHAMPIGNON *Seta* Champignonbrut

CULTURE.—Mushrooms may be grown in cellars, under benches of greenhouses, or in sheds, wherever the temperature of 50 degrees can be kept up through the winter. The beds should be made from November to February, according to the time the Mushrooms are wanted, and it requires about two months for them to begin bearing. Secure fresh horse manure, free from straw and litter, and mix an equal bulk of loam from an old pasture with it. Keep this under cover, taking care to turn it every day to prevent heating, until the pile is large enough to make a bed the required size. Three to 4 feet wide, 8 inches deep and any length desired are the proper proportions for a bed, but these may be varied. Prepare the mixture of loam and manure, making the bed in layers, and pounding down each with the back of the spade. Leave this to heat through for a few days, and as soon as the heat subsides to 90 degrees, make holes in the bed about a foot apart each way, and about one inch deep, into which put pieces of the spawn 2 or 3 inches in diameter; fill up the holes with the compost, and at the expiration of a week or ten days the spawn will have thoroughly diffused itself through the bed. Spread a layer of fresh soil over the heap to the depth of 2 inches and cover with 3 or 4 inches of hay, straw or litter. Examine the bed often to see that it does not get dry. Take special care, however, when water is given, that it be at a temperature of about 100 degrees.

From our experience with English, French and American Spawn, we find there is an important difference between them. If the manure in the bed is in proper condition, the French Spawn will take hold and grow fully as well as the other two; but, if the bed is not in the right state, it will often rot. The American and English Spawns, on the contrary, after starting a little, will remain in a comparatively dormant state for a long time without losing their vitality. It is well to keep these points in mind in ordering Spawn.

American Pure Culture Spawn. Direct bricks; latest strain.....	6630	Per Brick 20	10 Bricks 1 80	100 Bricks 16 00
English Spawn. In bricks.....	6635	15	1 30	12 00
French Spawn	6640	per 2-lb. box, 80c.		

If by mail, add postage; bricks weigh about 1 lb. each

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

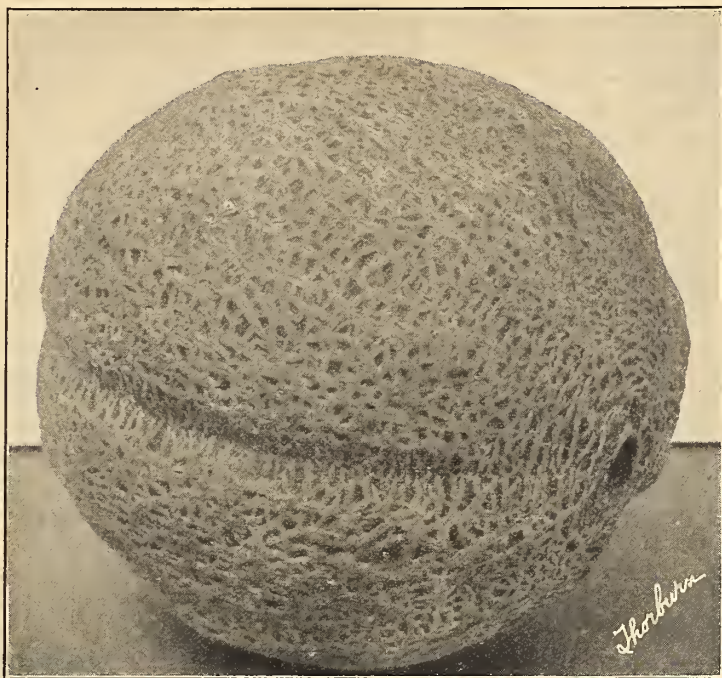
MUSKMELON

(Cantaloup)

MELON MUSCADE

Melon Muscatel Cantaloup

CULTURE.—Select a light, rich, sandy soil, and, after all danger of frosts is over and the ground has become warm and dry, plant in hills 4 to 6 feet apart each way, six to twelve seeds to a hill. When up and all danger of insects has passed, pull out all but three plants. Cultivate until the vines cover the ground, and pinch the ends of the growing shoots to induce early fruiting. Ashes, lime, or even dry roaddust, are excellent to sift over young plants when the dew is on, to prevent the attacks of insects. A few hills for early use may be had by sowing in hotbeds, on pieces of sod or in pots. The seed may also be started out-of-doors under hand-frames or glasses. It is quite important that proper soil be selected for growing Muskmelons.



Eden Gem Muskmelon

SALMON AND YELLOW-FLESHED VARIETIES

	Oz.	¼ lb.	Lb.
Banquet. Beautifully netted, medium size; rich salmon flesh; fine quality...	6790 \$0 15	\$0 30	\$1 00
Brockway's Sport. Slightly oblong, averaging 6 inches in diameter; flesh light red; very sweet; lightly ribbed and netted.....	7115	15	30 1 00
Burrell's Gem. Reddish orange flesh; fine-grained and spicy.....	6800	15	30 1 00
Defender. One of the very best yellow-fleshed sorts; medium size, oval in shape; flesh very firm and rich. Very vigorous and productive.....	6804	15	30 1 00
Emerald Gem. Small; extra early; dark green skin, orange flesh; very sweet.	6810	15	30 1 00
Long Yellow Cantaloup. Yellow flesh; late.....	6812	15	30 1 00
Osage. Cocoanut-shaped; yellow flesh; light green, netted skin.....	6814	15	30 1 00
Paul Rose. Handsome oval variety; rich orange flesh; very sweet.....	6820	15	30 1 00
Shumway Giant. Round; light green; flesh deep salmon; very late.....	6824	15	30 1 00
Surprise. Oblong; rich orange flesh of fine quality; early.....	6830	15	30 1 00
Nutmeg Tip-Top. An improved strain; very sweet; salmon flesh.....	6840	15	30 1 00
Thorburn's Orange Christiana. Fine orange sort. Round, very sweet and very early.....	6850	15	30 1 00
Yellow-meated Japan. Fine.....	6860	15	35 1 25

GREEN-FLESHED MUSKMELONS

	Oz.	¼ lb.	Lb.
Baltimore Market. Oblong; green flesh of fine quality; intermediate.....	6870 \$0 10	\$0 25	\$0 75
Hybrid Casaba. A vigorous grower and an enormous yielder; produces melons of large size and of unsurpassed flavor; skin is green until the fruits begin to ripen, when it turns to a light yellow; white flesh, rich and luscious and from 2 to 3 inches thick. Splendid for warm climates.....	6904	10	25 75
Champion Market. Large, slightly elongated; netted; flesh light green; early.....	6910	15	30 1 00
Eden Gem. The popular shipping melon at Rocky Ford. Flesh deep green, very solid and firm. Skin heavily netted.....	6914	15	30 1 00
Egyptian Deity (Persian Delight). Round, flesh whitish green and surpassingly luscious in flavor, very juicy; rind thin and smooth, excellent for warm climates.....	6915	20	60 2 00
Gold-Lined Rocky Ford. Delicious, flesh thick, fine-grained and sweet; color green, with a gold margin next the seed-cavity; slightly oval and heavily netted.....	6916	15	50 1 50

All 5 cents per packet except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

MUSKMELON—Continued

	Oz.	¼ lb.	Lb.
Hackensack. Large, round and of good quality; a popular variety; early.....	6920 \$0 10	\$0 25	\$0 75
Hackensack Extra-Early. Ripens ten days earlier than the Hackensack.....	6930 15	30	1 00
Honey Dew. New large, round, light-colored Melon, delicious, rich, green flesh pkt. 15c.....	6935 40		
Jenny Lind. Old favorite. Small; green-fleshed; very early; good quality....	6940 15	30	1 00
Long Island Beauty. On style of Hackensack. The earliest and finest in quality, and the most beautiful of all Muskmelons.....	6950 15	30	1 00
Montreal Green. Large, round, netted; flesh thick and light green; late.....	6970 10	25	75
Netted Gem, Round. Very early; small and of fine flavor; green flesh.....	6980 15	30	1 00
Netted Gem, Oblong. Same as above, save in shape.....	6990 15	30	1 00
Nutmeg. Sweet, green flesh; very early; named from its shape.....	7000 10	25	75
Rocky Ford. Improved Netted Gem; very sweet and fine-flavored; oblong....	7010 15	30	1 00
Skillman's Netted Gem. Oval-shape; early; sweet and highly perfumed....	7030 15	30	1 00
Winter Pineapple. An extraordinary melon; can be kept in splendid condition for months after being pulled. For the South only.....	7140 20	50	1 50

All 5 cents per packet except where quoted otherwise

MISCELLANEOUS MUSKMELONS

Banana Citron. Cucumber-shaped; highly perfumed; late.....pkt. 5c.	7110 15	35	1 25
Mango Melon, Vine Orange. Size, shape and color of an orange; fine for preserving or for pickling.....pkt. 5c	7120 15	35	1 25
Pomegranite. Ornamental for perfume; late.....pkt. 5c	7130 15	35	1 25
Vine Peach. Color of a peach, fine for preserving or for pickling.....	7135 15	50	1 50

IMPORTED FRAME SORTS

For growing under glass, in packets only, 25 cts. each.



Tom Watson and Cuban Queen Watermelons

WATERMELON MELON D'EAU Zandia Wassermelone

CULTURE.—Treat the same as Muskmelons, except that they should be planted 8 to 10 feet apart, according to variety. Light soil is best.

	Oz.	¼ lb.	Lb.
Alabama Sweet. Dark green; tender red flesh; long. Fine shipper.	7410 \$0 10	\$0 25	\$0 70
Black Diamond. Dark green, tough skin; large size. Round.....	7430 10	25	70
Black Spanish. Roundish; nearly black; dark red flesh; early.....	7440 10	25	70
Boss. Oblong; dark green; flesh deep scarlet; rind thin, intermediate.....	7450 10	25	70
Blue Gem, or Iceberg. Bright red flesh; very sweet; fine shipper. Oval.....	7460 10	25	70
Bradford. Long and of dark color, red flesh, sweet and tender.....	7480 10	25	70
Cole's Early. Medium size; red flesh; green skin. Oval.....	7490 10	25	70
Cuban Queen. Solid and heavy; skin marked regularly; excellent, early. Oval.	7500 10	25	70
Dixie. Excellent quality; very large and solid; red flesh; intermediate. Long.	7510 10	25	70
Early Fordhook. Extra early; good size; green skin; red flesh. Oval.....	7530 10	25	70
Florida Favorite. A superior strain; oblong; red flesh; intermediate.....	7540 10	25	70

All 5 cents per packet

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

WATERMELON—Continued

	Oz.	¼ lb.	Lb.
Halbert Honey. Dark, glossy green skin; flesh crimson, luscious and sweet. Strong vigorous grower and free fruiter. Long. Fine for northern states.....	7550	\$0 15	\$0 25 \$0 80
Hungarian Honey. A very early sort; fine for northern latitudes; perfectly round; brilliant red flesh.....	7560	15	25 80
Ice Cream, White Seed (Peerless). Very early; red flesh. Oval.....	7570	15	25 80
Icing, Dark. Solid; dark green skin; red flesh of superior quality; white seed; early; nearly round.....	7580	10	25 70
Icing, Light. Round; pink flesh of fine quality.....	7590	10	25 70
Jordan Gray Monarch. Largest grown; crimson flesh; late. Long.....	7600	10	25 70
Jumbo. Deep red flesh of excellent flavor. Very large, almost globular in shape; striped light and dark green.....	7606	10	25 70
Kleckley Sweets. Exceedingly sweet and fine-flavored; dark green skin; thin rind; flesh scarlet, solid, and firm. Long.....	7610	10	25 75
Kolb Gem. Large; good shipper; bright red flesh; intermediate. Oval.....	7620	10	25 70
Mammoth Ironclad. Long; very large; late; red flesh; good shipper.....	7630	10	25 70
McIver's Sugar. Oblong, handsome and very sweet.....	7645	10	25 70
Mountain Sweet. Red flesh; late dark green; long, tapers to stem end.....	7650	10	25 70
Pride of Georgia. Round; large; crisp; bright red flesh; intermediate.....	7670	10	25 70
Rattlesnake, Southern. Oblong; dark and striped; bright red flesh; late.....	7680	10	25 70
Seminole. Very large; quality first-rate; red flesh; intermediate. Oblong.....	7690	10	25 70
Sugar Stick. Light green; oblong; luscious rich red flesh. Strong grower.....	7700	10	25 70
Tom Watson. Produces melons 16 to 22 inches long and 8 to 10 inches in diameter. The dark green rind is thin but tough; stands shipping well. The flesh is deep red, crisp and melting and of finest flavor. Long.....	7724	10	25 70
Citron, Green Seed. Used for preserves.....	7750	10	20 65
Citron, Red Seed. Round and handsome; for preserving.....	7760	10	20 65

All 5 cents per packet

MUSTARD

MOUTARDE

Mostaza

Cent

CULTURE.—Sow thickly during early spring in shallow drills, and press the earth well down. For fall salad, sow in September, or in frames or boxes during winter.

	Oz.	¼ lb.	Lb.
Black. These seeds form the mustard of commerce.....	7800	\$0 05	\$0 10 \$0 25
Chinese Broad Leaved. Leaves of agreeable flavor when cooked like spinach.....	7803	05	10 25
Elephant's Ear. Immense, light green leaves.....	7805	05	10 25
Fordhook Fancy. Very ornamental; plants of vigorous growth; leaves dark green, curved outwardly. If used as a vegetable, cook like spinach.....	7810	05	15 30
Giant Southern Curled. Very large leaves.....	7815	05	15 30
Ostrich-Plume. Leaves curled and frilled like an ostrich-plume.....	7820	05	10 25
White London. Leaves used for salads while young; grows very rapidly.....	7825	05	15 30

NASTURTIUM

CAPUCINE

Maraneula

Nasturtium

CULTURE.—Sow as soon as all danger of frost is past, in drills about an inch deep. The tall kinds require fences or poles on which to climb. The seeds are used in flavoring pickles, or as a substitute for capers.

	Oz.	¼ lb.	Lb.
Tall Crimson	7900	\$0 15	\$0 25 \$0 75
Tall Yellow	7910	15	25 75
Tall Mixed	7920	10	20 60
Dwarf Mixed	7930	15	30 1 00

All 5 cents per packet

OKRA, or GUMBO

GOMBAUD

Quimbombo

Safran

CULTURE.—Sow late in the spring, after the ground has become warm, in drills 3 feet apart, where the plants are to remain. Thin out to from 9 to 12 inches. They should be well manured. They may also be raised in pots or a hotbed, and transplanted. For keeping, they should be picked while small and tender.

	Pkt.	Oz.	¼ lb.	Lb.
Long Green. Tall; very productive; moderately long green pods.....	8020	\$0 05	\$0 10 \$0 20 \$0 50	
White Velvet. Tender, long, white pods; smooth and velvety in appearance.....	8030	05	10 20 50	
Dwarf Green Prolific. Short, thick pods.....	8040	05	10 20 50	
Perkins' Mammoth. Fine strain; very long pods.....	8050	05	10 20 50	

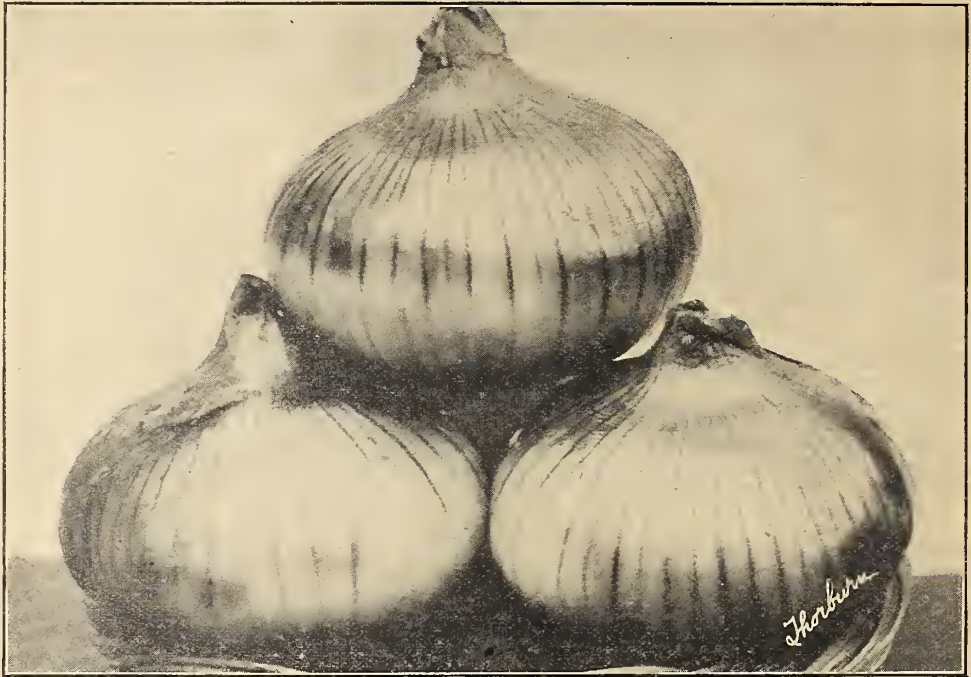
ORACH, or FRENCH SPINACH

ARROCHE

Arnuella

	Pkt.	Oz.	¼ lb.	Lb.
White. Pale green leaves, almost yellow.....	8120	\$0 05	\$0 15 \$0 35 \$1 00	

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



White Bermuda Onion

ONION OIGNON *Cebolla* Zwiebel

CULTURE.—Sow in rich, sandy soil, in drills 1 foot apart, as soon as the ground can be worked in spring—at the rate of 4 to 5 lbs. to the acre. Thin to 3 to 4 inches, using the rake and hoe frequently to keep down the weeds. The finest Onions are produced by the new method of sowing the seed in hotbed in February and March and transplanting the seedlings to the open ground.

		Oz.	¼ lb.	Lb.	
White Early Barletta. A small white Italian sort; very early.....	pkt. 10c. .8320	\$0 35	\$1 00	\$3 25	
“ Queen. Pure white; small, flat; extra early; fine for pickling	pkt. 10c. .8330	35	1 00	3 25	
“ Very White Pearl. Extra-early; round; very white; fine flavor	pkt. 10c. .8334	35	1 00	3 25	
“ Large Portugal. The standard large flat sort of the New York markets,	pkt. 10c. .8360	35	1 00	3 50	
“ Large Globe. (Southport Strain.) Very large and handsome...	pkt. 10c. .8370	40	1 25	4 00	
“ Paris Silverskin.	pkt. 10c. .8390	35	1 10	3 75	
“ Bermuda......(Teneriffe-grown.).....	pkt. 10c. .8400	30	90	3 00	
“ Bermuda. (True Crystal Wax.) “.....	pkt. 10c. .8410	40	1 25	4 50	
“ Marvel of Pompeii. Small Italian sort, two weeks earlier than Barletta.	.8440	35	1 00	3 50	
“ Vaugirard Winter. For pickling. Sow in September for early spring	Onions.....	pkt. 10c. .8450	35	1 00	3 25
“ Welsh. The leaves are used for salad early in spring. Sow in fall.....	pkt. 10c. .8520	30	90	3 00	
Yellow Danvers. A standard sort; early and a good keeper.....	.8540	20	65	2 25	
“ Globe Danvers. Of more globular shape; keeps well.....	.8550	20	65	2 25	
“ Large Globe. (Southport Strain.) The finest large yellow...	pkt. 10c. .8560	30	90	3 00	
“ Globe Australian......	.8565	20	65	2 25
“ Prizetaker. Immense size; globe shaped.....	pkt. 10c. .8570	20	65	2 00	
“ DENIA. Imported from Spain. It is generally conceded that this is the	parent type of the well-known Prizetaker, of which, however, it is a far	superior strain. Expected.....	pkt. 25c. .8574	75	
“ Strasburg, or Dutch. Fine keeper; flat; yellow skin; white flesh...	.8580	20	60	2 00	
“ Ailsa Craig Mammoth. A splendid yellow globe variety; grown largely	for exhibition purposes. Great forcer.....	pkt. 10c. .8600	40	1 25	4 00

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Yellow Globe Danvers Onions (See Page 36)

ONIONS—Continued

		Oz.	¼lb.	Lb.
Red Australian Brown. Medium size; hard; solid; very early.....	8700	\$0 20	\$0 60	\$2 00
" Bermuda (Teneriffe-grown.).....	pkt. 5c. 8710	25	75	2 50
" Large Wethersfield. Half-early, and a good keeper; large size ..	pkt. 5c. 8720	20	60	2 25
" Large Globe. (Southport strain.) The finest large red sort....	pkt. 10c. 8730	20	60	2 25
" Early Flat.....	8750	20	65	2 25
" " Red Globe.....	8760	20	65	2 25

All 5 cents per packet except where quoted otherwise

ONION SETS

Plant in drills about 12 inches apart and 4 inches in the rows. Give high culture.

		Oz.	½ pk.	Pk.
Yellow Onion Sets.....	} These are the prices ruling in January; } later on they may be higher	\$0 25	\$0 75	\$1 25
White Onion Sets.....		30	90	1 50
Red Onion Sets.....		30	85	1 40

PARSLEY

PERSIL

Perijil

Peterfilie

CULTURE.—Soak the seeds a few hours in luke warm water, and sow early in spring and until the middle of July, in drills 1 foot apart. Have the soil thoroughly pulverized, and, after sowing the seed, pat it down lightly with the spade. Thin out the plants to 4 inches. To preserve in winter, transplant to a light cellar or coldframe. No. 8870 should be thinned out while young, and managed in after cultivation the same as carrots and parsnips. The roots are edible either raw or cooked.

		Oz.	¼ lb.	Lb.
Thorburn Extra Curled. Superior.....	8850	\$0 10	\$0 25	\$0 75
Thorburn Champion Moss Curled. Pretty.....	8855	10	25	75
Plain. The ordinary form.....	8865	10	20	60
Hamburg, Thick-rooted.....	8870	10	25	75

All 5 cents per packet

PARSNIP

PANAIS

Chirijia

Pastinake

CULTURE.—Sow as early in the spring as the ground can be worked, in rich soil, in drills 18 inches apart. The ground should be well and deeply dug. Thin to 6 or 8 inches in the rows. Hoe and cultivate often to keep down weeds.

		Oz.	¼lb.	Lb.
Thorburn Hollow Crown. A market-gardener's strain.....	Pkt. 5 cts. 8890	\$0 10	\$0 20	\$0 50
Early Round.....	Pkt. 5 cts. 8895	10	20	50

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

PEAS

Pois *Chicharos o Guisanthes* Erbsen

CULTURE.—A week may be gained in earliness by sowing a quantity in moist sand placed in a box in the cellar, and planting outside when well sprouted. Light, dry soil, not over rich, suits the Pea. Sow as early as the ground can be worked, and again every ten days for succession. Peas may be sown in this vicinity as late as the 20th of August. Medium and Late Peas must be planted early; Extra-Earlies may be planted again in August. Sow in single or double rows, from 4 to 6 feet apart according to the different heights, about an inch apart in the row (except such sorts as we note to sow thinly), and 4 inches deep; one quart to 100 feet of drill. In this climate, the O'Rourke Pea, if planted from the 10th to the last of August, will produce a fair crop for fall picking, when Peas will be most acceptable. Hoe often and keep the ground clean and fine. The tall sorts can be made to bear more freely by pinching in. The dwarf varieties may be grown in beds like bush beans with rows about the same distance apart. The holes which are sometimes found in Peas are caused by the Pea weevil (*Bruchus pisi*). The beetles lay their eggs on the young pods, and the larvae as soon as hatched, make their way through the pods and into the nearest Peas. If the new aphide attacks the Peas, spray the vines every day with clear water of the same temperature as the atmosphere.

Those marked with a star (*) are wrinkled marrows, and, unless otherwise stated, should be sown thicker than the round Peas and not until the ground has become warm, as they are more liable to rot. They are the finest flavored of all Peas. Those marked thus (†) are large-podded sorts.

We supply packets of Peas at 10 cts. each, postpaid, except where quoted otherwise; other quantities NOT prepaid. Add postage at the zone rate of 1 lb. per pint, 2 lbs. per quart.



Gradus

EXTRA-EARLY PEAS

	Height in feet	Per pint	Per quart	Per ½ pk.	Per pk.
Thorburn Extra-Early Market. Our standard market-garden extra-early Pea; productive and profitable to grow.....	8900 2½	\$0 20	\$0 35	\$1 25	\$2 00
Daniel O'Rourke, Improved. Extra early; favorite sort.....	8910 2½	20	35	1 25	2 00
First-of-All. First-class selected strain of extra-earlies.....	8920 2½	20	35	1 25	2 00
The Leader. "Round seeded Gradus." Long pods.....	8925 3	25	45	1 50	2 50
Alaska. One of the very earliest blue Peas; quite productive.....	8930 2½	20	35	1 25	2 00
*† Thomas Laxton. A cross between Gradus and one of the extra-early sorts. Ripens within a day or two of the earliest round varieties; very productive. The pods are large and contain seven or eight large, wrinkled Peas of the finest flavor.....	8940 3	25	45	1 50	2 50
*† Gradus, also called Prosperity. One of the finest extra-early Peas. Ready to pick about four days after 8900. Pods very large, filled with large, wrinkled Peas of finest quality.....	8950 3	25	40	1 35	2 25
Ameer (Claudit). Finest quality exceedingly productive.....	8970 2½	20	30	1 25	2 00
* American Wonder. Early and productive; fine quality.....	8980 1	20	35	1 25	2 00
* English Wonder. Very prolific and early.....	8986 1½	20	35	1 25	2 00
* Sherwood. Pods large deep green color.....	8988 1	25	40	1 35	2 25
* Sutton's Excelsior. As early as American Wonder, with much broader pods, filled with large Peas of finest flavor; very prolific.....	8990 1	25	40	1 35	2 25
* Nott's Excelsior. Splendid early wrinkled sort; very prolific.....	9000 1	20	35	1 25	2 00
Premium Gem. Early, straight pods, well filled.....	9010 1	20	35	1 25	2 00
* Little Gem. Early; straight pods.....	9020 1½	20	35	1 25	2 00
* Little Marvel. A few days earlier than English Wonder and with larger pods. This variety is an improvement on English Wonder and in habit is very similar. Remarkably prolific.....	9030 2	25	40	1 35	2 25
*† Laxtonian. Very large, dark green, curved pods and Peas of finest flavor; great yielder; very early.....	pkt. 15c. 9040 1½	25	45	1 50	
* Richard Seddon. The best dwarf extra-early.....	pkt. 15c. 9045 1½	25	45	1 50	

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

PEAS—Continued

EARLY AND MEDIUM PEAS

	Height in feet	Per pint	Per quart	Per ½ pk.	Per pk.
* Advancer. A fine standard sort of excellent quality.....	9130 2½	\$0 20	\$0 35	\$1 25	\$2 00
* Abundance. Long, round, well-filled pods. Sow thinly.....	9160 1½	20	35	1 25	2 00
* Horsford's Market-Garden. On the style of Advancer; prolific.....	9170 2½	20	35	1 25	2 00
† Pride of the Market. Very large pods; green Peas. Sow thinly.....	9190 2	20	35	1 25	2 00
* Champion of England. A well-known standard sort. Sow thickly.....	9200 5	20	35	1 25	2 00
* Dwarf Champion (Juno). A dwarf form of the popular Champion of England, with large pods; very productive; finest quality.....	9210 2	20	35	1 25	2 00
*† Duke of Albany (American Champion). Immense pods on style of Telephone; very superior.....	9220 5	25	45	1 50	2 50
* Senator. Handsome round pods well filled, good flavor, productive.....	9275 3	25	45	1 50	
Yorkshire Hero. A spreading variety, productive. Sow thinly....	9300 2½	20	35	1 25	2 00

MAIN- AND LATE-CROP PEAS

*† Admiral Dewey. Enormous pods; large wrinkled Peas of fine flavor; very productive.....	9400 3½	25	45	1 50	2 50
*† Stratagem. Very large pods; Peas of finest quality.....	9420 1½	25	45	1 50	2 50
Potlatch. A large podded Pea; fine.....	9430 1½	25	45	1 50	2 50
† Telegraph. Large pods and Peas.....	9440 4	20	35	1 25	2 00
*† Telephone. Enormous pods and Peas of best quality.....	9450 4	25	45	1 50	2 50
Boston Unrivalled. Large pod prolific suitable for light soil.....	9455 4½	25	45	1 50	2 50

Quite Content.

The largest podded variety yet introduced. The pods mostly grow in pairs and well filled with large Peas of excellent flavor. It is exceedingly prolific; a stout, robust grower; height about 5 feet. has been pronounced by growers to be the finest second early Pea.

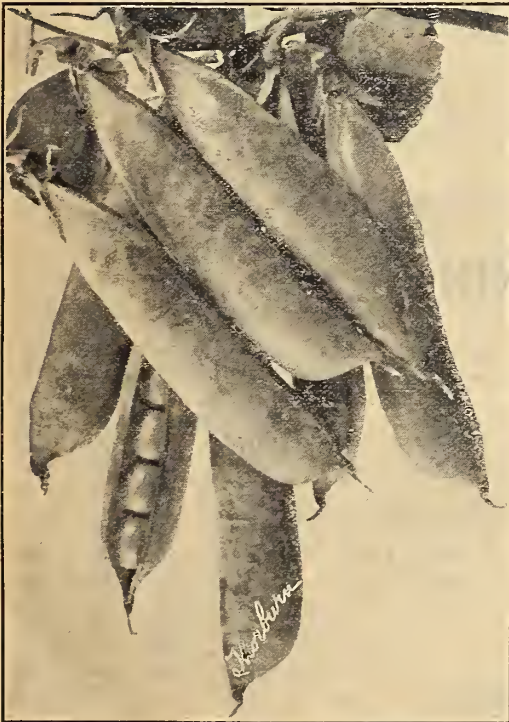
Quite Content.	9456 5	30	50	1 75	3 00
Late White Marrowfat. Very hardy and prolific.....	9460 4	20	35	1 25	2 00
Late Black Eyed Marrowfat. Very hardy and prolific.....	9470 3	20	35	1 25	2 00

SUGAR PEAS (EDIBLE PODS)

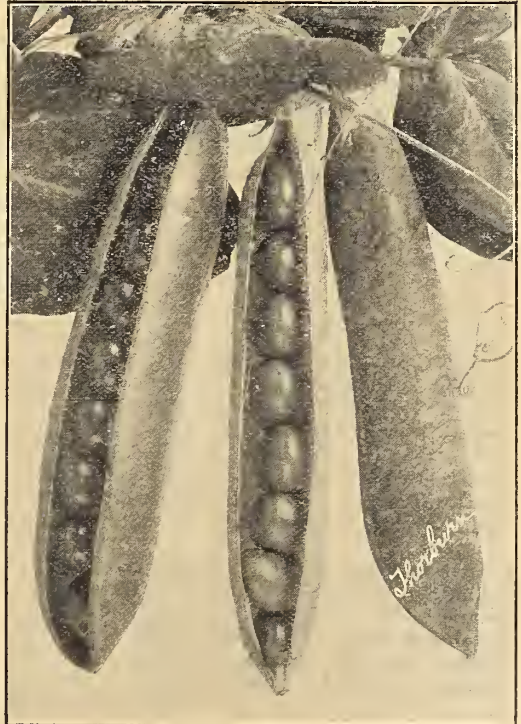
Sugar Peas have edible pods which are eaten when young.

Mammoth Podded Sugar. Immense pods.....	9540 5	30	45	1 50	2 50
Mammoth Melting Sugar.	9560 4	30	50		
Luscious Sugar.	9564 4	30	50	1 75	3 00

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Alaska (see page 38)



Telephone

PEPPER

PIMENT *Pimiento* Pfeffer

CULTURE.—Sow in hotbeds in March and, when the soil has become warm, set in rows 2 feet apart and 18 inches in the rows. Hoe frequently. The plants may also be forwarded in small pots.

Bell, Large. Large; bright red; largely used for pickling. It is of such mild flavor that it may be eaten as a vegetable.9650 \$0.35 \$1.00 \$3.50

CHINESE GIANT. Very large; flesh very mild and thick; bright scarlet color. 9660 50 1.50 5.00

Cayenne Long Red. Slender pods, 3 in.; pungent. 9670 40 1.25 4.00

Crimson Giant. Brilliant color; not sweet.9685 50 1.50 5.00

Golden Dawn. Sweet; very handsome and distinct; of mild flavor; small . . .9690 40 1.25 4.00

Monstrous, Sweet. Very large and of mild flavor; for use when green. . .9710 Expected

Neapolitan. Early and productive. Large and sweet.9720 Oz. ¼ lb. Lb. \$0.40 \$1.25 \$4.00

Pimiento dulce (Perfection Sweet Pepper). A very sweet pepper, piquant flavor, not fiery, medium size, thick skinned and of brilliant scarlet.9725 50 1.50 5.00

Red Chili. Productive; small; red and very pungent.9750 40 1.25 4.00

Red Cluster. A new type of Chili, with upright, bright red fruits.9760 40 1.25 4.00

RUBY GIANT. Large; desirable shape for stuffing. Mild and delicate.9764 50 1.50 5.00

Ruby King. Bright red; 4 to 6 inches long; mild; best for stuffing.9770 40 1.25 4.00

Squash, Large. Productive; for pickles.9780 50 1.50 5.00

Sweet Mountain. Large size; regular; mild flavor.9790 45 1.35 4.50

Sweet Spanish. Large, mild; used for salad.9800 40 1.25 4.00

Tabasco. *True.* Bush 3 feet high; small, long, bright red fruit in clusters; very hot; best for pepper-sauce and pickling.pkt. 15c. .9810 60 1.75 6.00

THORBURN UPRIGHT SWEET SALAD. Finest of all. Handsome, productive and of finest quality; bright scarlet; flesh thick, mild and very sweet. The Peppers are as large as Ruby King, and are all borne upright, clear of the ground. The flesh is so thick and the skin so tender that it may be fried like a beefsteak, and so sweet that it may be eaten like an apple.pkt. 15c. .9840 60 1.75 6.00

All 10 cts. per packet, except where quoted otherwise.



Chinese Giant Pepper

PUMPKIN

POTIRON *Calabaza* Große Kürbis

CULTURE.—May be planted middle of spring, among the Indian corn or in the field or garden, in hills 8 to 10 feet apart each way, four seeds in a hill. In other respects is cultivated in same manner as melons and cucumbers. Avoid planting near other vines.

Large Cheese. Flat; one of the best varieties for family use.10150 \$0.10 \$0.20 \$0.60

Early Sugar. Fine-grained, sweet and prolific; small; yellow.10170 10 20 55

Golden Oblong. Orange skin; light yellow flesh; fine quality; good keeper.10200 10 20 60

Cushaw Striped. A splendid striped crookneck variety.10220 10 20 60

Cushaw White, or Jonathan. A white crookneck variety of excellent quality; fine for pies.10224 10 20 60

Tennessee Sweet Potato. Bell-shaped; thick, white flesh; fine for pies.10230 10 20 60

Calhoun. Very superior quality. Yellow flesh. Fine for pies.10240 10 20 60

Japanese Pie. Early; dark green; flesh yellow.10246 10 25 75

Mammoth King. Grows to an enormous size.10260 10 30 1.00

Quaker Pie. Very prolific and a good keeper; fine for pies.10280 10 25 75

Connecticut Field. Grown in cornfields for stock.½ lb. 30c. .10300 10 20 50

All 5 cts. per packet

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.



Sir Walter Raleigh Potatoes

POTATOES, Grown Expressly for Seed (IN BARRELS)
 POMME DE TERRE *Patatas* Kartoffeln

CULTURE.—Three to four barrels to the acre. In order to have the best success in growing Potatoes, it is necessary to plant as early as the ground can be made ready. Select a rich soil, and plant in rows 3 feet apart, and the sets 1 foot in the rows. If wood-ashes and plaster can be procured, sow a good dressing over the field after the Potatoes are up. If a very early crop is desired, it will be necessary to sprout the Potatoes before planting. Cut the Potatoes into pieces of any size desirable, and place in a warm, light room for four to six weeks before required for planting in the open ground. During this time shoots will start out strong and vigorous, so that, as soon as planted, they will send out roots and grow much more rapidly than those treated in the ordinary way. Another method is to place the sets in a hotbed two weeks before they are wanted and then lift carefully and set out on fresh horse dung, so that the heat will cause them to start at once. If the Colorado Potato beetle makes its appearance the vines must be dusted with paris green mixed with about 80 parts of plaster; or what is better, mix the paris green in water, one small tablespoonful to a pailful, and apply with a small brush or broom. Take care to stir the mixture often, or else the paris green will settle to the bottom. Two or three applications during the season will usually suffice to clean off all the beetles.

EARLY POTATOES

NOROTON BEAUTY. The finest and most productive extra early Potato grown. Handsomer in appearance and more uniform in shape than any other sort. Its table quality is superb. Original stock	½ pk.	Pk.	¼ bus.	Bus.	Bbl.
10400	\$0 90	\$1 50	\$2 25	\$4 00	10 00
Thorburn's Beauty of Hebron. Slightly flesh-colored skin, with pure white flesh. Early, very productive and of the finest quality.	80	1 25	2 00	3 50	8 00
Irish Cobbler. Fine white; vigorous grower.	70	1 00	1 75	3 25	7 50
Early Rose. Popular market sort; very early; fine quality; very productive.	60	90	1 60	3 00	7 00

INTERMEDIATE AND LATE POTATOES

Gold Coin. A splendid main-crop variety of remarkable productiveness and finest table quality; slightly oblong form, light golden skin; flesh pure white, fine-grained; cooks very dry.	60	90	1 60	3 00	7 00
Carman No. 1. This most valuable Potato was introduced by us in 1894, and it is a recognized high-class standard sort the world over. The finest second-early Potato ever offered.	60	90	1 60	3 00	7 00
Sir Walter Raleigh. Very productive; white flesh of best quality.	70	1 00	1 75	3 25	7 50
Rural New Yorker. An old standard Potato. Very few and shallow eyes; fine, pure white skin and flesh; immense yielder; fine table quality, cooking very mealy.	70	1 00	1 75	3 25	7 50
Green Mountain. Oval shape, white skin and flesh; excellent; heavy yielder.	70	1 00	1 75	3 25	7 50

These are prices ruling in January; later on they may be higher. We ship Potatoes entirely at customer's risk. We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound.

RADISH

RADIS ET RAVE *Rabanos y Rabanitos*
Radies und Rettig

CULTURE.—Sow as soon as the ground is dry in the spring in rows 8 to 12 inches apart, every week or ten days for a succession up to the middle of June after which they are but little used unless a cool northern spot can be had, where the ground is shaded during a part of the day. They should be sown in light rich soil, as a crisp Radish cannot be produced in heavy soils. Sow also in early fall for late crops and winter use. Sow 8 to 10 lbs. to the acre. Radishes should be eaten when quite small; it is a mistake to let them grow too long and too large. This applies particularly to the French Breakfast and small turnip-shaped sorts. Varieties marked with an asterisk (*) are best suited for market gardeners.

		Oz.	¼ lb.	Lb.
*Turnip, Early Scarlet.	Very early. The French favorite.....	10680	\$0 10	\$0 20 \$0 65
" " " "	Forcing. Crisp; very early.....	10690	10	20 65
* " " " "	White-tipped. Very early; for frames or outdoors.....	10710	10	25 75
" " " "	Deep Scarlet. Very early; crisp.....	10740	10	20 65
" " " "	Scarlet Gem White-tipped Forcing.....	10765	10	20 60
* " " " "	SCARLET GLOBE-SHAPED. Fine for forcing or open ground. The Radishes are almost round, of a beautiful rich scarlet, very tender and crisp.....	10810	10	25 75
* " " " "	Non Plus Ultra. Extra-early scarlet forcing.....	10840	10	30 90
" " " "	Round White Forcing.....	10850	10	30 90
" " " "	Yellow. Extra early.....	10890	10	30 1 00
*French Breakfast.	Pink and white; early.....	11000	10	25 75
*Olive-shaped White Forcing (White Rocket).	A forcing strain of above.....	11060	10	25 75
Olive-shaped Scarlet.....		11094	10	25 75
Olive-Shaped Scarlet White Tipped (Rocket).....		11110	10	25 75
Half-Long Deep Scarlet (Paris Beauty).	Flesh bright and crisp.....	11140	10	25 75
Half-Long Delicacy.	Half-long, smooth, snow-white; fine forcer.....	11150	10	25 75
Half-Long White Forcing.	Splendid pure white; fine forcer.....	11160	10	25 75
*Long Scarlet Short Top.	Very long, crisp; for frames or out-doors.....	11180	10	20 60
Long Brightest Scarlet or Cardinal White-tipped.....		11190	10	20 60
Long White Naples, or Shepherd.	Slender; for summer use.....	11210	10	20 60
*Long White Vienna, or Lady Finger.	Crisp and tender in summer.....	11220	10	25 75
Long Icicle.	Pure white, of fine flavor; suitable for forcing.....	11230	10	25 75
Long Scarlet Chartier.	Tipped white splendid summer variety.....	11245	10	20 60
*Long Wood's Frame.	Long, red, crisp and good forcer.....	11250	10	25 75
Round Scarlet China.	Fine for winter or summer. Matures in 6 to 8 weeks.....	11290	10	20 60

*White Strasburg Summer. Very large; the German's favorite..... 11320 10 20 60

*Winter Scarlet Chinese. Oblong. Very handsome and distinct and keeps well 11380 10 20 60

Winter Long Black Spanish. The popular wintersort. 11390 10 20 65

Winter Half-Long Black or Grey Spanish. Very fine strain..... 11400 10 25 75

Winter Round Coal-Black Spanish. Fine for winter 11420 10 30 1 00

Sakurajima (Mammoth Japan). The largest sort in cultivation. Sow early in rich soil. In Japan it grows as much as 21 inches long and 43 inches in circumference. Thin well to allow of proper development... 11480 15 50 1 50

Mammoth "Tokyo." 11490 15 50 1 50



Scarlet Globe Shaped Turnip Radish

All 5 cents per packet

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

RAMPION

RAIPONCE

Reponche

Rapunzel Rube

CULTURE.—Sow in the open ground early in May, either broadcast or in drills 10 inches apart. As the seed is very fine, it merely requires to be pressed firmly into the soil. Thin out the seedlings if they come up too quickly, and water frequently during hot weather. The roots may be gathered for use from October onward throughout the winter. The roots and leaves are excellent as salad. **11550.** Pkt. 10 cts., oz. 30 cts.

ROQUETTE

CULTURE.—Sow early in spring, in rows, and thin out to 8 to 10 inches. If kept well scuffled and watered the tart flavor of the leaves is greatly diminished. This flavor is not pronounced in the small leaves, which are used for salad. The flowers, appearing from May to June, have very much the odor of orange-blossoms. **11590.** Pkt. 5 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

RHUBARB

CULTURE.—Sow seed in a coldframe, in a fine, rich, sandy loam, about the first of March, in drills 4 inches apart. Keep the frames covered during nights and cold days, so that the soil will not freeze, and in six to eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and set in rows 12 inches apart and 12 inches in the row. The following spring transplant again to a permanent location, setting 4 to 5 feet apart each way. In good soil, Rhubarb is ready to use the second year from seed. When roots are set out plant them 4 to 5 feet apart each way, and keep weeds down. If roots are used, a crop may be had after one season, which is much better than sowing seed where only a few plants for family use are needed. In the fall, the bed should have a thick dressing of coarse manure, to be spaded under in spring.

	Pkt.	Oz.	¼ lb.	Lb.
Victoria	11640	\$0 05	\$0 15	\$0 35 \$1 00

ROOTS, of Victoria only.

Strong	11700	15 cts. each,	\$1.50
		per doz.	

Transportation charges extra.

SCOLYMUS

The roots resemble a small parsnip, and will keep through the winter like a turnip. It is cultivated exactly like the carrot, except that it should be grown in rows 3 feet apart and 18 inches in the rows. It is eaten boiled like salsify. **11740.** Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$2.00.

SCORZONERA

CORZONERE *Es. scorzonera* *Schwarzwurzel*

CULTURE.—Cultivate the same as salsify. It is cooked in the same manner, but, on account of being somewhat more difficult to raise, is seldom seen in cultivation. Considered by many superior to salsify. It is also called Black Salsify. **11780.** Pkt. 10 cts., oz. 30 cts., ¼ lb. \$1.00, lb. \$3.00.

SALSIFY, or VEGETABLE OYSTER

SALSIFIS *Ostion Vegetal* *Haferwurzel*

CULTURE.—Sow as early as the ground can be worked in the spring, in drills 12 inches apart, 1 inch deep, and thin out to 6 inches in the row. Keep the plants free from weeds. Cultivate the same as carrots and parsnips. A part of the crop may be left in the ground till spring, when it will be found fresh and plump. The roots are cut into pieces ½ inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like parsnips, and have a sweet and agreeable flavor. Mashed and fried, the flavor is much like that of the oyster. Sow eight to ten pounds to the acre.

Mammoth Sandwich Island. Large. **11850.** Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.



Mammoth Sandwich Island Salsify

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

SORREL

Oseille

Acedera

Sauerampfer

CULTURE.—Sow in spring in drills 18 inches apart, in a rich soil, and keep the flower-stems cut off as they appear. It remains in the ground year after year, and needs to be taken up and divided only once in four or five years. To be cut and cooked precisely like spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds spinach. It is also used for soups. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

		Oz.	¼ lb.	Lb.
Garden, Large French.....	11930	\$0 20	\$0 60	\$2 00
“ Belleville.....	11934	20	60	2 00
“ Mammoth Lyons. Extra-large improved strain.....	11940	30	75	2 50
“ Golden-leaved Lyons.....	11944	30	75	2 50
“ Chambourcy. A new, large-leaved desirable sort.....	11960	20	60	2 00

All 5 cents per packet



Giant Lucullus Swiss Chard

SWISS CHARD, or SILVER BEET

Silver Leaf. This is a Beet producing leaves only, of a quality superior to those of the ordinary Beet, and excellent as greens. Cultivate about the same as spinach, by sowing the seed in early spring in drills about a foot apart. As it grows, thin out for use, and keep clear of weeds if success is desired. Good cultivation will increase the delicacy and tenderness of the leaves. 1690. Pkt. 5 cts., oz. 15 cts., ¼ lb. 40 cts. lb. \$1.25.

Giant Lucullus. Large, crinkled leaves; tender and of fine flavor; dark green; pure white ribs. 1700. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

SPINACH

EPINARD

Espinaca

Spinat

CULTURE.—Sow in early spring, in drills a foot apart (10 to 12 lbs. to the acre), every two weeks for a succession, and, as it grows, thin out for use. For fall use, sow in August, and for winter crop in September. Cover that which is left out over winter with straw or leaves after the weather becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand in hills 2 feet apart each way, three or four seeds in a hill.

		Oz.	¼ lb.	Lb.
Round Viroflay (Thick-leaved). Has very large, thick, dark green leaves; the favorite market-gardeners' sort for fall or spring sowing.....	12000	\$0 10	\$0 30	\$1 00
Long Season, Thorburn's. Stands longer before running to seed than any other sort except New Zealand.....	12010	10	30	1 00
Round-leaved Flanders. A standard sort.....	12020	10	30	1 00
Lettuce-leaved. Popular French sort.....	12040	10	30	1 00
Curled-leaved Savoy, or Bloomsdale. Large curled and wrinkled leaves; tender and of finest flavor.....	12050	10	30	1 00
Long-standing (Round Thick-leaved). Dark green; leaves large and thick; very long-standing. Best for spring growing.....	12060	10	30	1 00
Round Broad-Leaved. Grows quickly, hardy leaves, large and broad.....	12065	10	30	1 00
Victoria. Extra-dark, black-green color. Two or three weeks later than the ordinary "Long-standing." A fine variety for spring sowing.....	12070	10	30	1 00
Eskimo Giant. Dark green, large leaves.....	12090	10	30	1 00
Triumph. An improved long-standing sort.....	12100	10	30	1 00
Prickly, or Winter. Vigorous and hardy; recommended for fall sowing.....	12080	10	30	1 00
New Zealand Summer. Not a Spinach, but used as such. Grows 1½ feet high and is very prolific; does well in hot summer weather; valuable for hot climates. Soak the seed in hot water before sowing.....	12120	15	50	1 50

All 5 cents per packet

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Various Squashes

SQUASH

COURGE

Calabaza

Speise Kürbis

CULTURE.—Sow in hills in the same manner and at the same time as cucumbers and melons, the bush varieties 3 to 4 feet apart, the running kinds from 6 to 9 feet apart.

BUSH VARIETIES

	Oz.	¼ lb.	Lb.
Early Golden Bush. Fine for summer; not so early as the White Bush.	12200	\$0 10	\$0 25
Golden Custard. Mammoth strain of the Golden Bush. A valuable variety; golden yellow flesh; fine quality.	12210	10	25
Early White Scallop Bush. A good early shipping variety.	12220	10	25
Mammoth White Scallop Bush (Silver Custard). Not so early as the former but it produces larger fruits.	12224	10	25
Fordhook, White Bush. Oblong fruits, smooth, thin yellow skin.	12234	10	25
Summer Crookneck. Yellow fruit; distinct, best for summer.	12270	10	25
Giant Summer Crookneck. Double the size of the above.	12280	10	25
Cocozell Bush. (True Italian Vegetable Marrow.) A fine variety; oblong shape; skin smooth, dark green, marbled yellow or pale green.	12300	10	30

RUNNING VARIETIES

Bay State. Hard, blue shell; for fall or winter.	12400	10	25	85
Boston Marrow. Oval; bright orange; flesh yellow and fine.	12410	10	25	75
Cocanut. A beautiful little Winter-Squash, the size of a cocanut, cream-colored; fine quality; prolific.	12420	10	25	85
Delicata. Orange-yellow, striped green; small size, but very prolific; it is extra early, solid and a good keeper; flesh dry and of fine quality.	12440	10	25	75
Delicious. Green skin; orange flesh, fine-grained, sweet and dry.	12450	10	25	85
Essex Hybrid. A good fall and winter sort; fine-grained; rich flavor; very prolific.	12460	10	30	1 00
Hubbard. Well known and liked for late use; an excellent sort for pies.	12500	10	30	1 00
Golden or Red. Same as above, but with orange-red skin.	12510	15	30	1 00
Mammoth Warted. Immense size, covered with warts.	12530	10	30	1 00
Mammoth Chili. Rich orange flesh; grows to an enormous size.	12540	10	30	1 00
Whale. Enormous size; solid; bright orange flesh of fine quality.	12550	15	50	1 50
Marblehead. Gray skin; very productive; fine keeper.	12560	10	30	1 00
Orange Marrow. Quite distinct; very early, and of most delicate flavor; suitable for fall and winter.	12570	10	30	1 00
Warren. Superior quality. A type of the Essex Hybrid.	12610	10	30	1 00

All 5 cents per packet

VEGETABLE MARROW

Italian (Cocozelle di Napoli). Grows about 20 inches long, with a diameter of 3 or 4 inches. Skin smooth, dark green, marbled yellow or pale green. In Italy it is eaten when quite young.	12700	10	30	90
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TOMATO

TOMATO

Tomate

Siebessäpfel

CULTURE.—Sow in a hotbed in early spring, or the seed may be sown in shallow boxes and placed in a window when one does not wish to have the trouble of making a hotbed. Transplant to the open ground when all danger of frost is past, setting the plants 3 to 4 feet apart each way. Fruit may be had several weeks earlier by sowing seed quite early and transplanting to small pots. Tomatoes that have not ripened at the end of the season may be taken from the vines and placed in empty coldframes, or wrapped in tissue paper, and carefully packed in flat boxes—where a large proportion of them will ripen from time to time, frequently until Christmas.

The varieties marked * are best for forcing.

	Oz.	¼ lb.	Lb.
Acme. Medium size; smooth and good; crimson.....	12740	\$0 25	\$0 75 \$2 50
*Atlantic Prize. Extra early; smooth; medium scarlet; good size.....	12750	25	75 2 50
Beauty. Large, smooth, dark crimson; thick flesh; regular form.....	12770	25	75 2 50
Bonny Best. Very early; scarlet; medium to full market size; even, smooth and regular; valuable for home garden or market.....	12775	25	75 2 50
Buckeye State. Very large and productive; crimson; smooth, uniform, good quality.....	12780	25	75 2 50
*Carter's Sunrise. Early and productive; medium-sized, bright scarlet fruits; smooth and solid. For forcing or for outdoors.....	12794	35	1 00 3 50
Chalk's Early Jewel. Fine, large, solid, smooth, scarlet; similar to Stone; early.....	12800	25	75 2 50

All 5 cents per packet except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

TOMATOES—Continued

Coreless, Livingston's. Almost round; bright red; very productive. Ripens all over at once and being almost free from green core it is an exceptionally fine slicing sort.....**12810** \$0 30 \$0 85 \$3 00
Crimson Cushion. Extra large; handsome; bright crimson.....pkt. 10c.**12830** 35 1 00 3 50

CLUSTER, THORBURN'S IMPROVED (See Novelties)
 Pkt. 15 cts. Oz. 40 cts. ¼ lb. \$1 25 Lb. \$4 00

Dwarf Champion. Quite distinct; early; fruit like the Acme; crimson; of medium size; good quality.....**12840** 30 85 3 00
Dwarf Giant. Largest-fruited of all dwarf sorts; crimson; firm flesh of delicious flavor. Compact and vigorous grower.....pkt. 10c.**12844** 35 85 3 50
***Earliana.** Extra early; cardinal-scarlet; smooth.....**12850** 25 75 2 50
***Favorite.** Large, smooth, productive and good shipper.....**12900** 25 75 2 50
Fordhook First. Smooth; solid; crimson; medium size; early; very profuse bearer.....**12910** 25 75 2 50
***Frogmore Selected.** Medium size; bright, deep red; smooth; very solid and fine-flavored. An excellent sort for forcing under glass.....pkt. 10c.**12920** 30 85 3 00
Freedom. Early; regular and uniform; bright scarlet.....**12930** 25 75 2 50
Globe, Livingston's. Very early; crimson; smooth and of large size; very productive and a good keeper. A standard variety which retains its popularity.....**12940** 30 85 3 00
Golden Queen. Smooth; golden yellow; about size and form of Beauty; of good flavor and solid.....**12950** 25 75 2 50

June Pink. A very early market sort; crimson; smooth; medium size.....pkt. 10c.**12980** \$0 30 \$0 85 \$3 00

King of the Earlies. One of the very first to ripen; large; scarlet; fine for hot climates.. pkt. 10c.**12985** 30 85 3 00

Lemon Queen, Thorburn's. Most desirable of the yellow Tomatoes. Skin and flesh lemon with a faint rose blush....**12990** 30 85 3 00

Lorillard. Bright glossy red; smooth: of fine flavor and very early. Very productive and satisfactory.....pkt. 10c.**13000** 30 85 3 00

Mansfield Tree. Crimson fruit somewhat larger but on the same order as Mikado; adapted for training up trellis. Per pkt., 10c. **13024** 40 1 25 4 00

Matchless. Extra large, smooth and handsome; scarlet; very solid. Plant of vigorous growth and prolific.....**13030** 25 75 2 50

Michigan Early. Large, scarlet; smooth and solid.....**13035** 25 75 2 50

Mikado. Crimson; large, smooth and solid.....**13040** 25 75 2 50

Optimus. Medium size; cardinal-scarlet; smooth and solid; second-early.....**13050** 25 75 2 50

Paragon. Cardinal-scarlet; round; very productive.....**13060** 20 60 2 00

Perfection. Early, regular and productive; scarlet.....**13070** 20 60 2 00

Ponderosa. The largest variety in cultivation; crimson..... pkt. 10c. **13080** 40 1 25 4 00

RED ROCK. An improvement on the well-known Stone. Exceedingly firm-fleshed; very large size, and ripens evenly without cracking. The vine is a strong, vigorous grower and produces its fruit in great profusion...**13084** 25 75 2 50



Thorburn's Improved Cluster Tomato

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Noroton Forcing Tomato

THE NEW HONEY DEW MUSK MELON

A large, round, light colored melon, thin rind with thick, rich green flesh, delicious honey-like flavor, considered best of all melons.

Price per pkt. 15c.
per oz. 40c.

See also page 34

TOMATOES—Continued

*NOROTON FORCING (See Novelties)

Pkt. 15 cts. Oz. 40 cts. ¼ lb. \$1 25 Lb. \$4 00

	Oz.	¼ lb.	Lb.
Ruby Early. Very early; large size; color bright scarlet.....	13110	\$0 25	\$0 75 \$2 50
*Station Upright, Dwarf. Forms a compact bush, about 18 inches high; good forcer for pots and under glass; prolific; fruit scarlet; very ornamental and useful plant.....	pkt. 10c.	13114	40 1 25 4 00
*Stirling Castle. Small size; solid; finest flavor; scarlet; good for forcing under glass.....	pkt. 10c.	13120	40 1 25 4 00
Stone, Thorburn's. Very large; perfectly smooth; fine dark scarlet.....	13130	25	75 2 50
Stone Dwarf. In fruit resembling Dwarf Champion, but with much larger fruit. Color bright scarlet, perfect shape, very solid; of the best quality.....	13140	25	75 2 50
Success. Large; bright scarlet; smooth and solid; productive. Plant strong and thrifty in growth.....	13150	25	75 2 50
Terra-Cotta, Thorburn's Improved. Distinct in color and flesh; pure terra-cotta	pkt. 10c.	13180	30 85 3 00
Thorburn's Long-Keeper. Bright red; early and productive; fine keeper....	13194	25	75 2 50
Trophy. Very solid; standard late; fine canner; dark scarlet. A particularly vigorous and thrifty grower.....	13200	25	75 2 50
Trucker's Favorite. Crimson, large, smooth and very regular in form; solid.....	13210	25	75 2 50

All 5 cents per packet except where quoted otherwise.

SMALL-FRUITED TOMATOES

For pickling and preserving. Also invaluable for garnishing

Red Cherry. Small fruits, used for pickles; very handsome.....	13300	30	85 3 00
" Currant. Resembles the currant. Useful for preserves, pickles and exhibition purposes.....	pkt. 10c.	13310	45 1 25 4 50
" Peach. Resembling a peach; for preserves, pickles and exhibition.....	13320	30	85 3 00
" Pear. Fruit handsome and solid; fine for preserves.....	13330	30	85 3 00
" Plum. Bright red; round; regular for pickles;.....	13340	30	85 3 00
Strawberry (Winter Cherry or Husk Tomato). Yellow. Makes fine sauce....	13350	30	85 3 00
Yellow Cherry. For pickles and preserves.....	13360	30	85 3 00
" Peach. Beautiful clear yellow; perfectly resembles a peach.....	13370	30	85 3 00
" Pear. Handsome, yellow, pear-shaped fruits.....	13380	30	85 3 00
" Plum. Round and regular; bright yellow; used for pickles.....	13390	30	85 3 00

All 5 cents per packet, except where quoted otherwise

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

TURNIP

NAVET *Nabo* Rübe

CULTURE. — For early Turnips, sow as soon as the ground opens in spring. Nos. 13845 to 13930 should be sown from any time in July to first of August; but the other kinds, for winter use, may be sown from the middle of July to the end of August. Turnips are generally sown broadcast, but much larger crops are obtained (particularly of the Rutabagas) by cultivating in drills 18 inches apart, and thinning to 6 inches in the drill. Sow in drills, one pound to the acre; broadcast, two to three pounds to the acre.

WHITE VARIETIES

Cow Horn. Long, white, in shape resembling a cow's horn, 13500, oz. 10c., ¼ lb. 20c., lb. 65c.

Early Snowball. Small, and of rapid growth; pure white, 13510, oz. 10c., ¼ lb. 20c., lb. 65c.

German Teltow. Smallest of all; early; distinct flavor; best for pickling, 13520, oz. 10c., ¼ lb. 20c., lb. 75c.



Early Snowball Turnip

	Oz.	¼ lb.	Lb.
Globe-shaped Red-top. A standard sort in the New York market.	10	20	50
Globe Pomeranian White. Good either for table or stock.	10	20	50
Jersey Lily (White Model). Snow-white; globular.	10	20	60
Kashmyr Scarlet. Bright, handsome color; small; flat; extra early; pure white flesh of finest quality.	10	20	55
Milan, Early Purple-Crown. Earliest of all; white, with purple top. Flesh of fine quality and tender.	10	30	1 00
Milan, Early Pure White. Very handsome; pure white; crisp and tender; as early as above.	10	30	1 00
Strap-Leaf, White. A good early, white, flat sort.	10	20	50
Strap-Leaf Red-Top. The popular fall flat sort.	10	20	50
White Egg. Oval; handsome and sweet.	10	20	50

All 5 cents per packet

YELLOW VARIETIES

Aberdeen Yellow. Hardy, productive and a good keeper.	10	15	40
Golden Ball. Very handsome; keeps fairly well.	10	20	50

All 5 cents per packet

RUTABAGA

Bangholm. Extra selected. Small neck; yellow flesh; dark purple top.	10	20	50
Thorburn's Family. For family use.	10	20	50
Thorburn's Purple Top, Improved. (L. I. grown.)	10	25	75
White-fleshed, English Neckless.	10	20	50
Yellow-fleshed English Neckless.	10	20	60
Yellow Perfection. Extra fine.	10	20	50

All 5 cents per packet

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound



Peppermint Lavender Sweet Fennel Sage Summer Savory

Seeds of Pot, Sweet and Medicinal Herbs

		Pkt.	Oz.	Lb.
Angelica, Garden. For flavoring wine and cakes..	<i>Archangelica officinalis</i>	14010	\$0 05	\$0 25
Anise. Seeds aromatic and carminative.....	<i>Pimpinella anisum</i>	14020	05	15
Balm. For culinary purposes.....	<i>Melissa officinalis</i>	14040	10	25
Basil, Sweet. Culinary herb used for flavoring soups, etc.....	<i>Ocimum Basilicum</i>	14050	05	20
Basil, Dwarf or Bush. Culinary herb.....	<i>Ocimum minimum</i>	14060	05	25
Borage. Leaves used as a salad.....	<i>Borago officinalis</i>	240	05	15 1 50
Caraway. For sowing. Used in flavoring liquors and bread.....	<i>Carum Carui</i>	14100	05	10 75
Coriander. Seeds aromatic. For sowing.....	<i>Coriandrum sativum</i>	14130	05	10 50
“ For flavoring.....				30
Dill. For sowing. Seeds used for flavoring vinegar.....	<i>Anethum graveolens</i>	14150	05	15 1 00
Elecampane. Has tonic and expectorant qualities.....	<i>Inula Helenium</i>	14160	10	30
Fennel, Sweet. Seeds aromatic; for flavoring.....	<i>Anethum Fœniculum</i>	14170	05	10 90
“ Florence. In flavor resembling celery.....	<i>Anethum Fœniculum</i>	14180	05	10 1 00
Foxglove, Purple. Has medicinal qualities.....	<i>Digitalis purpurea</i>	14190	05	30
Horehound. Has medicinal qualities.....	<i>Marrubium vulgare</i>	14230	05	30
Hyssop. Has medicinal qualities.....	<i>Hyssopus officinalis</i>	14240	05	30
Lavender. True. For oil and distilled water.....	<i>Lavandula vera</i>	14250	15	60
“ Possessing qualities as above in a lesser degree.....	<i>Lavandula spica</i>	14260	10	30
Marjoram, Sweet. Is used in seasoning.....	<i>Origanum Majorana</i>	14290	10	40
Mint, Curled.	<i>Mentha Crispa</i>	14300		
“ Peppermint. } Crop Failed {	<i>Mentha piperita</i>	14310		
“ Spearmint.. }	<i>Mentha viridis</i>	14314		
Pennyroyal. Has medicinal qualities.....	<i>Heedeoma pulegioides</i>	14320	15	1 00
Rosemary. Yields an aromatic oil and water.....	<i>Rosmarinus officinalis</i>	14330	10	50
Rue. Said to have medicinal qualities.....	<i>Ruta graveolens</i>	14340	10	40
Sage, Broad-Leaf. A culinary herb; also used in medicine.....	<i>Salvia officinalis</i>	14360	05	25 2 50
“ Red. Used as a culinary herb; also in medicine.....	<i>Salvia Horminum</i>	14370	10	20 1 50
“ Purple. Used as a culinary herb; also in medicine.....	<i>Salvia Horminum</i>	14380	10	20 1 25
Savory, Summer. Is used as a culinary herb.....	<i>Satureja hortensis</i>	14390		Crop failed
“ Winter. Is used as a culinary herb.....	<i>Satureja montana</i>	14400	10	50
Tansy. Generally used in bitters.....	<i>Tanacetum vulgare</i>	14410	10	40
Tarragon. True. Does not produce seed. Roots in fall and spring. 35c. each, \$3.50 per doz.....	<i>Artemisia Dracunculus</i>	14420		
Thyme, German Winter. Is used as a seasoning..	<i>Thymus vulgaris</i>	14430	10	40 4 00
“ English. Broad Leaved.....	<i>Thymus vulgaris</i>	14435	10	40 4 00
“ French	<i>Thymus vulgaris</i>	14440	10	50
Wormwood. Has medicinal qualities.....	<i>Artemisia absinthium</i>	14460	10	30 3 00

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

Tobacco Seed

		Oz.	Lb.
Climax. A cross between Burley and Sterling; fine bright variety.....	14610	\$0 30	\$3 00
Connecticut Seed Leaf. The popular sort, used for cigar wrappers.....	14620	30	3 00
Conqueror. Superb bright yellow.....	14622	30	3 00
Gold Finder. A cross between Yellow Oronoka and White Burley.....	14626	30	3 00
Gooch, Long-Leaf, Improved. Fine for sandy soils.....	14628	30	3 00
Havana. Seed gathered for us from the celebrated plantations of the "Vuelto de Abajo.".....	14630	45	4 50
Hester Improved. Yellow; fine for cigars. Adapted to a greater variety of soils and to a wider range of latitude than most other yellow sorts.....	14634	30	3 00
Kentucky Yellow. Leaf of large size, handsome shape, excellent quality and of surprisingly fine texture, taking size into consideration.....	14650	30	3 00
Oronoka White-Stem. Plants are large, with long, medium-broad leaves of handsome shape, fine texture and good body.....	14662	30	3 00
" Yellow. A reliable old yellow variety.....	14664	30	3 00
" Sweet. Plants of medium size; leaf is long and somewhat narrow, fine-grained and of sweet flavor.....	14668	25	2 50
Pennsylvania Seed Leaf. A first-class standard cigar variety.....	14670	25	2 50
Persian Rose. Fine, may be relied upon to make fine cigars.....	14680	30	3 00
Pryor, Blue. The genuine James River favorite.....	14690	25	2 50
" Yellow. Preferred by many for brights; succeeds where the other yellow sorts fail.....	14700	30	3 00
Safrano. Rich saffron-yellow color; soft silky texture and fine flavor.....	14710	25	2 50
Sterling. The newest and brightest of the yellow type, and the earliest to ripen.....	14720	30	3 00
Sumatra. Home-grown; well-known sort; needs no description.....	14724	80	8 00
Turkish. Home-grown. Needs no description.....	14734	60	6 00
" Latakia. Imported seed.....	14736	60	6 00
Virginia Oak Hill Yellow. Resembles White Burley in color and Oronoka in shape and habit. Unsurpassed in delicacy of fiber.....	14740	30	3 00
White Burley, Improved. Leaf is large and broad, with yellowish white stem and ribs.....	14756	30	3 00
Yellow Mammoth. Large yielder.....	14760	30	3 00

All 10 cents per packet. Not less than 10 cents' worth sold

BIRD SEED, ETC.

Prices of Bird Seed fluctuate considerably throughout the year. The prices now quoted are those ruling as we go to press, and may be higher or lower as the season advances. Bags and transportation charges extra.

	Lb.		Lb.
Canary Seed, Plain. Best grade.....	\$0 25	Millet, Golden	\$0 12
Canary Seed, Mixed. Best grade.....	25	Rape, English	15
Hemp	15	" German	15
Sorghum Mixed (Kaffir Corn). For pigeons, etc.....	12	Gravel for Cages	per qt., 6 cts
Lettuce Seed	20	Cuttlefish Bone	60
Maw, Blue Poppy	50	Sunflower Seed for Parrots	12

VEGETABLE PLANTS

We shall have some of the standard sorts at their proper seasons

ESCULENT PLANTS AND ROOTS

Artichoke Roots, Jerusalem	per qt., 25c.	Doz.	100	1000
" Globe. Large, extra-strong roots.....	Each 25 cts.		\$2 50	
Asparagus Roots. Plant either in fall or spring.				
Colossal. Two years old; in bundles of 50.....	50 for 60 cts.		\$1 00	\$8 00
" Three years old.....	50 for 1.00		1 50	
" Four years old; for forcing.....	50 for 1.25		2 00	
Giant Argenteuil. Two years old.....	50 for 60 cts.		1 00	8 00
Palmetto. Two years old; in bundles of 50.....	50 for 60 cts.		1 00	8 00
Columbian Mammoth. Two years old.....	50 for 60 cts.		1 00	8 00
Barr's Mammoth. Two years old.....	50 for 60 cts.		1 00	8 00
Chicory (Witloof-French Endive.) Fine strong roots for forcing. See page 24			3 50	
Chive Plants. Plant early in spring.....	per bunch, 25 cts.			
Horse-Radish Roots. Cut in pieces. Plant in spring.....		20	75	
" "Maliner Kren." In bundles of 50.....	50 for 60 cts.		1 00	7 00
Rhubarb Roots. Strong.....	each, 25 cts.		\$2 50	
Tarragon Plants. (<i>Estragon</i>).....	each, 35 cts.		3 50	

DAHLIA ROOTS

A fine assortment of all kinds. See pages 133-134.

Canna Roots. See page 135

JAPAN IRIS See page 139

We pay postage or express charges on all garden seeds bought by the packet, ounce or quarter-pound

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ALL CAREFULLY SELECTED STANDARD WORKS

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- | | |
|---|---|
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Lawns like this can be produced by sowing Thorburn's Lawn Grass Seed

About Lawns and Lawn Grass Seed

FORMATION OF LAWNS FROM SEED

There is nothing more attractive than a well-kept lawn.

Many things are to be considered in connection with the making and proper care of lawns. A good lawn cannot be made in one season, success coming only through intelligent care for a period of years.

The ground should be thoroughly drained and well prepared. The soil ought not to be too rich, as a rapid growth is not wanted in the grasses of a lawn; but the surface should be as much alike in quality as possible and thoroughly pulverized. *After sowing, the ground should be rolled and cross-rolled in order to press the seed firmly into the soil,* and ten days or so thereafter a light application of Thorburn's Lawn Fertilizer, mixed with an equal quantity of good loam or sand, will serve to stimulate the growth of the young grasses. The proper time to sow grass seed depends, of course, upon the latitude. In the central and eastern states from March 15 to the middle of May is the best time; but in favorable seasons the sowing may be done up to July 1. Seed may also be sown in the Fall, from the latter part of August to the end of September. The sowing should be done when the ground is moist, or before an expected rain, and a subsequent rolling is always advisable. As to weeds in newly-made lawns, it may not be generally known that many weed seeds actually lie dormant in the ground for six or seven years and will germinate and make their appearance when the soil is turned up. The annual wild grasses, such as crab grass or Summer grass, must be pulled up by the roots before they ripen their seed in the Fall.

Rolling.—As soon as the frost is out of the ground in the Spring, the land should be gone over with a heavy roller. Winter frosts loosen the soil, and rolling is necessary to compress it again. Roll frequently.

Mowing.—All turf-forming grasses are improved, both in vigor of root-growth and in fineness of texture, by frequent mowings. It is impossible to say just how often the grass should be mown, as that depends upon the rate at which it grows. Too close cutting should be guarded against, however, especially during the hot Summer months, when the roots require some top-growth to protect them from the burning sun. A good top growth is also necessary to protect the roots from severe Winter frosts.

To Grass a Bank or a Terrace.—For each square rod, take a pound of Terrace Lawn Grass Seed and mix it thoroughly with 6 cubic feet of good, dry garden loam; place in a tub, and add liquid manure, diluted with about two-thirds of water, so as to bring the whole to the consistency of mortar. The slope must be made perfectly smooth, and then well watered, after which the paste should be applied, making it as even and thin as possible.

It is a good plan to sow on good land, in any out-of-the-way place, strips for sod to be used for patching poor parts of the lawn, or for grass borders, etc. The best mixture of seed for this purpose is *Cynosurus cristatus* (Crested Dog's-tail), Kentucky Blue Grass and Fancy Red Top.



This Lawn was sown with Thorburn's Lawn Grass Seed Mixture for Shady Spots

Lawn Grass Seed Mixtures

Prices of all Lawn Grasses include free delivery in the United States by mail, express, or freight, at our option

THE THORBURN LAWN GRASS SEED

Many of the finest lawns in America were produced from this mixture. It is composed exclusively of permanent grasses that make a finer and thicker turf the older they become, and yet give a rich greensward in three or four weeks from the time of sowing. Sow at the rate of four bushels to the acre (per bushel of 20 lbs.) One quart of our Lawn Grass Seed will sow a plot 15x20 feet, or 300 square feet.

Pt.	\$0 20	2 qts.	\$0 60	Pk.	\$1 75
Qt.	35	1/2 pk.	1 00	Bus.	6 00

Thorburn's Lawn Grass Seed for the South

A mixture of grasses that stand extremes of heat and drought well, will grow and thrive vigorously under these conditions and are therefore peculiarly adapted for Southern lawns.

Qt.	\$0 40	1/2 pk.	\$1 25
2 Qts.	70	Pk.	2 00
Bushel of 20 pounds.	7 50		

Thorburn's Lawn-Restoring Grass Seed

A mixture of grasses peculiarly suited to take firm hold and grow quickly on hard, worn-out or burned spots. The best time to re-sow such places is very early in the Spring; but seed may also be sown with good results in the Fall from the first of September to the first of October. Some **Lawn-restoring Grass Seed** should also be sown before every Summer rain on thin places.

Qt.	\$0 40	1/2 pk.	\$1 25
2 qts.	70	Pk.	2 00
Bushel of 20 pounds.	7 00		

Thorburn's Grass Mixture for Under Trees and Shady Spots on Lawns

A mixture of grasses that thrive in shaded situations, under trees or close to walls.

Qt.	\$0 40	1/2 pk.	\$1 25
2 qts.	75	Pk.	2 15
Bushel of 22 pounds.	8 00		

Thorburn's Lawn Grass Mixture for the Seashore

A mixture of fine grasses peculiarly suited to seaside lawns.

Qt.	\$0 35	1/2 pk.	\$1 00
2 qts.	60	Pk.	1 75
Bushel of 18 pounds.	6 00		

Terrace Lawn Grass Seed

A mixture of fine, stoloniferous grasses peculiarly adapted to terraces.

Qt.	\$0 40	1/2 pk.	\$1 25
2 qts.	70	Pk.	2 00
Bushel of 20 pounds.	7 00		



Photo of 7th Green Mountain Ridge Golf Course made from seed supplied by us

Permanent Grass Seed for Golf-Links, Tennis-Courts, Polo-Grounds, etc.

We have devoted much attention to the seeding and preservation of golf-links, tennis-courts and polo-grounds, and offer the following mixtures, *which have been used on many of the finest links, etc., in the country*, with very satisfactory results.

Polo-Grounds Mixture

A mixture of fine-leaved and deep-rooting grasses forming a strong and lasting turf that will stand hard usage. Per bushel of 20 pounds, \$5.00.

Tennis-Court Mixture

A mixture of extra-fine grasses peculiarly adapted to tennis-courts. This mixture will make a firm, green and lasting turf of the finest texture, that will improve with the trampling it receives.

Qt.....	\$0 40	|	½ pk.....	\$1 25
2 qts.....	70	|	Pk.....	2 00
Bushel of 20 pounds.....	7 00			

Fair-Green Mixture

For the grounds in general. Per bushel of 20 pounds, \$5.00.

Putting-Green Mixture

Our own special formula as furnished all the leading golf clubs in America. A mixture of extra-fine *highest-grade* grasses, that will make a close, firm, green and lasting turf, which will improve with trampling.

Qt.....	\$0 40	|	½ pk.....	\$1 25
2 qts.....	75	|	Pk.....	2 15
Bushel of 24 pounds.....	8 00			

Grass Mixture for Railroad Banks, etc.

A mixture of grasses with long, interlacing, matting roots that will bind steep embankments, gravelly or sandy slopes, etc., preventing washouts by rainstorms and covering with permanently green turf.

Qt.....	\$0 35	|	½ pk.....	\$0 85
2 qts.....	60	|	Pk.....	1 50
Bushel of 18 pounds.....	5 50			

Grass Seed Mixtures for Meadows and Pastures

It is a well-ascertained fact that a thicker and more prolonged growth is produced by a mixture of many sorts of grasses than by only one or two. For every different kind and condition of soil there are grasses that are especially suitable. Some sorts do best on high ground and in dry weather; others prefer plenty of moisture. Some mature so early and others so late that from the beginning of Spring until Winter sets in there is no time when one species or another is not at its best. Grass seed may be sown either early in Spring or in Fall from the first of September to the middle of October; in this latitude the best time to sow meadow grass seed is during the late Summer and early Fall, that being the natural seeding time for grass. This will, of course, not give very much of a crop the following year; the grass will be fine and thick, but rather short, and not a heavy yield. The best meadows are seeded alone, without any "nurse" crop, while if seeded with Rye, that crop being the stronger and quicker grower will monopolize the ground so that it will be another year before much of a crop of grass can be had.

For over a hundred years our house has made a specialty of grasses. We were probably the first to introduce to this country, for commercial distribution, the many valuable natural and cultivated foreign species that now take such an important part in our agricultural economy. The formation of permanent pastures and meadows has, for many years, been a subject of careful study with us, and the following formulae for seeding grass-lands have received universal recognition. *The quantities given are the minimum, and may often be increased to advantage.*

MEADOW MIXTURES FOR ONE ACRE

No. 1. On Good Land, neither Too Dry nor Too Wet.

- 8 lbs. Fancy Red-Top.
- ½ " Perennial Sweet Vernal.
- 2 " Sheep's Fescue.
- 10 " Perennial Rye Grass.
- 17 " Timothy.
- 2 " Red Clover.
- ½ " Alsike Clover.

40 lbs. \$9.00.

Sow 40 lbs. to the acre.

No. 2. On High and Dry Land.

- 8 lbs. Fancy Red-Top.
- 1 " Tall Meadow Oat Grass.
- 6 " Crested Dog's-tail.
- 2 " Orchard Grass.
- 4 " Sheep's Fescue.
- 13 " Timothy.
- 2 " Red Clover.
- 4 " Kentucky Blue Grass.

40 lbs. \$12.00.

Sow 40 lbs. to the acre.

No. 3. On Wet Late Land.

- 12 lbs. Fancy Red-Top.
- 6 " Orchard Grass.
- 2 " Meadow Fescue.
- ½ " Tall Fescue.
- 1 " Kentucky Blue Grass.
- 12 " Perennial Rye Grass.
- 5 " Timothy.
- 1 " Red Clover.
- ½ " Alsike Clover.

40 lbs. \$9.00.

Sow 40 lbs. to the acre.

PASTURE MIXTURES FOR ONE ACRE

No. 4. On Good Land, neither Too Dry nor Too Wet.

- 7 lbs. Fancy Red-Top.
- 9 " Orchard Grass.
- 12 " Perennial Rye Grass.
- 7 " Kentucky Blue Grass.
- 3 " Timothy.
- 2 " Red Clover.

40 lbs. \$9.00.

Sow 40 lbs. to the acre.

No. 5. On Dry Land.

- 5 lbs. Fancy Red-Top.
- 8 " Orchard Grass.
- 10 " Timothy.
- 10 " Perennial Rye Grass.
- 2 " Red Clover.
- 4 " Kentucky Blue Grass.

40 lbs. \$8.50.

Sow 40 lbs. to the acre.

No. 6. On Wet Land.

- 10 lbs. Fancy Red-Top.
- 10 " Orchard Grass.
- 1 " Tall Fescue.
- 1 " Red Clover
- 12 " Perennial Rye Grass.
- 2 " Timothy.
- 3 " Kentucky Blue Grass.
- 1 " Alsike Clover.

40 lbs. \$9.50.

Sow 40 lbs. to the acre.

The various Grasses used in the above mixtures are fully described on the following pages.

We are always glad to make up Special Mixtures, and are pleased to answer inquiries as to the best grasses for different purposes and for sowing on various soils under varying climatic conditions.

Grass Seeds

We desire to call particular attention to the fact that Grass Seeds are sold in the trade by sample, and each sort is divided into three or four grades of quality, according to purity, germination and weight. The price of the best grade is often double that of the ordinary. The Grass Seeds here offered by us are in every case the VERY HIGHEST GRADE.

Not less than one pound of any one sort sold

Prices subject to market fluctuations during the season

The weight per bushel is average actual weight

AGROSTIS CANINA (*Rhode Island Bent Grass*).

Resembles Red-Top (*A. vulgaris*, described below), but is of dwarf habit, with shorter and narrower leaves. It makes a beautiful, close, fine turf, and is one of the very best grasses for lawns in mixture with other sorts. It adapts itself to almost any soil, rich and moist, or dry, sandy and sterile. 60 lbs. of seed to the acre is recommended for lawns. (16 lbs. to the bushel.)

Lb.	\$0 60	|	25 lbs.	\$12 50
10 lbs.	5 50	|	100 lbs.	48 00

AGROSTIS STOLONIFERA, TRUE (*Creeping Bent, or South German Fiorin*).

The only true *Creeping Bent Grass*. The distinctive feature of this species is, as the name implies, its compact, creeping, rooting stems. It is of rapid growth and spreading habit, and the stoloniferous roots which it sends down into the soil form a strong, enduring turf that is positively improved by constant trampling. The other varieties of *Agrostis* are distinguished from this sort by their flattened, parallel surface roots. Being of fine texture, it is most valuable for lawns and putting-greens. If sown alone, 60 lbs. to the acre should be used. Doubtful if obtainable owing to conditions in Europe at present. Will give prices on application if practicable.

AGROSTIS VULGARIS (*Red-Top; Herd's Grass*).

A very hardy, native perennial grass, succeeding best on moist land. It accommodates itself to a variety of soils, however, even to dry situations and stands our hot climate admirably. It is, perhaps, the most permanent grass we have, and it enters largely into the composition of our best natural pastures. It remains green for the greater part of the year, and its long, trailing stems form a very close, matting turf that is not affected by trampling. The seed, as usually sold, weighs 15 to 18 lbs. to the bushel, in its natural condition. Sow 4 bushels to the acre.

Lb.	\$0 25	|	25 lbs.	\$4 50
10 lbs.	2 00	|	100 lbs.	16 00

RED-TOP GRASS, FANCY HEAVY. Absolutely clean and free from chaff. About 36 lbs. to the acre. (36 lbs. to the bushel.)

Lb.	\$0 30	|	25 lbs.	\$6 00
10 lbs.	2 75	|	100 lbs.	22 00

ALOPECURUS PRATENSIS (*Meadow Foxtail*).

One of the best permanent pasture grasses for rich, moist soil. Its chief characteristics are its earliness and its faculty of standing high Summer heats without burning. It prefers moist, low

ALOPECURUS PRATENSIS—Continued

grounds, but it accepts drier situations, and makes an earlier Spring verdure than any other variety. Sow only in connection with other grasses, 3 to 4 lbs. to the acre; if sown alone, 25 lbs. to the acre.

Lb.	\$0 75	|	25 lbs.	\$16 00
10 lbs.	7 00	|	100 lbs.	60 00

ANTHOXANTHUM ODORATUM (*True Perennial Sweet Vernal Grass*).

For a mixture with pasture grasses, it is valuable on account of its vernal growth, and also for continuing to throw up root foliage until late in the Autumn. For meadows, its chief merit is the fragrant odor which the leaves emit when partially dried, thus sweetening hay. It is a vegetable condiment, rather than a grass of much nutritive value. From 2 to 3 lbs. to the acre when mixed with other grasses.

Lb.	\$0 90		10 lbs.	\$8 00
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AVENA ELATIOR (*Tall Meadow Oat Grass*).

Most valuable for pasture on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy, and withstands extreme drought and heat and cold. It is very valuable for our Southern states, where it is extensively cultivated for Winter grazing and for hay. 50 lbs. to the acre.

Lb.	\$0 35	|	25 lbs.	\$6 50
10 lbs.	3 00	|	100 lbs.	24 00

BERMUDA GRASS (*Cynodon dactylon*).

A most valuable grass for our Southern states, both for pasture and lawns. It is of dwarf habit, with long, creeping stems rooting at the joints and covering the ground with a matting of fine turf, which no amount of trampling will impair. It is also useful for binding drifting sand and for steep embankments subject to wash. When established it is difficult to eradicate, and is therefore unsuitable for temporary pastures. It requires heat and moisture to start it. As it cannot endure frost, it is of no value north of Virginia. It thrives in the poorest and sandiest soil, and resists extreme drought and intense tropical heat. It should be sown at the rate of 15 lbs. to the acre.

Lb.	\$0 65	|	25 lbs.	\$13 00
10 lbs.	5 50	|	100 lbs.	50 00

BLUE GRASS, Canada. See *Poa compressa*.

" " **English.** See *Festuca pratensis*.

" " **Kentucky.** See *Poa pratensis*.

GRASS SEEDS—Continued

BROMUS INERMIS (*Awnless or Smooth Brome Grass*). An erect perennial, 3 to 5 feet high; native of Hungary. The nutritive quality of its hay, however, is generally inferior to that of our standard native sorts, so that we should recommend it only for dry, arid soils where the better and more delicate grasses would not grow. It is strongly stoloniferous, its creeping rootstocks spreading rapidly under ground and giving out new plants. It is on this account undesirable for temporary meadows, being difficult to eradicate when once established. Sow 35 to 40 lbs. to the acre.

Lb.....	\$0 25	|	25 lbs.....	\$5 25
10 lbs.....	2 35	|	100 lbs.....	20 00

BROMUS PRATENSIS (*Meadow Brome Grass*). A hardy perennial, 2 to 3½ feet high, much used in mixtures for meadows, both for mowing and pasture. It is not recommended to be sown alone except in poor soil, on dry, stony hillsides, where better grasses will not grow. It withstands extreme cold and drought, and, if cut before flowering, it makes a good hay. If left to grow older, it becomes very tough. 30 lbs. to the acre.

Lb.....	\$0 25	|	25 lbs.....	\$5 00
10 lbs.....	2 25	|	100 lbs.....	18 00

CYNOSURUS CRISTATUS (*Crested Dog's-tail*). A stoloniferous perennial, forming a smooth, compact and lasting turf. It thrives best on rich, moist land, but it can accommodate itself to almost any soil. Its roots penetrate deeply into the ground, which enables it to stand severe droughts. It makes a good bottom grass and is therefore valuable in mixtures for lawns and putting-greens. It thrives well in the shade. The color is the same as that of the Kentucky Blue Grass, and it is, therefore, excellent in mixture with that sort. If sown alone, 30 pounds to the acre is none too much, but it is recommended only in mixture with other sorts.

Lb.....	\$0 40	|	25 lbs.....	\$8 00
10 lbs.....	3 50	|	100 lbs.....	30 00

DACTYLIS GLOMERATA (*Orchard Grass; Cocks-foot*). One of the grasses most employed in permanent meadows, either for pasture or for mowing. It is very hardy and succeeds well anywhere in the United States. It is very productive and makes excellent hay. If cut before it flowers it is less hard and the pith of the stem is soft and sweet. It blossoms about the same time as Red Clover, and is therefore, desirable in mixture with that plant. Stock of all kinds are very fond of it, either dry or green, and it endures constant cropping better than any other grass. After being mown, it grows up quickly and yields a heavier aftermath than any other variety. It can stand considerable shade, and is recommended as a pasture grass for woodlands. Its tendency to grow in tussocks is diminished if it is sown with other grasses, and also by heavy rolling in the Spring; but it is quite unsuitable for lawns. (14 lbs. to bushel.) Sow 3 to 4 bushels to the acre.

Lb.....	\$0 40	|	25 lbs.....	\$8 00
10 lbs.....	3 50	|	100 lbs.....	30 00

DOG'S-TAIL, CRESTED. See *Cynosurus cristatus*.

FESTUCA DURIUSCULA (*Hard Fescue*). This is a variety of *F. ovina*, dwarfier and less vigorous in growth, but possessing all the other valuable characteristics of that variety. It is emphatically a grass for dry lands, doing well on sandy and shallow silicious soils. It is exceedingly hardy and withstands extremes of heat and cold, and also long periods of drought. For permanent pastures on poor lands, it is especially valuable; but it may also be used in meadow mixtures for well-manured clayey lands. In the latter case it has been known to yield a good crop of excellent hay and a very large aftermath. On account of its stooling habit, it is not recommended for lawns. Crop doubtful on account of the war in Europe—will give price on application, if practicable.

FESTUCA ELATIOR (*Tall Fescue*). This grass succeeds best in moist, alluvial and strong, clayey soils. It is very productive and of long duration, and is especially valuable for permanent pasture. Stock of all kinds eat it readily, and its nutritive value is very great. On rich, moist lands it yields a large amount of hay of excellent quality. It is not suitable for lawns. 40 lbs. to the acre.

Lb.....	\$0 70	|	25 lbs.....	\$15 50
10 lbs.....	6 50	|	100 lbs.....	60 00

FESTUCA HETEROPHYLLA (*Various-leaved Fescue*). A very early, hardy perennial, 2 to 3 feet high, thriving best in cold, moist soils that are rich in humus and potash. In such soils it yields heavily, and is valuable in grass mixtures for permanent meadows either for mowing or grazing. Its great production of root-leaves makes it an excellent bottom grass. Its nutritive value is very high. It grows very well in the shade and is highly recommended for shaded lawns in mixture with other grasses. 40 lbs. to the acre. Crop doubtful on account of the war in Europe—will give price on application, if practicable.

FESTUCA OVINA (*Sheep's Fescue*). A native both of America and Europe. In our Northwestern states there are many varieties of it, some of which grow 2 to 3 feet high. It prefers dry uplands and thrives in poor, shallow, gravelly soils, where other grasses would fail. It is very hardy, resisting extreme heat and cold. Though of dwarf growth, it grows thickly, yielding a large amount of nutritious herbage. In grass mixtures, for pastures on high and dry lands, it is especially valuable. Though a "bunch grass," it may be included in lawn mixtures as well as in fair-green mixtures on account of its fine foliage and dwarf dense growth. 35 lbs. to the acre. Crop doubtful on account of the war in Europe—will give price on application, if practicable.

FESTUCA PRATENSIS (*Meadow Fescue, or English Blue Grass*). One of the grasses most used in permanent or temporary meadows for mowing or for pasture. It succeeds best in cold, moist, light soils, in well-drained meadows and in low valleys rich in organic matter. It should not be grown at all on warm, dry land. It does not reach its full development till the second or third years, when it far exceeds most other sorts in the

GRASS SEEDS—Continued

FESTUCA PRATENSIS—Continued

quantity of its produce and nutritive matter. After being mown, it grows again very quickly. The forage, either green or dried, is very nourishing and much relished by cattle, especially when cut young. 40 lbs. to the acre.

Lb.....	\$0 30	|	25 lbs.....	\$5 50
10 lbs.....	2 50	|	100 lbs.....	20 00

FESTUCA RUBRA (*Red or Creeping Fescue*).

True. A creeping-rooted species forming a close and lasting turf, and especially adapted for dry, sandy soils. It resists extreme drought, and thrives on very inferior soils, gravelly banks and exposed hillsides. It is also valuable for shady places in lawns, as well as for golf-courses and for binding shifting sands on the seashore. (24 lbs. to bushel). 30 lbs. to the acre.

Lb.....	\$0 50	|	25 lbs.....	\$10 50
10 lbs.....	4 50	|	100 lbs.....	40 00

FESTUCA TENUIFOLIA (*Slender Fescue*).

This is really a variety of *Festuca ovina*, with much finer leaves. It will grow on very dry and inferior soils, and its dwarf habit of growth and fineness of leaf render it not unsuitable for dry slopes on lawns and golf-links. It stands grazing well, is very hardy, and lasts long, and may therefore be recommended for permanent pasture on high and dry situations. 30 lbs. to the acre. (22 lbs. to bushel.) Crop doubtful. Owing to the war in Europe—will give price on application, if practicable.

FOXTAIL. See *Alopecurus pratensis*.HOLCUS LANATUS (*Meadow Soft Grass; Velvet Grass*).

This grass is of fair agricultural value and it will thrive on poor soil, where better sorts will not grow. It is a perennial, very hardy and grows rapidly. As a forage plant its nutritive value is small, yet it makes a hay that is eaten readily by cattle, especially when it is sprinkled with salt. 35 lbs. to the acre. Crop doubtful. Owing to the war in Europe—will give price on application, if practicable.

HUNGARIAN GRASS. See *Panicum germanicum*.JOHNSON GRASS. See *Sorghum Halepense*, p. 66.LOLIUM PERENNE (*Pacey's Perennial Rye Grass*).

Although called a perennial, it seldom lasts more than three or four years. It is the most valuable grass of Great Britain, both for pasture and for meadows, occupying there the same relative position of importance that Timothy holds here. The cool, moist climate of England seems to suit it best, yet it succeeds very well in our middle and eastern states, and adapts itself to a great diversity of soils. The seed is large and heavy, and produces a strong, verdant growth in four or five weeks after sowing. It cures into hay having a sweet flavor, and is much relished by cattle and horses. Its nutritive value, especially in mixture with Red Clover, is very great. It is excellent in mixtures for quick effects in lawns or golf-links. 60 lbs. to the acre. (28 lbs. to bushel.)

Lb.....	\$0 20	|	25 lbs.....	\$3 00
10 lbs.....	1 40	|	100 lbs.....	11 00

LOLIUM PERENNE, Fancy. A carefully selected, short-seeded, dwarf-growing strain, suitable for lawns. Makes a fine green turf in three weeks.

Lb.....	\$0 20	|	25 lbs.....	\$3 25
10 lbs.....	1 50	|	100 lbs.....	12 00

LOLIUM ITALICUM (*Italian Rye Grass*). Though lasting two or three years, under very favorable circumstances, it is practically an annual. Like the Perennial Rye Grass, it is a remarkably rapid grower, and has, in addition, the advantage of standing extremes of temperature, remaining green throughout the Winter, and retaining its freshness in the hottest Summer months and during prolonged drought. When sown very thickly or in mixture with other sorts, it makes a good, dense turf, and it has been used with much satisfaction on lawns as far south as Jacksonville. On rich, moist soils, it is exceedingly productive and may be cut in four or five weeks after sowing, and every six weeks after that until frost. For temporary meadows, on good soils, it is a most valuable grass. 50 lbs. to the acre. (22 lbs. to bushel.)

Lb.....	\$0 20	|	25 lbs.....	\$3 25
10 lbs.....	1 50	|	100 lbs.....	12 00

OAT GRASS. See *Avena elatior*.ORCHARD GRASS. See *Dactylis glomerata*.PANICUM GERMANICUM (*Hungarian Grass*).

One of the most valuable annual soiling plants. It grows on any ordinary soil; withstands drought well. As it is of very rapid growth, being ready for cutting within sixty days, it may be sown in this latitude as late as the middle of July for hay, or in the middle of August for green fodder. It should be cut just before blooming, when it makes a tender and nutritious hay. Sow 1 to 1½ bushels to the acre. (50 lbs. to bushel.) Doubtful if obtainable owing to the war in Europe—will give price on application, if practicable.

PASPALUM DILATATUM (*Australian Water Grass*).

A somewhat leafy perennial, growing in clumps. Valuable as a pasture grass for the South, endures Summer heat and drought very well and is especially desirable for furnishing late Summer and Autumn feed, during which period it makes its principal growth. Sow lightly on the surface in warm weather. The seed should barely be covered with soil. Sow from 8 to 10 lbs. to the acre, with 5 lbs. of Hungarian Grass as a temporary protection.

Lb.....	\$0 50	|	25 lbs.....	\$10 50
10 lbs.....	4 50	|	100 lbs.....	40 00

PHLEUM PRATENSE (*Timothy*).

A native of Europe, but long ago naturalized in America, where it ranks as by far the most important of hay grasses. On moist, loamy or clayey soil it produces a larger hay crop than any other grass. It is not so well suited for light, sandy soils, though preferring a moist, temperate climate, it withstands drought and extreme heat and cold. Its hay is very nourishing and can be preserved for a long time. It should be cut when flowering, as if left later the hay becomes hard and coarse.

GRASS SEEDS—Continued

PHLEUM PRATENSE (*Timothy*)—Continued

It is often sown with Red-Top Grass and Red Clover, and the nutritive value of the hay is greatly increased by this mixture. If sown alone, at least 25 lbs. to the acre should be used; with Red-Top Grass and Red Clover, 15 lbs. of Timothy, 12 lbs. of Red-Top Grass (Fancy) and 3 lbs. of Red Clover; or with Red Clover only, 20 lbs. of Timothy and 5 lbs. of Clover. The seed weighs 45 lbs. to the bushel. Several grades are always on the market, differing in purity and vitality, but the seed we offer is of the very highest quality and extra clean. It is always most economical to buy the highest grade, known as "Fancy."

Lb.	\$0 20	|	25 lbs.	\$3 50
10 lbs.	1 50	|	100 lbs.	13 00

POA COMPRESSA (*Canada Blue Grass*). Highest grade. A very hardy perennial grass, with creeping root-stocks. It grows on the poorest and driest soils, sandy, gravelly or clayey, standing extremes of wetness or drought, and keeping green until the severe frosts of Winter. It is especially valuable for dairy pastures, cows feeding on it yielding the richest milk and finest butter. It is distinguished from the Kentucky Blue Grass by its flattened, wiry stems and by its decidedly bluer color. 60 lbs. to the acre.

Lb.	\$0 20	|	25 lbs.	\$4 00
10 lbs.	1 75	|	100 lbs.	15 00

POA NEMORALIS (*Wood Meadow Grass*). The chief characteristic of this grass is its special fitness for shaded positions in lawns and woodland parks, where other grasses will not grow. It is very permanent and hardy, resisting extremes of heat and cold, and is one of the first grasses to show a rich green growth in the Spring. The creeping roots are formed under ground, and make a good turf. Excellent for pasture. 30 lbs. to the acre. (19 lbs. to bushel.) Doubtful if obtainable owing to the war in Europe—will give price on application, if practicable.

POA PRATENSIS (*Kentucky Blue Grass; June Grass*). Highest grade. One of the most widely distributed and valuable native grasses. It combines more points of excellence than any other sort. It is a true perennial, lasting indefinitely and improving every year. Its densely creeping root-stocks, spreading habit and smooth, even

POA PRATENSIS (*Kentucky Blue Grass*)—Continued

growth, fine texture, and rich green color render it one of the very best grasses for lawns. It forms a close turf, starts, very early in the Spring, and lasts till frost. It succeeds in almost any soil—dry, rocky, sandy or gravelly—and stands long-continued dry weather and hot suns. It takes, however, two or three years to become well established, and should, therefore, be sown only in connection with other grasses. If the soil is especially suitable it will eventually crowd these out, and make the finest possible sward. It is one of our most valuable pasture grasses, very productive and nutritious. 50 lbs. to the acre.

Lb.	\$0 30	|	25 lbs.	\$6 50
10 lbs.	2 75	|	100 lbs.	24 00

POA TRIVIALIS (*Rough-stalked Meadow Grass*). A spreading, thickly matted, stoloniferous-rooted species, forming a fine turf, and adapted for shaded portions of lawns. It thrives on rich, moist soil and in sheltered situations, but not on dry land. Valuable for forming bottom grass in mixtures for permanent pastures. 20 lbs. to the acre. (26 lbs. to bushel.)

Lb.	\$0 70	|	25 lbs.	\$16 00
10 lbs.	6 50	|	100 lbs.	60 00

SUDAN GRASS. This recently introduced grass belongs to the Sorghum family, and, according to the reports of the U. S. Department of Agriculture, is a very valuable grass for hay, especially in sections subject to drought, making good yields nearly everywhere; it grows 4 to 9 ft. high according to cultivation, yielding 2 to 5 tons of excellent hay per acre, with as high as 9 tons under irrigation; should not be sown until the soil has become warm, about corn-planting time or a little earlier. Sow broadcast at the rate of 25 lbs. to the acre.

Lb.	\$0 75		100 lbs.	\$60 00
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RED-TOP. See *Agrostis vulgaris*.

RYE GRASS. See *Lolium italicum* and *Lolium perenne*.

RHODE ISLAND BENT GRASS. See *Agrostis canina*.

TIMOTHY. See *Phleum pratense*.

KENTUCKY BLUE GRASS. See *Poa pratensis*.

FOR CLOVERS, SEE NEXT PAGE

For Special Meadow and Pasture Mixtures, see page 57; and for Cereals and Field Corn, and Forage, Economical and Miscellaneous Seeds, see pages 64 to 66. Fertilizers are quoted on pages 147 and 148.

The books listed on pages 52 and 53 will be found invaluable helps to the Home or Commercial Gardener, the Farmer, Dairyman and the Stockman.

FARMOGERM. Nitro-gathering bacteria for Cowpeas, Soja Beans, Vetches, etc. Acre-bottle \$1.50; 5-acre bottle, \$5. See also, page 66.

Clovers

We quote **present prices on Clovers** as near as it is possible to offer them at, as we go to press. We shall be very glad to quote prevailing prices on all of them from time to time, and we solicit inquiries. It is understood, of course, that **all are subject to market fluctuations.**

ALFALFA, or LUCERNE (*Medicago sativa*).

Requires deep, rich, well-drained soil. The tap-root descends often to a depth of 10 to 15 feet in loose soil. It is consequently, capable of resisting great droughts. It should be sown alone (about same time as oats are sown in this section) in thoroughly prepared, deeply plowed soil, at the rate of 20 to 25 lbs. to the acre. It may also be sown as late as August and up to the middle of September in more southerly localities. The crop should be cut when the plant is coming into bloom. In suitable soil it is perennial, and several crops may be cut every year. American seed.

Lb. \$0 30	25 lbs. \$6 50	
10 lbs. 2 75	100 lbs. 25 00	

ALSIKE, or HYBRID CLOVER (*Trifolium hybridum*).

A perennial, 1 to 3 feet high, succeeding best in cold, stiff soils, and in marshy lands which are too wet for other species. It grows well in the far North and in high altitudes. A good honey plant for bees. 15 lbs. to the acre.

Lb. \$0 35	25 lbs. \$7 50	
10 lbs. 3 25	100 lbs. 28 00	

BERSEEM, or EGYPTIAN CLOVER (*Trifolium alexandrinum*).

Suitable for a rotating crop on irrigated lands. It is very succulent and much relished by stock. Its value as a soil-renovator is very high. Lb. 75 cts.

BOKHARA CLOVER (*Melilotus alba*).

Valuable sort for soiling and for ensilage and bees. Grows from 3 to 5 feet high; sown in rich soil may be cut three times; lasts for years if cut before flowering. 15 lbs. to the acre.

Lb. \$0 40	25 lbs. \$8 00	
10 lbs. 3 50	100 lbs. 30 00	

RED CLOVER, MEDIUM (*Trifolium pratense*).

One of the most valuable farm crops of the eastern states for pasture, hay, or for turning under for green manure. Sow in the Spring, 15 lbs. to the acre. Market price.

KIDNEY VETCH, or SAND CLOVER (*Anthyllis vulneraria*).

A deep-rooted, herbaceous hardy perennial plant, valuable for dry, sandy and inferior soils, upon which Red Clover will not thrive. Eaten with avidity by sheep, cattle and horses; useful in mixture for dry soils. Sow 20 lbs. to the acre.

Lb. \$0 60	25 lbs. \$12 00	
10 lbs. 5 00	100 lbs. 45 00	

CRIMSON, or SCARLET CLOVER (*Trifolium incarnatum*).

Erect annual, 1 to 2 feet high, with bright scarlet flowers. A native of southern Europe; largely grown in our Southern states for improving the soil by turning under. Will not endure severe frost, and cannot be depended upon to stand the Winter north of New Jersey. It is a valuable crop for pasturage or green manure. For hay, cut when in full bloom. Sow 20 lbs. to the acre.

Lb. \$0 30	25 lbs. \$5 50	
10 lbs. 2 50	100 lbs. 20 00	

WHITE CLOVER (*Trifolium repens*).

White Clover is of dwarf habit, spreads rapidly and is very hardy. It is valuable in permanent pastures, being sweet and nutritious. Sow in Spring, 8 to 10 lbs. to the acre.

Lb. \$0 65

At the present time White Clover is extremely scarce and high—price for large quantities on application.

N.B.—All prices are subject to market fluctuations.

Books Invaluable to the Farmer, Dairyman, Stockman, etc.

KINDLY ORDER BY NUMBER.

- | | |
|---|--------|
| No. 3. Alfalfa. Its growth, uses and feeding value. By F. D. Coburn. 164 pp. Cloth. Illustrated..... | \$0 50 |
| No. 29. Clovers and How to Grow Them. By Thomas Shaw. Cloth. Illustrated. 337 pp.. | 1 00 |
| No. 61. Farm Grasses of the United States. The seeding and management of meadows, pastures, etc. By Prof. W. J. Spillman. Cloth. Illustrated. 250 pages..... | 1 00 |
| No. 67. Farm and Garden Rule Book. A manual of ready rules and references. Indispensable to every farmer and gardener, fruit-grower, dairyman, etc. By Prof. L. H. Bailey. Cloth. 587 pages..... | 2 00 |
| No. 71. Farm Management. Accounts, business, marketing, comparative value of products etc. By F. W. Card. Crash-cloth. Illustrated..... | 2 20 |
| No. 283. Soiling Crops and the Silo. Cultivating and Harvesting—How to build, fill, and use a Silo. By Shaw. Cloth. Illustrated. 364 pages..... | 1 50 |

For other practical and useful publications see extensive list on pages 52, 53.

Cereals

Customers will please add cost of bags when ordering, as follows: ½ bushel 15 cts.; 1 bushel, 18 cts.; 2 bushels, 23 cts.

The prices of some varieties may change as the season advances. Prices are F. O. B. New York.

FIELD CORN (56 lbs. to the bushel.) All grown especially for seed

Ears of most sorts from 3 to 5 cts. each

	Qt.	Pk.	Bus.
Angel of Midnight. Yellow flint; 8-rowed; good sized.....	\$0 20	\$0 85	\$2 50
Canada Early Yellow. Very early; yellow flint; 8-rowed. Ears 5 cts. each, \$3.50 per 100.....	20	85	2 50
Compton's Early Flint. Small grain; yellow; 12-rowed; large; white cob.....	20	85	2 50
Golden Dewdrop. Fine Flint variety.....	20	85	2 50
King Philip. Early; reddish yellow flint; 8-rowed.....	20	85	2 50
Large White Flint. Long, slim ears; pure white grain.....	20	85	2 50
Large Yellow Flint. Deep yellow grains; medium early.....	20	85	2 50
Longfellow (Yellow Flint). Small cob and large grain; popular 8-rowed variety....	20	85	2 50
Sanford or Long White Flint. Large; 8-rowed; ears of unusual length.....	20	85	2 50

Dent Varieties

Bloody Butcher. Red grain; great yielder; one of the very best; valuable for ensilage or field purposes.....	20	80	2 25
Champion White Pearl. Large grain; 14 to 18 rows; ripens in about 95 days....	20	80	2 25
Chester County Mammoth. Medium-sized, yellow grains; very large ears; late..	20	80	2 25
Golden Beauty. Large grain; small cob; long ears; medium early.....	20	80	2 25
Hickory King. Large grain; small cob; white dent; ripens in about 120 days.....	20	85	2 50
Iowa Gold Mine. Dent; deep grain; ripens in about 90 days.....	15	80	2 25
Iowa Silver Mine. Large grain; Dent; white cob; ripens in about 100 days.....	15	80	2 25
King of the Earliest Yellow Dent. Ears medium size, fine quality.....	20	85	2 50
Leaming Early. Large; deep grains; dull yellow; early and productive.....	20	80	2 25
Legal Tender. Large, comparatively early.....	20	80	2 25
Mastodon. Early strong grower, large ears and grains, very productive.....	20	85	2 50
Pride of the North. Very large ears, deep grains, earliest of all.....	20	80	2 25
Snowflake White Dent. Pure white, 12 to 18 rows, ripens in 100 to 110 days in average seasons.....	20	85	2 50
White Cap Yellow Dent. Good-sized ears; early.....	20	80	2 25
Wisconsin White Dent.	20	80	2 25

Fodder and Ensilage Varieties

Cuban Giant Ensilage. Very prolific.....	20	80	2 25
Red-Cob Ensilage. Abundant herbage; tall growth; fine.....	20	80	2 25
THOROUGHbred WHITE FLINT. Spreading habit; broad blade and small stalk; valuable for fodder, ensilage and grain. Leave only one kernel to grow in a hill.....	20	95	3 00
Virginia Horse Tooth. For fodder and ensilage.....	20	85	2 50
White-Cob Ensilage.	20	80	2 25

Pop Corn (Shelled)

	Qt.	½ Pk.	Pk.
Golden Queen.	\$0 25	\$0 80	\$1 25
Red Beauty.	25	80	1 25
Silver Lace.	25	80	1 25
White Pearl.	25	80	1 25
White Rice.	25	80	1 25

MISCELLANEOUS CEREALS All subject to change in price.

BARLEY. (48 lbs. to bus.) 2 bushels to the acre.	Bus.	OATS. (32 lbs. to the bus.) 2 to 3 bushels to the acre.	Qt.	Bus.
Champion. Beardless.....	\$2 25	Canada Cluster.	\$0 15	\$1 50
BUCKWHEAT. (48 lbs. to bus.) 2 bushels to the acre.		Tartar King.	15	2 50
American Silver Hull. Early.....	About 2 25	RYE. (56 lbs. to the bus.) 1½ to 2 bushels to the acre.		
Japan. Productive; large grains.....	About 2 25	Winter Excelsior. Long, stiff straw. Sow 1½ bushels to the acre.....	15	2 00
MILLET. (50 lbs. to the bus.)		Mammoth Winter. Very fine strain, grows 6 to 7 feet high giving 25% more straw than any other variety	20	2 50
Golden, or German. Extra-large seed-heads. 1½ bus. to the acre..	\$0 10 \$6 50	WHEAT, WINTER. (60 lbs. to the bus.) 1½ bus. to the acre.		
Japan Barnyard (Panicum Crus-galli). 30 to 40 lbs. to the acre..	18 14 00	Rupert's Giant. Bald; red grain.		3 00
Pearl. Southern fodder-plant....	20 16 00	Red Wave. Beardless.....		3 00
Siberian.	10 7 50	Klondyke. White grain; bald....		3 00
White French. White grain.....	25 20 00	Spring Wheat.		3 50



Soja Beans

Forage, Economical and Miscellaneous Seeds

Except where noted, these seeds are not sold in packets. From 10 cts. to 25 cts. worth is the smallest quantity put up. All subject to change in price.

AUSTRALIAN SALT BUSH (*Atriplex semibacata*). Thrives in soils on which nothing else will grow, and it is highly recommended for alkali soils and all regions subject to periodical drought. It is very nutritious, and good for all kinds of livestock. Two or three pounds of seed are sufficient for an acre. The seed may be sown in beds, and the seedlings planted out when 2 inches high, 3 feet apart. Grows strong and vigorously in the driest seasons. Oz. 15 cts., lb. \$1.

BEANS (60 lbs. to the bushel)—

Velvet Bean (*Dolichos multiflorus*). Used in the South as a forage plant, and as a fertilizer plant for turning under. Stock readily eat the vines and leaves, and the Beans, when ground with or without the pod, are used in place of oats or corn, or mixed with them. Plant in rows 4 feet apart and 1 foot in the row, 2 or 3 Beans in a place, as soon as danger of frost is past. The vines are strong and vigorous in growth, rapidly covering the ground, and bearing immense quantities of Beans. Qt. 25 cts., bus. \$5.

Soja Bean (*Glycine hispida*). Thrives well in hot and dry weather. Plant at the rate of $\frac{1}{2}$ to $\frac{3}{4}$ bushel to the acre, in drills $2\frac{1}{2}$ or 3 feet apart and cultivate same as field corn. It does not make good hay, but is good as ensilage or green fodder.

Soja Beans—Continued

Hollybrook Early. A vigorous, quick-growing variety. Pk. \$1.50, bus. \$5.

Mammoth Yellow. The largest-growing Soja Bean, valuable for green fodder and for improving the soil. Pk. \$1.25, bus. \$4.50.

BEGGAR-WEED (Florida or Giant Beggar-Weed; *Desmodium tortuosum*). An erect, leguminous annual, growing from 3 to 8 feet high, with abundant foliage, valuable as forage or for soil renovation in subtropical regions; it also makes hay of a fine quality. It should be sown at the rate of 10 lbs. to the acre, after the ground is warm and moist. The seed should be but very lightly covered. If for hay, it should be cut just as it begins to bloom. Lb. 40 cts., 100 lbs. \$35.

BERSEEM. See under Clover, page 62.

BROOM CORN (*Sorghum vulgare*). (12 quarts to the acre). Broom Corn succeeds in a good, deep soil, fresh but not damp, and it is very sensitive to cold.

Long-Brush Evergreen. Lb. 15 cts., 100 lbs. \$6.

Improved Dwarf. Lb. 15 cts., 100 lbs. \$6.

California Golden Long-Brush. Grows from 12 to 14 feet high. Lb. 15 cts., 100 lbs.

FORAGE, ECONOMICAL AND MISCELLANEOUS SEEDS—Continued

CASTOR BEAN (*Ricinus*). The plant from which Castor-oil is made. Qt. 25 cts., bus. \$6.

CHICORY, Large-rooted (*Cichorium Intybus*). When the roots are dried, roasted and ground they become the Chicory of commerce, and are used in adulterating coffee. Oz. 10 cts., lb. 90 cts.

COWPEAS (*Vigna Catjang*). Specially adapted to warm countries; extensively grown in our Southern states, also valuable in this latitude as a fodder-plant. The chief value of Cowpeas, however, is as a green crop to plow under. The seed should not be sown till the ground has become well warmed. Sow 1 bushel to the acre, in drills; 2 or 2½ bushels to the acre if sown broadcast.

Black. Standard variety; early and very prolific. Pk. \$1.50, bus. \$5.

Clay. A little later than the Black; prolific in both peas and growth of vine. Pk. \$1.50, bus. \$5.

New Era. Upright-growing, quick to mature and very prolific of peas. Pk. \$1.50, bus. \$5.25

Whippoorwill. A favorite sort; makes a good growth of vine and very good for improving the land. Pk. \$1.50, bus. \$5.

EMMER. (Sometimes advertised as "Speltz," though this name is incorrect, the true Speltz being a different article.) It is grown quite extensively in the Northwest, having been brought by the Germans from Russia, where it is considered a valuable cereal on account of its hardness and drought-resisting qualities. Lb. 15 cts., 100 lbs. \$7.

ESPARSETTE. See *Onobrychis sativa*.

FURZE (*Ulex europaea*). Also known as Whin and Gorse. A perennial leguminous shrub. The crushed sprigs of one year's growth of this shrub furnish an excellent green fodder in Winter. It grows well on barren hillsides and in sandy soil. Sheep are fond of it. 25 lbs. to the acre. Oz. 15 cts., lb. \$1.50.

JERSEY WINTER KALE, or Cow Cabbage. Excellent for feeding cattle; very hardy. Pkt. 5 cts., oz. 10 cts., ¼ lb. 20 cts., lb. 65 cts.

JUTE (*Corchorus*). Annual. Thrives in any good Corn ground. Sow in drills, about 8 inches apart, 4 lbs. to the acre. Requires no cultivation, as it will outstrip in growth all weeds. May be also sown broadcast, 6 or 7 lbs. to the acre. Oz. 15 cts., lb. 75 cts.

KAFFIR CORN. See Sorghum, page 66.

KIDNEY VETCH, or Sand Clover. See Clovers, page 62.

LOTUS corniculatus (*Bird's-foot Trefoil*). Perennial; used in pastures. Cattle and sheep eat it readily, and it is said to be quite nutritious. It grows on the lightest and most sterile soils, and can withstand severe droughts. Is excellent for sowing in mixture for dry pastures. Lb. \$1. villosus, or major (*Greater Bird's-foot Trefoil*). Lb. \$2.

LUPINE, Yellow. Succeeds well in the poorest soil, and is exceedingly valuable for plowing in to improve sandy soils. It makes good forage, either green or as hay. The seeds are very fattening when used with hay. Sow in the Spring when the ground has become thoroughly warm, at the rate of 90 lbs. to the acre. Lb. 15 cts. 100 lbs. \$8.00.

LUPINE—Continued

White (*Large Flat Seed*). One of the best plants known for green manure, as it gathers large quantities of nitrogen from the air. It may be sown from April to July, and plowed under when in flower. The seed, when burned, is excellent manure for orange and olive trees. Lb. 15 cts., 100 lbs. \$10.

Blue. Used for the same purpose as the White. Lb. 15 cts., 100 lbs. \$8.00.

MILLETS. See Miscellaneous Cereals, page 63.

ONOBRYCHIS sativa (French, *Sainfoin*; German, *Esparsette*). A perennial leguminous plant, belonging to the same family as Clover and Lucerne. It is a valuable plant for growing on poor land and barren hillsides. When once well established, it lasts for many years. If to be used for hay, cut just before the flowering period. Sow in Spring, covering the seeds quite deeply, at the rate of 80 lbs. to 100 lbs. to the acre. Lb. 25 cts., 100 lbs. \$15.

OSAGE ORANGE (*Maclura aurantiaca*). Useful for hedges. Lb. 75 cts., 25 lbs. and upwards at 60 cts. per lb.

PEARL MILLET (*Penicillaria spicata*). A valuable fodder-plant for the South; is enormously productive. Sow the seed in drills 18 inches apart and 8 to 10 lbs. to the acre. Lb. 20 cts., 100 lbs. \$16.

PEAS, Canadian Field. Valuable for northern climates, for cattle-feeding, especially for milch cows. This pea also makes fine ensilage and for plowing under as a green manure has no equal. It is sown broadcast in the Spring and harrowed in 2½ to 3 bushels to the acre. If sown with oats, about 1½ bushels to the acre. Qt. 25 cts. bus. \$4.50.

PENICILLARIA spicata. See Pearl Millet.

POPPY, Opium (*Papaver somniferum*). The seed furnishes an agreeable sweet oil, used for the table, also for painting and for illuminating. May be sown in Spring, either broadcast or in drills, covering thinly. Also cultivated for opium. Oz. 20 cts., lb. \$1.

RAPE, Dwarf Essex English (*Brassica napus*). Largely grown in the northern United States, and in Canada. It is excellent for sheep-pasture and also for soiling. It may be sown in May, and will be ready for pasturing in July and August; or, it may be sown in June or July, and yet furnish a large amount of pasture or fodder. In drills, sow 5 lbs. to the acre; sown broadcast, 10 lbs. to the acre. Lb. 20 cts., 100 lbs. \$12.

REANA luxurians (*Teosinte*). (Short crop.) A valuable fodder-plant from Central America, in growth resembling Indian corn. Well adapted to our Southern states. Oz. 15 cts., lb. \$1.

SAINFOIN. See *Onobrychis*, above.

SALT BUSH. See Australian Salt Bush, page 64.

SORGHUM. Twenty-five pounds required to the acre if sown in drills. For dry fodder, 2 bushels should be sown to the acre.

Early Amber Sugar Cane. Ripens wherever Indian corn matures. Grows 10 to 12 feet high. Lb. 15 cts., 100 lbs. \$7.

Brown Dhoura. Lb. 15 cts., 100 lbs. \$7.

FORAGE, ECONOMICAL AND MISCELLANEOUS SEEDS—Continued

SORGHUM—Continued

Halepense (*Johnson Grass*). One of the most valuable Southern fodder plants. On rich soils it may be cut three or four times in a single season, and it is claimed that hay made from it is equal in value to Timothy. Sow in August and September, 35 to 40 lbs. to the acre. Lb. 20 cts., 100 lbs. \$12.

Holcus saccharatus (Sugar Millet). Rich in saccharine matter, and a large amount of nutritive fodder can be obtained from it. Lb. 20 cts., 100 lbs. \$12.

Jerusalem Corn (White Dhoura). Lb. 15 cts., 100 lbs. \$10.

Red Kaffir Corn, or Sorghum. Non-saccharine. The plant is low, stalky, perfectly erect. The whole stalk, as well as the blades, cures into excellent fodder, and in all stages it is available for green feed. Lb. 15 cts., 100 lbs. \$6.

White Kaffir Corn. Lb. 15 cts., 100 lbs. \$6.

Early Orange Sugar Cane. Ripens about ten days after Early Amber, and is said to produce a larger crop. Lb. 15 cts., 100 lbs. \$6.

Shallu. A non-saccharine Sorghum from India, also known as Egyptian wheat. Requires more room to develop than ordinary Sorghum, and consequently needs less seed to sow an acre. Lb. 15 cts., 100 lbs. \$7.

Yellow Branching (Yellow Millo Maize). Non-saccharine; useful for the large amount of foliage, green feed or cured fodder that it furnishes, and for its grain. Lb. 15 cts., 100 lbs. \$5.

SPURRY (*Spergula arvensis*). Annual. Grows well on poor, dry, sandy soil; may be sown every month from March to August. Excellent pasture for cattle and sheep; also of much value as a fertilizer for light soil. 15 lbs. to the acre. Lb. 20 cts., 100 lbs. \$12.

Giant Spurry. Lb. 20 cts., 100 lbs. \$12.

SUNFLOWER, Large Russian. Lb. 12 cts., 100 lbs. \$9.

TEOSINTE. See *Reana luxurians*, page 65.

TOBACCO SEED. See pages 50, 51.

ULEX europæa. See Furze, page 65.

VELVET BEAN. See page 64.



Vetch

VETCHES, Spring Tares (*Vicia sativa*). Sown broadcast at rate of 60 to 100 lbs. to the acre, like wheat or barley, and sometimes mixed with oats for soiling. Used in France and Canada as a substitute for Peas. Price variable. Present quotation, lb. 12 cts., 100 lbs. \$10.

Sand, Winter or Hairy Vetch (*vicia villosa*). Thrives on poor, arid, sandy soils. It may be sown either in Fall or in Spring, mixed with rye for a support. Grows 3 to 4 feet high and can be cut as soon as the bloom appears and again for the seed. Perfectly hardy. Sow from 30 to 50 lbs. to the acre. Price variable. Present quotation: Lb. 25 cts. 100 lbs. \$22.



FARMOGERM

A preparation of high-bred, nitrogen-gathering bacteria in sealed bottles, ready to use, with water added according to directions. Bottles contain enough Farmogerm to inoculate the seeds for one acre. Prepared for the following crops:

White Clover	Cowpeas
Red Clover	Vetches
Crimson Clover	Canada Field Peas
Alsike Clover	Garden Peas
Alfalfa Clover	Sweet Peas
Garden Beans	Soy Beans

Price per acre bottle, \$1.50; per five-acre bottle, \$5. State for what crop Farmogerm is wanted, when ordering.

Also in garden size, enough for 1,000 square feet or a 200-foot row, at 50 cts. per bottle, for Peas, Beans, Sweet Peas and White Clover, each crop requiring a different bottle. We secure cultures fresh from the laboratory, hence it takes two or three days to fill orders. Also

ALL CROP FARMOGERM

good for any Crop, Garden or Field.

One acre size Can.	\$1.00
Five " " "	4.00



Fraxinus Americana alba

Tree and Shrub Seeds

To preserve seeds of Conifers and other Evergreen Trees, it is best to keep them in perfectly dry sand until the time of sowing. For this latitude the seeds should be sown thinly, as early in the Spring as the ground can be worked, in beds of fine, sandy loam. Cover to the depth of about the thickness of the seed, and press the beds gently with the back of the spade to firm the earth around the seeds. Great care must be taken not to give too much water, as the young plants damp off very easily. Water with a very fine rose, but never so that the ground becomes soggy. Some shade must be used to protect the young plants from the hot sun and winds, and to keep the birds from destroying them. Seeds of the rarer sorts may be sown in coldframes or boxes; if in coldframes the sashes should be shaded and the frames raised at the corners 3 or 4 inches to allow the air to circulate freely. Keep the young plants well weeded, and allow them to remain one to two years before transplanting.

The propagation of Deciduous Trees from seed is less difficult than that of Evergreen species. Acorns, Hickorynuts, Chestnuts and Walnuts should be planted in Autumn, or kept during the Winter in earth or moss. They shrivel up by too long exposure to the air, and many of them lose their vitality. Those seeds with hard shells, like the Locust, Gymnocladus, etc., should be planted in Autumn or placed in boxes with sand, and exposed to frost before planting. They may not germinate till the second year after planting, and if they are received too late in the Spring to expose them to the action of the frost, they may be put into a vessel of hot water for an hour or so before planting. American Elm, Silver Maple and a few other sorts ripen their seeds early in Summer, and, if gathered and planted soon after they fall from the tree, will make fine plants the same season. The seeds of other Deciduous Trees and Shrubs should be planted from the middle of April to the middle of May, in drills about 2 feet apart, and covered about $\frac{1}{2}$ inch in depth, according to size.

Some of the varieties here offered are on hand now; many are due from foreign countries, where they are being collected for us. Owing to the war in Europe, we are, of course, uncertain of getting all of them. As the season advances, many sorts become worthless from various causes, or are sold out, and cannot be replaced until the new crop is ready next season.

EVERGREEN TREE AND SHRUB SEEDS

We do not sell Tree or Shrub Seeds in quantities of less than an ounce of any one variety, except those quoted at over 25 cents per ounce; of these, 25-cent packets may be ordered.

	Per oz.	Per lb.		Per oz.	Per lb.
Abies amabilis (Silver Fir).....	80	8 00	Pinus		
canadensis (Hemlock Spruce).....	80	8 00	australis or palustris (Southern		
concolor (Calif. White Silver Fir)...	45	4 50	Pine).....	30	3 00
firma (Japan Silver Fir).....	35	3 50	contorta.....	60	6 00
Fraseri (Double Balsam Fir).....	60	6 00	densiflora (Japan Pine).....	25	2 50
grandis (Great Silver Fir of Oregon)..	50	5 00	rubra (Red Spruce).....	50	
magnifica (Superb Silver Fir).....	50	5 00	inops (New Jersey Scrub Pine)....	60	6 00
Mertensiana (Calif. Hemlock).....	1 00	10 00	Jeffreyana (Jeffrey's Pine).....	40	4 00
nobilis (Noble Fir).....	75	7 50	koraensis. From Japan.....	30	3 00
Nordmanniana (Nordmann's Fir)...	35	3 50	Lambertiana (Sugar Pine).....	30	3 00
Pattoniana (Pyramidal).....	1 00		laricio (Corsican Pine).....	20	2 00
pectinata (European Silver Fir)....	20	2 50	maritima (Seaside Pine).....	15	1 25
Arborvitæ. See <i>Thuja</i> .			mitis (Short-leaved Pine).....	70	
Arbutus Menziesii (Madrona Tree)...	30	3 00	monticola (Mountain White Pine)..	80	8 00
Arctostaphylos glauca (Great-berried			ponderosa (Heavy Pine).....	45	4 50
Manzanita).....	30	3 00	rigida (Northern Pitch Pine).....	45	4 50
tomentosa (Woolly-branched Straw-			Sabiniana (Sabine's Nut Pine)....	25	2 50
berry Tree).....	30	3 00	Strobus (White Pine).....	25	2 50
Cryptomeria japonica (Japan Cedar)..	35	3 50	Torreyana (Torrey's Pine).....	30	3 00
Cupressus			Schinus molle (False Pepper).....	15	1 50
horizontalis (Horizontal Cypress)...	20	2 00	Sciadopitys verticillatus (Umbrella		
macrocarpa (Monterey Cypress)...	30	3 00	Pine of Japan).....	40	4 00
pyramidalis.....	20	2 00	Sequoia gigantea	1 00	10 00
Fir Tree. See <i>Abies</i> and <i>Picea</i> .			sempervirens (California Redwood)..	70	7 00
Juniperus			Spruce Tree. See <i>Abies</i> and <i>Picea</i> .		
virginiana (Red Cedar).....	10	1 00	Taxus baccata (English or European		
Libocedrus decurrens (California			Yew).....	30	3 00
White Cedar).....	50	5 00	Thuja		
Photinia arbutifolia	20	2 00	aurea (Golden Arborvitæ).....	25	
Picea Douglasii (Douglas Spruce)...	60	6 00	gigantea (Giant Oregon Arborvitæ)..	50	5 00
Engelmanni.....	70	7 00	orientalis (Chinese Arborvitæ)....	15	1 50
flexilis (Graceful Pine).....	50	5 00	occidentalis (American Arborvitæ)..	40	4 00
heterophylla.....	60	6 00	Tsuga canadensis	60	6 00
Edulis (American Nut Pine).....	40	4 00	Sieboldii (Siebold's Japan Spruce)..	60	6 00
Menziesii (Menzie's Fir).....	60	6 00	Yucca angustifolia (Narrow-leaved		
Ajanensis. From Japan.....	55	5 00	Adam's Needle).....	35	3 50
pungens (Colorado Blue Spruce)...	80	8 00	filamentosa (Adam's Needle).....	50	5 00
			gloriosa.....	75	

DECIDUOUS TREE AND SHRUB SEEDS

We do not sell Tree or Shrub Seeds in quantities of less than an ounce of any one variety, except those quoted at over 25 cents per ounce; of these, 25-cent packets may be ordered

	Per oz.	Per lb.		Per oz.	Per lb.
Acer			Cinnamomum Camphora (Camphor)	30	3 00
negundo (Box Maple)	10	75	Citrus trifoliata (Hardy Japan Orange)	20	2 00
platanoides (Norway Maple)	10	75	Cladrastis lutea (Yellow-wood Tree)	50	5 00
pseudo platanus (Sycamore Maple)	10	75	Clematis virginiana	25	2 50
rubrum (Swamp Maple)	15	1 50	Clethra alnifolia (Sweet Pepper Bush)	15	1 50
saccharum (Sugar Maple)	30	3 00	acuminata	15	1 50
Saccharinum	10	75	Cornus alternifolia	10	1 00
Æsculus hippocastrium (Horse Chestnut)		25	florida (Flowering Dogwood)	10	75
Ailanthus glandulosus (Tree of Heaven)	15	1 50	mascula (Cornelian Cherry)	10	75
Amorpha Montana	15	1 50	Nuttalli	15	1 50
Ampelopsis quinquefolia (Virginia Creeper)	20	2 00	paniculata (Panicked-flowered Dogwood)	15	1 50
Andromeda arborea (Sour Wood)	20	2 00	sericea (Silky Cornel)	15	1 50
Aralia cordata (Udo Salad)	20	2 00	stolonifera (Osier Dogwood)	15	1 25
spinosa (Virginia Angelica Tree)	20	2 00	Corylus americana (American Hazel)	10	75
Aristolochia Siphon (Dutchman's Pipe)	80	8 00	rostrata (Beaked Hazel)	10	80
Ash. See <i>Fraxinus</i> .			Cratægus		
Asimina triloba (Pawpaw)	20	2 00	coccinea (Scarlet-fruited Thorn)	10	75
Azalea Vaseyi	50	5 00	Crus-galli (Cockspur Thorn)	10	60
Berberis canadensis	20	2 00	monogyna	10	1 00
Thunbergii. Fine for hedges	20	2 00	oxycantha (Hawthorne)	10	60
vulgaris (Common)	15	1 50	Cydonia japonica (Japan Quince)	25	2 50
Betula			Deutzia crenata	25	2 50
alba (White European Birch)	10	65	scabra (White Deutzia)	25	2 50
lenta (Mountain Mahogany)	40	4 00	Diospyrus Virginiana (American Persimmon)	10	75
populifolia (Poplar-leaved Birch)	20	2 00	Dirca palustris (Leatherwood)	20	2 00
Callicarpa americana (French Mulberry)	10	75	Dogwood. See <i>Cornus</i> .		
Calycanthus floridus (Common Carolina Allspice)	15	1 50	Elæagnus umbellata	20	2 00
Camellia japonica. From Japan	30	3 00	angustifolia (Narrow-leaved Oleaster)	15	1 25
Camphor. See <i>Cinnamomum</i> .			longipes (Long-stalked Oleaster)	20	2 00
Carpenteria californica	2 00		Eucalyptus		
Carpinus americana	15	1 25	Amygdaline (Peppermint Tree)	45	4 50
Carya amara (Bitternut)	20		gigantea (Stringy-bark Tree)	45	4 50
alba (Shellbark Hickory)	20		globulus (Tasmania Blue Gum)	50	5 00
porcina (Pignut)	20		leucoxyton (Australian Iron Bush)	45	4 50
sulcata (Big Shellbark Hickory)	20		obliqua (Stringy-bark Tree)	35	3 50
tomentosa (Mockernut)	20		pauciflora (White Gum)	60	6 00
olivæformis (Pecan Nut)	30		robusta (Brown Gum)	50	5 00
Castanea			rostrata (Red Gum)	50	5 00
americana (American Chestnut)	20		Stuartiana (Apple-scented Gum Tree)	55	5 50
Catalpa speciosa. <i>True Hardy Catalpa</i>	25	2 50	viminalis (Blue Gum)	55	5 50
Ceanothus			Euonymus americana (Burning Bush)	15	1 50
americanus (New Jersey Tea)	20	2 00	Fagus americana (American Beech)	10	75
thyrsiflorus (California Lilac)	20	2 00	Fraxinus americana alba (White American Ash)	10	1 00
Celastrus scandens (Climbing Bittersweet)	25	2 25	oregona (Oregon Ash)	30	3 00
articulatus (Staff Tree)	25	2 25	Fremontia		
paniculata	25	2 25	californica (Slippery Elm of California)	1 25	
Celtis occidentalis (American False Elm)	20	2 00	Gleditschia triacanthos (Honey Locust)	10	75
Celphalanthus occidentalis	10	1 00	Gymnocladus canadensis (Kentucky Coffee Tree)	10	1 00
Cercidiphyllum japonicum	60	6 00	Halesia tetraptera (Silver Bell)	15	1 50
Cercis canadensis (Am. Judas Tree)	15	1 75	Hamamelis virginica (Witch Hazel)	15	1 50
Chionanthus Virginica (Va. Fringe Tree)	25	2 50	Holly. See <i>Ilex</i> .		

DECIDUOUS TREE AND SHRUB SEEDS—Continued

	Per oz.	Per lb.
Hibiscus Syriacus (Rose of Sharon)..	15	1 50
Ilex opaca (American Holly).....	15	1 50
verticillata (Deciduous Holly)....	10	1 00
Itea Virginica (Virginian Willow)....	15	1 50
Juglans		
cinera (Butternut).....		15
cordiformis. From Japan.....	10	1 00
nigra (Black Walnut).....		15
sieboldii. From Japan.....	10	60
Kalmia latifolia (Mountain Laurel)..	35	3 50
Larix leptolepis (Japanese Larch)....	30	3 00
Ligustrum ibota.....	15	1 25
vulgare (Common Privet).....	10	80
Liquidambar styraciflua (Sweet Gum).....	40	4 00
Liriodendron tulipifera.....	10	1 00
Locust. See <i>Gleditschia</i> and <i>Robinia</i> .		
Maclura aurantiaca (Osage Orange)..		
25 lbs. and up at 60 cts. per lb..	10	75
Magnolia acuminata (Cucumber Tree).....	20	2 00
glauca (Sweet Bay).....	20	2 00
grandiflora (Large-flowered Magnolia).....	20	2 00
tripetala (Umbrella Tree).....	35	3 50
Kobus. From Japan.....	30	3 00
macrophylla (Green-leaved Magnolia).....	30	3 00
Maple. See <i>Acer</i> .		
Morus		
rubra.....	25	2 50
tatarica (Russian Mulberry).....	40	4 00
Myrica		
cerifera (Candleberry Myrtle)....	20	2 00
Negunda aceroides (Box Elder)....	10	75
Nyssa		
multiflora (Sour Gum).....	10	75
Osage Orange. See <i>Maclura</i> .		
Platanus occidentalis (Button Ball)..	10	75
Prunus		
americanus (Wild Plum).....	10	1 00
serotina (Wild Black Cherry).....	10	75
Quercus alba (White Oak).....	15	
aquatica (Water Oak).....	30	
coccinea (Scarlet Oak).....	25	
Macrocarpa (Bur Oak).....	25	
Michauxi (Basket Oak).....	25	
obtusiloba (Box White Oak).....	25	
palustris (Pin Oak).....	30	
prinus (Rock Chestnut Oak).....	30	
rubra (Red Oak).....	12	
tinctoria (Yellow Barked Oak).....	20	
Rhamnus		
californica (California Coffee Tree)..	15	2 50
carolinica (Indian Cherry).....	15	1 50
Rhododendron		
catawbiensis.....	40	4 00
Rhus aromatica (Fragrant Sumach)..	20	2 00
copallina (Dwarf Sumach).....	15	1 00
glabra (Scarlet Sumach).....	15	1 50
Ribes sanguineum (Red-flowered Currant).....	40	4 00

	Per oz.	Per lb.
Robinia pseudacacia (Yellow or Black Locust).....	10	1 00
Rosa canina (Brier Rose). Clean seed	10	1 00
carolina (Swamp Rose).....	10	1 00
blanda (Early Wild Rose).....	10	75
rubiginosa (Sweetbrier).....	20	1 50
rugosa.....	20	1 75
Salisburia adiantifolia (Maidenhair Tree).....	15	1 25
Sambucus canadensis (American Elder).....	15	1 25
Sassafras officinale (Sassafras Tree)..	15	1 50
Styrax americana.....	15	1 50
Symphoricarpus		
racemosa (Crimson Snowberry)....	15	1 25
Taxodium distichum (Deciduous Cypress).....	15	1 50
Tecoma radicans (Trumpet Creeper)..	20	1 75
Tilia americana (American Basswood)	15	1 25
Ulex europæa (Furze, Gorse or Whin)..	15	1 50
Ulmus americana (American White Elm).....	15	1 50
Vaccinium stamineum.....	15	1 25
Viburnum acerifolium (Dockmackie)	15	1 50
Lantana (Wayfaring Tree).....	15	1 50
prunifolium (Black Haw).....	15	1 25
Walnuts. See <i>Juglans</i> .		
Wistaria Brachybotrys.....	45	4 50
chinensis (Chinese Wistaria).....	30	3 00
chinensis alba (White Chinese Wistaria).....	45	4 50

FRUIT SEEDS

Apricot Pits.		50
Cherry Pits, Mahaleb.		80
Black Mazzard.....		1 00
Domestic.....		60
Currant, Red Dutch. pkt. 10c..	20	2 00
White Dutch..... " 10c..	30	3 00
Peach Pits, Natural. qt. 20c., bus. \$3		
Plum Pits, Mirabelle.		60
Myrobolan.....		1 00
St. Julien.....		1 25
Quince Seed.	30	3 00
Raspberry, Yellow.	30	3 00
Strawberry, Mixed. pkt. 10c..	1 00	
Red Alpine..... " 25c..	2 00	
Vitis æstivalis (Summer Grape).....	20	2 00
cordifolia (Frost Grape).....	20	2 00

SEEDS OF HEDGE PLANTS

For prices see under head of Tree Seeds

Barberry.	Berberis	Thunbergii
Furze or Gorse.	Ulex	europæa
Locust, Honey.	Gleditschia	triacanthos
Yellow.....	Robinia	pseudacacia
Osage Orange.	Maclura	aurantiaca
Privet, Common.	Ligustrum	vulgare
Sheepberry (Black Haw)...	Viburnum	prunifolium

Flower Seeds

PRACTICAL DIRECTIONS FOR CULTURE, TREATMENT, ETC.

HARDY ANNUALS (hA).—Sow in April or May, according to the latitude, in shallow boxes or pots placed in a warm window, a hotbed, or, if possible, in a greenhouse. A second sowing ought to be made from two to four weeks after for a succession, as well as to provide against failure the first time. For sowing seeds in there is nothing better than shallow boxes from 2 to 3 inches deep, and of any convenient size. The most suitable soil for all the smaller kinds is a very fine, rich, sandy loam. That from old hotbeds is excellent, or sods from an old pasture piled up and allowed to rot for two or three years and then mixed with a little old stable manure and sand. After the seeds are up care must be taken to give them plenty of air and moisture, yet not too much water, or they will “damp off.” When the young plants are well out of the seed-leaf they must be transplanted to new boxes. If pots 2 inches or more in diameter can be had, set out from three to a dozen or more of the young seedlings along the edges of the pot, so that as soon as the ground is warm enough they may be easily turned out and planted singly, as by that time they will have made good roots. When pots cannot be had, boxes, tin cans, etc., may be substituted.

A common mistake in sowing flower, as well as other seeds, is covering too deeply. The exception to this is the Sweet Pea which is seldom planted deep enough. As a general rule, cover only to the depth of the thickness of the seeds; or, with medium-sized seeds, like Balsams, Zinnias, etc., half an inch or so is none too much. Such fine seeds as Portulacas need only to be pressed into the soil with a piece of board or the palm of the hand. Always press the earth down firmly after sowing all flower seeds, else there is danger of their drying up before the roots can get firm hold of the soil. Seeds of the hardier Annuals may be sown where they are to grow; but, as a rule, it is preferable to transplant, as the plants are generally stronger and stand the drought better. During very dry weather, and when the seedlings are first set out, they should be watered frequently. Provide some support for all such Annuals as require it.

The weeds should be kept down and the ground loosened often, so that the plants will receive the full benefit of the rains and dews, which they will not if the ground is allowed to become hard and baked.

Seeds of Biennials and some Hardy Annuals may be sown in July and August in the open, and in September in boxes and placed in coldframes. They will make strong plants by Spring, and flower early. Do not put on the sashes until heavy rains and frosts begin, and then always remove during the day whenever the temperature is above freezing in Winter.

Owing to the presence in most soils of Weed Seeds, it is well to mark where seeds are sown in the open, so that the weeds (which are apt to germinate first) can be destroyed before they crowd out and smother the Flower Seeds as they spring up.

HARDY BIENNIALS (hB) and HARDY PERENNIALS (hP).—These require the same treatment as the Hardy Annuals. In addition to the above, both Hardy Biennials and Perennials may be sown in the open border from July to September. The seeds of many Perennials require several months, some even as long as two years, before they germinate. It is a good plan, at the commencement of frost, to cover the plants lightly with straw, leaves or any dry litter, in order to afford some protection from the extreme severity of the Winter. As soon as the frost is out of the ground in the Spring, remove the covering and loosen the surface around the plants, which, when large enough, may be transplanted to the flower garden where they are to remain.

HALF-HARDY ANNUALS (hhA).—These may be sown in shallow boxes, pots or a hotbed, as directed for Hardy Annuals. They may be sown thus at any time after the middle of April, as the hotbed will be sufficient protection; but it is best to cover the glass with a mat or straw at night until danger of frost is past. In the day give all the air possible. After the end of May sow in the border, like Hardy Annuals.

HALF-HARDY BIENNIALS (hhB) and HALF-HARDY PERENNIALS (hhP) require the same treatment. Though plants and their blooms are greatly forwarded by sowing the seeds early in boxes under cover, it may be stated that nearly all kinds of Hardy and Half-hardy Flower Seeds may be sown in the open border in a warm and sunny spot as soon as the soil has become dry and warm; so that those who have no glass frames or greenhouses need not be without flowers. They can have them, but it will be later.

TENDER ANNUALS, BIENNIALS and PERENNIALS.—The best method to obtain an early bloom of the Tender Annuals (tA), and to insure strength to the plants, is to sow the seeds in boxes or pots in March, placing them in a warm greenhouse or plunging in a moderate hotbed, carefully protecting them from the cold, shading from the midday sun, and watering with a fine rose. The seed should be sown in a very light, sandy compost, and the pots well drained by placing broken pots or bits of sod in the bottom. The finer seeds must not be covered more than an *eighth of an inch deep*, and the soil pressed down closely over them. Water frequently, particularly if the house or hotbed is very warm. As soon as the plants are out of the seed-leaf transplant them into shallow boxes or small pots, and when they have acquired sufficient strength transplant into the flower beds; not, however, before the middle of May.

GREENHOUSE SEEDS (g) should be sown as directed for Tender Annuals, in pans, pots or shallow boxes, and be kept in the house, carefully watched, slightly watered occasionally, and sheltered from the hot sun till strong enough to transplant. Most varieties may be sown at any season of the year.

The smaller seeds of Greenhouse Plants are sometimes difficult to make germinate unless great care be taken in the mode of sowing. Hence the supposition arises that the seed itself is not good, whereas the fault is not in the seed, but in the treatment. Fine seeds of this description should be sown in leaf-mold or peat, with some fine sand added to it; press firmly down in the seed-pan or pot, and make perfectly level at the top so that the mold may not afterward sink materially with watering. Sow the seed very thinly and cover very *lightly* with a little compost or with silver sand. Success is more certain if a pane of glass is placed over the pan or box till the plants have appeared, when it should be removed. As soon as the young plants have two leaves they should be transplanted into similar compost in another pan or box. After transplanting they should be kept in a shady part of the greenhouse for a few days and watered very sparingly.



Aster, Giant Grego

ASTER hhA **One of the very best Annuals for cut-flowers**

The Aster is of easy culture and very popular. Plants from seed sown in the open ground in May bloom finely in September and October. For July and August flowers sow in March or April in coldframe, spent hotbed, or in pots or boxes in the house. Cover the seeds about half an inch deep with rich, light soil, and when the plants have three or four leaves transplant about 18 inches apart each way into well prepared beds. Manures too-fresh or used in too large quantities sometimes induce disease in Asters. When used they should be thoroughly well decayed and mixed with the soil. Small quantities of slaked lime or fresh wood-ashes stirred into the surface of the Aster beds form good tonics for the plants and keep disease and insects from the roots.

BALL, or JEWEL. Flowers long stemmed, quite round; desirable for cutting; plants dwarf and can be planted closer together than other sorts; free flowering. Pkt.
 Mixed..... ¼ oz. 85c., oz. \$3. 50100 10

BRANCHING. Forms broad bushes, with large, long-petaled flowers, graceful and feathery in effect; excellent for cut-flowers; 2½ ft. Pkt.
 Crimson..... 50145 10
 Dark Blue..... 50140 10
 Lavender..... 50150 10
 Light Blue..... 50152 10
 Pink..... 50155 10
 Purple..... 50158 10
 Rose..... 50160 10
 White..... 50165 10
 Mixed..... ¼ oz. 35c., oz. \$1. 50170 10

COMET, Giant. Very large flowers. Grows 2ft. Pkt.
 Dark Blue..... 50270 10
 Light Blue..... 50275 10
 Crimson..... 50280 10
 Rose..... 50285 10
 White..... 50295 10
 Mixed..... ¼ oz. 85c., oz. \$3. 50300 10
COMET, Half Dwarf. Petals wavy reflexed, curled and twisted; flowers of extraordinary size and beauty. Pkt.
 Dark Blue..... 50340 10
 Light Blue..... 50345 10
 Brick Color..... 50350 10
 Carmine..... 50355 10
 Peach Blossom..... 50360 10
 Rose..... 50365 10
 Snow White..... 50370 10
 Mixed..... ¼ oz. 75c., oz. \$2.50. 50375 10

ASTER—Continued

CREGO, Giant. On the style of "Giant Comet"; Large flowers. Fine for cutting; 2 ft.

	Pkt.
Crimson.....	50415 10
Dark Blue.....	50420 10
Lavender.....	50425 10
Rose.....	50430 10
Shell Pink.....	50435 10
White.....	50440 10
Mixed.....	1/4 oz. 85c., oz. \$3. 50445 10

HOHENZOLLERN. Plants grow strong and sturdy, and the flowers are carried on long, stiff stems, making them valuable for cutting.

	Pkt.
Dark Blue.....	50615 10
Rose.....	50620 10
White.....	50625 10
Mixed.....	1/4 oz. 75c., oz. \$2.50. 50630 10

KING. Producing many double flowers on long stems. The blooms are very large, with long, narrow petals; strong grower.

	Pkt.
Crimson.....	50640 10
Lavender.....	50642 10
Pink.....	50644 10
Rose.....	50646 10
Violet.....	50648 10
White.....	50650 10
Mixed.....	1/4 oz. 85c., oz. \$3. 50652 10

OSTRICH-PLUME. Splendid class; fine for cutting; rivals the Chrysanthemum in effect.

	Pkt.
Dark Blue.....	50670 10
Rose.....	50675 10
White.....	50680 10
Mixed.....	1/4 oz. 60c., oz. \$2. 50685 10

QUEEN OF THE MARKET. The best early Aster; of graceful, spreading habit, and bearing its flowers on long stems; 1 1/2 ft.

	Pkt.
Crimson.....	50735 10
Dark Blue.....	50725 10
Lavender.....	50728 10
Light Blue.....	50730 10
Rose.....	50740 10
Scarlet.....	50745 10
White.....	50755 10
Mixed.....	1/4 oz. 40c., oz. \$1.25. 50760 10

TRUFFAUT'S PÆONY PERFECTION. Grows stiffly erect and about 18 in. tall. Remarkable for the brilliant colors of its great incurved flowers.

	Pkt.
Crimson.....	50850 10
Light Blue.....	50845 10
Rose.....	50855 10
Snow White.....	50865 10
Mixed.....	1/4 oz. 75c., oz. \$2.50. 50870 10

VICTORIA, Dwarf. Plants bear from 10 to 20 beautifully reflexed flowers in pyramids of about 18 in. high. The best sort for pot culture.

	Pkt.
Dark Blue.....	50910 10
Light Blue.....	50915 10
Peach Blossom.....	50920 10
Rose.....	50925 10
Dark Scarlet.....	50930 10
White.....	50935 10
Mixed.....	1/4 oz. 75c., oz. \$2.50. 50940 10

VICTORIA, Tall. Large flowers, recurved petals; a superb class; grows 2 ft.

	Pkt.
Dark Blue.....	50980 10
Light Blue.....	50985 10
Peach Blossom.....	50990 10
Rose.....	50995 10
Dark Scarlet.....	51000 10
White.....	51005 10
Mixed.....	1/4 oz. 85c., oz. \$3. 51010 10

VARIOUS ASTERS

DAYBREAK. Shell pink.....	1/4 oz. 85c. 51060 10
PURITY. Snow white.....	1/4 oz. 85c. 51110 10
MIXED GERMAN, QUILLED.	oz. 50c. 51130 5



Aster, Violet King

NAMED LARGE-FLOWERED (GRANDIFLORA) SWEET PEAS

All Five Cents per packet

Light Blue and Lavender

	Per oz.	¼ lb.
Countess of Radnor. Lovely, delicate mauve.....	52200 \$0 10	\$0 30
Flora Norton. A pure, bright blue.....	52220 10	30
Lady Grisel Hamilton. Beautiful, pale lavender.....	52260 15	40

Dark Blue and Purple

Captain of the Blues. Standard purple, wings bright blue.....	52350 10	30
Lord Nelson. A fine, rich, bright blue.....	52410 10	30
Navy Blue. Deep violet blue.....	52430 10	30

Claret and Maroon

Black Knight. Fine, self-colored, deep maroon.....	52480 10	30
Othello. Fine, deep maroon.....	52520 10	30
Shahzada. Dark maroon, shaded purple.....	52540 10	30

Crimson and Scarlet

King Edward VII. A fine, self-colored, bright crimson.....	52630 10	30
Queen Alexandra. A fine scarlet shade.....	52670 20	50
Salopian. Very fine, sunproof scarlet.....	52690 15	40

Orange and Salmon

Bolton's Pink. A soft, salmon-orange pink.....	52740 15	40
Lady Mary Currie. Orange pink, shaded rosy lilac.....	52800 15	40
Miss Willmott. Orange pink. One of the finest.....	52820 10	30

Pink (Light Shades)

Lovely. Shell pink, shaded light rose toward edges.....	52910 10	30
Prima Donna. Fine; large; soft pink.....	52930 10	30

Pink (Deeper Shades)

Apple Blossom. Bright pink and blush, beautifully shaded.....	52980 15	40
Janet Scott. Deep pink; a fine, large flower.....	53000 10	30
Katherine Tracy. A fine, brilliant pink.....	53020 10	30

Pink (Rose-Pink)

Hon. F. Bouverie. Standard flesh pink, wings rosy buff.....	53130 15	40
Prince of Wales. A fine, self-colored rose.....	53170 10	30

Pink and White (Bicolor)

Blanche Ferry, Extra Early. Pink and white; popular sort.....	53220 10	30
Dainty. White with pink edge; fine.....	53260 15	40

Striped and Mottled

America. White, striped orange scarlet.....	53330 10	30
Aurora. White, flaked and striped orange salmon.....	53350 10	30
Gray Friar. Fine; large; purple striped on white.....	53370 15	40
Mrs. Joseph Chamberlain. White, striped with rose; fine sort.....	53410 10	30
Princess of Wales. Striped mauve on white ground.....	53450 15	40

Pure White

Blanche Burpee. Snowy white; a fine, large flower.....	53540 15	40
Dorothy Eckford. A grand, pure white.....	53560 15	40
Emily Henderson. A good, early white.....	53580 10	30
Mont Blanc. Pure white; of the finest form.....	53600 15	40
White Wonder. Double stemmed; large, white flowers.....	53680 10	30

Yellow and Buff

Hon. Mrs. E. Kenyon. Deep primrose yellow; grand flower.....	53770 15	40
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SPENCER VARIETIES

These are noted for their unusually large-sized flowers, and for the waved or fluted appearance of the petals. They are also frequently referred to as "Orchid-flowering" Sweet Peas.

All Ten Cents per packet, except where quoted otherwise

Blue (Light and Dark Shades)

Afterglow. Rich, electric shades of blue and rosy mauve; distinct..	Per oz. \$0 30	¼ lb. \$1 00
Asta Ohn. Lavender, tinted mauve; delicate coloring; very large flower.	53900	30 1 00
Captain of the Blues Spencer. A fine purple.....	53910	25 75
Flora Norton Spencer. Bright blue, slightly tinged with purple...	53920	25 75
Florence Nightingale. Soft, clear, rich lavender.....	53922	40 1 25
Helen Pierce Spencer. Bright blue, flaked and striped white.....	53930	25 75
Margaret Madison. Beautiful azure blue.....	pkt. 15c. 53932	50 1 75
Mrs. Charles Foster. Lavender, flushed pale rose.....	53940	40 1 25
Mrs. E. Noakes. Fine lavender; of Spencer form.....	pkt. 15c. 53950	50
Royal Purple. Rich, warm, rosy purple; immense flowers...pkt. 15c	53952	50 1 75

BLUE (Light and Dark Shades)—Continued

Tennant Spencer. Beautiful, purplish mauve, self-colored.....	53960	Per oz. \$0 20	¼ lb. \$0 60
Wedgewood. Lovely, light wedgewood blue.....	pkt. 15c. 53962	50	1 75

Crimson and Maroon

Black Knight Spencer. Shining deep maroon; splendid.....	54010	40	25
King Edward Spencer. A lovely self-colored bright crimson...	54020	20	60
Nubian. Very dark crimson maroon; large and waved.....	54030	30	1 00
Othello Spencer. An elegant rich deep maroon.....	54040	20	60

Pink (Light Shades)

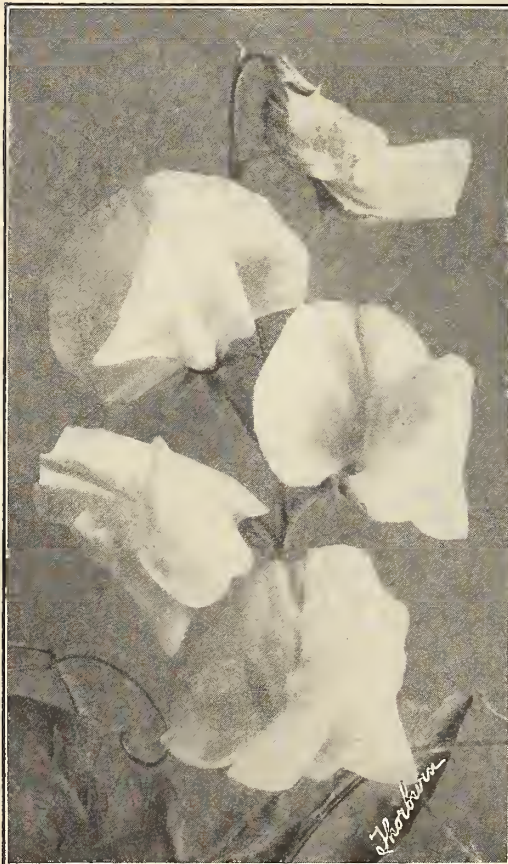
Beatrice Spencer. Blush pink tinted with deeper pink.....	54090	20	60
Countess Spencer. Beautiful soft rose pink. One of the best..	54110	25	75
Elsie Herbert. Creamy white and pink; large flower.....	54130	20	60
Florence Morse. Blush pink with deeper pink margin.....	54150	20	60
Mrs. C. W. Breadmore. Cream, pink edged; very large flower..	54172	30	1 00
Veiled Bride. Ivory marbled pink. pkt. 15c..	54174	50	1 50

Pink (Rose-Pink)

Apple Blossom Spencer. Rose standards, blush-rose wings; large flower.....	54220	20	60
Blanche Ferry Spencer. Carmine rose with white wings.....	54225	25	75
Constance Oliver. Buff pink, large flower.....	54228	20	60
Elfrida Pearson. Extra large flowers; pink tinted with salmon.	54230	30	1 00
Enchantress. Pale, silvery rose pink, tinged deeper at margin.....	54232	30	1 00
George Herbert. Rich salmon-rose color; splendid.....	54240	20	60
John Ingman. Rose carmine; large, fluted flowers.....	54260	40	1 25
Lovely Spencer. Deep pink throat, shading to blush.....	54270	20	60
Rosabelle. Fine, deep rose, with white blotch at base.....	54290	30	1 00

Salmon and Orange

Decorator. Rosy terra cotta, bright orange at base of wings.....	54322	30	1 00
Earl Spencer. Rich, brilliant salmon rose.....	54324	40	1 25
Fiery Cross. Red orange cerise; very brilliant.....	pkt. 25c. 54326	75	
Helen Lewis. A very fine orange pink; most showy.....	54330	25	75
Illuminator. Rich, bright salmon color. One of the finest.....	54340	40	1 25
Mrs. Hardcastle Sykes. Beautiful light salmon pink; large flower....	54350	25	75



Sweet Peas, Spencer Type

SWEET PEAS, SPENCER VARIETIES—Continued

SALMON and ORANGE—Continued

Stirling Stent. Large flowers; deep salmon, suffused with orange.	Per oz. ¼ lb.		
pkt. 15c. .54360	\$0 40	\$1 25	
White			
America Spencer. White, striped with crimson red.		30	1 00
Etta Dyke. A white Spencer; of fine form and substance.		25	75
King White. Pure white; flowers of enormous size and fine form. .54404		40	1 25

WHITE—Continued

Rainbow Spencer. Ivory white, flaked rose.	Per oz. ¼ lb.		
	\$0 25	\$0 75	
White Spencer. Pure white; large, beautifully waved flower.		30	1 00
Yellow Shades			
Clara Curtis. A beautiful cream yellow; large, waved flower.		30	1 00
Dobbie's Cream. Fine; large; primrose.		40	1 25
Primrose Spencer. Light primrose yellow; finest formed flowers. .54490		25	75

NEW GIANT, EARLY-FLOWERING, LONG-SEASON SPENCER SWEET PEAS

This new race of Sweet Peas is expected eventually to take the place of all other Early and Late varieties, as they bloom from four to six weeks earlier than the late-blooming Spencers sown at the same time and continue blooming for four months. They are vigorous growers with immense waved flowers borne on long strong stems in threes and fours adaptable to our warm Summers and free flowering. We strongly recommend a trial of these new creations.

Early Melody. This is a deeper shade of pink than Early Song Bird, on white ground. It might be described as rose pink on white ground, very pleasing; mostly four well waved blossoms to each stem; free flowering.	Pkt.	
	25	
Early Morning Star. Deep orange scarlet or flame color in standard, with rich orange-pink wings, keeping its color well and does not burn badly. Flowers are large and waved, borne in threes and fours abundantly; when cut and under artificial light its coloring is exquisite.		25
Early Snowflake. The blossoms are very large and of the best waved form, resembling the noted White Spencer; a free bloomer, with good, long stems.		25

Early Song Bird. Soft blush-pink shade; large, fine flowers, borne on long stems in threes and fours. When in full growth it appears as though every stem has four blossoms, and of great quality.	Pkt.	
	25	
Early Spring Maid. The color is light pink on a cream ground. A most lovely variety, with very large, waved flowers; for an early cream pink Early Spring Maid is unexcelled.		25
Yarrawa. Rose color on first opening, changing as it develops to a charming combination of light pink standards and blush wings of vigorous habit, the flowers are produced on long stiff stems.		25

EARLY AND WINTER-FLOWERING SWEET PEAS

All Ten Cents per packet except where quoted otherwise

These varieties if sown early in Fall indoors will bloom by Christmas and continue all Winter. They may also be sown outdoors in the same way as other sorts for Summer flowering.

Canary Primrose. Beautiful primrose (Christmas)	Per oz.	¼ lb.	
	\$0 15	\$0 40	
Christmas Pink.	15	50	
Christmas White.	15	40	
Christmas Lavender (Mrs. Alex. Wallace)	15	50	
Earliest of All. Pink and white resembling Blanche Ferry (Christmas)	15	40	
Lavender Bicolor Lavender standard; white wings.	Pkt. 25.	1 25	
Lavender Pink.	Pkt. 25.	1 25	
Le Marquis. Navy blue (Christmas)	15	40	
Mont Blanc Spencer. Pure white; early flowering (Christmas)	15	40	
White. Best pure white	Pkt. 25.	1 25	
Varieties Mixed.	Pkt. 05.	10	30

SWEET PEAS IN MIXTURE

THORBURN'S SPECIAL MIXED. Comprising the finest Eckford and newest and best large-flowering (Grandiflora) varieties. .54800	Pkt.	Oz.	¼ lb.	½ lb.	Lb.
	\$0 05	\$0 10	\$0 25	\$0 45	\$0 80
Spencer Varieties, Mixed. A very fine assortment of all the best varieties.	10	20	60	1 10	2 00
Eckford, Mixed. The finest Eckford varieties only.	05	10	25	45	80

PERENNIAL PEAS. See *Lathyrus*.

Selected List of Flower Seeds

We have unquestionably the largest assortment of Flower Seeds in America and our strains are far superior to those commonly sold often under fancy names and at fictitious prices. We avoid extravagant descriptions, meant only to effect sales.

There are many minute plants from the finer seeds killed by drenching with water while very young. In the first stage of their existence plants require moisture in a minute quantity, often repeated, and not in such large quantities as to saturate the soil in which they are growing.

FLOWER SEEDS DELIVERED FREE BY MAIL ON RECEIPT OF THE STATED PRICE

PRICE PER OUNCE OR POUND FOR THOSE NOT QUOTED, ON APPLICATION

Not less than ¼ oz. or 1 oz. sold at the prices quoted per ¼ oz. or 1 oz. respectively

Explanation of Signs Employed in This List

The asterisk (*) designates *ornamental-leaved* plants. This mark (‡) prefixed indicates the *climbers*.

A represents Annual—lasting but one year.

B " Biennial—lasting two years.

P " Perennial—lasting three or more years.

E " Evergreen—retains foliage the entire year.

S represents Shrubs—plants of bushy habit.

g " greenhouse plants.

Bu " bulbous plants.

As a large number of Biennials and Perennials, if sown early, flower the first season from seed, this distinguishing mark (†) is affixed to such.

The hardiness is denoted by the following abbreviations, but it should be understood that this is intended to apply to the climate of the Middle Atlantic States. Farther north or south, these designations apply only in a comparative way.

h represents hardy—plants for open border. **hh** represents half-hardy—plants that require to be forwarded in pots or frames. **t** represents tender—requiring protection.

Our Imported Collections are sent out as received from Europe. The assortments are good and highly recommended, but it is impossible to make any alteration in the contents thereof.

Customers will find it more convenient to order by number. If ordered from any catalogue other than this (1917) kindly state from which year's catalogue the numbers are taken. This will facilitate the filling of orders and will insure prompt shipment.

Many of our Flower Seeds are grown in Europe. Owing to the war some sorts may not be received until later in the season than usual. At the time of going to press we expect to receive all the varieties we quote, but may be disappointed. A memorandum will be kept of any items not sent and the seeds will be forwarded as soon as they arrive.

ABRONIA umbellata grandiflora (Sand Pkt. Verbena). Handsome, trailing plants, these hardy annuals with large, rose-colored flowers, are especially adapted for vases and rock gardens, doing best in light, sandy soil. Sow in the open ground in May.....	55020	10
†ABRUS precatorius (Prayer Bean). This attractive, climbing, greenhouse perennial needs a strong heat for best results. Blossoms light purple.....	55030	5
ABUTILON, Mixed Hybrids (Chinese Bell-flower, or Flowering Maple). Greenhouse shrub of easy culture; continuous blooming, bell-shaped flowers; very decorative; desirable for house or garden. Grows 3 to 4 ft. in height.....	55050	25
ACACIA (Tassel Tree). Beautiful greenhouse shrubs, elegant foliage, graceful branches and fine racemes of richly scented, yellow flowers. Soak the seeds in hot water before sowing, then plant in sandy peat in a temperature of 55 to 60 degrees. Pkt.		
Baileyana . 6 to 10 ft.....	55090	10
cultriformis . 6 ft.....	55110	10
dealbata . 4 ft.....	55130	10
Farnesiana . 10 ft.....	55170	5
lophantha . 10 ft.....	55190	5
Melanoxylon . 8 ft.....	55210	10
podalyriæfolia . Canary yellow; fine for cutting.....	55250	15
Fine Mixed	55290	5
ACANTHUS (Bear's Breech). Hardy perennial plants, flourishing in almost any soil or situation. Much prized for decorative purposes. Pkt.		
mollis . White; 3 ft.....	55320	10
ACHILLEA Ptarmica, Double, "The Pearl." Free-blooming, hardy perennials. The pure white flowers are borne in clusters on long stems. Fine for florists for cut-flowers; succeeds well in any common garden soil; blooms all Summer and Fall; 1½ ft. in height.....	55340	25
ACONITUM . Hardy perennial plant, with showy panicles of helmet-shaped flowers; does well in shady places or under trees; 4 ft. Pkt.		
Napellus (Monk's Hood). Blue....	55380	10
pyramidatum . Blue.....	55400	10
ACROCLINIUM Showy, half-hardy annuals for the Summer garden, with Everlasting flowers, which are much used for Winter decorations. Flower heads, to be preserved should be gathered when young; 1 ft. Pkt.		
roseum . Rose.....	55430	5
" album . White.....	55450	5
" Mixed	55470	5
" Double Rose	55490	5
" Double White	55510	5
" Double Mixed	55530	5

‡**ADLUMIA cirrhosa** (Mountain Fringe; Pkt. Allegheny Vine). An interesting, hardy perennial climbing vine, with beautiful, dark rose flowers and delicate foliage; 15 ft. **55580** 10

ADONIS. Both the annual and perennial varieties are, with their bright flowers, great favorites in the flower-garden. All succeed well in any common soil.

æstivalis (Flos Adonis) (hA). Scarlet; Pkt. 1½ ft. oz. 30c. **55620** 5

AGAPANTHUS umbellatus (African Lily). Showy greenhouse plants, producing large clusters of bright blue flowers. Nearly hardy, and will thrive anywhere, in pots or tubs on the lawn, piazza, or in the greenhouse. In bloom during Summer and Autumn; 3 ft. **55660** 10

AGATHÆA cœlestis (Blue Daisy). A tender perennial, with beautiful blue flowers; fine pot plant for Winter blooming in conservatory; 1 ft. **55680** 25

AGERATUM For strengthening the garden's color-forces in blue, no annual is so good as the Ageratum. Though ordinarily used in bedding and borders, in contrast with such plants as geraniums, perillas, etc., the rose, white and blue sorts are exceedingly attractive when mingled with

alyssum, candytuft, etc. They grow well almost anywhere and bloom the whole season. The dwarf blue sorts make fine borders. Sow under glass early in the season or, later, outdoors in a mellow seed-bed. Seeds sown in August will produce good plants for winter flowering.

Lasseauxi. Clusters of handsome rose-colored flowers; 1 ft. **55720** 10

mexicanum (hA). **Blue.** Parent of the annuals below; 1½ ft. **55730** 5

Blue Perfection. Fine dwarf variety, with large flowers; 9 in.; splendid. **55740** 10

Dwarf Blue. 9 in.; fine for edgings. **55750** 5

Dwarf White, Large-flowered. Splendid; 9 in. **55760** 10

Imperial Dwarf Blue. Excellent for edgings; 9 in. **55770** 10

Imperial Dwarf White. Excellent for edgings; 9 in. **55780** 10

Little Dorrit. Azure blue. Plants 6 in. high, 1 ft. wide. **55790** 10

Swanley Blue. A fine, large-flowered sort; 1 ft. **55820** 10

Fine Mixed **55840** 5

AGROSTEMMA All of easiest cultivation, blooming during Summer and Autumn. "The Rose of Heaven" is very free flowering and fine for cut-flowers. The "Rose Campion" is excellent for naturalizing in dry situations.

Cœli-rosa (Rose of Heaven) (hA). Rose; Pkt. 1½ ft. **55860** 5

" **alba** (hA). White; 1½ ft. **55870** 5

†**coronaria** (Rose Campion) (hP). Rose; 2 ft. **55880** 5

† " **Dark Blood Red** (hP). 2 ft. **55890** 10

† " **White** (hP). 2 ft. **55900** 5

† " **Mixed** (hP). 2 ft. **55910** 5

†**Flos-Jovis** (Flower of Jove) (hP). Rose; 1 ft. **55920** 5

ALONSOA (Mask Flower). Bright, little, free-flowering annuals of fine habit; require some protection in cold weather. Bloom continuously all through the season; 1½ to 2 ft. Pkt.

albiflora. White. **55950** 5

grandiflora. Scarlet. **55960** 5

linifolia. Scarlet. **55970** 5

Warscewiczii. Scarlet. **55980** 5

ALSINE pinifolia. White. Hardy perennial, excellent for edgings. Thrives in shady places and blooms continuously; 6 in. **56000** 10

ALSTRÆMERIA (Peruvian Lily). Lily-like, hardy perennial. Blooms all Summer; 3 ft.

pulchella. Brilliant yellow, with red streaks. Pkt. **56020** 10

ALTHÆA rosea. See *Hollyhock*.

ALYSSUM Most popular, free-blooming annuals; suitable for borders, baskets, pots, rockwork, and for cutting. In the garden sow thickly so as to form masses, early in Spring or even the previous Autumn. For Winter bloom sow late in August, and thin the seedlings to about a dozen for a good-



Ageratum Lasseauxi

ALYSSUM—Continued

- sized basket. Cut back after the first flowers fade and others will come. Pkt.
- maritimum** (Sweet Alyssum) (hA). Fragrant white flowers, in clusters; all Summer; 1 ft. oz. 30c. **56050** 5
- compactum, Little Gem.** Grows erect; 6 in. ¼ oz. 20c., oz. 50c. **56060** 10
- procumbens, White Carpet.** Of trailing habit, forming a dense mass. ¼ oz. 20c., oz. 60c. **56070** 10
- Thorburn's Bouquet.** Very dwarf and compact; for pots and borders; 3 in. ¼ oz. 30c. **56080** 15
- saxatile compactum** (Gold Dust) (hP). Single plants cover a square foot in a year and produce hundreds of yellow flower heads. Grayish foliage; 1 ft. **56090** 5

***AMARANTUS** Strong-growing, highly ornamental tender annuals. The tricolor varieties are very valuable for bedding, having elegant, ornamental foliage, variegated crimson, yellow and green; also well adapted for growing in pots. Of easy culture, doing best in rich loam soil. For best results sow in hotbed in April and plant out the end of May. Please note that seed saved from the finest sorts frequently produce inferior plants.

- *bicolor ruber.** Red; 2 ft. **56150** 5
- *cruentus** (Prince's Feather). Dark red; 3 ft. **56160** 5
- *caudatus** (Love-Lies-Bleeding). Dark red; 3 ft. oz. 30c. **56170** 5



Amarantus caudatus



Alyssum, maritimum

AMARANTUS—Continued

- *Henderi.** Crimson and yellow; 4 ft. **56190** 5
- *melancholicus ruber.** Red; 2½ ft. **56200** 5
- *salicifolius** (Fountain Plant). Purple; 2½ ft. **56210** 10
- *tricolor** (Joseph's Coat). Variegated; 2½ ft. oz. 40c. **56220** 5
- *Fine Mixed.** oz. 25c. **56250** 5

AMETHYST. See *Browallia*.

AMMOBIUM alatum grandiflorum.

White. Pretty half-hardy perennial Everlastings. Of easiest culture; bloom all Summer; 2 ft. **56280** 5

ANAGALLIS grandiflora, Mixed (Pimpernelle). Half-hardy annuals of easy culture. Fine for borders, or rockwork. Continuously in bloom; 6 in. **56300** 5

ANCHUSA. Both the annual and perennial varieties of this attractive plant succeed well in the garden border. Fine for cut-flowers and bouquets. Pkt.

Barrelleri (hP). Dark blue; 2 ft. **56320** 10

capensis (Cape Forget-Me-Not) (hhA).

Azure blue; 1½ ft. **56330** 10

italica, Dropmore variety (hP). Blue; 3 ft. **56340** 10

ANEMONE (Windflower). Free-flowering, hardy perennials, producing large, cup-shaped flowers. Invaluable for cutting; require rich, deep soil; 1 to 2 ft.

coronaria (St. Brigid Poppy-flowered). Pkt.

Mixed. **56360** 10

Caen, Mixed. **56370** 10

japonica rosea. Rose. **56380** 25

" **alba.** White. **56390** 25

ANGELONIA grandiflora. Purple. Elegant greenhouse perennial; fine for pots; sweet scented; 1 ft. **56420** 25

ANTHEMIS. A very pretty plant, producing all Summer Daisy-like, golden yellow flowers; fine for cutting.

Kelwayi tinctoria (hP). Fine, large flow- Pkt.

ers on good stems; 2 ft. **56460** 10

ANTIGONON leptopus. Greenhouse perennial climber with pink flowers. **56470** 5

ANTIRRHINUM. See *Snapdragon*.

AQUILEGIA (Columbine). Few hardy perennials are so easily grown from seed, and will give such unalloyed satisfaction. A most desirable border plant. It forms large clumps, blooms early, long and abundantly, is useful for cutting and elegant in habit. Sow seed in the open ground in Spring, preferably where the plants are to grow, and thin to about a foot apart. Sow in the Fall for flowering the following season. They thrive well under ordinary garden culture, but such rare sorts as *A. cærulea* and *A. chrysantha* do best in partially shaded, well-drained nooks.

- canadensis.** Scarlet and yellow; for shade; Pkt. 1½ ft. 56510 10
- chrysantha.** Golden yellow; flowers large, long spurred; 3 ft. 56520 25
- cærulea** (Rocky Mountain Blue Columbine). One of the most beautiful of our native flowers. Sepals blue, petals white; 3 ft. 56530 15
- glandulosa vera.** One of the handsomest hardy perennials; stems 2 ft. high, with sometimes 50 to 80 blossoms 3 in. in diameter, of the deepest blue, with white corolla; a splendid flower ... 56560 50
- Jætschaui.** Large flowered, yellow; long, red spurs; 2 ft. 56570 10
- Long-spurred Hybrids, Mrs. Scott Elliott's Strain.** Magnificent hybrids in the greatest variety of colors and shades; one of the finest strains; 2 ft. 56580 25
- truncata.** Dwarf; scarlet and yellow; 1 ft. 56600 10
- vulgaris, Double Mixed.** Best colors. 56620 5
- " **Single Mixed.** Many good sorts. 56630 5



Aquilegia, Long Spurred Hybrids

ARABIS An early-flowering, hardy perennial especially suited for edgings and rockwork, growing about 6 in. in height, becoming a sheet of white and rose bloom in early Spring, adapting itself to almost any situation, and of easiest culture.

- alpina** (Rock Cross). White; 9 in. Pkt. 56660 10
- rosea.** Rose; a rare species; 6 in. 56670 25
- ARCTOTIS grandis.** White and lilac; 2 ft. The large, Daisy-like blooms of this fine hardy annual are excellent for cutting. 56680 10
- ARDISIA crenulata.** Fine, decorative greenhouse plant, with evergreen foliage; bearing bright coral-red berries; 5 ft. 56690 25
- ARGEMONE.** Easily grown, showy, hardy annuals, with Poppy-like flowers; blooming through the Summer and Autumn; 2 to 3 ft. Pkt.
 - grandiflora.** White. 56720 5
 - " **lutea.** Yellow. 56730 5
- †ARISTOLOCHIA elegans** (gP). Purple-and-white. Beautiful, strong-growing climbers for both greenhouse and open ground; grow finely all Summer; 20 ft. 56750 25
- ARNEBIA cornuta.** Rich yellow, spotted dark brown. Ornamental, free-flowering, half-hardy annual; fine all the season; 1 ft. 56780 25

ASCLEPIAS. Showy plants, including both greenhouse and hardy perennials, growing 2 to 3 ft. in height and blooming throughout the Summer.

- Curassavica** (Swallow-wort) (gP). Orange; Pkt. free bloomer. 56810 10
- " **atrosanguinea.** Dark red. 56820 10

ASPARAGUS Beautiful, fern-like foliage; fine for bouquets; an excellent house plant; white flowers; 4 to 6 ft. **plumosus nanus** (gP). The dwarf variety so largely used by florists. Pkt. 56860 10

- " **Hatcheri** (gP). Variety of *Plumosus nanus* style; a great improvement; 6 ft. 56870 25
- Sprengeri** (gP). Fine for basket work and for use with cut-flowers. 56890 10

- ASPERULA.** Sweet-scented, pretty plants for borders or rockwork; succeed finely in shady places or under trees; continuously in bloom; 1 ft. Pkt.
 - azurea setosa** (hhA). Light blue ... 56920 5
 - odorata** (Sweet Woodruff; Waldmeister) (hP). White. 56930 10
- ASTERS.** See pages 72 and 73.

AURICULA (*Primula auricula*) (hP). **Finest Pkt. Mixed.** Beautiful shades of color. These early Spring-blooming garden Primroses are great favorites; 6 in. **57020 25**

BACHELOR'S BUTTON. See *Centaurea* and *Gomphrena*.

BALLOON VINE (*Cardiospermum*). **A Pkt.** pretty and fast-growing, half-hardy annual climber, with white blossoms; 10 ft. oz. 40c. **57080 5**

BALSAM (*Lady's-Slipper*). These favorite half-hardy annuals are of the easiest culture, but love hot sun, rich soil and plenty of water. The young plants are quick, sure growers, and, from seed sown in the open ground in May soon form handsome bushes thickly massed with large, Rose-like flowers. Transplanting two or three times has a tendency to dwarf the plants into better shape and to make the flowers more double. Balsams are not often given room for perfect development; they will easily cover 12 to 18 in. of space each way. For the finest flowers



Double Balsam

choice seed is more than usually essential. We offer only the finest *double* sorts; 1 1/2 ft. Pkt.

- Double Bright Scarlet** **57100 10**
- " **Carmine** **57110 10**
- " **Lavender** **57120 10**
- " **Peach Blossom** **57130 10**
- " **Red, Spotted White** **57140 10**
- " **Rose** **57150 10**
- " **White** **57160 10**

Camellia-flowered, White. Flowers of extra size, double and full centered, with reflexed petals. The plant grows rapidly to a good height and is extremely floriferous. **57170 10**

Camellia-flowered, Mixed. Best colors. **57190 10**

Finest Double, Mixed. A splendid assortment. 1/4 oz. 30c. **57200 10**

BALSAM APPLE and PEAR. See *Momordica*.

BAPTISIA australis (False Indigo). Light blue. Very beautiful, strong-growing and ornamental, hardy, perennial border plant for Summer blooming; 3 ft. **57280 5**

BARTONIA aurea. Golden yellow. Beautiful, hardy annuals that bloom all through the season; very fragrant in the evening; 3 ft. **57300 5**

BEGONIA (gP). Begonias are invaluable for growing in beds and borders, also for pot culture, being perfect in habit, with very handsome foliage. Average height about 1 ft. The tuberous-rooted varieties produce gorgeous effects in the garden and are one of our best Summer-blooming plants. The seeds of all varieties should be started early. Pkt.

Single Tuberous-rooted, Mixed **57420 25**

Double Tuberous-rooted, Mixed **57430 50**

Fringed Single Tuberous-rooted, Mixed **57440 25**

Double Tuberous-rooted Camellia-flowered, Mixed. Fine, large, double flowers of various colors and bright foliage; blooms profusely. **57450 50**

gracilis luminosa. Dark scarlet, reddish brown foliage; Winter flowering; fine for pots. **57460 25**

metallica. Metallic foliage, rose flowers; Winter blooming; 2 ft. **57470 75**

***Rex.** Ornamental-leaved varieties in mixture. **57480 25**

semperflorens rosea. Rose-colored flowers; fine for edging. **57500 25**

" **alba.** White flowers borne in profusion. **57510 25**

" **Erfordii.** Rosy carmine; fine for groups. **57520 25**

" **foliis aureis.** Scarlet; yellow leaves; for edgings. **57530 25**

" **Vernon.** Red; for borders. **57540 25**

" **Vernon Bijou.** Bright scarlet; 6 in. **57550 25**

" **Zulu King.** Scarlet; blackish leaves. **57560 25**

" **Mixed** **57570 25**

BELLIS perennis. See *Daisy*.

BENINCASA cerifera (tA). A black, wax-like gourd with yellow flowers; 6 ft. **57610 10**

BIDENS atrosanguinea (hA). Showy, like the Calliopsis; easily grown; flowers dark red; 2 ft. **57630 10**

BLUE BOTTLE. See *Centaurea cyanus*.

***BOCCONIA japonica.** A very ornamental, Pkt.
hardy perennial; fine in large beds; flowers
white; 6 ft. 57650 10

BOUVARDIA Jacquini (gP). A fine green-
house evergreen; flowers scarlet; 2 ft.
57690 25

BRACHYCOME. The well-known "Swan River
Daisy" is a beautiful, little, half-hardy annual;
blooms all Summer; fine for edgings and
borders. Should be started in hotbed; 1 ft.
Pkt.

iberidifolia. Blue.....57710 10
" **alba.** White.....57720 10
" **rosea.** Rose.....57730 10
" **Mixed.**.....57740 10

BROWALLIA (Amethyst). Half-hardy, profuse-
blooming annual; highly prized for Summer
bedding or as greenhouse plants. Fine for
cutting; 2 ft. Pkt.

elata. Blue.....57780 10
" **alba.** White.....57790 10
" **Mixed.**.....57800 10

Roezelii. White and pale blue; fine for
pots.57810 25

speciosa major. Blue; Winter blooming.
57820 25

‡**BYRONOPSIS laciniosa erythrocarpa** (tA).
A very pretty ornamental gourd, with red
flowers.....57830 5

CACALIA (Tassel Flower). Very pretty and most
easily grown hardy annual, with tassel-
shaped flowers; 1½ ft. Pkt.

coccinea. Scarlet.....57880 5
" **lutea.** Orange.....57890 5

CACTUS (hhP). Mixed varieties.
Seeds of these interesting
plants should be started in the greenhouse
in moist sand.....57900 25

‡**CALAMPELIS scabra** (fhP). Fine climber
for trellises; flowers orange scarlet; 10 ft.
57920 10

CALANDRINIA. Brightly colored, little hardy
annuals, fine for edgings; continuously in
bloom, and do well in sunny situations; 6 in.
Pkt.

speciosa. Purple.....57950 5
umbellata. Violet.....57960 10

CALCEOLARIA The seeds are very
small, and should be
sown in the greenhouse on the surface of shal-
low boxes filled with a light, sandy soil, which
has been sifted. Sow moderately thick in
rows on the surface and cover very lightly
with sifted Sphagnum Moss, Coconut waste
or very light soil. Press the soil firmly on the
seed. The watering should be done care-
fully; an atomizer or brush is best, to retain
the moisture the box may be covered with a
pane of glass which must be removed as soon
as the plants appear. The soil should be
light and rich.

hybrida. Large flowered; self colored; 2 ft. Pkt.
57990 25

" Large flowered; tigered or spot-
ted; 2 ft.....58000 25

" Large flowered; dwarf; tigered;
1 ft.....58010 25

" Large flowered; tigered and self
colored; 2 ft.....58020 25



Calendula officinalis Nankeen

CALCEOLARIA—Continued

rugosa, Mixed. Finest shrubby varieties Pkt.
for bedding; bear a profusion of beautiful
flowers of various colors; 1 ft.58060 25

pinnata (hA). Yellow; for bedding; 1 ft.
58080 15

scabiosæfolia (Californica) (hA). Yellow;
for bedding; 1 ft.....58100 10

CALENDULA Hardy annuals about 1 ft.
high. Sow in the open

early in Spring and the plants will bloom early
in Summer. Calendulas have become very
popular of late; the striking orange, red and
yellow blooms are very effective and attrac-
tive, growing on stout, long stems. They
are excellent for cutting, and are produced in
great profusion, blooming until late in Autumn.

officinalis fl. pl. grandiflora. Double;
large flowered; deep orange. Pkt.
58160 5

" **fl. pl. grandiflora sulphurea.**
Double; light yellow; large-
flowered.....58170 5

" **Nankeen.** A rich, soft shade of
nankeen yellow; large flowers.
58180 5

" **Meteor.** Creamy center, edged
with orange; fine for cutting.
oz. 25c...58190 5

" **Prince of Orange.** Glittering
orange and yellow. One of the
best.....oz. 25c...58200 5

" **ranunculoides** (Garden Mari-
gold). Orange; double flowers.
58210 5

pluvialis (Cape Marigold). White or
ivory.....58220 5

Pongei fl. pl. Handsome, double, white
flowers.....58230 5

Mixed, All Sorts......oz. 25c...58240 5

See, also, *Marigold*.

CALLA æthiopica (gP). The old favorite
white Calla; 2 ft.....58270 10



Coreopsis Grandiflora

- CALLIOPSIS** This hardy annual is another of the garden's great forces in yellow, strengthened with rich red maroons and browns. Sow in the open ground in Spring, and, in thinning or transplanting, give the plants plenty of room to spread. Their tall slender habit makes neat staking and tying necessary. Fine for cutting. Pkt.
- bicolor** (Tinctoria). Yellow brown; 2 ft. 58290 5
 - “ **hybrida fl. pl.** Double; mixed; 1 ft. 58300 5
 - “ **marmorata.** Maroon and gold; 1½ ft. 58310 5
 - “ **nana radiata** (Ray of Gold). Golden yellow flowers; 6 to 8 in. 58320 10
 - cardaminifolia hybrida.** Red and yellow; 1½ ft. 58330 5
 - coronata.** Yellow; very fine; 1½ ft. 58340 5
 - Drummondii** (Golden Wave). Golden brown; 1 ft. 58350 5
 - hybrida superba.** Very showy hybrids in great variety. 58360 10
 - Mixed Annual Sorts.** .oz. 25c. 58370 5

COREOPSIS (Perennial Calliopsis).

- One of our finest hardy perennials; bloom practically all Summer; fine for borders and groups.
- grandiflora.** Large flowers of rich yellow; 2 ft. 58400 10
 - lanceolata grandiflora.** Large, golden yellow flowers; fine for cutting. 58410 10
 - “ **California Sunbeams.** Flowers very large, in a great variety of beautiful forms and various shades of yellow and brown; 1 ft. 58420 10

CALLIRHOE pedata (Poppy Mallow) (hA). Free-flowering, erect-

growing variety; rosy carmine; 2 ft. Pkt. 58460 5

CAMPANULA and CANTERBURY BELLS. Popular and

beautiful are Campanulas. Although the Canterbury Bells are biennials they may also be treated as annuals, and will flower the first year from seed, if sown early in the Spring. For effect in the border plant them in clumps of separate colors, and they are beautiful when massed. The perennial varieties, treated as perennials, will flower most profusely by mid-summer. The tall and stately growing kinds will be found of great value for the border, while the dwarf sorts make charming rock and edging plants. All the varieties like a rich, sandy soil with good drainage.

- carpatica** (hP). Deep blue; for rockeries, beds and edgings; 6 in. 58530 10
- “ **alba.** Flowers white; 6 in. 58540 10
- Medium Single Blue** (Canterbury Bells) (hB). Blooms first year if sown early; 2 ft. 58560 5
- “ **Single White.** Pretty for contrasts. 58570 5
- “ **Single Rose.** 58580 10
- “ **Single Striped.** Very fine. 58590 10
- “ **Single Mixed.** 58600 5
- “ **Double Blue.** Rich, heavy, curious flowers through Summer and Fall. 58610 10
- “ **Double White.** Waxy appearance. 58620 10
- “ **Double Rose.** 58630 15
- “ **Double Mixed.** 58640 10
- calycanthema** (Cup-and-Saucer) (hB). Blue; symmetrical; often has 35 to 40 flowers open at same time on a single plant. For pots or borders; 2 ft. 58650 10
- “ **alba.** A white flowered variety of the above. 58660 15
- “ **rosea.** Rose; a very fine sort. 58670 15
- “ **Mixed.** Shades of blue and white. 58680 10
- “ **Prize Mixture** of all colors, Single and Double Calycanthemas; an unequaled strain. 58700 15
- Loreyi, Blue.** Large flowers; very pretty hardy annual. 58740 10
- macrostyla** (hA). Large, lovely violet flowers; 3 ft. 58750 10
- nobilis alba** (hP). White; semi-double; blooms in June; 2½ ft. 58760 25

CAMPANULA—Continued

- persicifolia grandiflora, Blue** (hP). Su-Pkt. perb, large flowers and long, narrow, peach-like foliage. For finest effects plant the blue and white varieties together; 2 to 4 ft. June and July.....**58770** 25
- “ **grandiflora alba**. A white-flowered variety of the above, growing to the same height. **58780** 25
- “ **grandiflora, Fine Mixed**. **58790** 25
- pyramidalis** (Chimney Bellflower) (hhP). Spikes 3 to 4 ft. tall, erect, pyramidal; flowers large and of a beautiful blue; blooms in late Summer and Autumn.....**58800** 10
- “ **alba**. White.....**58810** 10
- grandiflora Mariessii** (hP). A fine, dwarf, dark blue variety, growing 1 ft. high. **58820** 10
- Vidali** (gP). White; very floriferous and handsome; 2 ft.....**58840** 15

‡**CANARY-BIRD FLOWER**

(*Tropæolum canariense*). Also known as Canary Creeper. Fine, half-hardy annual; yellow flowers; 10 ft.....**58860** 10

CANDYTUFT (*Iberis*). The Candytufts are among our best hardy annuals for edgings, bedding, massing or rockeries, and for cutting. Several of the varieties are fragrant, and all are profuse in bloom. Sow outdoors in April, and thin well when the plants grow about an inch. Sow again in a month, and late in July for Fall flowers. Give rich soil, and water freely.

- affinis**. Neat and pretty bedder; 6 in. Pkt. **58870** 5
- amara**. White; 1 ft.....oz. 30c...**58875** 5
- coronaria** (Rocket Candytuft). Of candleabra form; flowers in upright spikes...oz. 30c...**58880** 5
- “ **Empress**. White; 1 ft. ¼ oz. 20c., oz. 50c...**58885** 5
- “ **Giant Hyacinth-flowered**. White flowers borne in large trusses.....**58890** 5
- “ **Little Prince**. Very large heads of pure white flowers; fine for border and pots; 6 in...**58895** 10
- odorata**. Small, white, fragrant flowers. **58900** 5
- umbellata**. Purple; 1 ft.....**58905** 5
- “ **carminia**. Bright carmine; 1 ft.....**58910** 10
- “ **carnea**. Flesh colored; 1 ft. **58915** 5
- “ **Dunnetti**. Dark crimson; 1 ft.....**58920** 5
- “ **lilacina**. Lilac; 1 ft...**58925** 5
- “ **Dwarf Hybrids**. Mixed colors; 6 in.....**58935** 10

Mixed Annual Sorts....oz. 25c...**58940** 5

CANDYTUFT—Continued

PERENNIAL CANDYTUFT. Hardy evergreen plants, making a magnificent showing the second year from seed. They bloom very early, cushioning rock ledges, borders, etc., with banks of bloom. Sow outdoors in Spring or Fall in any sunny place.

- sempervirens**. White flowers remain fresh nearly a month; 1 ft.....**58990** 15
- ***CANNA** (Indian Shot) (hhP). One of our best bedding plants; beautiful, ornamental foliage and large, brilliant flowers. Much employed in subtropical gardening, groups on lawns and mixed flower beds. Soak the seed before planting; 4 ft.
- ***Queen Charlotte**. Scarlet and yellow. Pkt. **59040** 10
- ***Finest Mixed**. Crozy's hybrids; very fine. **59050** 5
- CANNABIS gigantea** (Giant Hemp) (hhA). A fine foliage plant for borders; 8 ft..**59070** 5
- CANTERBURY BELLS**. See *Campanula*.



Campanula Medium Single

CARNATION (*Dianthus Caryophyllus*).

The splendid Carnation of the florist is a very interesting plant to grow from seed, and it is not over-exacting. Sown under glass in early Spring or later in the open ground the plants will flower finely the second Summer. For largest, richest flowers we recommend culture in pots of rich soil. With many they are also garden favorites, and, grown in this way, flowers of good quality may be enjoyed all Summer if given plenty of water, good soil and a mulch about their roots. With tall varieties staking and tying is necessary. Young plants are perfectly hardy outdoors, but when two or three years old they are injured by Winter cold, so that sowings should be made every year. *The more expensive sorts produce the finest flowers. The prices we quote, although seemingly high, are most reasonable for strains such as we offer.*

MARGARET CARNATIONS are an extra vigorous race, especially adapted for outdoor culture. They are very neat in habit, and remarkable for their rich profusion of flowers, produced in five months from sowing. Grown as annuals from seed sown every Spring they are most satisfactory. Our seed of these varieties is grown exclusively in the famous Chabaud Garden of Carnations, Provence, France.

Double White. Large, perfect flowers; Pkt. 1½ ft. 59120 10

Double Yellow. A clear, soft shade; 1½ ft. 59130 25

Double Mixed. 1½ to 2 ft. oz. \$1.50 . . . 59140 10



Carnation, Thorburn's Margaret

CARNATIONS—Continued

Giant Margaret. Extra large and perfect, flowering in a rich variety of colors; 80 per cent. of the flowers generally come double. A splendid sort for cutting; 1 ft. 59150 25

PERPETUAL CARNATIONS. This race has large, elegantly formed flowers, continually abloom, upon closely branched, symmetrical plants, often called, from their neat habit, Tree Carnations.

Chabaud Perpetual Double. Mixed— Pkt. yellow, red, white, etc.; 1½ ft. Blooms in six months. 59160 25

Comtesse de Paris. Very dwarf; yellow; comes true from seed. 59180 50

Jeanne Dionis. Enormous flowers of the purest white and most perfect form. 59190 75

Sparkling (Etincelant). Large flowers of bright, glittering red, of surpassing richness. 59200 50

Perpetual, or Tree Carnation. Extra choice quality, mixed. 59210 25

Giant Perpetual White. Very large, perfectly double; flowers in seven months after sowing. 59220 50

" " **Yellow.** Creamy to golden yellow; 80 per cent. come true to color; stems long and sturdy. . . 59230 50

" " **Fine Mixed.** Enormous flowers; perfectly double; splendid colors. . . . 59240 50

Prize Mixture Carnations and Picotees. Saved from stage flowers. . 59250 30

American New Varieties. Saved from best sorts; large flowers on long stems. 59255 50

BORDER CARNATIONS, etc. We invite attention to the splendid collection below:

Red Grenadine, Double. Brilliant scarlet; 2 ft. 59270 25

Early Dwarf Vienna, Double Mixed. Fine for garden culture and for cutting; 1 ft. 59290 15

" " " **Double White.** Very fine; always comes true white. 59300 15

Fine Double Mixed, Variegated. Splendid mixture. 59340 15

Fine Double Mixed, Self-colored. 59350 15

Double Mixed. 59370 10

Collections of Carnations, Imported, including:
 18 varieties. 59410 1 50
 12 varieties. 59420 1 00
 6 varieties. 59430 75

CASSIA artemisioides (Senna) (gP). A very pretty shrub, with finely cut, silvery foliage and yellow flowers; sweet scented; Pkt. will stand drought very well; 4 ft. **59450** 15

CASTOR-OIL PLANT. See *Ricinus*.

CATANANCHE. Pretty, hardy perennials with everlasting flowers. Free flowering; easily grown, blooming first season; 2 ft.

cærulea alba (bicolor). Blue and white. Pkt. **59480** 5
cærulea. Blue. **59490** 5

CATCHFLY. See *Silene*.

CELOSIA (Cockscomb).

CRISTATA. An annual of easy culture. They are most effective in the border. Transplanted into a rich soil about the time the combs begin to form make the flower heads much larger, and they last from Midsummer till closed by frost.

Glasgow Prize. Dark leaves and crimson combs; fine for solid beds and for edgings; 1 ft. **59520** 10

Dwarf Bright Red. A miniature plant, with enormous combs of intense bright red. **59530** 10

" **Crimson.** **59540** 10

" **Dark Yellow.** Yellow combs. **59550** 10

" **Light Yellow.** **59560** 10

" **Mixed.** Extra large combs in all the above colors. **59570** 10

Tall Mixed. Very fine. **59575** 10

PLUMOSA (Plumed, or Ostrich-feather Cockscomb). Beautiful annual foliage plants, blooming in late Summer and Autumn, and producing large, showy plumes, curled and curved, much resembling ostrich feathers. Elegant for beds and borders; 2 to 3 ft. Pkt.

Ostrich-Feather, Crimson. **59590** 10

" **Orange.** **59600** 10

" **Finest Mixed.** **59605** 10

Pride of Castle Gould. Handsome, compact, feathery plumes. In shades of blood reds, carmines, yellow and orange. **59620** 25

Thompsonii. Feathered; red; superb. **59635** 15

" **magnifica, Mixed.** Superb assortment of the plumed varieties. **59640** 15

Pompon (Chinese Woolflower). Brilliant scarlet; quite distinct. **59680** 15

CENTAUREA The popular Cornflower, (*Centaurea cyanus*), is also known as Blue Bottle, Ragged Sailor, Kaiserblumen, and sometimes as Bachelor's Button. Bright-flowered plants of the hardiest nature and simplest culture, among the most attractive and graceful of all the old-fashioned flowers. The perennial sorts increase rapidly and bloom profusely.

PERENNIAL FLOWERING. A dry, sandy soil of moderate fertility seems to suit them best, keeping up a profusion of bloom all Summer.

macrocephala. Flower heads large, Pkt. showy, bright yellow; 3 ft. **59720** 10

montana, Blue. Large-flowered perennial Cornflower. **59725** 10

" **alba.** White. **59730** 20



Celosia Plumosa

CENTAUREA—Continued

PERENNIAL, SILVER-LEAVED. These are used for borders or edgings, and thrive anywhere. Flowers white, leaves grayish; half hardy; height 1 ft.

candidissima. Silvery white leaves. Pkt. **59740** 10

Clementei. Broadly cut, silvery leaves. **59750** 10

gymnocarpa. Silvery white, small leaves. **59760** 10

HARDY ANNUALS. Flower finest in full sun and thin soil. Sow in open ground in Spring; 1½ to 2 ft.

americana. Large, lilac-purple flowers; Pkt. bushy plants; very fine. Constant and profuse bloomer. **59780** 10

imperialis. A hardy annual of great beauty; the fluffy flowers borne on long, stiff stems. Yellow, mauve, lilac, rose and white in color, are very beautiful. They are splendid for cutting, and the cut blooms, if placed in water, are very lasting.

White. Very large flowered, hardy Pkt. and floriferous. **59790** 10

Purple. Beautiful, velvety purple. **59798** 10

Lilac. Very large flowered; hardy. The same as the white, except in color. **59810** 10

Rose. Charming, glowing rose. **59818** 10

Yellow. Bright yellow flowers; very fine for use as cut-flowers. **59830** 10

Mixed. Very large flowered; hardy. **59840** 10

CENTAUREA Hardy Annuals—Continued

- odorata, Chameleon.** Yellow and rose; Pkt. fragrant; superb; fine cut-flowers.....59860 10
- “ **Margaritæ.** Pure white; 2½ in. across; lacinated and scented; forms stocky, well budded little bushes; 1½ ft. 59880 10
- moschata atropurpurea** (Purple Sweet Sultan). Large flowers on long stems.....59900 5
- “ **atropurpurea alba** (White Sweet Sultan).....59910 5
- “ **atropurpurea, Mixed.** (Mixed Sweet Sultan). 59930 5
- suaveolens** (Yellow Sweet Sultan). Fine. 59950 5
- “ **rosea.** Rose Sweet Sultan. 59960 10
- Cyanus** (Cornflower). Blue; delightful, old-fashioned flowers, blooming profusely all Summer; borne on long, stiff stems, and fine for cutting; 1 to 2 ft.....oz. 25c...59970 5



Centaurea Imperialis—See page 87

CENTAUREA Hardy Annuals—Continued

- Cyanus Emperor William.** Blue; one Pkt. of the finest of all Corn-flowers, and much used for cutting.....oz. 30c...59980 5
- “ **Rose.** Distinct shade; flowers borne on long stems; good for cutting.....60010 5
- “ **Victoria, Dwarf Compact.** For pots and edgings; azure blue; 9 in.....60020 10
- “ **Pure White.** Very fine...60030 5
- “ **Mixed**.....oz. 25c...60040 5
- “ **Double Mixed.** ¼ oz. 20c., oz. 50c...60050 5
- “ **Mixed Dwarf Hybrids.** ¼ oz. 25c., oz. 80c...60060 10
- Collection of Centaurea Cyanus, Imported,** including 6 varieties...60070 25
- CENTAURIDIUM Drummondii** (hA). Pretty, little, composite yellow flowers; 1½ ft.....60100 5

CENTRANTHUS

Very pretty, free-flowering annuals, suitable for rockeries, vases and the garden border; 1 ft. Pkt.

- macrosiphon.** Red.....60120 5
- “ **nanus.** Red; dwarf; ½ ft. 60130 5
- “ **nanus albus.** White. 60140 5
- “ **Mixed**.....60150 5

CERASTIUM

(Snow-in-Summer). Pretty, silver-leaved, trailing, hardy perennials; fine edging plants, also for rockeries; 6 in. Pkt.

- tomentosum.** White.....60190 25
- Biebersteini.** White.....60210 25

CHAMÆPEUCE diacantha

(Ivory Thistle). A spiny border perennial with glaucous foliage; flowers purple; 1½ ft....60270 10

CHORIZEMA ilicifolium.

A very fine, evergreen, greenhouse plant, easily produced from seed; flowers yellow and red; 2 ft.....60340 25

CHRISTMAS ROSE. See *Helleborus*.

CHRYSANTHEMUM

Do not confound these

annuals with the Winter-flowering sorts of the florists. They bloom profusely from early Summer until frost, and, when grown in large beds or masses their bright colors make a splendid show. The plants can be brought into bloom early by sowing the seeds in frames or window-boxes, and afterward transplanting to the garden; or seed may be sown where the plants are to flower, if the seedlings are thinned to 8 to 10 inches apart. Pinching back in early growth makes the plants bushy and shapely. Average height, 1 to 1½ ft.

- coronarium, Double sulphureum.** Pale Pkt. yellow.....60370 5
- “ **Double Yellow.** Golden yellow; splendid.....60390 5
- “ **Double White**.....60410 5
- “ **Double Mixed.** Yellow, white, etc..oz. 50c...60430 5

CHRYSANTHEMUMS—Continued

- tricolor.** The tricolor sorts have beautiful rings and eyes of various colors, and are distinctively handsome, with long stems.
- " **Burridgeanum.** Crimson margin, with white edge and inner circle; brilliant and showy. Pkt. 60450 5
 - " **Eclipse.** Yellow, with velvety brown band. 60460 10
 - " **Golden Feather.** Foliage rich yellow; flowers bright red and white, on long stems. . . . 60470 5
 - " **Northern Star.** Giant white flowers, with black centers. 60480 10
 - " **Scarlet.** Dark and rich. . . . 60490 5
 - " **White.** 60510 5
 - " **Single Mixed.** All colors. ¼ oz. 25c., oz. 50c. . . . 60520 5
 - " **Double hybridum, Mixed** (Dunnetti) 60550 10
 - " **Double Golden-leaved Sorts.** A mixture of beautiful, yellow-leaved sorts; flowers of various bright, vivid colors. . . . 60560 10
 - " **Single and Double Mixed.** ¼ oz. 25c., oz. 75c. . . . 60570 5
- frutescens** (Paris Daisy, or Marguerite). (gP). Beautiful for cutting and pot culture; long-stemmed, single, white flowers, with golden centers. A favorite variety with florists. 60610 10
- inodorum, Double.** Pretty, white flowers, carried on long, stiff stems; fine for cutting; 1 ft. 60620 10
- Leucanthemum** (Shasta Daisy) (hP). Extra large flowers, with pure white petals and brilliant, golden yellow center; 2 to 2½ ft. 60630 10
- Leucanthemum Secundum.** (June Marguerite). Flowering in succession to The Shasta Daisy. 60635 15
- segetum, Morning Star.** Large, yellow flowers; for cutting. . . . 60650 5
- " **Helios, Evening Star.** Fine for cutting; pure golden yellow flowers of gigantic size, borne on long stems. 60660 5
- Collections of Chrysanthemum tricolor, Imported, including:** Pkt. 12 varieties. 60690 45

PERENNIAL VARIETIES. This section includes the large-flowered sorts, and the pretty, hardy Pompons that make bright masses of color in our gardens long after heavy frosts have cut down other flowers. *We wish to make quite clear the distinction between this class and the Annual Chrysanthemums described above, so that, as has sometimes happened heretofore, customers may not order seed of the Summer-blooming garden varieties, expecting them to yield the grand show flowers of late Fall, which are obtained from cuttings carefully cultivated. For ordinary culture and room decoration plants pinched back to form a number of branches, and holding from five to ten flowers are satisfactory. Average height of show kinds, 3 ft.*



Chrysanthemum tricolor

PERENNIAL CHRYSANTHEMUMS—Continued

- indicum, Double.** Will produce superb flowers of different types and colors; fine for forcing and cut-flowers. 60730 25
- " **Pompon.** The pretty, hardy dwarfs, with bright, clustered flowers, which brighten up the garden late in Autumn; 1½ ft. 60740 25
- japonicum fl. pl. From finest flowers.** Double. An extra choice mixture, including many of the finest large-flowering sorts. 60750 50

CINERARIA One of the most useful and ornamental of greenhouse

plants, with flowers of the richest and most brilliant colors and shades, and of the finest texture. It is rather a difficult plant to grow if its requirements are not understood. The mistake generally made is in growing it in a warm house instead of a cool one. The seed should be started in the greenhouse. For Winter blooming sow in April and May in shallow boxes, in fine soil; drop the seed in shallow drills, cover, and press the earth rather firmly with a piece of board or the bottom of a pot. Set the box where it will get the morning sun, water moderately and carefully. Average height, 2 ft. Pkt.

- Azure Blue.** Dwarf; fine for edging. . . . 60780 25
- Large-flowered, Crimson.** Very brilliant and showy. 60800 25
- " " **Flesh Colored, Mixed.** 60810 50

CINERARIA —Continued		Pkt.
Large-flowered, Stella, Mixed. Twisted and fluted petals; large flowers of very rich and bright colors.....	60820	50
“ “ White. Handsome.	60830	25
“ “ Prize Mixed. Magnificent strain.....	60840	60
“ “ Half Dwarf, Prize Mixed Exquisite; 1 ft....	60850	60
Splendid Mixed. All fine sorts....	60860	25
“ “ Double	60870	60
stellata (Polyantha). Mixed.....	60880	25
HALF-HARDY PERENNIALS. Require some protection.		
maritima (Dusty Miller). Silvery leaves.	60910	5
“ candidissima. Beautiful, white foliage; the best.	60920	10

CLARKIA One of the prettiest and showiest of hardy annuals that bloom freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight; useful for hanging baskets, vases and as edgings to beds of larger growing plants. Sow outdoors in early Spring and grow in partial shade. The plants keep up a continuous bloom through Midsummer to late Autumn; average height, 1½ ft. Pkt.

elegans alba, Double. White.....	60960	10
“ rosea. Rose.....	60970	5
“ “ Double. Rose.....	60980	10
“ Single Mixed	60990	5
“ Double Mixed	61000	5
“ Double and Single Mixed ..	61010	5

CLARKIA —Continued		Pkt.
pulchella alba. White.....	61030	5
“ marginata. White edged..	61040	5
“ Red	61050	5
“ Single Mixed	61070	5
“ Double and Single Mixed.	61080	5

CLARY (Salvia Horminum). Pretty, hardy annuals for beds and borders; 1½ ft.		Pkt.
Purple-Top. Purple.....	61110	5
Red-Top. Red.....	61120	5
White-Top. White.....	61130	5

‡**CLEMATIS** (Virgin's Bower). Excellent for trellises, arbors, verandas, etc. Do well in most locations.

crispa. Pale purple; floriferous; 10 ft.	61160	25
paniculata. White, fragrant, very free blooming; 10 to 20 ft.....	61180	10
Jackmani Hybrids, Mixed. Collection of the best colors; 10 to 15 ft.....	61190	25

‡**CLINTONIA** (Downingia pulchella). Very pretty border annual; flowers freely in purple, white and yellow (tricolor); fine for edgings; 6 in..... Pkt. 61270 25

‡**CLITORIA.** Beautiful greenhouse and conservatory climber, with large, pea-shaped blooms; 10 ft. Pkt. 61290 10

ternatea. Blue.....	61290	10
‡ COBAEA Tender climbing perennials of rapid growth; 20 ft.		
‡ scandens. Purple, bell-shaped flowers.	61330	10
‡ “ alba. White.....	61340	15

COCKSCOMB. See *Celostia*.

***COLEUS** (gP). Splendid bedding plants; with beautifully colored foliage, very useful for decorative purposes; 2 ft. Pkt. 61410 25

Fine Hybrids, Mixed.... 61410 25

Finest Mixed Large-leaved..... 61420 50

COLLINSIA Free-flowering annuals.

If sown in Autumn, will stand the Winter and flower early in Spring. All the species are brightly colored, and excellent for growing in patches or clumps; easily grown in any garden soil; 1 to 1½ ft. Pkt.

bicolor. Lilac and white	61490	5
“ alba. White.	61500	5
“ candidissima.	White..	61510 5
multicolor. White, violet and lilac.....	61530	5
verna. Light blue and white.....	61550	5
Mixed	61560	5

COLLOMIA. Hardy annuals suitable for massing; fine for bees. Pkt.

coccinea. Scarlet and yellow; 1 ft.....	61590	5
grandiflora. Yellow; 2 ft.	61600	5



Cineraria Hybrid

COLUMBINE. See *Aquilegia*.

COMMELYNA. Showy, half-hardy perennials; favorite plants for pots and gardens; 1½ ft. Pkt.

coelestis. Blue.....61630 5

CONVOLVULUS

TALL. Beautiful and easily grown annual; rapid in covering screens, trellises, etc.

major (Tall Morning Glory). **Mixed.** Pkt. Finest colors; 10 ft. up..oz. 20c...61690 5

mauritanicus (hP). Blue; trailing habit; fine for baskets and rockeries...61700 10
For **Japanese Morning Glory**, see *Ipomæa*.

DWARF. Dwarf Morning Glories are most elegant annuals for growing in clumps or beds; also for edgings and hanging-baskets; very bushy; of easiest culture; bloom all season; 12 in. Pkt.

tricolor (minor). Blue.....61730 5
" **Crimson-violet**.....61740 5
" **Rose**.....61750 5
" **unicaulis.** Purple.....61760 5
" **White**.....61770 5
" **Mixed**.....oz. 25c...61780 5

Collection of Convolvulus tricolor, Imported, including 8 varieties..61790 35

COREOPSIS. See *Calliopsis*.

CORNFLOWER. See *Centaurea Cyanus*.

COSMIDIUM Burridgeanum. Very showy, hardy annuals of easy cultivation; flowers velvety brown; 2 ft.....61860 5

COSMOS One of the notable Fall flowers. A strong, tall-growing annual, with bold flowers of exquisite daintiness and airiness, heightened in effect by their foliage setting of feathery green. It is most effective when planted in broad masses, or long background borders against evergreens or fences. We offer only the choice, large-flowering strains. *To make sure of flowering early Cosmos should be started indoors and transplanted into dry, sandy or poor soil, in a sunny situation.*

THORBURN'S NEW EXTRA EARLY FLOWERING. Rose pink and shell pink. Pkt. See **Novelties**.....61870 25

EARLY FLOWERING. If seed is started early in the house or frame, this fine strain will produce flowers a month earlier than Mammoth Perfection. Pkt.

Crimson.....61880 10
Pink.....61890 10
White.....61900 10
Mixed.....¼ oz. 25c., oz. 75c...61910 10

Dawn. Choice Mixed.....61912 10

Lady Lenox. Lovely, large, shell-pink flowers of great substance. One of the finest of Cosmos.....61920 10

Lady Lenox. White, counterpart of above except as to color.....61925 15

MAMMOTH PERFECTION. Large flowers on long stems, lasting until frost.

Conchita. Crimson. Pkt. ¼ oz. 20c., oz. 60c...61930 10

COSMOS—Continued

Erlinda. White. Pkt. ¼ oz. 20c., oz. 60c...61940 10

Rosita. Pink. ¼ oz. 20c., oz. 60c...61950 10

Mixed.....¼ oz. 20c., oz. 50c...61960 10

Klondyke. Orange colored; distinct foliage.....61990 25

Marguerite. Petals deeply and irregularly fringed; in various bright colors. An attractive flower.....62010 10

Striped. Charming and distinct; large, white centers, and petals deeply striped white.....62030 10

Tints of Dawn. Handsome, white flowers, slightly tinged with rose.....62040 10

COWSLIP (*Primula officinalis hybrida*) (hP). Favorite Spring flower; fragrant; mixed colors; 6 in.62080 10

CRUCIANELLA stylosa (Crosswort). Hardy perennial, with pink flowers; 1 ft...62100 5

†**CUCUMIS** Very luxuriant, half-hardy, climbing annuals of extremely rapid growth, bearing curious fruits; flowers yellow; 10 to 15 ft. Pkt.

flexuosus (Snake Cucumber).....62140 5

grossulariæformis (Gooseberry Gourd). 62150 10

CUCURBITA. See *Gourds*.

†**CUPHEA.** Pretty half-hardy perennials; fine border and pot-plants; 1 to 1½ ft. Pkt.

miniata. Crimson.....62200 10

platycentra (Cigar Plant). Long-shaped, scarlet flowers all Summer.....62210 10

Rœzii. Red.....62230 25



Cosmos, Early Flowering Mixed



Single Dahlias

CYCLAMEN

These bulbous greenhouse plants are all very beautiful and are unapproached among Winter-flowering plants for duration of bloom, variety of shades, and wealth of coloring. They are among the best plants recommended for house culture, as they thrive well and bloom profusely in the average temperature of the living room. Sow the seed in small boxes or seed pans in a compost of well rotted manure, leaf mold and sand, in the early Winter months. Cover lightly with moss, which should be kept moist and should be removed after the seed germinates. Prick out into small pots when the young plants have two leaves. If grown steadily without any check, they will flower in from ten to twelve months. Average height 9 in.

giganteum album, Mont Blanc.	White.	Pkt.
		62300 25
" albo-rubrum.	White with red eye.	
	100 seeds \$1..	62310 25
" atropurpureum.	Dark red.	
		62320 25
" Princess May.	Purest white, tipped crimson; very handsome.	
		62340 25
" roseum.	Rose.	62350 25
" Rosy Morn.	Rich rose, shading to purplish tinge.	62355 25
" Salmon Queen.	Salmon; very fine.	62360 25
" Mixed.	Finest sorts.	62380 25
persicum Papilo, Mixed (Butterfly Cyclamen).		62400 25
" Mixed.		62410 10

CYPERUS alternifolius (Umbrella Plant). A perennial grass-like plant of fine habit; grows well in water and damp places; 2 ft. 62450 15

CYPRESS VINE. See *Ipomœa Quamoclit.*

†DAHLIA This favorite, half-hardy perennial is most easily grown from seed sown early in the house or greenhouse. Will bloom freely outdoors until frost the first season; 3 to 6 ft. Pkt.

Double Mixed.		62480 10
Single Mixed.		62490 10
Single Cactus, Mixed.		62500 10
Double Cactus, Mixed.		62505 25
Single Collar (Collarette). Mixed.		62510 10
Jules Chretien (Dwarf).	Fine, single flowered; scarlet; 1 ft.	62530 10
Lucifer (Single).	Splendid dark red blooms on long stems.	62540 10
variabilis, Giant Hybrids, Double Mixed.		62550 10

DAISY (*Bellis perennis*, etc.) (hP). May be sown in February or March in shallow boxes of light, rich soil, covering the seeds to about three times their own thickness, and pressing soil firmly over them. Keep in a warm window, hotbed or greenhouse. When well out of the seed leaf transplant to new boxes, and set out in the open ground when danger from frost is past. Or, sow in beds outside in August or September; protect with straw or litter over Winter, and transplant to their permanent position in the Spring. They make delightful borders to beds of taller-growing annuals and can be used very effectively in beds of Spring-blooming bulbs; 4 in. Pkt.

Double Red.		62590 10
" Rose (Longfellow).		62600 10
" White (Snowball).		62610 10
" Mixed.	Very fine.	62620 10
" maxima alba.	Extra large. White.	62630 15
" maxima rosea.	Extra large.	62640 15
" maxima, Mixed.	Extra large.	62650 15
" monstrosa alba.	Snowy white flowers.	62652 25
" monstrosa rosea.	Deep rose.	62654 25

Shasta Daisy. See *Chrysanthemum Leucanthemum.*

DAISY (Paris Daisy). See *Chrysanthemum frutescens.*

DAISY, Swan River. See *Brachycome.*

DATURA. Showy, half-hardy annuals of rapid growth, with large, trumpet-shaped, fragrant flowers; 3 ft.

cornucopia (Horn of Plenty).	Violet; Pkt.	
	immense flowers.	62740 5
fastuosa, Double White.		62750 5
" Double Purple.		62760 5
meteloides (Wrightii).	White and lilac.	62790 5

DELPHINIUM (Larkspur). In variety

and beauty of its blue tints which are as numerous as they are charming, no other plant can equal the Delphinium. The brilliant flowers are strongly effective in beds or masses, in borders, shrubberies, or in combination with white lilies. Improvements are continually being made in the size of the flowers, as well as in the length and fulness of the spikes. Some of the species flower both early and late; the season for all can be prolonged by cutting away withered flower-stems. All varieties are easily cultivated and adaptable to many conditions, but in a soil deeply dug and well enriched with fine old manure, their blooms are the finest. Setting them 1½ to 2 ft. each way is not too much for the taller sorts.

ANNUAL VARIETIES. These include the Rocket or Hyacinth-flowered, so called from their long, narrow flower spikes. They bloom best in a rather cool, moist soil. Sow seed in the open border, either in Spring or Fall, preferably the latter, so that germination may take place very early in the Spring. As the seedlings grow, thin them to stand 6 to 18 in. apart, according to variety. The varieties are seldom kept separate, as they are quite as pretty and convenient for cutting when sown in mixture. Some of these are really hardy biennials, but, because they bloom the first season, we treat them as hardy annuals. The shades of color cover a very wide range.

- Ajaxis, Dwarf Rocket.** Finest colors; Pkt. very beautiful for bedding; 1 ft. oz. 30c... **62810** 5
- “ **Tall Rocket.** Rose-pink; 2 ft. **62820** 5
- “ “ White; 2 ft.. **62830** 5
- “ “ Long, showy spikes; mixed colors; 2 ft. **62840** 5
- “ **Ranunculus-flowered.** Double; colors fine; 2 ft. **62850** 5
- “ **Tall Branching.** Flesh-color; 2 ft. **62860** 5
- “ “ “ White, beautiful for cutting... **62862** 10
- “ “ “ Tall Rose. Rose color. **62864** 10
- “ “ “ Choice mixed; 2 ft. ¼ oz. 20c., oz. 50c. **62870** 5
- cardipetalum.** Beautiful blue flowers; 1 ft. **62880** 5
- Emperor Branching Rose.** This and the next are splendidly bright and showy, often giving ten to twenty erect spikes of flowers; 2 ft. **62890** 10
- “ **Branching, White.** Beautiful for cutting. **62900** 10
- “ **Branching, Mixed.** ¼ oz. 20c., oz. 60c. **62910** 10

Newport Rose. A rose-colored and very beautiful, free-flowering sort. If sown outdoors in Spring, it will bloom by the first of August; 2 ft. **62920** 10

DELPHINIUM—Continued

PERENNIAL VARIETIES. These are usually taller than the annuals, requiring more space between the plants. If sown in the Fall or very early Spring, nearly all will bloom the first season. Foliage clean and pretty; habit strong and neat; flower-spikes long and dazzling.

- Barlowi.** Large, dark blue flowers; extra fine; 3 ft. Pkt. **62930** 25
- Belladonna.** Lovely pale blue; handsome plant; comes very true from seed; 4 ft. **62940** 15
- Brunonianum.** Lovely blue, musk-scented flowers, very distinct; 6 to 18 in. **62950** 25
- cardinale.** Orange-scarlet; a California native; 2 ft. **62960** 25
- cashmerianum.** Spreading, many branched; flowers often 2 in. wide; deep purplish blue; 2 ft. **62970** 25
- chinense, Mixed** (C. grandiflorum). Large flowers, ranging from pure white to indigo-blue. Young seedlings will bloom from Midsummer until frost; 2 ft. **62980** 10



Delphinium (Larkspur), Tall Rocket

DELPHINIUM, Perennial Varieties—Continued.

elatum, Blue (Bee Larkspur). Soft, clear blue; tall spikes; 3 ft. Pkt. 10	63000	10
“ hybridum, Finest Mixed . Very showy. Pkt. 10	63010	10
“ hybridum, Finest Double Mixed . Pkt. 25	63020	25
formosum . Brilliant blue, white center; especially fine; 3 ft. Pkt. 25	63030	25
“ celestinum . Sky-blue; handsome; true. Pkt. 25	63040	25
New Large Hybrids, Mixed . All shades of blue from best named single-flowering varieties; 3 ft. Pkt. 25	63060	25
nudicaule . The only pure bright scarlet. Dwarf and compact in growth, with flower-stems of fine length; 1 ft. A native of California. Pkt. 30	63070	30
Zalil (sulphureum) (hP) . Long spikes of yellow flowers; 2 ft. Pkt. 30	63090	30
DENDROMECON rigidum (California Yellow Tree Poppy). An easily grown greenhouse shrub with yellow flowers; 2 ft. Pkt. 25	63250	25
DIANTHUS . See <i>Pinks, Carnations and Picotees</i> .		



Dimorphotheca aurantiaca hybrida

DICTAMNUS (Gas Plant). Ornamental hardy perennials; can remain for years undisturbed; the leaves when rubbed, have a lemon odor; 3 ft. Pkt.

Fraxinella. Red..... 63290 10
 “ **albus. White**..... 63300 10

DIDISCUS. See *Trachymene*.

DIGITALIS. See *Foxglove*.

DIMORPHOTHECA (African Orange Daisy).

Easily grown, hardy annual of great beauty; 12 to 15 in. in height, and bushy. Pkt.

aurantiaca. Orange; very fine..... 63340 10
 “ **hybrida**. New fine varieties, mixed..... 63350 10

† **DOLICHOS** Very rapid-growing, hardy annual climber, bearing Pea-shaped blossoms and ornamental seed pods. Fine for covering screens, etc.; 10 ft.

Lablab (Hyacinth Bean). Purple. Pkt.

oz. 25c... 63390 5

“ **albus**. White... oz. 25c... 63400 5

“ **Mixed**..... oz. 25c... 63410 5

giganteus. White..... 63420 10

Japonicus (Daylight). White, very fine. Pkt. 10

Purple Soudan. Purple flowers in racemes; good foliage..... 63440 5

* **DRACÆNA**. Ornamental greenhouse plants; fine for pots, vases, or beds. Pkt.

* **Draco**. Very fine variety; 3 ft. 63490 25

* **indivisa**. Narrow green leaves; 4 ft. 63500 10

DRACOCEPHALUM moldavicum (Balm).

An easily grown hardy annual; blue flowers; fine for bees; 2 ft. 63520 5

ECHEVERIA. Interesting greenhouse succulent plants extensively used for “carpet” bedding; bluish green leaves; 3 to 6 in. Pkt.

agavoides. Yellow..... 63570 25

metallica. Yellow..... 63590 25

secunda. Scarlet and yellow..... 63610 25

† **ECHINOCYSTIS lobata** (Wild Cucumber). A

rapid-growing annual climber.... 63620 5

ECHINOPS Ritro. A hardy perennial of stiff growth; flowers blue; fine for bees; 2 ft. 63630 10

ELSHOLTZIA cristata. Hardy annual; flowers lilac; a good plant for bees; 1½ ft. Pkt. 5

63650

EMMENANTHE penduliflora (California Golden Bells). A bushy-growing, hardy annual, with long-lasting yellow flowers; 1 ft. 63670 25

EPACRIS hybrida superba. Elegant greenhouse plants, free-blooming; style of heath. Mixed varieties; 2 to 3 ft. 63690 50

ERINUS alpinus (hP). Pretty alpine rock-plant; flowers blue; fine for baskets; 3 in. Pkt. 25

63770

ERODIUM moschatum. Pretty; little, hardy annual; good for borders; purple flowers; 3 in. 63790 5

ERYNGIUM. Extremely ornamental, hardy perennials, well adapted for the garden border.
giganteum (Silver Thistle). Blue; 4 ft. Pkt. 10

63820

ERYSIMUM. Free-flowering, hardy annuals of neat habit and bright colors; style of wall-flowers; 1 to 1½ ft. Pkt.
arkansanum. Yellow.....63840 5
Perofskianum. Orange.....63850 5

ESCHSCHOLTZIA Commonly called California Poppy. The state flower of California. This much esteemed hardy annual is very bright and rich in its pure tints of yellow, orange, etc. The plants average about a foot in height, with silvery foliage, and produce their large, Poppy-like flowers from early Spring until frost. They are most effective when grown in beds of considerable size, over which the seed may be sown broadcast thinly, and lightly raked in. These sowings may be made early in Spring or late in Autumn for earlier germination, blooming the next Spring. Useful as a pot-plant and for cut-flowers.

THORBURNI. Coppery orange; the effect of a plant in bloom is simply gorgeous; the flowers are larger than those of other Eschscholtzias, and are borne with equal profusion; finest of all. (See cut.) Pkt.

63900 10
californica. Rich yellow. oz. 30c...63910 5
 " **alba.** Creamy white...63920 5
 " **alba fl. pl.** Fine sort, with double, creamy white flowers.....63930 10
 " **Burbank's Crimson-flowering.** Crimson.....63940 10
 " **Carmine King.** Carmine-rose; beautiful.....63950 10
 " **Rose-Cardinal.** Carmine-rose.....63960 10
aurantiaca fl. pl. Double flowers; bright orange.....63970 5
crocea. Pure, deep orange.....63990 5
 " **Double Orange**.....64000 5
Douglasii. Very pretty yellow variety from California.....64010 5
Mandarin. Red-gold flowers, orange within and scarlet without.....64020 5
maritima. Canary-yellow, with orange center; leaves grayish; very effective.....64030 5
 " **Golden West.** A superb variety with very large flowers of deep yellow; blooms all Summer; 2 ft.....64040 5
tenuifolia. Bright yellow; leaves dense and finely cut.....64050 10
Mixed. Many sorts.
 ¼ oz. 20c., oz. 50c...64060 5

EUPHORBIA grandiflorum. Graceful and showy; little hardy annuals, nearly allied to Clarkia; fine for edgings and pots; rosy red flowers; 1 ft.....64080 5

†**EUPATORIUM Fraseri.** Splendid hardy perennials; clusters of white flowers, fine for cutting; 1½ ft.....64100 5

***EUPHORBIA** Very ornamental-leaved, strong-growing hardy annuals; fine for beds and borders; 2 to 3 ft.

variegata (Snow-on-the-Mountain). Green and-white foliage.....64110 5 Pkt.

heterophylla (Mexican Fire Plant). Glossy green-and-carmine leaves.....64120 10

EUTOCA VISCIDA. Dark blue.....64160 5

FENZLIA. Pretty, hardy annuals for edgings, ribbon-gardening or pots; about 3in. Pkt.
dianthiflora. Rosy lilac.....64190 25
 " **alba.** White.....64200 25

FERNS (gP). Assorted varieties for the greenhouse. Sow in fine, sifted, sandy, peaty loam, covering the pots with pieces of glass.....64220 25

FEVERFEW. See *Matricaria*.

FLAX. See *Linum*.

FORGET-ME-NOT (*Myosotis*). These dainty little flowers love cool, moist soils, and, like Pansies, bloom most freely in Fall and early Spring. They make beautiful close borders, or edgings, and will bloom nicely in Winter in a cool room or coldframe. They establish themselves by self-seeding. Sow in Spring in a warm, sunny border. Most varieties bloom freely the first season and profusely the second. Average height, 6 to 8 in.

alpestris (hB). A pretty trailer, with blue flowers.....64260 10 Pkt.

" **alba.** White flowers, very dainty in effect.....64270 10

" **Indigo-Blue.** Very fine..64300 10

" **nana cærulea.** Very dwarf; compact; sky-blue; fine for edging.....64310 15

" **robusta grandiflora** (*Eliza Fonerbert*). Grown extensively for cutting. Large, sky-blue florets with yellow eye, in large clusters.....64320 15

" **rosea.** Rosy flowers; pretty contrast with blues and whites. 64330 10



Eschscholtzia Thorburni

FORGET-ME-NOT—Continued

- alpestris Victoria.** Strong-growing; dwarf Pkt. habit; flowers large, globular, sky-blue, abundant; fine for borders, growing in pots and for cutting64340 15
- “ **Mixed**.....64350 10
- azorica (hA).** Dark blue, with white eye; 1 ft.....64360 25
- “ **coelestina (hA).** Beautiful light blue; 1 ft.....64370 25
- dissitiflora (hP).** Blooms very early; flowers blue.....64380 15
- hybridus, Star of Love (hB).** A distinct dwarf variety, with large, beautiful blue flowers and handsome foliage.....64390 25

FORGET-ME-NOT—Continued

- alpestris Ruth Fischer (hB).** Pure Forget-me-not blue. Fine for cutting and for hanging-baskets. Can be forced successfully and, owing to its extreme hardiness, it is valuable for Spring bedding in open ground. 64400 25
- palustris (hP).** (True Forget-me-not). Dark blue; blooms the second year abundantly all season; the best known of all.64410 10
- “ **semperflorens (hP).** Bright blue; dwarf; blooming from Spring until Autumn; foliage a good shade of green.....64420 25
- sylvatica (hB).** Blue, with yellow eye; likes dry soil; 1 to 2 ft.....64430 10

FOUR O’CLOCK (Mirabilis). Favorite half-hardy annual of the easiest culture and very suitable for large beds and borders. Called Four O’Clock because it opens its blossoms at that hour in the afternoon. Also known as Marvel of Peru. Handsome, free-flowering, sweet-scented; blossoms variegated, striped and of various colors.

- Hybrids, Mixed.** Fine assortment; 2 ft. Pkt. oz. 25c. .64460 5
- longiflora alba.** White; 2 ft.....64480 5
- Variegated-leaved.** Many colors; 2 ft. 64490 5
- Tom Thumb, White.** Bushy habit; 1 ft. 64500 5
- “ “ **Mixed.** Very fine; 1 ft. 64510 5

FOXGLOVE (Digitalis). The tall flower spikes of the Foxglove, often 2 to 3 ft. in height, are particularly handsome, when grown among shrubbery, or in bold masses, as a background for lower growing plants; they are very attractive. Sow the seed out of doors in Spring and transplant the seedlings into their permanent places. They will bloom magnificently the following Spring; give them a deep soil and in partial shade.

- purpurea, Rose.** Very showy; long spikes. Pkt. 64590 10
- “ **White.** Fine and attractive. 64600 5
- “ **Mixed**.....64610 5
- gloxinioides, Purple**.....64620 10
- “ **Rose.** Bright, showy flowers borne profusely on fine spikes.....64630 10
- “ **White.** Very handsome, Gloxinia-like flowers; robust; beautiful for cutting. 64640 10
- “ **Mixed.** All the choice colors. 64650 10
- grandiflora lutea, Yellow.** Large-flowered; long racemes of bell-shaped blossoms; dwarf.....64660 10
- monstrosa, Splendid Mixed.** Very large, bell-shaped flowers of exquisite beauty, borne on long spikes; 4 ft.....64680 10

FRESIA. Esteemed greenhouse bulbous plants, with very sweet-scented flowers; 2 ft. Pkt. **refracta alba.** White.....64740 5



Foxgloves

FUCHSIA (Ladies' Eardrops). The well-known Spring-blooming greenhouse plants; also fine for the window-garden. As bedding plants they do splendidly in the Summer if given partial shade and rich soil.

- procumbens.** Blue; trailing variety for Pkt. vases and hanging-baskets. 64770 25
- triphylla.** Scarlet; dark leaves. 64780 50
- hybrida, Finest Single, Mixed.** 64790 50
- " **Finest Double, Mixed.** 64800 50
- " **Finest Single and Double, Mixed.** 64810 50

GAILLARDIA (Blanket Flower). Both the annual and perennial varieties of Gaillardia are very showy and free bloomers all Summer long until frost; good in any situation and easily grown; the individual flowers are of large size, very durable and most brilliant in color; fine for bouquets; 2 to 3 ft.

- amblyodon** (hA). Fine red. 64870 5
- grandiflora maxima** (hP). Golden yellow; 2½ ft. 64890 10
- " **oculata** (hP). New light shades with red centers; very fine, large-flowering hybrids. 64900 10
- " **Extra-fine Mixed** (hP). 64910 10
- " **semi-plena Mixed** (hP). Superb; very large-flowering, semi-double varieties. 64920 15
- " **Kermesina splendens.** Center of rich crimson bordered canary yellow. 64922 10

All the following *Picta* sorts are most elegant annuals and well deserve very generous plantings.

- picta** (hA). Red-and-yellow; very brilliant. Pkt. 64930 5
- " **Lorenziana.** Double; mixed colors; flowers large. 64940 5
- " **Mixed.** Finest colors. 64960 5

GALEGA. Ornamental, tall-growing, hardy perennials, well suited for borders or cutting; blooms all Summer; 3 to 4 ft.

- officinalis.** Blue. 65000 5
- " **alba.** White. 65010 10

GAMOLEPIS *Tagetes*. Half-hardy annual of easiest culture; continuous bloomer; fine for beds; flowers yellow; 1 ft. 65030 10

GAZANIA *longiscapa*. Magnificent annual from South Africa, of easy culture, continuous bloomer, dark green foliage with long-stemmed flowers of golden yellow with brown markings. 65080 25

GENISTA *canariensis*. Ornamental and free-flowering tender perennial; yellow flowers; 2 ft. 65090 10

GENTIANA. Showy hardy perennials, valued for their beautiful, intense blue flowers early in the season.

- cruciata.** Azure-blue; 1 ft. 65110 10

GERANIUM Most valuable greenhouse plants, blooming continuously. For bedding in the outdoor garden nothing equals them. 1½ ft.

- Zonale.** Scarlet. 65130 10
 - Apple-scented.** Pink; fragrant foliage. 65150 25
 - Choice Mixed.** 65152 25
- See, also, *Pelargonium*.

GERBERA (Transvaal Daisy). Very pretty half-hardy perennials, fine for garden border and also Winter forcing; grows about 2 ft. in height and blooms all through the season.

- Jamesonii.** Deep scarlet (25 seeds in a Pkt. packet) 65180 25
- " **hybrida, New Hybrids.** Great diversity of colors, from pure white to dark red; fine for cutting (25 seeds in a packet) 65190 30

GEUM Handsome hardy perennials that bloom freely all the season; fine for bouquets; 1½ ft. in height. Pkt.

- coccineum.** Scarlet. 65240 10
- atrosanguineum fl. pl.** Double; crimson. 65250 10
- Mrs. J. Bradshaw.** Large, brilliant scarlet. 65256 25

GILIA Pretty hardy annuals that bloom most freely and continuously the whole season. Do finely in any situation; look well on lawn and in beds; are good for rockeries, and can be planted at any time; 1 ft. Pkt.

- achilleifolia.** Blue. 65280 5
- " **alba.** White. 65290 5
- " **rosea.** Rose. 65300 5
- capitata.** Light blue. 65310 5
- " **alba.** White. 65320 5
- laciniata.** Dark blue; dwarf (6 inches). For borders. 65330 5
- liniflora.** White; dwarf (6 inches). For borders. 65340 5
- navalis.** White. 65350 5
- tricolor.** Violet, yellow and white. 65360 5
- Mixed.** 65380 5



Gaillardia grandiflora

†GLAUCIUM (Horned Poppy). Showy hardy perennial, with large, Poppy-like flowers and glaucous-blue foliage; of easiest culture; 2 ft. Pkt.

Burbank's Hybrids. A fine mixture. **65400** 10

GLOBE AMARANTH. See *Gomphrena*.

GODETIA Favorite, free-blooming, hardy annuals, with widely opened flowers of satiny texture, and of the most delicate and lovely colors. They are beautiful for solid beds, border lines, pots, and for growing in shaded places, where so few really fine flowers will flourish. Sow seed in the open border in Spring, or in a coldframe, and transplant seedlings to stand a foot apart in rather thin soil. *Fine for cut-flowers.* Average height 1 ft.

Bijou. Of dwarf, bushy habit; lovely bluish-white flowers borne in great profusion. Pkt. **65450** 5

Crimson Glow. Intense, dazzling crimson; fine, compact grower; very floriferous. **65460** 15

Duchess of Albany. Satiny white. **65470** 10

gloriosa (Lord Roberts). Darkest red; dwarf. **65490** 10

grandiflora maculata. Great, white flowers, blotched with carmine. **65500** 5

Lady Albermarle. Dark crimson. **65510** 10

" " **compacta** (General Gordon). Dark crimson; dwarf. **65520** 0

Lady Satin Rose (*G. Whitneyi compacta*, Brilliant). Bright carmine. **65530** 5

Lindleyana. White and red. **65540** 5

Princess of Wales. Brilliant carmine; fine cut-flower variety. **65550** 5

rubicunda splendens. Brilliant red; fine. **65570** 5

The Bride. White and crimson. **65580** 5

Whitneyi Brilliant. Carmine; very showy. **65610** 5

Mixed, Tall Varieties. oz. 40c. **65620** 5

" **Dwarf Varieties.** ¼ oz. 20c., oz. 50c. **65630** 5

GOLDEN FEATHER. See *Pyrethrum*.

GLOXINIA Greenhouse plants with magnificent flowers of great brilliancy; very decorative. If the seed is started early in the season the plants bloom the same Summer; do best in light, rich soil; fine pot plants for the window garden; 1 to 1½ ft.

hybrida grandiflora— Pkt.

Mixed. **65670** 50

crassifolia erecta, Mixed. **65680** 50

" **horizontalis, Mixed.** **65690** 50

Defiance. Glowing scarlet; superb; fine foliage. **65700** 50

French Tigered and Spotted. Very rich colors; splendid. **65710** 50

Gigantea cœrulea. Large, rich sky blue, shading to pale blue, white throat. **65715** 50

" " **Cyclops.** Carmine, white border, throat dotted with dark red. **65720** 50

" " **Goliath.** Purple, white border, delicately spotted throat. **65730** 50

GOMPHRENA (Globe Amaranth). These well-known, hardy annuals are among the most popular of the Everlastings for dried Winter bouquets; also well adapted for beds and edgings in the garden. Their round heads of flowers are also called Bachelor's Buttons; 1 ft. Pkt.

globosa rubra. Purplish red. **65750** 5

" **alba.** White. **65760** 5

" **carnea.** Flesh pink. **65770** 5

" **variegata.** Striped. **65780** 5

" **Mixed.** **65810** 5



Godetia grandiflora maculata

GOURDS (Ornamental) (hhA). These rapid-growing, annual climbers have most luxuriant foliage and are excellent for covering verandas or trellis-work, and for training over arbors, fences, etc.; bear most curious fruits; the vines are immune from insect pests; 10 to 25 ft. Pkt.

Apple-shaped. A good sort. **65860** 5

Bottle Gourd. **65870** 5

Calabash (The Pipe Gourd). **65880** 10

Dipper-shaped. **65890** 5

Dish-cloth (Chinese Luffa). Interior useful as a sponge. **65900** 5

Egg-shaped. White, egg-like fruits. **65910** 5

Hercules' Club. Long, green fruits. **65920** 5

Knob-Kerrie Gourd. Green-and-yellow fruits; ball-shaped, with long handles. **65930** 10

Mock Orange. Orange-shaped fruits. One of the best known. **65940** 5

Pear-shaped. Very showy. **65950** 5

Sugar Trough. **65960** 5

Mixed. A fine assortment. **65980** 5

GRAMMANTHES gentianoides. Hardy annual; scarlet flowers; for edgings, pots or baskets; 6 in. **66020** 10

GREVILLEA robusta (Silk Oak). Graceful, evergreen, greenhouse plant, easily raised from seed; fern-like foliage; fine for table decoration. **66040** 10

GUNNERA (Chilian Rhubarb). Hardy perennial decorative lawn plants; leaves gigantic, often 7 to 8 ft. long; flowers reddish purple. Need rich soil and plenty of water; 4 to 6 ft. Pkt.
manicata.....66060 25
scabra.....66070 25

GYPSOPHILA (Baby's Breath). Both the annual and perennial varieties are most easily grown; very graceful and delicate flowers and foliage; fine for rockwork or shrubbery and bouquets; 2 ft. Pkt.
elegans (hA). Pure white..oz. 30c...66090 5
 " **grandiflora alba** (hA). Large flowering, white..oz. 30c...66100 10
 " **carminea** (hA). Rosy carmine; elegant.....66110 10
 " **rosea** (hA). Rose.....66120 5
muralis (hA). Pink; dwarf; very fine; 6 in.....66130 10
paniculata (hP). White; fine for bouquets. 66150 10

HAWKWEED (Crepis). Showy, hardy annuals of easiest culture; 1 to 1½ ft. Pkt.
Golden Yellow.....66200 5
Red.....66210 5
White.....66220 5

†**HEDYSARUM**. Hardy biennials, with racemes of beautiful, Pea-shaped flowers; adapted for borders and rockwork. Of the easiest culture. So-called "French Honeysuckle," but no relation to that vine. Not a climber; 3 ft. Pkt.
coronarium. Scarlet.....66240 5
 " **album**. White.....66250 5

HELENIUM autumnale superbum (Sneeze-wort). Late-flowering, hardy perennials; broad heads of elegant, golden yellow flowers; fine for cutting; 5 to 6 ft. . .66270 10

HELICHRYSUM (Eternal Flowers). A most popular, hardy annual; the flowers are large and the color bright; highly prized for Winter bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with heads downward in cool and airy place; 1 to 2 ft.

bracteatum. Single flowering; yellow. Pkt. 66290 5
 " **album**. White.....66300 5
 " **nanum atrococcineum**. Dark scarlet.....66310 5
 " **Rose**.....66322 5
 " **Mixed**, oz. 40c.....66330 5
monstrosum, Double Mixed.....66340 10
 " **Dwarf Double Mixed**. 66350 10

HELIOPSIS Pitcheriana. This well-known, hardy perennial is esteemed highly for the garden border and for cutting; bears beautiful, golden yellow flowers all Summer; 3 ft.66400 10

HELIOTROPIUM (Heliotrope). These favorite greenhouse and bedding plants are highly valued for their scented flowers; succeed best in light but rich soil; bloom first season from seed; 1½ ft. Pkt.

Mad. de Blonay. White.....66420 10
peruvianum. Light blue.....66430 10
White Lady. White; large flower...66450 10
Lemoine's Giant, Mixed. Very fine, large flowers.....66460 15
Dark-flowered Sorts, Mixed.....66470 10
Fine Mixed.....66480 10

HELIPTERUM. Half-hardy annuals, with dense masses of flowers; resemble Helichrysums, and useful in the same way as "Everlasting" flowers; 1 ft. Pkt.

corymbiflorum. White.....66530 5
Sanfordii. Yellow.....66540 5

HELLEBORUS (Christmas Rose). These well-known, Spring-flowering, hardy perennials thrive finely in any common soil, in a sheltered, semi-shady situation; 1 ft. Pkt.

Mixed Hybrids. Very fine.....66570 25

HESPERIS. See *Rocket*.

HEUCHERA. Compact-growing, hardy perennials, with erect spikes of brilliant flowers; fine for the border, blooming all Summer; nothing more desirable for cut-flowers; 1 ft.

sanguinea. Crimson; fine for pots and Pkt. cutting.....66600 15
 " **splendens**. Dark red; splendid.....66610 25
 " **hybrida, Mixed**. Many effective varieties.....66620 15

HIBISCUS (Mallow). All the species bear very showy flowers and are easily grown; should be employed largely in every garden.

africanus (hA). Free flowering, fine annual; flowers yellow and purple; 2 ft..66640 5
Crimson Eye (†hP). White and crimson; splendid in borders; 4 ft.....66650 10
syriacus, Double (hS). Pink and white. This is the Rose of Sharon; 6 ft. . . .66660 5



Gypsophila paniculata

HOLLYHOCKS (*Althæa rosea*). Al-

though Hollyhocks are very permanent and hardy for the first Winter, it is advisable to sow seed every year of these splendid, hardy perennials, as the flowers on young, vigorous plants are much finer than on old ones. Sowings should be made in April or May, and not later than June, to flower the next year. In final transplanting give each seedling a foot or more space each way for development. They succeed best in an ordinary deep, rich soil. They make a glorious show in the garden with their splendid spires of flowers. Water well in dry



Double Hollyhocks

weather. Average height 6 ft. Our seed is of magnificent, double varieties, grown from Chater's celebrated collection, which has revolutionized the popular estimation of the Hollyhock. Pkt.

- Bright Rose..... ¼ oz. 60c... 66720 10
- Chamois Rose..... ¼ oz. 60c... 66750 10
- Salmon..... ¼ oz. 60c... 66790 10
- Snow White..... ¼ oz. 60c... 66800 10
- Yellow..... ¼ oz. 60c... 66810 10
- Mixed Double..... ¼ oz. 50c... 66820 10
- “ Allegheny, Fringed. ¼ oz. 75c... 66830 15
- “ Single..... ¼ oz. 50c... 66840 5

†HONESTY (*Lunaria biennis*). Hardy biennial, with silvery seed

vessels; prized for Winter decorations; 2 ft. Pkt.

- Purple..... 66920 10
- Crimson..... 66925 10

HORNED POPPY. See *Glaucium*.

†HUMULUS (Climbing Hop). The well-known, fast-growing, hardy

annual climber; 15 to 20 ft.

- japonicus** (Japanese Hop). Beautifully cut green foliage; makes fine shade..... oz. 40c... 66960 5 Pkt.
- “ **variegatus**. With white-variegated leaves; fine. ¼ oz. 20c., oz. 50c... 66970 10

HUNNEMANNIA *fumariæfolia*.

Very showy, hardy annual, with large, golden yellow flowers and feathery, glaucous foliage; 1½ ft..... 66980 10

HYACINTHUS candicans. Favorite, hardy, bulbous plant; white, bell-shaped flowers; 4 ft..... 66990 5 Pkt.

HYPERICUM elegans (St. John's Wort). An elegant, hardy perennial; blooms all Summer; yellow flowers; 1½ ft... 67010 10

IBERIS. See *Candytuft*.

ICE PLANT (*Mesembryanthemum crystallinum*).

Half-hardy annual; its succulent leaves are covered with watery vesicles resembling pieces of ice; white flowers; 6 in... 67040 5 Pkt.
See, also, *Mesembryanthemum*.

IMPATIENS (Touch-Me-Not). Charming greenhouse and window-garden plants that bloom profusely and almost continuously. Good also for bedding; 1 to 1½ ft.

- Holstii nana Liegnitzia.** New, scarlet, very dwarf..... 67065 25 Pkt.
- “ **hybrida, Mixed.** Finest colors. 67070 25
- Sultani.** Bright, rosy carmine; fine for pots..... 67080 25
- glanduligera** (tA). Purple flowers; bright foliage..... 67110 10

***INCARVILLEA.** Ornamental, hardy perennials, with brilliant, Gloxinia-like flowers; continuous bloomers; succeed well in any situation, and make a fine show in the garden; 2 to 3 ft.

- Delavayi.** Rosy carmine; splendid border plant..... 67130 25 Pkt.
- grandiflora.** Large, dark carmine flowers..... 67140 25

INULA glandulosa grandiflora. Splendid, Pkt.
hardy perennial, with large, orange-yellow
flowers borne on erect stems; in bloom all
Summer; 2 ft. **67170** 25

†IONOPSIDIUM (Diamond Flower) (hhP).
acaule White. Pretty..... **67180** 25
" **Lilac**..... **67185** 25

†IPOMOEAE (**Moonflower; Morning Glory;**
Cypress Vine). Of all climbers
for garden and greenhouse these are the quick-
est and most luxuriant in growth. Ipomoeas
grow so easily from annual sowings that it is
no longer thought necessary to Winter over
roots or young cutting plants under glass.
The large, thorny seeds of some varieties
should be soaked in hot water before planting.
For early flowers sow in hotbeds, or pots and
boxes under glass, and transplant to rich, deep
soil in Summer quarters as soon as danger of
frost is over, when sowings may also be made
in the open ground. Nothing finer for porches,
trellises, etc.

*These are very hard-seeded, and in order to hasten germination,
a notch should be filed in the seed before planting.

ANNUAL VARIETIES. From early sowings
these begin to bloom about Midsummer, and
are full of beautiful flowers all the season,
often blooming freely until cut down by frost.

***bona nox** (Good Night, or Evening Pkt.
Glory). Large, blue flowers open in the
evening; 15 ft. **67200** 5
coccinea. Scarlet flowers; 10 ft. . . **67210** 5
" **lutea.** A yellow-flowered va-
riety. **67220** 5
hederacea grandiflora superba. Rich
sky-blue flowers with white margins;
15 ft. **67230** 5

IMPERIAL JAPANESE MORNING GLORY.
The leaves are mostly plain green, but some
are oddly blotched with white or yellow.
Flowers vary from pure white to carmine,
through blues and purples of every shade;
30 to 40 ft.

Finest Single Mixed. Large flowered; Pkt.
all colors **67260** 5
Fringed Single Mixed. All beauti-
fully fringed. **67270** 5
Double-flowered Mixed. Superb mix-
ture of double sorts. **67280** 15
Giant Mikado. Largest flowered. **67290** 10
limbata. Violet and white; 5 ft. . . . **67320** 5
***mexicana grandiflora alba.** The great
white Moonflower; 15 ft. . . . **67330** 10
" **grandiflora hybrida alba.**
Flowers very large and numer-
ous; 15 ft. **67340** 10
" **grandiflora hybrida.** Pink.
(Giant Pink Moonflower) **67345** 10

rubro-cærulea, Heavenly Blue. The very
large, clustered flowers of beautiful sky
blue open early in the morning. Unusu-
ally distinct and handsome; 10 ft. Sow
early. **67370** 10
rubro-cærulea alba. White; 8 ft. . . . **67380** 10

rubro-cærulea grandiflora. Early flower-
ing. Produces gorgeous sky-blue flowers
with rose-colored markings, from 4 to 5
inches across, in great abundance. Rapid
grower. If sown in boxes or hotbeds the
young plants may be set out in April or
May in a sunny situation, where they will



Incarvillea Delavayi

IPOMOEAE—Continued

flower from about Midsummer until frost. Pkt.
Flowers remain open all day; 15 to 18 ft.
..... **67390** 15

Quamoclit (Cypress Vine; Star Flower).
A tender annual, with finely cut leaves and
small, star-shaped flowers. This, the type,
is scarlet flowered; 10 ft. **67430** 5

**QUAMOCLIT HYBRIDA—CARDINAL
CLIMBER.** One of the
best annual climbers in-
troduced for many years.
Rapid grower, with branch-
ing habit; flowers all Sum-
mer in fiery cardinal-red
clusters; 25 ft. **67440** 25
" **White**..... **67460** 5
" **Mixed Cypress Vine**. . . **67470** 5

Greenhouse Climbers. These handsome vines
grow nicely in open ground, but bloom almost
too late to be very useful there, in all except
warm climates. Grown in pots, tubs or green-
house beds they flower grandly between Oc-
tober and Spring.

setosa (Brazilian Morning Glory). This Pkt.
vine makes an immense, thick growth
of great, lobed leaves lighted by a pro-
fusion of large, rosy flowers, with a
satiny pink star in the centers. The
red pubescent stems and seed-pods add
very much to its attractiveness; 10 to
20 ft. **67530** 10

IPOMOPSIS. Showy and beautiful, tender
biennials; the seeds should be started in the
house; flowers very bright in color; 2 ft. Pkt.
elegans, Mixed..... **67590** 10

IRIS Kæmpferi. These most desirable,
hardy, herbaceous perennials begin to
bloom the second year from seed. Our
assortment is saved from a fine collection;
2 ft. **67620** 10

JACOB'S LADDER (*Polemonium*). Beautiful, old-fashioned, hardy perennial border plants; flowers in clusters; 2 ft. Pkt.

- Blue.....67650 5
- White.....67660 5

JACOBÆA (*Senecio*). Very free flowering, hardy annuals of easy culture; good for both pots and bedding; 1 to 1½ ft. Pkt.

- elegans fl. pl., Tall Double, White..67680 5
- “ “ “ Tall Double, Purple. 67690 5
- “ “ “ Tall Double, Mixed..67700 5

JOB'S TEARS. See *Coix Lacryma*, page 129.

JOSEPH'S COAT. See *Amarantus*

KAULFUSSIA. Hardy annual, succeeding well in any good soil; fine for edgings and pots; good habit and bright colors; 1 ft. Pkt.

- amelloides. Blue.....67770 10
- “ *Kermesina*. Violet red. 67790 10
- “ *Mixed*.....67800 10

KENILWORTH IVY. See *Linaria*.

KOCHIA *trichophylla* (Improved Summer Cypress). A rapid-growing, hardy annual; foliage green, turning to fiery red in Autumn; very ornamental on the lawn; 2 to 3 ft. in height.....oz. 30c...67860 5

†**KUDZU VINE** (*Pueraria Thunbergiana*). A perennial climber from Japan; fine when once established, often growing 40 ft. in a season. Purplish violet, fragrant, *Wistaria*-like flowers; good foliage....67880 10

†**LANTANA** *Fine Mixed Rapid-growing*, tender perennial, forming small bushy shrubs; fine for bedding and pot culture; 2 ft....67930 5

LARKSPUR. See *Delphinium*.

LATHYRUS *latifolius* (*Perennial Pea*) (hP). These have not the fragrance of Sweet Peas, but bloom through a long season; are hardy and will live for years; they make a beautiful screen for rocks, stumps, fences, etc.; 4 to 8 ft. Pkt.

- Crimson*. Beautiful shade. oz. 50c.68000 10
- Pink Beauty*. Blossoms white, veined, edged and shaded pink. oz. 50c...68010 10
- White*. Valuable for cut-flowers in Midsummer.....oz. 50c...68020 10
- Mixed*.....oz. 50c...68025 10

LAVATERA Very showy and free flowering; splendid for large beds in the garden, where they bloom all Summer; fine for cut-flowers.

- trimestris* (hA). Red; makes a brilliant show in the garden; 2½ ft. Pkt. 68080 5
- “ *alba* (hA). White.....68090 5
- “ *arborea* (*Tree Mallow*) (hB). Purple; 6 ft.....68100 5

LAYIA *elegans*. Pretty, dwarf-growing, hardy annual with yellow-and-white flowers; of easiest culture; 1 ft. 68140 10

LEMON VERBENA. See *Verbena*.

LEPTOSIPHON. Elegant, hardy annuals, and should be in every garden; fine for edgings or rockeries; blooms in masses; 1 ft. Pkt.

- androsaceus*. Lilac...68200 10
- “ *albus*. White 68210 10
- aureus*. Orange.....68220 10
- densiflorus*. Blue.....68240 10
- “ *albus*. White 68250 10
- Mixed*.....68270 5

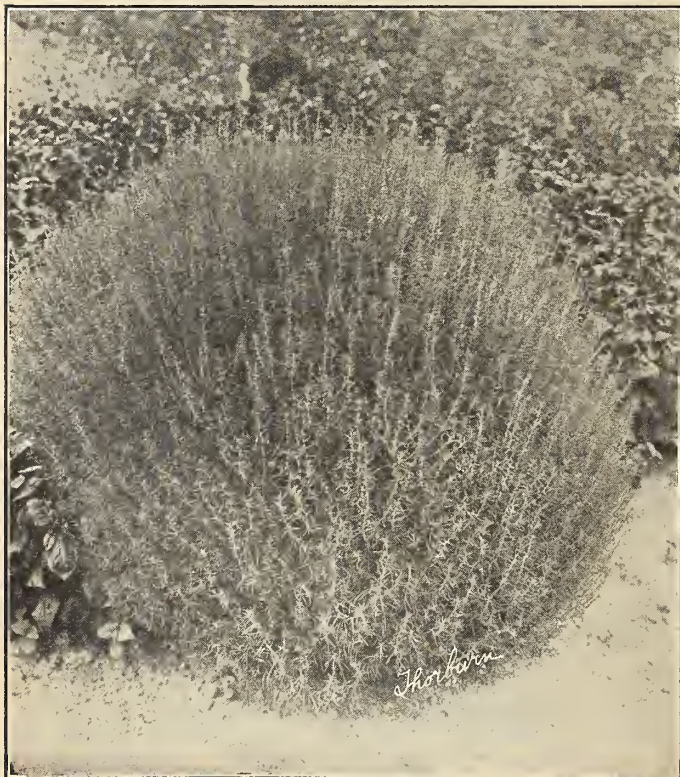
LEPTOSYNE. Fragrant, half-hardy annuals; large Marguerite-like flowers on long stems, good for cutting; 1 to 2 ft. Pkt.

- maritima*. Yellow....68290 10
- Stillmanii*. Golden yellow; blooms six weeks after sowing.....68300 10

LIMNANTHES *Douglasii*. A vigorous, dwarf-growing, hardy annual, with yellow and white, fragrant flowers; 1 ft.....68350 10

LINARIA (*Toad Flax*). Snapdragon-shaped flowers fine for cutting. The dwarf-growing varieties are desirable for edgings and rock-work; all of the easiest culture.

- bipartita alba* (hA). White; Pkt. 1 ft.....68380 5
- “ *elegans* (hA). Purple; 1 ft....68390 5
- “ *Fine Mixed*..68405 5



Kochia trichophylla

LINARIA—Continued

- | | | |
|--|--------------|--------|
| maroccana (hA). Purple; 9 in. | 68410 | Pkt. 5 |
| “ Mixed Hybrids (hA). Very fine; 9 in. | 68420 | 10 |
| cymbalaria (Kenilworth Ivy) (hP). Charming, hardy perennial, trailing plants for baskets, rockwork, etc. | 68430 | 10 |

LINUM (Flax). Pretty, free-flowering garden plants of easy cultivation.

- | | | |
|--|--------------|--------|
| flavum (fhhP). Yellow; fine; 1 ft. | 68470 | Pkt. 5 |
| grandiflorum rubrum (hA). The favorite Scarlet Flax. Large flowered; 1 ft. | 68480 | 5 |
| perenne . A graceful hardy perennial; color blue; 2 ft. | 68495 | 5 |

LOASA. Curious, prickly annuals, with singular flowers and stinging foliage; do well in common soil.

- | | | |
|---|--------------|---------|
| aurantiaca (lateritia) (hhA). A twining climber with brilliant, orange-red flowers; 6 ft. | 68530 | Pkt. 10 |
| tricolor (hA). Orange, red and green; 2 ft. | 68540 | 10 |

LOBELIA The Erinus varieties bloom very quickly from seed and flower all through the season. For beds, edgings, baskets and pots there is nothing prettier. Sow outdoors in early Spring where the plants are to grow, and thin moderately; or transplant several inches apart in rich, open soil. Some stimulant given when they are in bloom greatly improves the flowers. Almost all are also good Winter conservatory plants of trailing habit. The perennial or tall varieties are handsome, showy plants and will be found quite effective for backgrounds and grouping.

ERINUS VARIETIES (tA)—

- | | | |
|---|--------------|--------|
| gracilis . Blue; trailing; beautiful for baskets. | 68570 | Pkt. 5 |
| speciosa, Crystal Palace . A favorite blue-flowered edging plant; 6 in. | 68580 | 10 |
| alba . White flowers. | 68610 | 10 |
| kermesina . Crimson. | 68620 | 10 |
| Lindleyana . Rose, white eye. | 68630 | 10 |
| Paxtoniana . Blue and white. | 68640 | 10 |
| Barnard's Perpetual . Deep blue, with white eye; very fine. | 68650 | 10 |
| Royal Purple . Deep blue, with a distinct white eye. | 68660 | 10 |
| Mixed | 68670 | 10 |
| erecta, Crystal Palace compacta . Dark blue; for bedding; 6 in. | 68690 | 20 |
| “ Emperor William . Light blue; very fine. | 68700 | 20 |

PERENNIAL VARIETIES—

- | | | |
|---|--------------|----|
| cardinalis (Cardinal Flower). Standing bold and erect with its crimson-scarlet flowers, this handsome, native perennial Lobelia is invaluable for the border or grouping among evergreens; 2½ ft. | 68780 | 10 |
| “ fulgens (Queen Victoria). Intense vermilion scarlet, dark leaves; 2½ ft. | 68790 | 25 |
| ramosa . Blue; flowers profusely in Fall; 1½ ft. | 68810 | 10 |
| Tupa . Flowers crimson, strong grower, perennial suitable for border; height 8 to 10 feet. | 68815 | 15 |

‡**LOPHOSPERMUM scandens**. A splendid, tender annual climber, with trumpet-shaped, dark rose flowers; 10 ft.

LOVE-IN-A-MIST (Nigella). Pretty and ornamental,

hardy annuals, with feathery fennel-like foliage and curious flowers; of easiest culture.

- | | |
|---|-----------------|
| Also called “Devil-in-a-Bush”; 1 to 1½ ft. | Pkt. |
| Double Blue | 68890 5 |
| Double White | 68900 5 |
| Miss Jekyll . Beautiful; double; Cornflower blue. | 68910 10 |
| White Spanish | 68940 5 |
| Mixed Spanish | 68950 5 |
| Mixed, All Sorts. ....oz. 30c. | 68970 5 |

LUPINUS (Lupine).

ANNUAL VARIETIES. These garden favorites are among the most beautiful of our hardy annuals; extremely varied in color, of the easiest culture and bloom all Summer. Splendid for beds, borders, and backgrounds; 2 to 3 ft.

- | | |
|---|---------------------|
| Cruikshanksii . Blue, white and yellow. | Pkt. 69000 5 |
| Hartwegii . Blue. | 69010 5 |
| “ albus . White. | 69020 5 |
| “ roseus . Rose. | 69030 5 |
| hirsutus . Blue; large flower. | 69050 5 |
| “ albus . White. | 69060 5 |
| “ ruber . Red. | 69070 5 |



Lupinus Nanus—See page 104

- LUPINUS, Annual Varieties**—Continued Pkt.
- hybridus roseus.** Rose..... 69080 10
 - mutabilis.** White, yellow and violet;
sweet scented..... 69100 5
 - nanus.** Dwarf; blue; fine for growing in
front of tall sorts. See cut p. 103. 69110 5

PERENNIAL VARIETIES. The hardy perennial varieties of the Lupines are extremely handsome and stately, bearing beautiful flowers of rose, white, blue and yellow in color, borne on erect, graceful spikes that are more than a foot in length. They are certainly among the most striking of hardy perennials; grow very compactly about 3 to 5 ft. in height, and bloom continuously and profusely during the Summer. They are excellent for grouping or massing in separate colors, and they suit themselves to almost any position in the border, making a good cut-flower, and of easy culture, requiring ordinary moist soil, deep as possible, but well drained, with plenty of old stable manure, in any open, sunny position. Sow seeds in April in their permanent places, transplanting or thinning as may be required.

- polyphyllus.** Blue..... 69200 5
- “ **albus.** White..... 69210 5
- “ **Moerheimii.** Rose and
white of rather dwarf
habit; very beautiful..
69230 25
- “ **roseus.** Rose; magnificent.
69240 25
- “ **Mixed.**..... 69260 5
- tricolor elegans.** Orange, rose and white.
69280 5

- †**LYCHNIS.** Free-flowering, hardy perennials, with brilliantly colored flowers; excellent for massing in beds and borders. Pkt.
- chalcidonica.** Scarlet; 2 ft..... 69330 5
 - “ **alba.** White..... 69340 5
 - Haageana, hybrida** Mixed. Fine colors;
1 ft..... 69360 10



Malope Grandiflora

- MALOPE** Very pretty, free-blooming, hardy annuals with Mallow-like flowers. Sow the seed early; good for beds and borders; 2 to 3 ft. Pkt.
- grandiflora alba.** White..... 69440 5
 - “ **rosea.** Rose..... 69450 5
 - “ **rubra.** Red..... 69460 5
 - “ **Mixed.**..... 69470 5

MALVA. Handsome garden plants that bloom continuously all Summer and are very fine for cut-flowers.

- miniata (tA).** Scarlet; carried on long, Pkt.
strong stems; 3 to 4 ft. 69490 5
- moschata rosea (thP).** Rose-flowered variety; fine. 69510 10

MANDEVILLEA suaveolens (gP). This fine greenhouse climber has deliciously sweet and beautiful, snowy white flowers; 10 ft. 69530 10

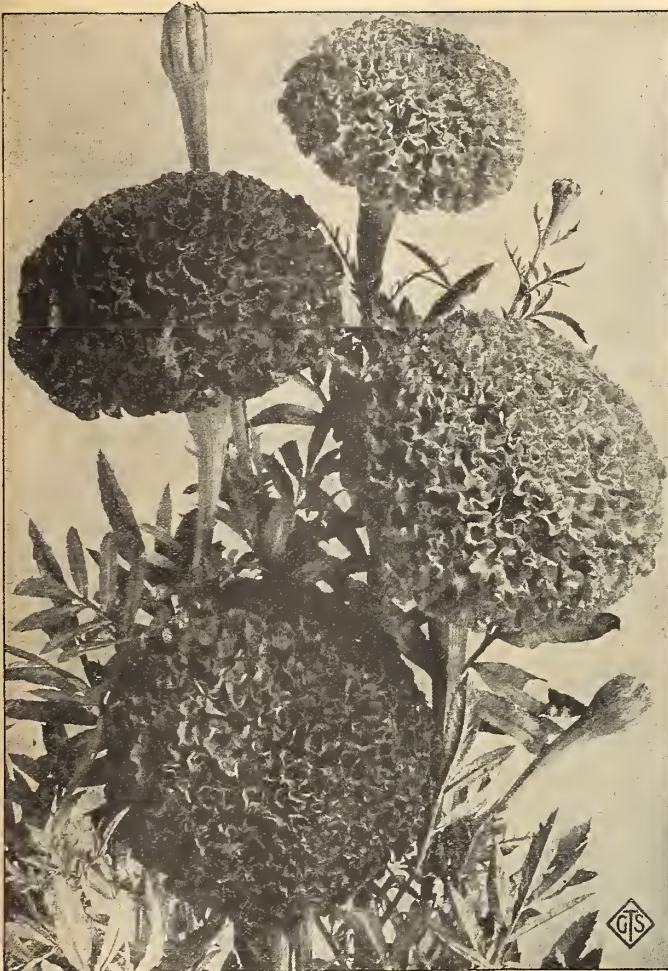
MARIGOLD (Tagetes). These, like the Calendulas, are valuable because they light the garden with such a grand glitter of yellow far into the frosts of Autumn. The dwarf varieties make a fine border for taller sorts, and both are effective when planted in groups or in garden borders. Hardy annuals. Average height, 1 to 2 ft. *All our own special strains, vastly different from the ordinary sorts commonly sold.*

AFRICAN VARIETIES—

- Delight of the Garden.** Dwarf; large-flowered; lemon yellow; double; fine for edging large beds. 69560 10
- Eldorado.** Large, quilled, perfectly double; brilliant shades of yellow.
¼ oz. 20c., oz. 60c. 69570 5
- Lemon Queen.** Very rich lemon yellow. 69580 5
- Orange.** Rich..... 69590 5



Lychnis, chalcidonica



Marigold, Pride of the Garden

- MARIGOLD, African Varieties—Continued**
- Pride of the Garden.** Extra-large, Pkt. double flowers of richest yellow; dwarf and neat. 69600 10
- Prince of Orange.** Beautiful orange color. 69610 5
- Mixed Double.** ¼ oz. 20c., oz. 60c. . . 69620 5
- FRENCH VARIETIES—**
- Tall Dark Brown.** Reddish brown; extremely floriferous. 69640 5
- Dwarf Striped.** Flowers handsomely marked. 69650 10
- “ **Dark Brown.** Beautiful reddish brown. 69660 10
- “ **Legion of Honor** (Little Brownie). Single; golden yellow, marked velvety red. . 69670 10
- Tall Mixed, Double.** ¼ oz. 20c., oz. 60c. . . 69680 5
- Dwarf Mixed, Double.** ¼ oz. 20c., oz. 50c. . . 69690 5
- Collections of Marigolds, Imported, Including—**
- 12 vars. Double French. 69710 45
- 6 vars. Double French. 69720 25
- 6 vars. Double African. 69730 30
- See, also, *Calendula*.

MARTYNIA. Curious and handsome, half-hardy annuals for the border, with bright flowers, borne in profusion, and followed by quaint pods which are used for pickling; 1½ ft.

- Pkt.
lutea. Yellow 69780 5
proboscidea. Reddish white 69790 5

MARVEL OF PERU. See *Four O'Clock*.

MATHIOLA bicornis. A

charming, little annual of no particular beauty, but it has a most delicious odor perceptible at a considerable distance and in the evening permeating the whole of the atmosphere surrounding it with its delightful fragrance.

- 69820 10

MATRICARIA. Free-flowering, hardy annuals, with a profusion of dainty flowers; bloom all Summer; good for bedding or pots; 1½ ft.

capensis fl. pl. (Feverfew).

- Small, double, white flowers; pretty and neat. Pkt.
 69830 5

eximia, Golden Ball. Golden yellow; fine for pots. . . 69840 15

- “ **fl. pl. Double;** white. 69850 5

††**MAURANDYA.** Rapid-growing, half-hardy perennial climbers that can be treated as annuals. Fine for garden or greenhouse; bloom all Summer in hanging baskets and vases or on trellises; 10 ft. Pkt.

- Barclayana.** Blue. 69880 10
 “ **alba.** White. 69890 10
Emeryana rosea. Rose. 69900 10
purpurea grandiflora. Purple. . . . 69910 10
Mixed. 69920 10

MELILOTUS cærulea. Ornamental, hardy annual like the Lotus; sweet-scented, blue flowers; good for bees; 2 ft. 69970 5

†**MELOTHRIA scabra.** An interesting, half-hardy annual tropical vine with light blue flowers; 10 ft. 69990 10

MESEMBRYANTHEMUM These beautiful, half-hardy annuals flower profusely in dry and sunny situations; fine as edging plants; 6 in.

- cordifolium variegatum.** Rose; cream Pkt. foliage; very dwarf; a fine variety for carpet bedding or for edging and for rock-work. 70020 15
- crystallinum** (Ice Plant). White flowers; succulent leaves covered with sparkling ice-like globules. 67040 5
- tricolor.** Crimson, pink and white; fine in dry situations. 70030 5
- “ **album.** White. 70040 5

MIGNONETTE (*Reseda odorata*).

Seed of this popular, hardy annual can be sown at any time, and if successive sowings are made its fragrant, modest-colored flowers may be gathered outdoors until November. Sow in pots or boxes under glass in February or March, and thin or pot off the seedlings to make good plants for bedding out in April. Sow outdoors in rows about April 1st, and again regularly at intervals of about three weeks till August, a row or two at a time for succession. The July sowing will make good Winter-flowering plants; 1 ft.

- Reseda odorata grandiflora** (Sweet Mignonette).....oz. 25c...**70060** 5 Pkt.
- Allen's Defiance.** Spikes of great length; very fragrant and fine for cutting; 1½ ft. ¼ oz. 20c., oz. 60c...**70070** 10
- Crimson Giant** (*ameliorata*). Red flowered.....**70080** 5
- Diamond.** Pure white flowers; fine; very sweet scented.....**70090** 10
- Giant Pyramidal.** 1½ ft.....**70110** 10
- Golden Queen.** Golden yellow....**70120** 10
- Goliath.** Red; enormous spikes; striking; very sweet scented.....**70130** 15

MIGNONETTE—Continued

- Machet, Dwarf.** Deep red.....**70140** 10 Pkt.
- “ “ **Bismarck.** Improved Machet. Large spikes of golden yellow flowers. **70150** 10
- “ “ **Golden**.....**70160** 10
- “ “ **Ruby** (Rubin). Very fine strain of the Machet, with coppery scarlet flowers.....**70170** 10
- “ “ **White Pearl.** The best white variety...**70180** 15
- Miles' Spiral.** 1 ft.....**70190** 5
- Paris Market** (Crimson Queen). Crimson. **70200** 10
- Parsons' White.** White and buff; 9 in. **70210** 10
- Victoria.** Compact; bright red; 6 in.. **70220** 10

MIMOSA pudica (Sensitive Plant). A curious and interesting, half-hardy annual, with pinkish flowers; leaves close when touched; 1½ ft..... **70280** 10

†**MIMULUS** (Monkey Flower). Showy, half-hardy perennials; do best in a moist situation in the garden; easily grown; 1 ft. Pkt.

- cardinalis.** Scarlet.....**70300** 10
- cupreus, Mixed**.....**70310** 10
- moschatus** (Musk Plant). Yellow; fragrant foliage.....**70320** 10
- “ **compactus.** Yellow; dwarf. **70330** 15
- Roezlii.** Golden yellow; dwarf....**70340** 25
- tigrinus.** Tigered and spotted varieties. **70350** 10
- “ **grandiflorus** (Queen's Prize). Large-flowered variety of above. **70360** 25

‡**MINA lobata.** A beautiful and free-flowering, half-hardy annual climber, with scarlet-and-yellow flowers; 15 ft. **70380** 10

MIRABILIS. See *Four O'Clock*.

‡**MOMORDICA.** Handsome and ornamental, climbing, half-hardy annuals with yellow flowers; fine for covering rockwork, trellises, etc.; 10 ft.

- Balsamina** (Balsam Apple). Apple-shaped fruit; glossy, green foliage. Often used for its medicinal qualities.....**70420** 5 Pkt.
- Charantia** (Balsam Pear). Pear-shaped fruit; heavy green foliage.....**70430** 5
- Elaterium** (Squirting Cucumber). The oblong fruits eject their seed at the slightest touch.....**70440** 5

MONARDA didyma (Oswego Tea). Very ornamental and beautiful, hardy perennial, with bright scarlet flowers; 3 to 4 ft. **70460** 25

MONK'S HOOD. See *Aconitum*.

MONKEY FLOWER. See *Mimulus*.

MOONFLOWER. See *Ipomœa mexicana*.

MORNING-GLORY. See *Convolvulus* and *Ipomœa*.

MOURNING BRIDE. See *Scabiosa*.

MUSK PLANT. See *Mimulus moschatus*.

MYOSOTIS. See *Forget-me-not*.



Mignonette Machet

NASTURTIIUM

We do not sell less than one ounce of any one kind by weight

A marvelous range of new colors has been developed in this favorite flower which, for three or four months of the season, makes a better display than almost any other plant. No other hardy annual will produce such a lavish profusion of flowers for so long a time with the same small outlay of time and labor. The maximum of bloom is produced on thin soils, and never flags through the hottest weather. In soils too rich, leaves predominate, and the plants are apt to rot off in wet weather, especially if standing too close.

For the celebrated Lobb's Climbing Varieties, see next page

We can supply most of the Dwarf Varieties Nasturtium at 30c. per oz.



Nasturtium (*Tropaeolum*)

DWARF or TOM THUMB (*Tropaeolum nanum*)

These have a neat, compact habit and attractive foliage; they bloom in two months from sowing, and most profusely the whole season; 1 ft.

Anna Groot. (Spencer.) Purple-scarlet flowers on long stems; dark foliage.	70570	Pkt. 15	Miss Mina Groot. (Spencer.) Deep scarlet flowers; light green foliage; pretty.	70710	Pkt. 15
atrococcineum. Brilliant scarlet; fine.	70580	10	Prince Henry. Light yellow, marbled scarlet.	70720	10
Aurora (Terra-cotta). Fine.	70590	10	Queen of Tom Thumb. (Original Queen.) Brilliant Crimson with white veined variegated-leaved foliage.oz. 30c.	70725	10
Beauty. Yellow and scarlet.	70600	10	Chameleon. Variegated leaves, developing bright yellow, later on changing into different shades, producing a magnificent display of colors.	70730	10
Bronze-color. Distinct.	70610	10	Golden Yellow. Variegated leaves.	70740	10
Chameleon. Mottled crimson, bronze and yellow; very fine.	70620	10	Orange-Scarlet. Variegated leaves.	70750	10
cæruleo-roseum. Bluish rose.	70630	10	Mixed. Splendid range of colors of variegated-leaved sorts.	70760	10
Crystal Palace Gem. Yellow and carmine.	70640	10	Riemke Groot. (Spencer.) Odd, wavy, dark green foliage; bright scarlet flowers.	70770	15
Empress of India. Deep crimson; fine dark foliage.	70650	10	Ruby King. Ruby-red; large flowers; dark-leaved; fine and very profuse.	70780	10
Golden Cloth. Golden yellow leaves; scarlet flowers.	70660	10	Vesuvius. Salmon-rose; extra large flowers in profusion; fine.	70790	10
King of Tom Thumbs. Scarlet; fine color.	70680	10			
King Theodore. Black, velvety; darkest of all.	70690	10			
Lady Bird. (Spencer.) Golden yellow, spotted red-brown; foliage light green.	70700	15			

DWARF NASTURTIUM—Continued

	Oz.	Pkt.
White, or Pearl (Moonlight)	70800	10
Yellow, Very fine	70810	10
Mixed, Golden Leaved Sorts	70820	10
" Spotted Varieties. Spotted, blotched and marbled sorts.....	70830	10
" All Sorts. Per oz. 20c., ¼ lb. 30c., ½ lb. 55c., lb. \$1.00.....	70840	10

TALL or CLIMBING (*Tropaeolum majus*)

Besides their ordinary garden use for trailing over fences, trellises, stone walls, etc., these can also be grown as pot plants for Winter flowering, as screens, or as trailers for hanging baskets and vases; 8 to 12 ft.

	Oz.	Pkt.
Chameleon. Various colors..	70910	20 5
Dark Crimson	70920	20 5
" " Golden-leaved.	70930	20 5
Edward Otto. Brownish lilac.	70940	20 5
Fashion. Light crimson-rose, veined old-rose.....	70950	20 5
Golden-leaved Scarlet	70960	20 5
hemisphaericum. Orange..	70970	20 5
Jupiter. Giant-flowered; beautiful golden yellow.....	70980	20 5
King Theodore. Black.....	70990	20 5
Moltke. Bluish rose.....	71000	20 5
Pearl (Moonlight). Whitish..	71010	20 5
Scarlet	71020	20 5
Scheuerianum, Spotted	71030	20 5
" coccineum. Scarlet striped..	71040	20 5
Schillingi. Yellow, maroon-blotched.	71050	20 5
Schulzi. Darkest-leaved scarlet.	71060	20 5
Sunlight (Dunnett's Orange). Rich golden yellow; flowers nearly 3 inches across.....	71070	20 5
Vesuvius. Large flowers; salmon; dark-leaved.....	71080	20 5
Yellow (Luteum)	71090	20 5
Variogated-leaved, Mixed. Beautifully variegated foliage; distinct and charming.....	71110	20 5
Fine Mixed.		
¼ lb. 20c., ½ lb. 35c., lb. 60c..	71120	10 5

LOBB'S CLIMBING (*Tropaeolum Lobbianum*)

This class is remarkable for the intensely brilliant colors of its flowers, which are a trifle smaller than those of other sorts. In moderately rich soil they climb high and bloom brilliantly. Average height, 6 ft.

	Oz.	Pkt.
Asa Gray. Yellowish white, handsome flowers.....	71160	20 5
atropurpureum. Dark purple; dark-leaved.....	71170	20 5
Chaixianum. Yellow, spotted red.	71180	20 5
Crown Prince of Prussia. Blood-red.....	71190	20 5
Crystal Palace. Scarlet; large flowers; fine foliage.....	71200	20 5
Firefly. Dark orange-yellow, spotted bright scarlet; dark-leaved..	71210	20 5
fulgens (Brilliant). Bright scarlet; dark-leaved.....	71220	20 5

LOBB'S CLIMBING NASTURTIUM—Continued

	Oz.	Pkt.
Geant des Batailles. Sulphur and red.....	71230	20 5
Golden Queen. Fine yellow; contrasts effectively with foliage.	71240	20 5
Ivy-leaved Scarlet. Dark leaves, like ivy; deep scarlet flowers.....	71250	40 10
Ivy-leaved, Mixed	71260	40 10
Lilliput, Baby Rose. White and soft pink. A splendid variety.	71270	35 10
Lilliput, Snow Queen. Cream-white, very delicate tint.....	71290	35 10
Lily Schmidt (Victoria). Scarlet.	71280	20 5
Lucifer. Dark scarlet; dark leaves.	71300	20 5
Spitfire. Brilliant scarlet. Very fine.....	71310	20 5
Queen Wilhelmina. Queen of the Lobb varieties. The foliage is veined and marbled white, setting off the rich rosy scarlet flowers to great advantage. One of the most effective of the list.....	71320	25 5
Madame Gunther Hybrids. A French strain noted for wide range of colors.....	71330	20 5
fimbriatum, Mixed. Fringed sorts, mixed. ¼ lb. 30c., ½ lb. 55c., lb. \$1.00.....	71340	20 5
Finest Mixture.		
¼ lb. 25c., ½ lb. 40c., lb. 75c.	71350	10 5
NÆGELIA hybrida (†gP). Ornamental greenhouse plants; beautifully marked foliage. Many varieties, mixed; 1 ft..	71440	30
NEMESIA. Very pretty and neat-flowering hardy annual for edgings; attractive, bright-colored flowers; 1 ft.		
compacta alba. White; attractive, fresh green foliage.....	71460	10
strumosa Suttonii grandiflora. Many rich and rare colors; flowers large; foliage beautiful.....	71480	25



Nemesia strumosa Suttonii grandiflora

NEMOPHILA Very pretty, dwarf-growing, hardy annuals of easy culture; continuous bloomers; cup-shaped flowers of brightest colors. Good in pots, edgings, rockeries or beds; moist soil and partial shade is favorable for them; 1 ft. Pkt.

- atomaria.** White and purple.....71500 5
- crambeoides.** Pale blue.....71510 5
- discoidalis.** Black-brown, white-margined.
71520 5
- insignis.** Sky-blue.....71530 5
- “ **alba.** White.....71540 5
- maculata.** Lilac-white, brown-spotted.
71560 5
- Mixed.**.....oz. 30c...71580 5

NICOTIANA Species of tobacco. Showy and free-blooming, half hardy annuals; great garden favorites; in flower all Summer; tubular-shaped flowers; 3 ft. Pkt.

- affinis.** White; very fragrant.71650 5
- “ **hybrida.** Beautiful shades, mixed.
71660 10
- Sanderæ Hybrids.** Many brilliant colors.
71680 10
- “ **Purple carmine.**.....71685 10
- sylvestris.** Large clusters of white flowers, sweet-scented; 4 ft.....71690 10

NIEREMBERGIA. Pretty half-hardy perennials of slender growth that bloom freely the first year from seed; cup-shaped flowers. Fine for edgings or hanging-baskets; 1 ft. Pkt.

- gracilis.** Lilac and white.....71710 10
- frutescens.** White, tinted with lilac.71720 10

NIGELLA. See *Love-in-a-Mist*.

NOLANA. When in flower these hardy annuals are very showy, and are fine for the garden border; of trailing habit; 1 ft. Pkt.

- Mixed.**.....71780 5

NYCTERINIA. Pretty half-hardy annuals, forming dwarf, compact plants; excellent for beds and borders; 9 in. Pkt.

- capensis.** White; fragrant in evening.71810 10
- selaginoides.** White, flushed lilac; graceful.
71820 10

GENOTHERA. See *Evening Primrose*.

ORCHIDS, Mixed Varieties. Hardy perennial sorts for open ground; 1 to 2 ft.71850 25

PÆONIA. Among hardy perennial plants none are more prized than the Peonies with their large and handsome blooms; 2 to 3 ft. Pkt.

- officinalis.** Red; single-flowered....71960 5
- chinensis, Mixed.** Fine double varieties.
71970 10

PALAFOXIA Hookeriana. Ornamental half-hardy annuals of easiest culture. Good “Everlasting” flowers, carmine-rose in color. They grow 2 ft. in height...72000 10



Primula Obconica grandiflora gigantea—See page 118



Pansy, Thorburn Superb

PANSY (*Viola tricolor*; Heartsease)

Our strains have never been excelled

The Pansy is a plant that we all delight to grow in plentiful supply for flowers all the year. For very early outdoor bedding the seed is sown from August to October, in a coldframe, or in rich, moist garden beds, from which the plants can be transferred to a coldframe, setting them 2 to 3 in. apart each way before severe Winter weather begins. In Spring three-fourths of them can be lifted out for bedding and the rest left to bloom in the frame. For Winter blooming in a frame set the plants about twice as far apart, and thin out half of them in the Spring. Cover the blooming plants with sashes, adding a covering of matting or straw in very cold weather. In mild weather remove the mats and tilt the sashes to admit light, heat and fresh air. In outdoor beds, raised a few inches above the ground, with a mulch of dry leaves and some brush to hold them in place, Pansies will often Winter nicely and bloom until Midsummer, when a relay of young, vigorous plants should be ready to replace them. Spring sowings should be made early so as to secure good flowers during the early rains. Seed sown in a cool, moist place in June and July, and well tended, will give good flowering plants for Fall. If they come into bloom in the heat of the Summer, the flowers may be small at first, but, as the weather becomes cooler they will increase in size and beauty, and make a glorious show in the garden. Through Summer heat the flowers are finer in a somewhat shaded place, but in almost any situation good Pansy seed will give fine flowers in Spring and Fall. Early Fall sowings give the finest flowers in Spring, and a bed of Pansies is one of the most beautiful sights a garden can show. *The higher-priced sorts produce the largest flowers and the most brilliant colors. This should be borne in mind when ordering.*

We do not sell less than ¼ ounce of a kind by weight

	¼ oz.	Oz.	Pkt.
Thorburn Superb. The richest and most choicely varied mixture possible. It produces only the finest colors, largest flowers and most beautiful forms. . . . .	.72030	\$1 75	\$6 00
Bugnot Superb Blotched. An exceedingly large, three-blotched strain, with upper petals finely lined; great diversity of finest colors. . . . .	.72040	1 25	4 00
Cassier, Finest Mixed. Flowers of grand size, beautifully spotted. . . . .	.72050	1 25	4 00
Masterpiece. Curled, wavy petals; splendid colors; distinct. . . . .	.72060	75	2 00
Masterpiece. From the originator. . . . .	.72070	1 75	6 00
Parisienne, Mixed. Handsome, large-flowering strain. . . . .	.72120	60	2 00
Fine Large English. All colors mixed. . . . .	.72130	45	1 50
Mixed. Ordinary strain. . . . .	.72140	20	75
Azure Blue. Very fine color. . . . .	.72160	35	1 25
Black (Faust; King of the Blacks). Almost coal black. . . . .	.72180	35	1 25

PANSY—Continued

	72190	72200	72210	72240	72250	72260	72270	72290	72300	72310	72320	72330	72340	72360	72370	72390	72420	72430	
Bronze. Golden bronze.....																			
Cardinal. Brilliant red; very fine.....																			
Coquette de Poissy. Distinct mauve, shading to white on the petals.....																			
Emperor William. Splendid; ultramarine blue; very showy.....																			
Fairy Queen. Light blue, with white border.....																			
Fawn Color (Prince Bismarck). Quaint and pretty.....																			
Fire King. Golden yellow, upper petals purple.....																			
Golden Queen. Pure yellow (Yellow Gem).....																			
Light Blue. Lovely sky blue.....																			
Lord Beaconsfield. Deep purple violet, shading to light blue.....																			
Meteor. Bright yellow and brown, attractively blotched and margined.....																			
Odier, Five-blotched, Improved. Extra choice strain.....																			
Orange. Very fine.....																			
President Carnot. Pure white petals, each with a deep blotch.....																			
Rainbow, or Pheasant's Eye (Quadricolor). Very fine strain.....																			
Snow Queen (Candidissima). Pure satiny white.....																			
Yellow, with Black Center. Splendid.....																			
Yellow, Maroon Eye. Large flowers of distinct coloring.....																			
TRIMARDEAU GIANT. This strain has remarkably large flowers, carried well above their leaves, and generally marked with large blotches; plants are extra vigorous and compact.																			
Giant Adonis. Light blue; splendid.....																			
“ auriculæflora. Beautiful shades.....																			
“ Azure Blue (Light Blue). Pure color.....																			
“ Bridesmaid. Most beautiful rosy white ground, with dark center blotches.																			
“ Emperor William. Cornflower blue.....																			
“ Fire King. Very showy.....																			
“ Hortensia, Red. Splendid.....																			
“ Indigo Blue. Very rich color.....																			
“ Lord Beaconsfield. Lavender and purple.....																			
“ Psyche. Velvety violet with broad white edge, beautiful.....																			
“ Prince Henry. Darkest blue; splendid.....																			
“ Ruby King. Richest shades of red, scarlet, orange-scarlet and wine-red.																			
“ Striped																			
“ White																			
“ White, with Dark Eye																			
“ Yellow. Dark center.....																			
“ Pure Yellow (Golden Crest).....																			
“ Mixed																			
Choice Collections of Giant Pansies, or Heartsease, Imported—																			
24 varieties.....																			
18 varieties.....																			
12 varieties.....																			

PARIS DAISY. See *Chrysanthemum frutescens*.

‡**PASSIFLORA** (Passion Flower). Pkt.
cærulea (hhP). Blue.....72780 10
 PEAS (Sweet Peas). See page 74.

PELARGONIUM (gP). Beautiful and well known plants for greenhouse and house culture. Popularly called “Lady Washington Geraniums”; 2 ft.
 Show Varieties, Large-flowered, Mixed. Pkt.
 72840 50
 Odier (Blotched), Superb Mixed..72850 50

PENTSTEMON Beautiful, herbaceous perennials; very hardy and free flowering; fine for beds and borders or rock gardens; excellent cut-flowers.
antirrhinoides. Lemon yellow; 1½ft. Pkt.
 72870 25

PENTSTEMON—Continued.

centranthifolius. Bright scarlet; 2 ft. Pkt.
 72880 25
Cobæa. Large, white flowers, shaded with purple; 1 ft. 72890 10
 †**Hartwegii grandiflorus, Mixed**. Large-flowered varieties; most brilliant colors; 2½ ft. 72910 10
Murrayanus grandiflorus. Scarlet shades; 3 ft. 72920 10
Mixed Large-flowered Varieties. 3 ft. 72930 10
 ***PERILLA**. An ornamental-leaved, half-hardy annual; for ribbon-gardening and beds; resembles the Coleus; 1½ to 2 ft.
 ***nankinensis**. Dark, bronzy purple foliage. Pkt.
 72950 5
 * “ **laciniatis**. Foliage extra dark purple; beautiful. 72960 5



Petunia, Thorburn's Century Prize

PETUNIA HYBRIDA (hhA). Once fairly started,

Petunias grow almost as easily as weeds and furnish a glorious succession of bloom from early Summer until frost. The large-flowered strains are very beautiful and of almost endless variety. Seed of the Double and Giant-flowered Petunias is made expensive by the great amount of labor involved in hand-fertilization, and it is well to handle seed and tiny seedlings with some care. Sow in hotbed, coldframe or in boxes of fine soil in the sunny windows of a warm room in April or May, and transplant about 1 ft. apart in garden beds. Seed of the double varieties has not so much vitality as that of single sorts and needs a little more care in watering to be sure of germination. We have no better plants than the Petunias for beds and masses, borders, window-boxes, baskets and vases. They will grow in almost any soil and bloom profusely through long droughts. The newer varieties are of brilliant colors. *The highest priced sorts produce the finest and handsomest flowers, and those we offer are from the most carefully selected strains, saved at great expense. Apparently similar sorts offered at lower prices are not to be compared with those we offer.* Average height, 1½ ft.

SINGLE LARGE-FLOWERED. These have flowers 4 or more in. across. Our strains are superb and the collections offered contain only the finest varieties.

- Crimson Giant.** Great flowers of deepest crimson..... Pkt. 72990 25
- Purple King.** Royal in color and size. 73000 25

PETUNIA HYBRIDA—Continued

- Rose.** Brilliant rose; a charming shade. Pkt. 73010 50
- superbissima.** Choicest Mixed. Grand flowers of various colors with richly tigered throats; exceedingly free flowering... 73020 50
- " **Mixed.** Large, yellow-throated varieties; they make a brilliant show in the garden... 73030 50
- White.** Clear, paper-white flowers of unusual size..... 73350 25
- Superb Single Mixed.** Offers a grand variety of colors..... 73360 30

FRINGED, LARGE FLOWERING. These have deeply cut and fluted margins. Pkt.

- Crimson.** A very rich color..... 73390 25
- Ruffled Giants.** Extra-large flowers, beautifully ruffled, fluted and fringed. 73400 50
- Thorburn's Century Prize.** An unrivaled strain of fringed, ruffled, giant-flowered sorts in most beautiful colors. Very valuable..... 73410 50
- Thorburn's Superb Giant.** A strain of surpassing beauty, with extremely large, deep-throated flowers, some exquisitely penciled and elegantly fringed. 73420 50
- White (Snow Storm).** Finest white. 73430 25
- Perfection Mixed.** Choicest fringed sorts..... 73440 25

PETUNIA—Continued

DOUBLE LARGE FLOWERING. Our seed will produce flowers large, fragrant, elegantly formed and beautiful either for house, garden or conservatory. *Only a small proportion of the double strains bear double flowers. The reason of this is the fact that the seed must be selected from single flowers, the double ones not producing seed. The single flowers must be pollinated with pollen from the double ones.* Cuttings may be made from double-flowered plants and inserted in light, sandy loam for rooting, thus increasing the percentage of double-flowering plants.

- Double Large-flowering, Mixed.** 73470 50 Pkt.
- " **Fringed Crimson.** Gorgeous colors; extra large flowers . . . 73480 75
- " **Fringed Heliotrope.** Mauve and heliotrope colorings. 73490 75
- " **Fringed Lady of the Lake.** Exquisite flowers of finest size and purest white. 73500 75
- " **Fringed Perfection, Mixed.** Flowers large and much be-ruffled. 73510 75

SINGLE BEDDING VARIETIES. Smaller-flowered sorts, found most valuable for beds and masses; 1 ft.

- Countess of Ellesmere.** Dark rose, with fine white throat. 73540 10 Pkt.
- Howard's Star.** Rich crimson; distinct white star in center; very showy.. 73550 10

PETUNIA—Continued

Single Bedding Varieties—Continued

- Rosy Morn.** Bright, rosy pink, with white throat; very charming, compact, and free flowering; for bedding. . . 73560 15 Pkt.
- venosa.** Variously colored, beautifully veined. 73570 10
- White.** Pure white; compact grower. 73580 10
- Inimitable Dwarf. Mixed.** Compact grower, star-shaped flowers. 73585 10
- " **Mixed.** Striped and spotted. 73590 10
- Mixed Single.** Fine colors. $\frac{1}{4}$ oz. 25c., oz. 85c. . . 73600 10

PHACELIA. Showy, hardy annuals of easy culture, doing best in a sunny situation; bell-shaped flowers; excellent for bees.

- campanularia.** Rich, deep blue; 9 in. 73690 5 Pkt.
- Parryi.** Dark violet blue; 1 ft. 73710 5

PHLOX DRUMMONDII (Flame Flower.)

The hardy annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost and care. There are few desirable colors beyond their range, and if given good soil and plenty of water, they furnish a long supply of delicate flowers. For pot culture, as trailers, and as an undergrowth for tall, bare-stemmed plants they are also valuable. The first sowings should be made as soon as the frost is out of the ground in Spring, later ones in May, either where the plants are to bloom, or in a seed-bed, as the Phlox transplants readily. In transplanting set the taller kinds about a foot apart; if planted too thickly they suffer from mildew. Cutting away the flowers and seed-pods makes the plants more bushy and compact, and lengthens their blooming time. Average height, 1 ft.

GRANDIFLORA. This section has beautiful, round-petaled flowers, larger than in the older sorts; showy and constant, blooming in the greatest profusion from early Summer to frost. Our strain is far superior to that ordinarily sold.

- alba.** Pure white flowers borne in profusion all Summer. . 73770 10 Pkt.
- " **oculata.** White, with violet eye. . . 73780 10
- atropurpurea.** Dark purple. 73790 10
- Chamois Rose.** A soft shade 73800 10
- coccinea.** Large; brilliant scarlet; very free flowering. 73810 10



Phlox Drummondii, Assorted

PHLOX Drummondii Grandiflora—Continued Pkt.

Crimson. Bright color.....	73820	10
Isabellina. Yellow.....	73830	10
kermesina splendens. Vivid crimson; extra-large flowers.....	73840	10
rosea. Rose.....	73850	10
stellata splendens. Star-like; crimson.	73860	10
Mixed. Splendid, large-flowering sorts. 1/4 oz. 25c., oz. 85c....	73870	10

SMALL-FLOWERED VARIETIES—

hortensiaeflora, Mixed. Semi-dwarf; very floriferous.....	73900	10
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DWARF VARIETIES. Plants of this charming section grow only 6 to 8 in. high, and form dense masses of bloom all Summer. They are especially useful for beds, edgings, pots, etc. Pkt.

Chamois Rose. Very fine.....	73950	15
Fireball. Flame red; fine for pots and for edging.....	73960	15
Snowball. Pure white; fine for pots.	73980	15
grandiflora nana compacta (Cecily Phlox). Mixed.....	74010	10
Fancy Mixed.	74030	10

PHLOX Drummondii—Continued

STAR PHLOX—

cuspidata (Star of Quedlinburg). Star shaped; many colors.....	74050	10
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PERENNIAL PHLOX. These hardy sorts make bushes about 3 ft. high and bear large heads of finely colored flowers. Pkt.

decussata, Mixed.	74090	10
Large-flowered Hybrids, Mixed.	74110	15

†**PHYSALIS Francheti** (Chinese Lantern Plant). A splendid hardy perennial, very ornamental; has large orange fruits which, dried, are beautiful in Winter bouquets; 2 ft.....

	74180	10
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PHYSOSTEGIA (Obedient Plant). A valuable, Summer-flowering, hardy perennial border plant; delicate, white flowers on long stems; good for cutting; 3 ft. Pkt.

grandiflora virginica. Rosy pink. . .	74190	25
“ alba.	74200	25

PICOTEE (Picotee Pink). These beautiful greenhouse varieties have richly colored edged flowers and are finely perfumed; very attractive; 1 1/2 ft. Pkt.

White Ground. Colored edges....	74230	50
Yellow Ground. Very desirable....	74240	50
Extra Fine, Mixed. Show varieties. .	74250	50

See, also, *Carnation* and *Pinks*.

PINKS (*Dianthus*). In this large and greatly varied genus are some of our most beautiful and best-loved flowers, unsurpassed for color and fragrance. They are hardy biennials that bloom finely the first season, remaining green all Winter and blooming the next year also, if lightly protected. Old plants flower the earliest, but as young ones give the largest, finest flowers, sowings are made every year. Seed can be sown under glass in the Spring, or in an open, sheltered bed. The seedlings are easily transplanted and should stand 8 to 12 in. apart; dwarf ones about 6 in. If especially large, brilliant flowers are desired a bed of well mixed turfy loam, leaf-mold and well decayed manure should be prepared for them. Average height, 1 ft.

CHINENSIS (China or Indian Pinks). The flowers of all are double and showy. Pkt.

Double White China Pink.	74280	5
“ Mixed China Pink. All best colors. 1/4 oz. 25c., oz. 75c. . .	74290	5
“ Very Dwarf, Mixed (Narcisse).	74300	10

HEDDEWIGII (Japan Pinks). Unusually large and brilliant; often oddly edged, striped and ringed.

Single, The Bride (Little Gem). White, with purple center.....	74320	10
“ Crimson Belle. Flowers large and handsome; dark red; on long, stiff stems.....	74330	10
“ Eastern Queen. Rose-colored flowers, 2 to 4 in. across; finely striped and stained.....	74340	10
“ Queen of Holland. Splendid; white.....	74350	10
“ Mixed. 1/4 oz. 25c., oz. 75c. . .	74360	5
“ Mixed, Giant Flowered.	74370	10



Dianthus Plumarius

PINKS, Heddwigii—Continued

- Single mixed nobilis** (Royal Pink). Pkt.
Large, frilled and fringed flowers of a glowing blood-red, shading to carmine and pink and even white; vigorous and tall-growing; abundant, continuous bloomer; fine flower for cutting. **74380** 15
- Double, Mixed.** A splendid assortment. $\frac{1}{4}$ oz. 40c., oz. \$1.00... **74385** 10
- “ **diadematus fl. pl.** (Diadem Pink). Double; magnificent in color and variety... **74390** 10
- “ **Fireball.** Brilliant scarlet; very compact and floriferous vines; for massing... **74400** 10
- “ **Archduke Francis Ferdinand.** Very double lilac flowers, with deep black zone, new... **74395** 25
- “ **Mourning Pink.** Very large, double flowers of blackish crimson, fringed white; very effective, and a handsome cut-flower... **74410** 10

LACINIATUS, mirabilis, Single, Mixed.

- Quite distinct, narrow foliage; on long stems; fine for cutting... **74430** 10
- “ **Oriental Beauty.** Petals wide, crinkled, richly marked with pink, white, etc... **74440** 10
- “ **punctatus.** Dark-shaded Princess Pink. Quite peculiar colors, such as purplish violet, blood-red, dark salmon, etc... **74450** 15
- “ **Salmon Queen.** Beautiful rosy salmon; handsome single flowers... **74460** 10
- “ **Snowball.** Large; double; white... **74470** 10
- “ **Snowdrift.** Very large double flowers, beautiful... **74475** 20
- “ **Snowflake.** Pure white; fine single... **74480** 10
- “ **Single, Mixed.** Fringed flowers of all colors. $\frac{1}{4}$ oz. 25c., oz. 75c... **74500** 10
- “ **Double, Mixed.** $\frac{1}{4}$ oz. 50c... **74510** 10

IMPERIALIS FL. PL. (Double Imperial Pink).

- Robust, bushy grower, with large, double flowers.
- Double, Mixed.**... **74530** 10
- “ **Dark Red.** A deep, rich color. **74550** 10
- “ **Dwarf White.** Great snowy flowers; grows 9 inches high. **74570** 15

PLUMARIUS (Sweet May Pinks.) These are fine, fragrant, hardy perennials of the old-time gardens, still reckoned among the most beautiful for massing and cutting.

- Pheasant's Eye.** Pretty fringed flowers. **74600** 5
- scoticus** (Double Scotch Pink). A series of exquisite colors; ours is the finest strain... **74620** 50

PINKS, Plumarius—Continued

- semperflorens** (Perpetual Pink). Double, semi-double and single; of various colors... **74630** 15
 - Single Pinks, Mixed.** $\frac{1}{4}$ oz. 20c., oz. 60c... **74650** 10
 - Double Dwarf, Mixed.** Extra fine... **74670** 10
 - Double and Semi-Double Grass Pinks.** Pretty flowers of delicate colors... **74680** 15
 - Double Mixed.** Extra fine... **74690** 15
- PLATYCODON** (Wahlenbergia; Large Chinese Bellflower). Handsome, hardy perennials that do best in light, dry situations; bushy growth; bear large, bell-shaped flowers in great profusion. See cut. Pkt.
- grandiflorum.** Deep blue; 2 ft... **74800** 10
 - “ **album.** White; 2 ft... **74810** 10
 - Mariesii.** Dark blue; dwarf, compact habit; 1 ft... **74820** 10
- See also *Campanula*.

POLEMONIUM. See *Jacob's Ladder*.

†POLYANTHUS (Primula elatior). Fine Spring-blooming and free-flowering, hardy perennials; alike suitable to pot or garden culture; 9 in. Pkt.

- Mixed.**... **74900** 10
- Large Flowered, Finest Mixed.** Fine collection... **74910** 25
- Gold-laced.** Very attractive and showy. **74920** 25



Platycodon

POPPY (Papaver). Before Tulips are fairly gone our gardens begin to be gay with

Poppies. Few flowers have the same grace of stem, airiness of poise and delicacy of tissue. For beds and borders with a background of green there is nothing finer; some sorts are admirable for naturalizing in open wooded grounds; others, like the Shirley, are beautiful for cutting. A sandy loam suits Poppies best, and, as their strong tap-roots are difficult to transplant, it is well to sow seed where the plants are to bloom. Sowings made in Fall and at intervals in Spring will provide a long succession of flowers. Sow thinly, covering very lightly, and thin the plants to stand about a foot apart. The best plants are those grown from early sowings while the soil is cool and moist.

PERENNIAL VARIETIES. Tall, large flowered and showy; average height, 2 to 4 ft.

bracteatum. Glowing scarlet; on long Pkt. stems; 3 ft. 74950 5

orientale. Enormous flowers of deep, flashing scarlet, with black spots in center; entirely hardy anywhere; fine for cutting; 3 ft. 74960 10



Oriental Poppy

POPPY, Perennials Varieties—Continued

orientale. Brilliant. Vivid scarlet; Pkt. beautiful. 74970 10

" **Mixed Hybrids.** Finest shades. 75010 10

nudicaule (Iceland Poppy). These dwarf, bright yellow Poppies form one of the chief attractions of the garden through several months. They are most beautiful when grown in masses from seed sown every year; if sown very early they bloom same season; 1 ft. 75030 10

" **aurantiacum coccineum.** Orange red. All of this class have crimped petals and peculiar grace. 75040 10

" **album.** Pure white. 75050 10

" **Mixed** 75060 10

ANNUAL VARIETIES. This section includes fine double and single flowers of greatly varying sizes, self-colored and daintily edged. All are easily cultivated and greatly admired. Average height, 3 ft.

Thorburn Giant White. White flowers Pkt. of grand form and size, with silky petals; 3 to 4 ft. 75090 5

Danebrog. Large; single; scarlet, with white cross at base of petals. 75100 5

English Scarlet Field Poppy. oz. 50c. 75110 5

Flag of Truce. Pure white; large and showy flowers. 75120 5

Maid of the Mist. Pure white; single; very large; deeply fringed; 3 to 4 ft. 75130 5

Mephisto. Beautifully fringed; varies from red and black to rose and white. 75140 5

Mephisto rosea. Fine Single. 75145 5

Miss Sherwood. Large; single; satiny white, with upper half of petals chamois rose. 75150 5

Shirley Best Mixed. Indescribably bright, dainty and gauzy; a favorite for cutting. (See *Illustration*, page 117). oz. 25c. 75160 5

" **Santa Rosa Hybrids.** Beautifully crimped petals; shades of blue, lavender, salmon, etc. 75170 10

glaucum (Tulip Poppy). Striking, Tulip-shaped flowers of intensely brilliant scarlet; dwarf. 75180 10

lævigatum. Scarlet, with white marks at petal bases; very showy. 75190 5

pavonium (Peacock Poppy). Intense scarlet, with broad bands of purplish black. 75200 10

Pæony-flowered Admiral. Pure white, margined with brilliant scarlet; very fine. 75205 5

Virginia Poppy, Carnation Flowered, Single. Large, white flowers, with fringed soft pink edges; fine for cutting. 75210 15

POPPY, Annual Varieties—Continued

Double, American Flag. White, bordered with scarlet, and exceedingly brilliant flowers.	75220	5	Pkt.
“ Cardinal. The immense scarlet flowers last unusually well.	75230	5	
“ Cardinal, Mixed.	75240	5	
“ Carnation-flowered Hybrid, White Swan. Pure white.	75250	5	
“ Carnation-flowered, Mixed. Very double, fringed.	75260	5	
“ Mikado. Large, white flowers, attractively fringed with rose.	75270	5	
“ Pæony-flowered, Dwarf, Fireball. Deep scarlet; very large flowering.	75280	5	
“ Pæony-flowered, Snowball. Pure white; very large flowering.	75290	5	
“ Pæony-flowered, Dwarf, Mixed Hybrids. Hybrids of compact growth; splendid.	75300	5	
“ Pæony-flowered, Mixed. Large, handsome flowers of many colors.	75310	5	
“ Ranunculus-flowered, Mixed. Flowers small, finely formed, double.	75320	5	
“ White.	75330	5	
“ Mixed, All Sorts.	75340	5	



Shirley Poppies

PORTULACA

This charming, little, hardy annual is unrivaled for brilliancy among plants of low growth, and, though it flourishes under almost all conditions, hot sun and a light, sandy soil suit it best. Nothing is prettier for beds, edgings, rockwork, etc. As an undergrowth for taller plants it is also valuable. Through the driest, hottest seasons it flourishes amazingly, carpeting the ground with a mat of succulent foliage that, in the forenoon, is hidden by gayest flowers. The seed does not germinate until hot weather, and should be sown late. This plant requires little care and can be transplanted in full flower. Average height, 6 in.

SINGLE VARIETIES. Each strong plant will cover a space of about 2 ft. in diameter.

albiflora. Pure white.	75420	5	Pkt.
aurea. Deep, golden yellow.	75430	5	
Carnation-striped Rose.	75440	5	
rosea. Rich rose.	75450	5	
splendens. Crimson.	75460	5	
Thellussoni. Scarlet.	75470	5	
Thorburni. Beautiful, bright yellow.	75480	5	
Mixed. ¼ oz. 20c., oz. 60c.	75490	5	

PORTULACA—Continued

DOUBLE VARIETIES. The flowers are so full and perfect as to resemble tiny Roses. Toward the close of the season they will increase in size and beauty. As the full, double flowers do not produce seed, it must be saved from the semi-double flowers growing with the full-doubles. The product of that seed will produce many single flowers. As these bloom earlier they can be pulled out like weeds. When the full-doubles appear cuttings can be made from them and the bed extended indefinitely with only full-double flowers. *Our strains must not be confused with the ordinary, cheap seed usually sold.* Pkt.

Double Bright Red.	75510	20
“ Golden, Red Striped.	75520	20
“ Rose.	75530	20
“ Rose Striped.	75540	20
“ Salmon.	75550	20
“ Scarlet.	75560	20
“ Sulphur Yellow.	75570	20
“ White.	75580	20
“ Yellow.	75590	20
“ Mixed. Grown from cuttings; a splendid assortment of colors.	75600	20

POTENTILLA. Handsome and brilliant in flower are these desirable, hardy perennials. Foliage ornamental; bloom all Summer; of the easiest cultivation; 2 ft.

atrosanguinea. Dark red; especially fine for bedding.	75680	10	Pkt.
Mixed. Brilliant colors.	75690	10	



Primula Stellata

PRIMULA

CHINENSIS (Chinese Primrose) (gP). Primula, or Chinese Primrose, stands in the first rank among greenhouse plants, and is fine for Winter and Spring blooming. It is free flowering and is especially valuable for cut-flowers and for house and window culture. A cool place suits it best. Sow the seeds in drills in a light, rich soil, in shallow boxes, at any time from the middle of March to the end of May; the earliest sown seed will naturally produce the earliest bloom. Cover the seed about an eighth of an inch and press the soil on them with a board or the bottom of a pot. Water moderately; avoid forcing the seed. The plants must be well ventilated, well watered, and slightly shaded. Average height, 9 in.

- | | |
|---|----------|
| | Pkt. |
| fimbriata alba. White; fringed. . . | 75720 25 |
| “ alba magnifica. Pure white; fringed; extra choice. . . | 75730 35 |
| “ Bright Rose. Dainty fringed flowers. | 75740 35 |
| “ coccinea. Bright red; fringed. | 75750 35 |
| “ cærulea. Blue; fringed. | 75760 35 |
| “ kermesina splendens. Crimson; fine shade; fringed. | 75770 35 |
| “ rubra. Red; gracefully fringed flowers. | 75780 25 |
| “ Extra Fine Mixed. Fringed. | 75790 25 |

PRIMULA Chinensis—Continued

- | | |
|---|----------|
| fimbriata filicifolia. All these are Pkt. fringed and have fern-like foliage. | |
| alba. White. | 75810 50 |
| Mixed | 75830 50 |
| “ globosa. Fringed; globe-shaped flowers. | |
| rubra. Red. | 75840 25 |
| alba. White. | 75850 25 |
| Mixed | 75860 25 |
| “ plena. Beautifully fringed, double flowers. | |
| rubra. Red. | 75870 50 |
| alba. White. | 75880 50 |
| Mixed | 75890 50 |
| stellata, Mixed (Star Primulas). Very floriferous. | 75910 50 |
| OBCONICA (gP). For open border, also do well in the house window-garden. Continuous and free bloomers during the Winter months. Pkt. | |
| grandiflora alba. White. | 76000 25 |
| “ carminea. Carmine. | 76010 25 |
| “ rosea. Rose. | 76020 25 |
| “ hybrida, Mixed. | 76030 50 |
| “ gigantea, Mixed. Giant flowering. (See illustration page 109.) | 76120 50 |
| Forbesii (Baby Primrose) (gP). Rosy lilac, very free flowering and fragrant; fine for pots. | 76130 25 |
| Kewensis (gP). Large, bright yellow flowers; fragrant; strong grower. | 76140 30 |
| malacoides (gP). Dainty, soft lilac pink; fine for pot culture; 18 in. | 76150 25 |
| HARDY VARIETIES. The hardy Primroses are among the most prized of our Spring-blooming plants. A slight protection, while not always needed, will be found beneficial; 1 to 1½ ft. | |
| cortusoides (hP). Rose pink; handsome sort. | 76190 10 |
| farinosa (Bird's-Eye Primrose) (hP). Rose. | 76200 25 |
| japonica (Japanese Primrose) (hP). Purple; called the “Queen of Primroses;” 1½ to 2 ft. | 76220 10 |
| “ hybrida, Mixed (hP). From a fine collection. | 76230 25 |
| verticillata (hP). Golden yellow, pyramidal habit. | 76240 25 |
| See, also, <i>Auricula, Cowslip</i> and <i>Polyanthus</i> . | |
| PRIMROSE (Evening Primrose). The <i>Oenothera</i> , or Evening Primrose, blooms all Summer very freely; the bright, Poppy-like flowers open early every evening and last well into the next day; of the easiest culture in sunny situations. | |
| Oenothera acaulis alba (hA). Silvery white flowers; 6 in. | 76290 10 |
| “ bistorta Veitchiana (hA). Dwarf; yellow; 1 ft. | 76300 5 |
| “ Drummondii (hA). Light yellow; 1½ ft. | 76310 5 |
| “ Lamarckiana (hB). Large yellow flowers; 3 ft. | 76320 10 |
| “ rosea (mexicana) (hA). Bright rose; 6 in. | 76330 10 |
| “ tetraptera (hA). White; 6 in. | 76340 5 |
| “ Mixed Annual Varieties. | 76370 5 |
| PUERARIA Thunbergiana. See <i>Kudzu Vine</i> . | |

PYRETHRUM Showy, hardy perennials growing about 2 ft. in height, with most brilliant and lasting flowers.

- The dwarf Golden Feather is the well-known variety used for carpet bedding, edgings and borders.
- roseum hybridum, Single, Mixed.** 76400 10 Pkt.
 - “ **hybridum, Double, Mixed.** 76410 25
 - †**parthenifolium aureum** (Golden Feather). Yellow, fern-like leaves; fine for edgings; 6 to 8 in. 76460 5
 - “ **aureum selaginoides.** Bright yellow leaves; very compact. 76470 10
 - “ **aureum, Golden Gem.** Fine, golden foliage; double flowering. 76480 10
 - Tchihatchewii.** White and yellow; for poor soils. 76490 10
 - REHMANNIA angulata.** Splendid, half-hardy, herbaceous perennial, with beautiful, large, rosy purple flowers, similar to those of *Incarvillea Delavayi*. For pot culture or outdoors in sheltered situations; 3 ft. 76530 25
 - ***RHEUM** (Ornamental Rhubarb). Ornamental, hardy perennial, foliage plants, valuable alike for planting as single specimens or in groups; 3 to 5 ft.
 - Collinianum.** Enormous leaves; fine. Pkt. 76550 5

RHODANTHE Beautiful, delicate-looking Everlasting flowers, much prized for Winter bouquets. These half-hardy annuals are also valuable garden plants. Glauous gray foliage; 1½ ft. Pkt.

- maculata.** Rose with dark center. 76570 10
- “ **alba.** Pure white. 76580 10
- “ **Mixed.** 76590 10
- Manglesii.** Rose; very fine. 76600 10
- RHODOCHITON volubile.** An elegant greenhouse climber, with abundant purplish-rose flowers; 10 ft. 76620 25
- RHODODENDRON arboreum hybridum.** The well-known, hardy evergreen shrub. Mixed varieties; 10 ft. 76640 25

RICINUS (Castor-Oil Plant). Picturesquely showy and imposing, the Ricinus gives to the garden magnificent semitropical effects. Grown as a specimen it makes a perfect pyramid of gigantic leaves; a dozen plants in a large bed show a glorious mound of glistening colors and may be admired from a long distance; planted thickly it soon forms a handsome screen or hedge; the lower-growing, dark-leaved sorts are beautiful for dotting here and there among Cannas, scarlet Pelargoniums, etc. Tall varieties grow from 8 to 10 ft. high, with leaves several feet across and beautifully lobed. Half-hardy annuals.

- borboniensis arboreus.** Green foliage; Pkt. 15 ft. 76680 5
- Gibsoni.** Dark red; 5 ft. 76700 5
- hybridus Panormitanus.** Cross between Cambodgensis and zanzibariensis. Huge, dark brown leaves, blue-powdered stems; upright habit. 76710 10
- sanguineus.** Red stems and seeds; 6 ft. 76760 5
- zanzibariensis, Finest Mixed.** 8 to 10 ft. 35c. 76780 5

RICINUS—Continued

- Collections of Ricinus, Imported, including—**
- 12 vars. choicest sorts. Pkt. 76810 45
 - 6 vars. choicest sorts. 76820 25

ROCKET (Sweet Rocket; *Hesperis*). Spring flowering, hardy herbaceous perennials; fragrant; easily grown in light soil; transplant frequently; very free blooming.

- matronalis.** Purple; 3 ft. Pkt.
- ¼ oz. 20c., oz. 50c. 76880 5
- “ **alba.** White; fine cut-flower; 3 ft. 76890 5
- “ **nana candidissima.** Pure white; very compact; early flowering; 1 ft. 76900 10

ROMNEYA Coulteri (California Tree, or Matilija Poppy). This beautiful, half-hardy, perennial Poppy should have a sheltered position in the garden. Fine, fragrant, white flowers; 4 ft. 76930 25

ROSA polyantha nana multiflora (†hP). Dwarf, compact bushes covered with small, single and double blossoms in various colors. These Roses flower the first season from seed; 2 ft. 76960 10

- ROSE CAMPION.** See *Agrostemma coronaria*.
- ROSE OF HEAVEN.** See *Agrostemma Cæli-rosa*.
- ROSE OF SHARON.** See *Hibiscus syriacus*.

RUDBECKIA (Coneflower). Attractive and compact-growing plants, most suitable for beds and borders or clumps among shrubs; showy, large, yellow flowers with dark central cones; easily grown.

- amplexicaulis** (hA). Pure golden yellow; Pkt. 2½ ft. 76990 5
- bicolor superba** (hA). Golden yellow; long stems; 2 ft. 77010 5
- fulgida variabilis** (hP). Various yellow shades; 2½ ft. 77020 10
- Newmannii** (hP). Vivid orange yellow; 3 ft. 77030 10

†**SAINTPAULIA ionantha** (The Usambara Violet). A lovely greenhouse perennial, Violet-like in appearance; large, deep blue flowers; 6 in. 77090 25



Salvia Bonfire—See page 120

SALPIGLOSSIS (Painted Tongue).

These showy, half-hardy annuals bear beautiful, funnel-shaped flowers having dark veins on a ground which varies from white to crimson, yellow, orange, etc., and intermediate shades. They are easily grown, require a light, rich, sandy loam and will respond to liberal treatment. Bloom from late Summer until frost; 2 ft.

- grandiflora violacea aureo-venosa.** Pkt. Lilac, veined golden yellow; fine large flowers..... 77150 10
- " **Extra Choice, Mixed.** A fine assortment of colors..... 77160 10
- " **superbissima, Yellow.** Cheerful flowers. 77170 15
- " **superbissima, Light Blue.**..... 77190 15
- " **superbissima (Emperor), Mixed.** Finest strain of very large flowers..... 77210 15
- Tall Mixed.**..... ¼ oz. 35c... 77230 10
- Dwarf Mixed.**..... ¼ oz. 35c... 77240 10



Salpiglossis

SALVIA (Flowering Sage). The

Salvia splendens is a standard bedding plant that keeps the garden bright with color until late in Autumn. For pot culture, for cutting and for borders, etc., it is very valuable. In this climate sow seed in window-boxes or frames in March or April, and set the plants outdoors the latter part of May; or sow outdoors not before June 1, and protect from heavy rains and strong winds. The plants grow and bloom profusely in any light, rich soil. Both the tender and hardy perennial sorts bloom the first year, and all are treated as annuals.

- argentea** (hP). Silvery leaved; flowers white; blooms in Spring; 3 ft..... 77300 5
- farinacea** (hA). Light blue flowers in great abundance; good for cutting; forms a neat bush; 3 ft..... 77320 10
- patens.** A handsome, tender perennial, with erect spikes of rich, blue flowers; fine for borders or the greenhouse; 2 ft.. 77330 25

SPLENDENS (Scarlet Sage) (hhP). These are the well-known bedders, single plants of which carry many long, flaming flower spikes open at one time, keeping up the display until frost.

- grandiflora, Scarlet.** A rich-flowered bedder; long spikes; 3 ft..... 77360 10
- Ball of Fire.** Very dwarf and compact, ball-shaped variety, especially suitable for pot culture. The plants are about 2 ft. high to the top of the flower spikes, and about the same in diameter. Color dull red; large spikes, similar to No. 77410. 77390 25
- Bonfire.** Our well-known, compact *Salvia* —the freest blooming of all, seemingly on fire all the time, with dense, flaming scarlet spikes; 2½ ft..... 77400 10

SALVIA Splendens—Continued

- Early Dwarf Zurich.** Grows only 12 to 15 in. high, with many fine, erect, slender spikes to each plant, borne well above its handsome foliage. Color brilliant scarlet; splendid bedding variety; earliest of all..... 77410 25
- Lord Fauntleroy.** Only 18 in. high; very compact, with the brilliant scarlet flower spikes standing clear above the foliage. Fine for bedding in masses or for borders around beds of taller plants; also fine for pots. Very early flowering.... 77420 25

Ostrich-Plume, (see Novelties). 77425 25

- Scarlet Dragon.** A superb bedding plant for Summer and Autumn; flowers are nearly twice the size of the old Scarlet Sage; when full grown the plants form bushes about 3 ft. in height, and the same in diameter, and are a mass of bloom. The brilliant scarlet effect is gorgeous. 77430 25
- Silverspot.** Rich, green leaves elegantly spotted with yellow. The intense, bright scarlet flowers are large and lavishly borne; neat and compact; 2½ ft..... 77440 25
- SANTOLINA.** Valuable for its distinct foliage and is used for large specimens in shrubberies or as a carpet-bedding plant.
- Chamæcyparissus** (Lavender Cotton). Pkt. (hP). Attractive, silvery gray foliage and yellow flowers; 1½ to 2 ft..... 77460 10
- SANVITALIA procumbens fl. pl.** Beautiful, dwarf-growing, hardy annual for beds or borders; bright yellow, double flowers; blooms all Summer; 6 in..... 77490 10

SAPONARIA. Pretty, dwarf bedding plants, especially adapted for edgings and borders; long and profuse bloomers; 1 ft. Pkt.

- calabrica** (hA). Red.....77510 5
- “ **alba** (hA). White.....77520 5
- “ **Scarlet Queen** (hA). Very brilliant.....77530 5

ocymoides (hP). Rose-colored flowers; trailing; blooms early; fine for rockwork; 6 in.....77540 10

SAXIFRAGA Mixed Perennial Species. Interesting little plants, especially prized for all kinds of rockwork; also for hardy borders; 9 in.77560 10

SCABIOSA (**Mourning Bride; Scabious, etc.**). Well-established garden favorites. They grow about 2 ft. high, and flower through the Summer until frost. The flowers are borne on long stems and last a long time when cut. Fine for beds or borders. Sow seed outdoors in Spring when danger from frost is past.

caucasica (Blue Bonnet) (hP). This hardy perennial should be in every garden. The flowers are large and semi-double, of pale lavender color, growing on long stems; splendid for cutting.....77590 10

HARDY ANNUALS—

candidissima fl. pl. (Snowball). Double; white.....77600 5

minor aurea fl. pl. Double; golden yellow.....77610 5

Tall Black Purple.....77620 5

“ **Flesh Color**.....77630 5

atropurpurea maxima. Very double, mixed.....77650 15

Mixed, Tall. Large flowers of bright colors.....77660 5

Mixed Dwarf.....77670 5



Scabiosa

SCHIZANTHUS Very beautiful and showy, hardy annuals, fine for beds and borders in the Summer garden; grown in pots in early Spring in the greenhouse they become elegant foliage plants, with masses of flowers; 1½ to 2 ft. Pkt.

Grahamii. Light red.....77740 5

papilionaceus. Purple, yellow and crimson.....77750 5

pinnatus, Mixed. Floriferous.....77760 5

retusus. Red; splendid.....77770 5

“ **albus.** White, inside yellow; very fine.....77780 5

“ **trimaculatus albus.** Blotched, white and golden yellow; large flower.....77790 25

Wisetonensis. Light shades; long and profuse blooming; fine pot-plant.....77810 25

Mixed.....77840 5

SEDUM (Stonewort). Showy and useful little plants for carpet bedding, edgings, rockwork, stone walls, etc. Will do well in any soil and dry situations.

acre (Golden Moss) (hP). Green foliage; Pkt. yellow flowers; good for covering graves; 4 in.....77900 10

SEDUM—Continued

cæruleum (hA). Blue; 4 in.....77910 10

Maximowiczii (hP). Yellow flowers; erect growth; 1 ft.....77920 10

Mixed (hP). Many species; 9 in.....77930 5

SENECIO. See *Jacobæa*.

SENSITIVE PLANT. See *Mimosa pudica*.

SILENE (**Catchfly**). Bright-colored and free-flowering hardy annuals, suitable for rockwork or garden beds and borders, blooming all Summer; succeed finely in any light, loamy soil; 1 ft. Pkt.

Armeria. Red.....77960 5

“ **alba.** White.....77970 5

pendula. Red.....77980 5

“ **Double Rose**.....77990 5

“ **Bonnettii.** Dark purple; dark stems.....78010 5

“ **Mixed**.....78020 5

SMILAX (**Myrsiphyllum asparagoides**). A well-known greenhouse climber, with small, dark green foliage; of great value in floral work; 8 ft. 78050 10

SNAPDRAGON (*Antirrhinum*). The

Snapdragon is one of our finest perennials, flowering the first year from seed. Its bright-colored, curiously formed flowers always excite interest. The rich spikes are beautiful for cutting, and keep fresh a long time. Flower profusely through Summer until frost. For early flowers, sow under glass in February or March, and transplant into beds of warm, dry soil moderately enriched. The Snapdragon is treated as an annual and the seed sown every year. Average height, 2 ft.

TALL VARIETIES—

	Pkt.
album. White.....	78080 5
atrococcineum. Dark scarlet....	78090 5
Coral Red.	78095 10
Delicate Rose.	78100 10
Fairy Queen (Firefly). Orange, white throat.....	78120 5
luteum. Yellow.....	78130 5
Romeo. Violet rose with pale lip..	78140 5
picturatum, Mixed. Blotched...	78150 5
Mixed ¼ oz. 20c., oz. 50c...	78160 5

SNAPDRAGON—Continued

TALL, LARGE-FLOWERING VARIETIES.

	Pkt.
Blood Red. Fine color.....	78170 10
Delilah. White and carmine.....	78180 10
Firefly. Scarlet and white.....	78190 10
Galathee. Crimson and white....	78200 10
Queen Victoria. Pure white.....	78210 10
Striped. Odd and pretty.....	78220 10
Venus. Delicate pink, with white throat.	78225 15
White. Beautiful for cutting....	78230 10
Yellow. A pure, soft color.....	78240 10
Large-flowered, Mixed. Fine.	
¼ oz. 25c., oz. 75c.	78270 10

SEMI-DWARF VARIETIES. Plants of this section make excellent bedders, as they bloom extra profusely and are only about 15 in. high.

Black Prince. Nearly black.....	78310 10
BONFIRE. Lovely orange pink..	78320 15
COTTAGE MAID. Pale coral pink, white throat.....	78330 15
Crimson King. Bright crimson; a deeper color than Scarlet King.....	78340 15
grandiflora, Golden Queen. Yellow.	78350 10
Queen of the North. Pure white; small leaved.....	78360 10
Rose Dore. Pretty, self-colored salmon rose.....	78370 25
Scarlet King. Brilliant scarlet; tall spikes of flowers.....	78380 15
picturatum, Mixed. Blotched varieties.	78390 10
Fine Semi-dwarf Mixed.	78400 10
Tom Thumb, Finest Mixed. Very dwarf strain; 6 in.....	78410 10
Collections of Snapdragon, Imported, including—	
12 vars. Finest Tall.....	78440 45
6 vars. Finest Tall.....	78450 25

SOLANUM (gP). The Solanums are very

ornamental, fruit-bearing plants, and thrive best in light, rich soil. Fine for Winter decoration in the house or conservatory. If used in Summer garden give very warm situation; 1 to 3 ft.

capsicastrum (Jerusalem Cherry). Scarlet, globular berries; fine for pots; 1 to 1½ ft.	Pkt. 78480 10
giganteum. Small, round, red berries; large, handsome variety.....	78490 10
Hendersoni. Orange-scarlet berries of olive form; fine.....	78495 10
‡ Seafortianum. Beautiful climber; egg-shaped, yellowish red fruit; 8ft....	78510 10
Warszewiczii. Pale yellow fruit; smooth and shining; handsome sort.....	78520 10
SPHENOGYNE speciosa. Elegant, hardy annual, with showy yellow flowers; 1 ft.	78560 10
SPIRÆA (Astilbe) Davidii. Beautiful, hardy perennial, with tufted leafage and rose-purple flower spikes; very strong grower, easily raised from seed; flowers in eighteen months; 6 ft.....	78580 25



Snapdragon, *Antirrhinum*

STACHYS lanata (Lamb's Ears) Orna- Pkt.
mental hardy perennial, with silvery
white, woolly leaves; used for edgings
and borders; easily grown; 1½ ft.78600 5

STATICE (Sea Lavender). Pretty plants for the
Summer garden in beds or borders; good for
rockwork also; much valued when dried as
Everlastings for Winter bouquets; 1 to 2 ft.

Bonduellii (hA). Golden yellow78630 5

sinuata (hA). Blue; very fine78640 5

" **candidissima** (hA). White; fine
for edging78650 5

Suworowii (hA). Spikes of bright rose
flowers; free bloomer; very handsome.
78660 10

incana hybrida nana (hP). Dwarf; mixed
colors78670 5

STENACTIS speciosa. Very showy, hardy
perennial, bearing purplish lilac, Aster-
like flowers with conspicuous orange cen-
ters; fine for cutting; 2½ ft.78700 10

STEPHANOPHYSUM longifolium (fgP).
A pretty, free-flowering greenhouse plant,
growing readily in any light and rich soil;
flowers scarlet; 2 ft.78720 25

STEVIA serrata (fgP). Greenhouse peren-
nial; bears very elegant sprays of tiny
white, fragrant flowers which are splendid
for cutting; 2 ft.78740 10

STOCKS (*Matthiola*). Stocks have good
habit, fine leaves, beautiful and
fragrant flowers, a long season of bloom and
adaptability to many conditions of culture.
They are unsurpassed for bedding, edging,
pot culture and for cutting. For fine early
flowers sow under glass in March or April,
transplanting the seedlings when an inch
high into other pots or boxes, or into fine
soil spread over some discarded hotbed. In
May transfer to garden beds of deep, rich
soil, setting the plants a foot apart. Trans-
planting several times in the early stages of
growth tends to make them more dwarf and
compact. For later flowers sowings may be
made in the open ground in May. If plants
that begin to bloom late are carefully potted
in Fall they will flower finely all Winter in a
house that is tolerably cool and moist. Average
height, 1 to 1½ ft.

GERMAN TEN WEEKS. Half-hardy annuals.

Large-flowering Dwarf Pyramidal. Pkt.
Finest Mixture78840 25

Dwarf Large-flowering. Long, splendid
spikes; large, double flowers. Pkt.

Bright Red78870 10

Blood Red. Very rich78880 10

Carmine78890 10

Dark Blue. Beautiful78910 10

Lavender78920 10

Light Blue. Exquisite78930 10

Rose. Very dainty, light color78940 10

Snow White78950 10

Violet78960 10

Mixed78980 10

STOCKS—Continued

**DRESDEN PERPETUAL OR BRANCH-
ING**.

"Cut-and-Come-Again" ("Princess Pkt.
Alice"), White. Profuse and per-
petual-blooming; double, white flowers,
fine for cutting79000 25

"Empress Augusta Victoria." Deli-
cate silvery lilac flowers in magnificent
trusses; of true pyramidal growth;
height 24 in.79010 25

Mixed79020 25

GOOD MIXED STOCKS79070 5

DWARF, GERMAN BOUQUET, Mixed.
79150 25

**WINTER "NICE" VARIETIES, LARGE-
FLOWERING**—

Abundance. Carmine-rose; profuse.
79310 25

Beauty of Nice. Flesh-color; extra-large
flowers79320 25

Monte Carlo. Pure yellow79330 25

Pure White79340 25

Queen Alexandra. Rosy lilac79350 25

Mixed79370 25

STOKESIA (Cornflower Aster). This popular
hardy perennial bears, all Summer, large, at-
tractive flowers resembling semi-double Asters;
fine for cut-flowers; 2 ft. Pkt.

Cyanea. Lavender-blue; handsome79610 10

Cyanea Mixed79630 10

STONECROP. See *Sedum*.

SUMMER CYPRESS. See *Kochia trichophylla*.



Stocks, Beauty of Nice



Sweet William (*Dianthus Barbatus*)

SUNFLOWER (*Helianthus*). Very

stately and decorative hardy annuals, with great masses of yellow flowers. Among shrubby, and for backgrounds and screens, nothing could be finer. Their long stems and wonderful lasting qualities make them valuable as cut-flowers. They are said to be good for absorbing the miasma of low grounds. Plant the seed in the open garden in Spring, and thin the plants to stand 3 to 4 ft. apart.

argyrophyllus (Texas Silver Queen). Has Pkt. handsome silvery foliage and a profusion of small, elegant, single flowers; 4 ft. **79670** 5

cucumerifolius. Of pyramidal growth; small, bright orange, single flowers; 3 ft. **79680** 5

“ **Diadem**. Light citron-yellow with black center; large-flowered. **79690** 10

“ **Stella**. Handsome; large-flowered; primrose-yellow. **79700** 10

“ **Orion**. A very handsome variety, with petals twisted like those of the best Cactus dahlias; long, stiff stems; excellent for cutting. **79710** 10

“ **hybridus fl. pl.** A splendid mixture of double and semi-double sorts. **79720** 10

“ **Single Fine Mixed**. $\frac{1}{4}$ oz. 25c., oz. 75c. **79730** 10

SUNFLOWER—Continued Pkt.

Double California. Dark yellow; 5 ft. **79740** 5

“ **Dwarf**. Beautiful, Dahlia-like flowers, 3 in. across. **79750** 5

“ **Dwarf Variegated-leaves**. Foliage spotted with yellow; flowers bright yellow. Very fine. **79760** 5

“ **Globe-flowered**. Ball-shaped; blooms late; 3 ft. **79770** 5

“ **Green-centered**. Odd and attractive; 3 ft. **79780** 5

Primrose-colored. Graceful flowers of a lovely color; beautiful for cutting; 5 ft. **79810** 5

Sutton's New Red. Of freely branching habit, producing numerous well shaped, dark centered, brilliant flowers, banded with bright chestnut red, merging to yellow at tips of the petals. **79815** 10

SWAINSONA (gP). Valuable greenhouse plants of easiest culture; do best in sandy, peaty soil; continuously in bloom; Sweet-Pea-like flowers in sprays; 2 ft. Pkt.

Mixed Species. **79880** 10

SWEET PEAS (*Lathyrus odoratus*). See page 74.

SWEET SULTAN. See *Centaurea moschata*.

SWEET WILLIAM (*Dianthus Barbatus*). The

splendid old-fashioned hardy biennial, producing large heads of beautifully colored, sweet-scented flowers in abundance; easily grown, flowering the second year from seed; $1\frac{1}{2}$ ft.

Single Auricula-flowered oculatus marginatus (Hunt's Perfection). Various shades, with white eye and white bordered. **79920** 5

“ **Crimson**. **79930** 5

“ **Pink Beauty (roseus)**. Rosy chamois. **79940** 15

“ **Scarlet Beauty**. Brilliant scarlet; very fine. **79950** 15

“ **White**. **79960** 5

“ **Mixed**. **79970** 5

Double Auricula-flowered oculatus marginatus. Handsome flowers in large clusters. **79980** 10

“ **Crimson**. **79990** 10

“ **White**. **80000** 10

“ **Mixed**. **80010** 10

‡**TACSONIA manicata** (Scarlet Passion Vine) (hhP). A magnificent perennial climber, producing an abundance of large scarlet blossoms. Start the seed in pots, and transplant; 25 ft. **80060** 25
See, also, *Passiflora*.

TAGETES (hA). Pretty, dwarf-growing, single-flowering Marigolds; fine for beds and especially so for edgings.

lucida. Yellow; fragrant; good for cutting; Pkt. 1 ft. **80090** 10

signata pumila. Bright golden yellow; bushy habit; fine for edgings; 8 in. **80100** 10

See, also, *Marigolds*.

TASSEL FLOWER. See *Cacalia*.

TECOMA Smithii (gP). Splendid greenhouse shrub; winter blooming; fine for pots; large heads of innumerable flowers, lemon with orange; 6 ft. **80130** 25

†**THUNBERGIA** *alata*, Mixed. A Pkt. very pretty, rapid-growing, tender perennial climber that is usually grown as an annual. Prized for window-boxes, vases, hanging-baskets, trellises, etc.; 6 ft. 80160 10

TOAD FLAX. See *Linaria*.

TORENIA. Beautiful tender annuals that, started early in the Spring in heat, will bloom continuously all Summer until frost; fine for vases, baskets and the Summer garden; 10 in.

Fournieri. Sky-blue, with purple spots Pkt and yellow throat. 80190 25
 " **alba**, "White Wings." Pure white with yellow throat. 80200 25

" **Fine Mixed.** Very choice. 80210 25
Baillonii. Golden yellow, deep red throat. 80220 25

†**TRACHELIUM** *cæruleum* (hhP). An attractive late-flowering perennial suited to culture as an annual; pale blue flowers; good in garden or greenhouse; 1 ft. 80240 10

TRACHYMENE *cærulea* (*Didiscus*). An erect-growing, half-hardy annual; clear blue flowers; continuously in bloom. Very distinct in beds or borders; 1½ ft. 80260 10

†**TRICHOSANTHES** *colubrina* (Snake Gourd, or Serpent Cucumber). Rapid-growing, climbing, half-hardy annual, with slender fruit, often 3 ft. long, turning carmine when ripe; 10 ft. 80280 5
 See, also, *Cucumis* and *Gourds*.

TRIFOLIUM *suaveolens* (hA). An ornamental, trailing clover with purple flowers; very sweet-scented; makes pretty beds. 80300 5

TRITOMA (*Red-Hot-Poker Plant*). This splendid half-hardy perennial is also well known as Torch Lily; has gorgeous spikes of bloom; easily grown; should be largely planted. Fine in late Summer and Fall.

Uvaria grandiflora. Fiery orange flower-spikes, large and showy; 3 to 4 ft. 80330 10

TROLLIUS Mixed Hybrids (*Globe Flower*). Desirable hardy perennial with large, but-tercup-like blossoms; free-flowering through the early Summer; do well in any soil. Flowers vary from pale yellow to deep gold, bordering on vermilion; 1½ to 2 ft. 80360 10

TROPÆOLUM. See *Nasturtium*.

TROPÆOLUM *canariense.* See *Canary-Bird Flower*.

†**TROPÆOLUM** (gP). Showy climbing vines; bright-colored flowers; fine for culture in pots; 10 ft.

pentaphyllum. Greenish red flowers; Pkt. fine. 80390 15

†**TYDÆA** *hybrida grandiflora* (gP). Well-known and very popular greenhouse plants allied to *Gesneria* and *Achimenes*. Hybrids from a choice collection; 1 to 2 ft. 80430 50

†**VALERIANA** (*Valerian*). Very handsome hardy perennials that have been too much neglected; bloom all Summer. Fine for borders, wild gardens and rockwork; of easiest culture; 2 ft. Pkt.

alba. White. 80460 5
rubra. Red. 80470 5
Mixed. 80480 5



Tritoma

VENIDIUM *calendulaceum.* A graceful, Pkt. single-flowered, half-hardy annual; covered for several months with black-eyed golden blossoms, resembling those of the pot marigold. Fine for cutting; good in pots as well as garden; 2 ft. 80500 10

VENUS' LOOKING-GLASS

(*Specularia*). A pretty little hardy annual, blooming profusely in Spring and Summer, and desirable for edging flower-beds and borders; of easy culture; 9 in. Pkt.

Blue. 80530 5
Double Blue. Gives about 50 per cent of double flowers. 80540 5
White. 80550 5
Mixed. 80560 5
grandiflora, Mixed. Large-flowered. 80570 10

VENUS' NAVELWORT (*Cynoglossum linifolium*). An elegant hardy annual for beds or edgings; of easiest culture; glaucous green leaves and white flowers; blooms all Summer; 10 in. 80590 15

VERBASCUM *pannosum.* A stately and decorative hardy perennial, with large, white, woolly leaves and splendid spikes of sulphur-yellow flowers; fine for backgrounds; 4 to 5 ft. 80610 10



Verbena Hybrida

VERBENA (hhA). In rich soil, single plants of this pretty annual creeper will carpet a space 3 to 4 ft. in diameter. For beds, borders, mounds, window-boxes, etc., it is particularly fine, and is frequently used as an undergrowth to tall plants like Lilies. Plants raised from seed are cheaper, more vigorous and produce more flowers than those grown from cuttings. For early Spring bloom, sow under glass in February, for later flowers sow in March or April. Soak the seed a few hours in tepid water and sow in boxes filled with light, rich soil; cover one-fourth of an inch deep, press down firmly and water sparingly. When the seedlings are about an inch high, transplant into other boxes. Use a liberal amount of manure in the beds, and set out 10 to 15 in. apart each way in May in a sunny situation. The plants bloom from early Summer until frost.

hybrida auriculæflora.	Brilliantly colored	Pkt.
	flowers of fine size, each with a large, white eye.....	80630 10
" Black-Blue, White Eye	.....	80640 10
" candidissima.	Large trusses of purest white flowers.....	80650 10
" cærulea.	Bright blue in various shades.....	80660 10
" Defiance.	Intensely brilliant scarlet; fine for bedding.....	80670 10
" italica striata.	Brightly striped.	80680 10
" Scarlet.	Different shades...	80690 10
" Yellow.	Primrose-color...	80700 10
" Mixed.	¼ oz., 25c.....	80720 5
" Finest Mixed.	Extra choice.	80730 10
" Grandiflora, Helen Willmott.	Bright salmon-rose with white eye.....	80740 25
" Mammoth, Rose Queen.	Brilliant rose-colored flowers, 1 to 1¼ in. across when well grown, produced in magnificent large umbels.....	80750 25

VERBENA—Continued

		Pkt.
hybrida Mammoth,	Blue.....	80752 25
" "	Pink.....	80754 25
" "	Scarlet Defiance.	80756 25
" "	Striped.....	80757 25
" "	White.....	80758 25
" "	Mixed. Plants and flowers are unusually large; extremely floriferous, and borne in large heads.....	80760 10
" Improved Mammoth, Mixed Auricula-flowered.	Best of all.....	80770 25
erinoides.	Small, violet; heavy bloomer; pretty.....	80810 10
" alba.	Dazzling white; large; profuse bloomer; excellent.	80820 10
venosa.	Blue; fine for groups and for edgings.....	80830 10
citriodora (Lemon-scented Verbena).	An attractive greenhouse shrub, grown for the delightful citron scent of its light green leaves.....	80840 10

VERONICA (Speedwell), **Mixed Perennial Species.** Splendid, hardy border plants of the easiest culture; bear bright-colored flowers all Summer; 1 to 2 ft. 80890 10

†**VINCA** (Madagascar Periwinkle). (tP). Handsome, bushy bedding plants that flower luxuriantly and most profusely all Summer from seed sown in February or March in heat; fine also for pot culture in window garden or greenhouse. 1 to 1½ ft. Pkt.

rosea.	Red.....	80940 10
" alba.	White, with rose center; dainty flowers.....	80950 10
" alba pura.	Pure white; makes brilliant contrast with the dark green, shining foliage.....	80960 10
" Mixed		80970 10

VIOLET Sweet Scented (*Viola odorata*) (hhP). Much prized for Spring blooming. All the varieties have great beauty are very fragrant and quite hardy; 6 in. Violet seed takes a long time to germinate.

Blue		81000 10
The Czar.	Very large; dark blue...	81010 10
White		81020 10

†**VIOLA** **cornuta** (Tufted Pansies) (hhP). Splendid free-blooming plants for partially shaded situations; with a little Winter protection will be permanent for years; bloom continually all the season until frost; 6 in. Pkt

cornuta, Purple Queen		81040 10
" Mauve Queen		81050 10
" White Perfection		81060 10
" Mixed		81065 10
pedunculata (California Yellow Violet).		81070 25

VIRGINIAN STOCK (*Malcomia maritima*).

Early and very free-flowering, dwarf, hardy annuals of easy culture; bright blossoms; most effective for edgings or beds; 1 ft. Pkt.

- Crimson King.** Very fine. 81100 5
- Red.** 81110 5
- White.** 81120 5
- Mixed.** 81130 5

VISCARIA. Abundant-blooming, hardy annuals, flowering all Summer until frost; very effective for massing in beds and borders; easily grown; 1 ft. Pkt.

- elegans picta.** Rose and scarlet. . . 81150 5
- oculata.** Rose, with dark eye. . . . 81160 5
- “ **alba.** White. 81170 5
- “ **candida.** Pure white; fine. . 81180 10
- “ **cærulea.** Sky blue, dark center. . . 81190 5
- “ **Mixed.** Bright colors. . . . 81200 5

WALLFLOWER (*Cheiranthus Cheiri*). Well-known,

half-hardy perennials of delightful fragrance, bearing in Spring and early Summer long spikes of bright flowers. Start the seed early in the season in heat, protect by coldframes during the following Winter and plant out for bedding in Spring. Fine also for blooming in greenhouse; 2 ft.

SINGLE-FLOWERING VARIETIES—

- Eastern Queen.** Very distinct shade, bright chamois, changing to salmon red. Pkt. 81240 10
- Feltham Early.** Large; brown-red; fine. 81250 10
- Golden King.** Very large, golden yellow flower. 81260 10
- Linnæus.** Fine; white. 81265 10
- Rose Queen.** A lovely terra-cotta pink. 81270 10
- Ruby Gem.** Very rich ruby color. 81280 10
- Vesuvius.** New. Orange, scarlet and bronze. 81285 25
- White Dame.** Large, creamy white flowers of dwarf, compact habit. 81290 10
- Single-Flowering Dwarf Sorts Mixed.** 81300 10
- Fine Mixed.** Very showy mixture. 81320 5

ANNUAL, Mixed. This annual or extra-early flowering strain, if started early in heat, will bloom the same season; 1 to 1½ ft. 81340 15

DOUBLE-FLOWERING VARIETIES—

Double Tall Branching, Mixed. 2 ft. 81370 25

WHITLAVIA Easily grown, hardy annuals of compact habit;

excellent for beds or borders; bears in profusion all the season pretty, bell-shaped flowers; 1 ft.

- gloxinioides.** Blue, with white throat. Pkt. 81480 10
- grandiflora.** Blue. 81490 5
- “ **alba.** White. 81500 5

***WIGANDIA** (hhP). Imposing decorative plants with very large and beautifully veined leaves; prized for subtropical gardening and groups on lawns. Start the seeds very early in the season in heat to produce good plants for Summer beds; 6 ft. Pkt.

- caracasana.** Grand foliage. 81530 10
- Vigieri.** Very large leaved. 81540 10

XERANTHEMUM This well-known, hardy annual is

one of the oldest and prettiest of the “Everlasting” flowers, and in Winter bouquets retain their color and form for years. Fine for beds and borders; in bloom all the season until frost; 1½ to 2 ft. Pkt.

- Double Purple.** 81570 10
- “ **Rose.** 81580 10
- “ **White.** 81590 10
- “ **Mixed.** 81600 10

YUCCA filamentosa (Adam’s Needle).

One of the best Summer ornamental, hardy perennial plants, when both foliage and bloom are considered; elegant spikes of creamy white, fragrant flowers; broad, sword-like leaves; 5 to 6 ft. 81650 10

ZINNIA (*Youth and Old Age*). Few

flowers are so easily grown from seed, or bloom so abundantly and continuously, as this hardy annual. Sow the seed in the open ground early in Spring. From July until the first hard frost Zinnias are incomparably bright; the plants grow a foot or more in height and are covered with large, double



Wallflower

ZINNIAS—Continued

flowers. Fine for beds and borders; in fact, in any location.

TALL MAMMOTH FLOWERING DOUBLE.

A distinct and splendid class of this ever-popular flower, producing extra large, double blooms; 2½ ft. Pkt.

Crimson.....	81680	15
Flesh-Color.....	81690	15
Sulphur-Yellow.....	81700	15
Violet.....	81710	15
White.....	81720	15
Mixed.....	81730	15

TALL DOUBLE. For borders and groups; 2 ft.

Carmine.....	81760	5
Crimson.....	81770	5
Flesh-Color.....	81780	5
Lilac.....	81790	5
Purple.....	81800	5
Rose.....	81810	5
Scarlet.....	81820	5
Striped.....	81830	5
White.....	81840	5
Yellow, Sulphur.....	81850	5
" Golden.....	81860	5
Mixed.....	81890	5
" Extra Selected.....	81910	10



Zinnias, Tall Mammoth Mixed

DWARF DOUBLE. More compact and of neater habit than the tall varieties; 15 in. Pkt.

Bright Scarlet.....	81940	10
Crimson.....	81950	10
Purple.....	81960	10
Salmon.....	81970	10
White "Snowball".....	81980	10
Yellow, Golden.....	81990	10
Mixed.....	82020	5

DWARF DOUBLE—Continued

Tom Thumb, Mixed.....	82030	10
Lilliput, Scarlet Gem.....	82050	10
" White.....	82060	10
" Mixed.....	82070	10
Mixed Pompon.....	82090	10
Haageana, Double Mixed. 1½ ft.....	82110	10
Curled and Crested, Mixed. 2 ft.....	82130	10

MIXED ANNUAL FLOWER SEEDS

Bright-colored, Summer-flowering, easily grown hardy annuals in the greatest variety for sowing broadcast. Oz.

Mixed Tall.....	82300	25
Mixed Semi-Dwarf.....	82320	25
Mixed Annuals for Bees.....	82340	20
Mixed Annual Japanese or Paradise Mixture. A fine mixture of over 50 intermediate annuals in splendid diversity of colors, especially suited for small gardens, composed of early flowering and late varieties, flowers all Summer.....	82345	25

MIXED PERENNIAL FLOWER SEEDS

Tall Hardy Sorts, Mixed.....	82360	25
Dwarf Hardy Sorts, Mixed.....	82380	25

For Choice COLLECTIONS of FLOWER SEEDS, see page 12.

PALM SEEDS

	Pkt. 100 seeds		Pkt. 100 seeds
Chamærops elegans argen- tea.....	15 seeds, \$0 10	\$0 50	
excelsa.....	30 "	10 25	
Cocos australis.....	15 "	20 1 00	
campestris.....	15 "	20 1 00	
Corypha (Livistonia) aus- tralis (Cabbage Palm).....	10 "	10 75	
Dracæna australis.....	20 "	15 50	
indivisa.....	25 "	10 25	
Draco.....	30 "	25 50	
Kentia Belmoreana.....	15 "	25 1 25	
Canterburyana (Umbrella Palm).....	8 "	50	
Forsteriana.....	15 "	25 1 50	
Latania borbonica.....	25 seeds \$0 10	\$0 30	
Musa Ensete (Abyssinian Banana).....	15 "	25 1 50	
Pandanus utilis (Screw Pine).....	8 "	15 1 50	
Phoenix canariensis.....	15 "	10 40	
dactylifera (Date Palm).....	15 "	10 50	
reclinata.....	8 "	10 80	
rupicola.....	15 "	25 1 25	
tenuis.....	15 "	10 40	
Seaforthia elegans.....	8 "	10 75	

CYCAS REVOLUTA STEMS (SAGO PALM) per pound 15 cts.

We receive these throughout the year direct from Japan, in various sizes,

ORNAMENTAL GRASSES

The Ornamental Grasses are very attractive to use in mixed flower-beds or borders, and for grouping by themselves give fine effects. Many of them, if cut before they are entirely ripe, will be found very useful, when dried, in the formation of Winter bouquets, in connection with the "Everlastings."

Not less than one ounce of the cheaper sorts at ounce rate.

- ***AGROSTIS** (Cloud Grass) (hA). Very fine for bases and bouquets.
- nebulosa**. Very delicate and graceful; Pkt. 18 in. 82600 10
 - pulchella**. Good for bouquets; 1 ft. . 82610 10
- ***ARUNDO** (Great Reed) (hP). Well adapted for large clumps; stately and ornamental; 10 ft.
- Donax foliis variegatis**. Green leaves Pkt. striped with white. 82660 10
- AVENA sterilis** (Animated Oats) (hA). Drooping, curious and very graceful; 2 ft. 82680 5
- BRIZA** (Quaking Grass) (hA). Well-known, graceful species; very fine for bouquets; 1 to 1½ ft.
- geniculata** 82710 5
 - gracilis** 82720 5
 - maxima** 82730 5
- BRIZOPYRUM silicum** (hA). Dwarf species of Spike Grass; fine for edgings; 10 in. 82750 5
- BROMUS** (hA). Fine varieties for large Winter bouquets; 2 to 2½ ft. Pkt.
- brizæformis** oz. 25c. . 82770 5
 - macrostachyus** oz. 25c. . 82780 5
 - madritensis**. Very fine for dyeing. 82790 5
- CHLORIS barbatus vera** (hA). Very neat species; for groups, baskets or edgings; 1 ft. 82820 10
- CHRYSURUS cynosuroides** (hA). Pretty for edgings; silky plumes that become golden as they mature; 10 in. . . . 82840 5
- COIX Lacrymæ** (Job's Tears) (hA). Seed resembles a tear-drop; fine for massing; 2 to 3 ft. . . . oz. 15c., lb. 50c. . 82860 5
- ELEUSINE** (Crab, or Yard Grass) (hA). Highly interesting species. Pkt.
- barcinonensis**. 1 ft. 82900 5
 - coracana**. 2 to 3 ft. 82910 5
 - indica** (Wire Grass). 2 to 3 ft. . . . 82920 5
- ELYMUS giganteus** (hP). Splendid for groups; 5 ft. 82940 5
- ERAGROSTIS** (hA). Pretty Grasses growing a foot or more high, and characterized by their beautiful dancing spikelets; all are handsome for bouquets. Pkt.
- abyssinica**. 2 to 3 ft. 82960 5
 - amabilis**. 1 ft. 82970 5
 - elegans** (Love Grass). 1 ft. oz. 25c. . 82980 5
 - maxima**. 2 ft. 82990 10
- †**ERIANTHUS Ravennæ** (Plume Grass) (hP). Very stately and ornamental, fine, silvery plumes, splendid in lawn groups. Resembles closely the Pampas Grass; 6 to 8 ft. ¼ oz. 15c. . 83010 5
- ***EULALIA** (hP). Among the most beautiful and ornamental of the tall-growing Grasses; 4 to 6 ft.
- japonica**. Long, dark green leaves; fine Pkt. for groups. ¼ oz. 20c. . . 83030 10
 - " **zebrina** (Zebra Grass). The dark green leaves are barred with creamy white; variegations run across foliage. . 83040 10
- FESTUCA glauca** (Fescue Grass) (hP). Pretty, dwarf Grass; leaves silvery blue; fine for edgings; 1 ft. 83080 10
- GYMNOTHRIX**. Curious and ornamental; single specimens are of striking effect; 3 ft.
- japonica** (hA). Long, narrow leaves; bears Pkt. cylindrical spikes. 83130 10
 - latifolia** (hP). Very ornamental; bears nodding spikes. 83140 10
- ***GYNERIUM** (Pampas Grass) (hhP). Noblest of the tall-growing, ornamental Grasses. Bears magnificent plumes; needs protection in Winter; 4 to 6 ft.
- argenteum**. Long, silvery white plumes; Pkt. splendid. ¼ oz. 20c. . . 83160 10
 - " **roseum**. Rose-colored plumes. 83170 10
 - jubatum**. Silvery red plumes. . . . 83180 10
- HORDEUM jubatum** (Squirrel-tail Grass) (hA). Bushy panicles; very effective for bouquets; 1½ to 2 ft. 83210 5
- JOB'S TEARS**. See *Coix Lacrymæ*.
- LAGURUS ovatus** (Hare's-tail Grass) (hA). Small, silvery gray plumes; good in dried bouquets; 1 ft. oz. 25c. . 83270 5
- LASIAGROSTIS argentea** (hP). Beautiful, silvery white panicles; fine for Winter bouquets; 2 to 3 ft. 83290 5
- PANICUM sulcatum** (hP). Very showy; palm-like in form; 4 ft. 83340 10
- PENNISETUM** (hA). Very ornamental; fine for groups and bouquets.
- longistylum** (villosum). Graceful, green- Pkt. ish white plumes; good in beds; 2 ft. oz. 30c. . 83370 5
 - Rueppellianum**. Violet-purple plumes; fine for edging beds of tall plants like Cannas; 2 to 3 ft. . . . ¼ oz. 20c. . 83380 5
- POA amabilis** (hA). Very pretty, ornamental Grass for edgings and bouquet-work; 2 ft. 83400 5
- ***STIPA** (hP). Popular and graceful species; splendid for bouquets; 2 ft. Pkt.
- elegantissima**. Very pretty plumes. . 83460 10
 - pennata** (Feather Grass). Delicate, silvery white, feathery plumes; a favorite sort. ¼ oz. 25c. . 83470 10
- TRICHOLÆNA atropurpurea** (hA). A very pretty species; particularly good in dried bouquet work; 2 to 3 ft. . . . 83500 5

GLADIOLI

ALL EXTRA-SELECTED, LARGE BULBS, NO SECOND SIZE

If to be sent by mail, add postage at zone rates—10, 1 lb.; 100, 8 lbs.

Gladioli are very easily grown. Any good soil suits them. Plant the bulbs as soon as all danger from frost is past, about 3 inches deep and 7 or 8 inches apart. By planting at intervals up to the first of July, these fine flowers can be had in bloom all through the Summer and Fall—the later flowers being the best. About the end of October, when the leaves begin to wither, the bulbs should be taken up, dried in the open air, and then stored in a dry place, free from frost, for planting next Spring. It is a mistake to plant Gladioli without some suitable subject to hide the surrounding soil; to do this we suggest planting lower growing plants such as Saponaria calabrica, Nigella Miss Jekyll, Violas and Dwarf Godetias. Those marked with an asterisk (*) are used extensively for forcing.

DWARF GLADIOLI

Early flowering type of most exquisite tints and shades; fine for bedding.

* Cardinalis Ackermanni. Salmon-orange with white blotch.....	10	100	
	\$0 35	\$3 00	
" Blushing Bride. Beautiful ivory-white, with crimson flakes.....	30	2 50	
" Crimson Queen. Deep crimson.....	30	2 50	
" Peach Blossom. Beautiful rose.....	30	2 50	

* Cardinalis Queen of Holland. White with carmine blotch.....	10	100	
	\$0 35	\$3 00	
" Mixed	25	2 00	
* Colvillei rubra	35	3 00	
" alba, "THE BRIDE." White.....	30	2 50	
* Ramosus, Ne Plus Ultra. Crimson and white blotch.....	60	5 00	
" in Mixture	35	3 00	

THORBURN'S EXTRA-FINE MIXED HYBRIDS

(From our Trial Grounds)

Containing only finest named sorts in a wide range of colors and markings. 65 cts. per 10, \$4.50 per 100, \$40 per 1000.

PRIMULINUS Hybrids. Hybrids of a South African species, with many related species and choice garden varieties. Extremely vigorous and healthy growers, blooming in July and August. Grow 3 to 5 feet high, with long spikes or richly colored blooms, varying in color from clear yellow to crimson, the latter with large, soft orange or golden throats. 50 cts. per 10, \$4 per 100.

PRIMULINUS Type. 15 cts. each, \$1.40 per 10.

VARIOUS MIXED GLADIOLI

25 at 100 rate, 250 at 1000 rate.

Mixed Varieties of Red and Scarlet. A splendid assortment of fine quality; large flowers.....	10	100	1000
	\$0 25	\$2 00	\$18 00
" White Grounds, Extra. All extra large blooms...	35	3 00	28 00
" Striped and Variegated. Pleasing to the eye in the broadest sense. A charming lot.	35	3 00	28 00
" Pink and Rose. Colors vary from the most delicate pink to gaudy rose. Every one a vigorous grower.....	25	2 00	18 00



Thorburn's Extra-Fine Mixed Hybrid Gladioli

VARIOUS MIXED GLADIOLI—Continued

Mixed Yellow and Orange.			
No color shows up more charmingly, either singly or in contrast with the more vivid shades.	10	100	1000
	\$0 50	\$4 00	\$36 00
Gandavensis. Extra fine bulbs from the best varieties. A superb mixture of the various colors, in which no one color plays the predominating part. Very fine quality.	20	1 50	12 00
Goff's Hybrid Seedlings. This mixture is the well-known and distinct race resembling the Lemoine Hybrids, but showing greater diversity of colors in the flowers.	25	2 00	18 00
Lemoine's. Their remarkably bright, rich colors and odd orchid-like markings account, in a way, for their being popularly known as the Butterfly Gladioli. A most desirable sort.	25	2 00	18 00
Childsii. Grand flowers of large size, and beautifully colored.	30	2 50	20 00
Excelsior. Selected strain of Gandavensis seedlings, mostly light shades.	25	2 25	20 00
Nanceianus. Large, open-spreading flowers. Extra fine mixture.	25	2 25	20 00

FINE NAMED HYBRID GLADIOLI

Not less than 10 of a kind, 25 at 100 rate except where quoted otherwise

Albion. A beautiful white variety, with a tinge of carmine deep in the center.	10	100
	\$0 50	\$4 00
America. A beautiful flesh pink, tinged with lavender. Very vigorous with large, spreading blossoms on spikes 2 to 3 feet long.	30	2 50
Attraction. A deep, rich crimson, with a center that shows prominent above all.	40	3 50
Augusta. Pure white, with a lavender-tinted throat. A splendid sort.	30	2 50
Baron Hulot. (Lemoine.) Without a doubt the finest blue Gladiolus. It is a rich, deep color of an indigo shade.	30	2 50
Brenchleyensis. A fine old vermilion scarlet variety.	30	2 50
Canary-Bird. Finest yellow. 20c. each	1 50	12 00

FINE NAMED HYBRID GLADIOLI—Continued

Capt. C. B. Tanner. Extra large and fine. Brilliant crimson and white, freely mottled and inter-mixed.	10	100
	15c. each	\$1 00 \$9 00
*Ceres. Pure white, spotted with purplish rose.	40	3 50
Columbia. Light orange scarlet, freely blotched and penciled with bluish purple. Throat freely mottled.	50	4 50
Dawn. Rose pink; large flowers, tall spike.	20c. each	1 75 15 00
Electra. Bright scarlet, shaded rich rose pink with a light cream band and a central scarlet blotch on inner petal.	90	8 00



Augusta

FINE NAMED HYBRID GLADIOLI—Continued

Emma Thursby. White, striped and blotched.....	10	100	\$0 75	\$6 00
Empress of India. Deep, velvety maroon.....	35	3 00		
Eugene Scribe. Very large and wide; tender rose, blazed carmine red. Exceptionally fine for florists' use....	15c. each	1 00	8 00	
Faust. Deep purplish carmine, with white markings on lower petals....	40	3 50		
F. L. Oakley. Bright scarlet-tinted salmon, with pure white center. A very fine show variety.....	75	7 00		
George Paul. Deep crimson, stained yellow, spotted purple....	15c. each	1 00	8 00	
Glory of Brightwood. Scarlet, with lemon throat.....	75	7 00		
Glory of Holland. Very fine white, tinted rose.....	40	3 50		
Golden West. Orange red, overlaid with gold; yellow blotch with red spots on lower petals; fine.....	75	6 00		
Halley. Large flowers of a lovely salmon pink, lower segments blotched yellow, with carmine markings. An excellent variety; early.....	30	2 50		
Hohenzollern. Beautiful rosy orange flushed chamois, deep red blotch on lower petals.....	40	3 50		
Hollandia. Rosy nankeen; late....	40	3 50		
*Isaac Buchanan. Very fine yellow; large flowers.....	15c. each	1 00	8 00	
Jessie. (Lemoine.) Fine velvety red; long spike of flowers.....	40	3 50		
Kate. Blush white, with crimson-blotched throat.....	75	6 00		
Klondyke. Light yellow, maroon blotches in throat.....	40	3 50		
Kunderdi "Glory." Each lower petal is exquisitely ruffled and fluted. Stalks grow 4 to 5 feet tall, and produce from eight to twelve beautiful flowers, which expand wide open and are delicate cream pink with a neat crimson stripe through the center of each lower petal. 15c. each	1 00	8 00		
Lamarck. (Lemoine.) Salmon, with crimson and yellow spots..	15c. each	1 00	9 00	
L'Immaculee. Fine, pure white, slightly lilac-tinged center; very fine.....	15c. each	1 00	8 00	
Lily Lehman. Very fine, pure white, frilled edge, slightly tinted rose; large flower.....	50	4 00		
Loveliness. Apricot and primrose throat.....	15c. each	1 00	7 50	
Madame Lemoine. (Lemoine.) White, tinted lemon; large crimson blotch.....	75	6 00		
*Madame Moneret. Delicate rose; fine large spike.....	75	6 00		
*May. A lovely, pure white, finely flaked rosy crimson.....	60	5 50		
Mrs. Francis King. Light scarlet; very large flowers on a long spike..	40	3 50		
Mrs. Frank Pendleton. (Kunderdi.) Very large, graceful blossoms of lovely, bright pink, with rich carmine blotches on the lower petals; very beautiful.....	20c. each	1 50	13 00	
Nezinscott. Bright blood scarlet, with deep velvety crimson blotches and white mottlings.....	75	7 00		
Niagara. Soft primrose yellow, slightly tinged with rose pink in throat..	75	6 00		
Octoroon. A beautiful salmon pink..	20c. each	1 75	16 00	
Panama. Beautiful, deep rose self; large flowers, fine spike.....	40	3 50		
Peace. Large flower, white, with lilac blotch on lower petal.....	75	6 00		
*Pink Beauty. Bright carmine rose, with darker blotch on lower petals; early; fine cut-flower.....	40	3 50		
Pink Perfection. Soft, rosy pink, with white stripe in center of each petal; very beautiful.....	75	6 00		
Portland. Rosy red, penciled darker; mottled throat.....	15c. each	1 00	8 00	
Princes. Glowing crimson, with white flakes on lower petals.....	30	2 50		
Red Emperor. Enormous flowers, glowing orange scarlet red, tinted carmine.....	30c. each	2 50	22 00	
Rosella. (Lemoine.) Large, well-opened flowers of light rose, stained purple and white.....	20c. each	1 50	12 00	
Rosy Spray. White, beautifully sprayed rose; large and fine.....	75	6 00		
Salem. Fine salmon pink, with maroon blotches.....	75	7 00		
Scarsdale. (Lemoine.) Large, pink-lavender flowers shaded to dark rose.....	75	7 00		
Schwaben. Light yellow, deep red blotch.....	60	5 00		
Scribe. An enormous spike; flower tinted white, freely striped carmine. 15c. each	1 00	8 00		
*Shakespeare. White, suffused with carmine rose; large, rosy blotch.....	75	7 00		
Spot. White, freely spotted and mottled rose.....	15c. each	1 00	8 00	
Sunlight. Light crimson, with large, canary-yellow throat, mottled velvety maroon.....	75	7 00		
Superb. Enormous flower and spike, one of the very largest; pink, flaked and striped with salmon pink.....	75	7 00		
Taconic. Bright, lively pink, flecked and striped with shades of the same color.....	75	7 00		
Victory. Clear primrose yellow; large, open flower.....	50	4 50		
War. Blood red, shaded crimson black.....	50	4 50		
White Excelsior. (Syn., Reine d'Aujon) (Radium); excellent, pure white for cutting; very slightly tinted throat.....	35	3 00		
Willy Wigman. Delicate rose-tinted cream, with large carmine red blotch.....	40	3 50		

DAHLIAS, Double

5 of a kind at 10 rate

If ordered to be sent by parcel post, add postage at zone rates. Weight per 10 6 lbs. (including packing), for largest-size roots as offered below. Postage on single roots 5 cts. each.

CACTUS DAHLIAS

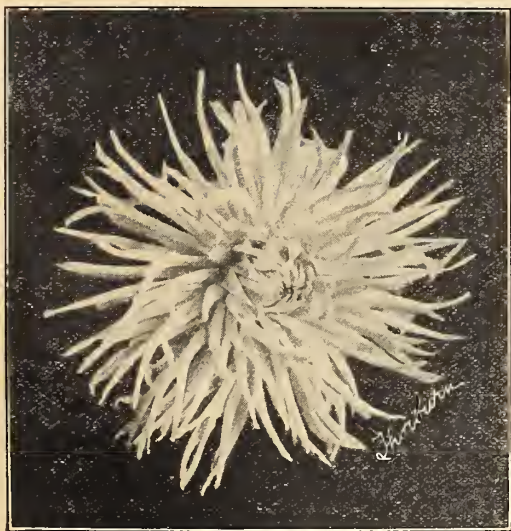
	Each	10
T. G. Baker. New. Bright yellow; very large, finely formed flowers held on long, stiff stems.....	\$0 20	\$1 80
Comrade. Fawn color at base, gradually shading to pink at tips.....	20	1 80
Exquisite. Shades of gold and amber..	20	1 80
Floradora. Beautiful, pure garnet; splendid form and a free bloomer....	20	1 80
General Buller. Rich velvety maroon tipped white. Sometimes called the Cactus "Frank Smith".....	20	1 80
Harbor Light. Immense size, with long, incurved petals, deep yellow, margined crimson; very effective.....	20	1 80
H. Shoemith. Brilliant vermilion scarlet; long, slender, quilled petals. The best bright red Cactus Dahlia.....	20	1 80
Juliet. Rosy pink; very large, with long incurved petals.....	20	1 80
Libelle. Dark purple, profuse bloomer..	20	1 80
Marjorie Castleton. Rosy pink, tinted lighter toward center and tips..	20	1 80
Miss D. Oliver. Soft primrose, shading to light yellow; daintily formed, and profuse bloomer.....	20	1 80
Perle Hilde. A delicate shell-pink sort of Kriemhilde.....	20	1 80
Pius X. A superb snow white; a strong grower and free bloomer.....	20	1 80
Standard Bearer. Bright, clear scarlet; very profuse.....	20	1 80
Sequoia. Large, golden bronze; fine form on long, stiff stems.....	30	2 50
Striped Kriemhilde. A striped sport of Kriemhilde; white, very prettily striped pink.....	25	2 25
The Pilot. Yellow, heavily tipped bright terra cotta.....	20	1 80



Decorative Dahlia

DECORATIVE DAHLIAS

	Each	10
Crimson Giant. Richest glowing crimson.....	\$0 25	\$2 25
Delice. Bright rose pink; entirely distinct; very beautiful in form.....	25	2 25
Jacque Rose. The best crimson for garden or cutting.....	15	1 25
Lyndhurst. Brightest vermilion. An early, free and continuous bloomer, with long, straight stems.....	15	1 25
Minnie McCullough. Soft, golden yellow, tipped bronze red. Especially effective under artificial light. Perfect form, on long, erect stems.....	20	1 80
Mrs. Charles Turner. Very large, clear canary yellow.....	20	1 80
Orange King. Richest shade of orange; very profuse bloomer.....	20	1 80
Professor Mansfield. A giant Decorative of the most unique coloring—a pleasing combination of yellow, red and white.....	20	1 80
Sylvia. Deep pink, tinting to flesh pink at the center. Long, stiff stems; large and perfect in form. Fine for cutting or garden.....	15	1 25



Cactus Dahlia

DAHLIAS—Continued

SHOW AND FANCY DAHLIAS

	Each	10
A. D. Livoni. Clear, bright pink, quilled petals. The best Show Dahlia....	\$0 20	\$1 80
Arabella. Soft primrose, shaded and tipped rose. One of the loveliest....	15	1 25
Emily May. Yellow, blotched bronzy red.....	20	1 80
Penelope. White, flaked rosy lake; beautiful and chaste.....	20	1 80
Queen Victoria. Rich golden yellow...	15	1 25
Red Hussar. Dazzling cardinal red; strong, vigorous grower and free bloomer, on long stems. Best red Show Dahlia for cutting.....	15	1 25

POMPON DAHLIAS

	Each	10
Allie Mourey. Light pink, tipped deep pink.....	\$0 20	\$1 80
Klein Domitea. Bright, golden terracotta; very profuse.....	20	1 80
Snowclad. The best, pure white Pompon.....	20	1 80
Sunshine. Richest vermilion scarlet. Splendid little flowers on long stems...	20	1 80

PAEONY-FLOWERED DAHLIAS

	Each	10
Big Chief. Enormous size; rich crimson, margined maroon. A very strong, vigorous plant, with fern-like foliage	\$0 20	\$1 80
Canary. Fine canary yellow; very large, on long, graceful stems; early.....	30	2 50
Geisha. The most striking color combination; golden yellow, changing to bright scarlet at the center of the petals and back to gold at the tips. Giant flowers on long, wiry stems.....	50	4 50
Mrs. Carter Lewis. Pale lilac, suffused with rose.....	30	2 50



Show Dahlias

CENTURY DAHLIAS

	Each	10
Cardinal Century. Very large; rich cardinal red. The best deep red....	\$0 20	\$1 80
Eckford Century. Probably the largest single Dahlia. Immense flowers of pure white, spotted pink and penciled crimson; produced on long, stiff stems....	20	1 80
Fringed 20th Century. The first of a new race, with cleft or serrated petals. A bright, rosy crimson, with lighter markings.....	20	1 80
Gigantea alba, Century. Snow white; of immense size and beautiful form. Produced in almost endless profusion on long, graceful stems.....	30	2 50
Rose-Pink Century. The largest and best deep pink. Enormous flowers on long, 3-ft. stems. A sure and continuous bloomer; vigorous plant.....	15	1 25
Wildfire Century. Century size, with the brilliant, rich scarlet of the old Wildfire. Acknowledged the best commercial scarlet.....	20	1 80

COLLARETTE DAHLIAS

Burg Siefurch. Large, dark velvety red, tipped violet. Light yellow collar....	30	2 50
Comte Nodler. Purple, with purple and white collar; very large.....	30	2 50
Madame Viger. Richest garnet. Collar petals white, faintly suffused carmine.....	30	2 50
Mons. L. Ferard. Rich rosy crimson, edged and marked white; very large collar of same color.....	30	2 50

SINGLE DAHLIAS

Edith Lemon. Lemon yellow, reflex amber; distinct and pleasing.....	20	1 80
Gaillardia. Golden yellow, with a broad band of red around the yellow center..	20	1 80
Praxitelles. Deep velvety maroon, each petal tipped white. The plants are dwarf, branching and profuse bloomers. The colors distinct and striking. This is undoubtedly the richest and most effective of all fancy single Dahlias...	45	4 00
St. George. The best clear canary yellow single Dahlias.....	45	4 00



Peony Flowered Dahlia

CANNAS, Dwarf, Large-Flowering French

Not less than 5 of a kind at 10 rate, 25 at 100 rate. If wanted by mail, add 15 cts. per 10 for postage.

Cannas do well in almost any kind of soil, but they well repay liberal treatment. For the best results they should be planted in good loam that has been well mixed with an abundant supply of well-rotted stable or other manure. The beds should be spaded 2 feet deep, or more, and the soil well pulverized. Water should be applied abundantly at all times, but good drainage is essential.

Cannas are most effective when planted in masses, either alone or in combination with *Salvia* (Scarlet Sage) and bordered with *Coleus* or other dwarf-growing bedding plants. They are also frequently used with some of the tall-growing ornamental grasses, with which striking combinations can often be secured. They do best in sunny situations, and should be set out about 2 feet apart each way.

ALL OF THE FOLLOWING ARE DORMANT ROOTS

GREEN-FOLIAGED CANNAS

PINK-FLOWERING

	Each	10	100
Annie Laurie. 3 ft. Clear, silvery pink, with cream throat.....	\$0 10	\$0 90	\$8 00
Louise. 5 ft. Soft rose pink, delicately dappled with red.....	10	90	8 00
Martha Washington. 3 ft. Bright rose pink. A splendid sort for massing.....	10	90	8 00
Mlle. Berat. 4 ft. Deep rose pink.....	10	90	8 00
Venus. 4 ft. This is one of the prettiest Cannas in existence. The flowers are a gay rosy pink, with a well defined border of creamy yellow; blooms all the time.....	10	90	8 00

RED-FLOWERING

Alphonse Bouvier. 5ft. Clear crimson flowers borne in large clusters.....	10	80	7 00
Black Prince. 5 ft. Deep velvety maroon, mahogany-colored stems.....	10	90	8 00
Crimson Bedder. 3½ ft. Without exception the most conspicuous and satisfactory red bedding Canna on the market.....	15	1 00	9 00
Duke of Marlboro. 4 ft. Dark rich, velvety crimson; fine shapely flowers.....	10	90	8 00
Jean Tissot. 5 ft. Brilliant vermilion, bright orange shadings.....	10	90	8 00
Louisiana. A bright crimson scarlet of the orchid-flowered type; grows 5 to 6 feet high, with immense spikes of bloom. Individual flower 5 inches across with correspondingly broad petals. Very showy in beds or as a center for more dwarfer varieties.....	10	90	8 00
Paul Marquant. 3½ ft. Salmon-red flowers in large clusters.....	10	90	8 00
Pennsylvania. 5 to 6 ft. Large, orchid-flowered scarlet, overlaid with orange.....	10	90	8 00
Tarrytown. 3½ ft. Grand crimson variety.....	15	1 00	9 00

YELLOW-FLOWERING

Austria. 4 ft. Bright yellow, with crimson in the throat; orchid-flowered.....	10	90	8 00
Burbank. 4½ ft. Canary yellow, with throat spotted crimson.....	10	90	8 00
Florence Vaughan. 4 ft. Yellow, with bright red spots.....	10	90	8 00
Indiana. 6 ft. Orchid-flowered sorts, with rich, golden orange flowers, often 7 inches across.....	10	90	8 00
Richard Wallace. 4 ft. Flowers large; color pure yellow. Fine for bedding.....	15	1 25	10 00

VARIEGATED-FLOWERING

Allemania. 5 ft. Orchid flowering, bright scarlet, with broad, yellow border, beautifully mottled and variegated.....	10	90	8 00
Gladioflora. 3½ ft. Gladiolus-like, crimson flower edged with gold.....	15	1 00	9 00
Italia. 5 ft. Orchid-flowering type; brilliant red, bordered yellow.....	10	90	8 00
Mad. Crozy. 3½ ft. Vermilion, with gold border; very pretty.....	10	90	8 00

BRONZE-FOLIAGED CANNAS

RED- AND YELLOW-FLOWERING

Brandywine. 3½ ft. Flowers red. Splendid for mass planting.....	10	90	8 00
David Harum. 3 ft. Large-sized flowers. Bright vermilion scarlet, dotted with crimson spots.....	10	90	8 00
Evolution. 4 ft. Rich pink, with a golden tint.....	10	80	7 00
Grand Rogue. 6 to 8 ft. Handsome, crinkly leaves of darkest bronze; flowers red..	10	90	8 00
King Humbert. 4 ft. Bears immense, brilliant orange-scarlet flowers streaked with crimson, in gigantic trusses. A massive, sturdy grower, of stately habit.....	15	1 25	10 00
Mount Etna. 3 ft. Leaves of rich bronze; large, crimson flowers.....	10	90	8 00
Shenandoah. 4 ft. Flowers beautiful, rosy pink, borne in large clusters. The foliage is very beautiful, being veined and tinted, having a tropical appearance.....	10	90	8 00
Wyoming. 7 ft. Immense umbels of massive orange flowers; bronze-purple foliage. A splendid bedder.....	10	80	7 00

PAEONIES

If to be sent by mail, add postage at zone rates

Double Pæonies are too well known to require description. Their present popularity is due to the great improvement in them in recent years, their easy culture, the handsome appearance of the plant, and the brilliant and striking effect of their massive, finely formed and richly colored flowers. The attention given to them in Europe and in America has resulted in the production of many notably fine new varieties. Among hardy, herbaceous perennials, the Chinese Pæonies rank about first for lawn or flower-border, or shrubbery decoration.

Our assortment includes some of the best and most distinct sorts, new and old. *There are many kinds, including varieties showing but trifling variations, which we omit.*

HERBACEOUS CHINESE PAEONIES

Mailing rate 1 lb. each

Agida. Violet rosy, half double flowers.....	Each	10
	\$0 35	\$3 00
Alba plena. Pure white; fragrant ..	35	3 00
Beaute Francaise. Rose and carmine.....	50	4 50
Boule de Neige. Sulphury white; center petals with rosy borders	50	4 50
Charlemagne. Creamy white, center lilac and chamois.....	50	4 50
Comte de Niepperg. Bright carmine; early.....	60	5 50
Cytherie. (Calot.) Flesh color, nearly white, carmine-spotted.....	50	4 50

Delachei. Amaranth purple red; fragrant.....	Each	10
	\$0 50	\$4 50
Edulis superba. Bright rosy pink...	50	4 50
Faust. Light rose.....	50	4 50
Festiva maxima. White.....	50	4 50
Humei carnea. Rose, passing to white.....	50	4 50
Jeanne d'Arc. Rose, sulphur and rosy white center.....	50	4 50
Jules Calot. Pink, center rose.....	50	4 50
Louis Van Houtte. Cherry color, with purplish reflection.....	50	4 50
Madame de Verneville. Silvery white; extra fine.....	50	4 50
Magnifica. Tender rosy, center creamy white.....	50	4 50
Meissonier. Purplish red.....	50	4 50
Modeste Guerin. Very bright pink.	50	4 50
Monsieur Krelage. Wine color....	60	5 50
President Roosevelt. Carmine....	60	5 50
Queen Perfection. Yellowish white, center yellow.....	50	4 50
Queen Victoria. Rose; dark rose center.....	50	4 50
Rubra Triumphans. Carmine....	50	4 50
Double, Mixed, White.....	20	1 80
" " Crimson	20	1 80
" " Rose	20	1 80
" " Pink	20	1 80
" " Carmine	20	1 80



Paeony Chinensis

Japanese Tree Paeonies

(Pæonia arborea)

Mailing rate 2 lbs. each

These are very beautiful and free flowering, and bloom two or three weeks earlier than the herbaceous sorts. We are importing an assortment of eight fine named varieties. State color wanted and we will make fine selection. Each \$1.50.

Paeonia Officinalis

Mailing rate 2 lbs. each

Anemonæflora. Large; crimson; single Anemone-flower shape.....	Each	10
	\$0 50	\$4 50
Atro-rubra plena. Dark red.....	20	1 80
Mutabilis plena. Tender rose; passing to white; double.....	30	2 50
Rosea plena. Pink.....	50	4 50
Tenuifolia, Single-flowering. Rich crimson; narrow leaved, feathery foliage.....	35	3 00
Single-flowering. Mixed.....	60	5 50

LILIES

If to be sent by mail, add postage at zone rates

Lilies are easily grown and require little care. They do best in a light, well drained soil. Some peat or leafmold may be used to advantage. They also prefer partial shade, and the taller sorts must have protection from high winds. *L. auratum* cannot bear manure, but thrives in ordinary light soil.

LILIUM HARRISII (Bermuda Easter Lily)

The large, handsome, pure white, trumpet-shaped flowers are very sweet-scented and of great substance, lasting a long time after cutting. They are easily grown and can be forced into flower in a remarkably short time. They require rich soil but without manure.

	Each	10	100
5 to 7 in. circum.	\$0 10	\$0 75	\$6 00
7 to 9 in. circum.	20	1 50	12 00
9 to 11 in. circum.	35	3 00	25 00

LILIUM LONGIFLORUM (White Trumpet Lily)

This is among the most beautiful and valuable of garden Lilies. It grows from 1 to 4 feet high, and bears many trumpet-shaped, sweetly scented, waxy white flowers. A well-drained, light loam enriched with leafmold suits it best.

	Each	10	100
7 to 9 in. circum., 3 lbs.			
10.....	\$0 10	\$0 75	\$6 00
9 to 10 in. circum., 4 lbs.			
10.....	15	1 25	10 00

Formosum. Very large, white flowers. Grows 2½ to 4 ft. high.

7 to 9 in. circum., 3 lbs.			
10.....	15	1 25	10 00
9 to 11 in. circum., 5 lbs.			
10.....	20	1 75	15 00

Multiflorum.

7 to 9 in. circum., 3 lbs.			
10.....	15	1 25	10 00
9 to 10 in. circum., 4 lbs.			
10.....	20	1 75	15 00

Multiflorum giganteum.

6 to 8 in. circum., 2 lbs.			
10.....	10	75	6 00
7 to 9 in. circum., 3 lbs.			
10.....	15	1 25	10 00
9 to 10 in. circum., 4 lbs.			
10.....	25	2 00	15 00

BEAUTIFUL JAPAN LILIES

We import our supply direct from Japan every year. Every garden should have some of them.

Auratum (Gold-banded Lily).

The grandest of all hardy Lilies; 3 to 6 feet high; flowers white, spotted maroon, having a bright yellow band through the center of each petal.

	Each	10	100
8 to 9 in. circum. Mailing rate 3 lbs. 10.....	\$0 15	\$1 00	\$8 00
9 to 11 in. circum., 5 lbs. 10.....	20	1 50	12 00
11 to 13 in. circum. Mailing rate 8 lbs. 10..	35	3 00	25 00
13 to 15 in. circum.	50	4 50	35 00

Auratum pictum. Flowers beautifully spotted crimson.

30	2 50	20 00
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BEAUTIFUL JAPAN LILIES—Continued

Auratum rubro-vittatum.

Enormous flowers, white, beautifully spotted, with a deep crimson stripe through each petal; very fragrant.

4 lbs. 10.....	\$0 40	\$3 50	\$30 00
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Auratum platyphyllum

(Improved Auratum). Flowers are similar in color to the Auratum, with much broader petals, spots more heavily marked and very beautiful.

30	2 50
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Speciosum album Krætzleri. Pure white, large flowers; 2 to 4 ft. high.

7 to 9 in. circum., 4 lbs.

10.....	20	1 50	12 00
8 to 9 in. circum.	25	2 00	18 00
9 to 11 in. circum., 5 lbs. 10.....	30	2 50	20 00

Speciosum rubrum. White, shaded rose, and spotted red.

7 to 9 in. circum., 4 lbs.

10.....	15	1 00	8 00
9 to 11 in. circum., 5 lbs. 10.....	25	2 00	18 00

Speciosum rubrum Melpomene. Dark crimson spotted flowers; 2 to 4 feet high, and blooms profusely.

11 to 13 in. circum., 7 lbs.

10.....	30	2 50	20 00
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Lilium auratum

BEAUTIFUL JAPAN LILIES—Continued

Batemanni. Unspotted, bright apricot flowers; beautiful variety. 3 to 4 feet high. 1 lb. 10.	Each	10
	\$0 20	\$1 50
Elegans Incomparable. Deep red, spotted black.	20	1 50
Krameri. White, slightly tinged red.	30	2 50
Leichtlinii. Canary yellow, with crimson spots. 2 to 3 feet high. ...	30	2 50

VARIOUS LILIES

Bloomerianum. Orange, spotted dark maroon, spots circled with crimson. 1 lb. 10.	40	3 50
Bolanderi. Bell shaped, deep crimson flowers, dotted with purple. Grows 1 to 3 feet high. Rare. 1 lb. 10.	60	5 50
Brownii. Flowers of immense size; inside creamy white, outside shaded chocolate purple. 2 lbs. 10.	40	3 50
Canadense (Meadow Lily). Drooping, yellow flowers, spotted red; 1½ to 3 ft.	15	1 00
Canadense rubrum. Red flowers. .	15	1 00
Colchicum (<i>Monadelphum</i>). Citron, black spots; a splendid Lily; 2 feet high. 1 lb. 10.	40	3 50
Columbianum (Oregon Lily). Orange flowers, dotted maroon; fragrant. 1 lb. 10.	45	4 00
Croceum. Orange, with purple spots; upright flowers. 2 lbs. 10.	25	2 00
Excelsum (<i>Testaceum</i>). Lovely cream colored flowers, tinged with apricot; very fragrant; 5 feet high. 3 lbs. 10. .	60	5 50
Giganteum. Grows 6 to 10 feet high, bearing many large, funnel-shaped flowers 5 to 6 inches long; white, with purple throat. Extra large bulbs. 2 lbs. 10.	3 00	



Lilium Speciosum, Superbum and Tigrinum

VARIOUS LILIES—Continued

Henryi (Orange Yellow Speciosum). Very tall growing variety; deep orange-yellow flowers. 3 lbs. 10.	Each	10
	\$0 50	\$4 50
Kelloggii. Slender stems with from 3 to 15 flowers with pink revolute petals; fragrant; 3 to 4 feet. 8 oz. 10.	60	5 50
Magnificum (Humboldtii). Bright orange red, with dark spots. 1 lb. 10.	60	5 50
Martagon. Purple; 2 to 3 feet. 8 oz. 10.	25	2 00
Parryi. Large, handsome, pale yellow flowers; very rare. 8 oz. 10.	75	7 00
Pardalinum. Large, showy flowers; richly colored and spotted. 1 lb. 10.	25	2 00
Parviflorum. Small flowers; bright orange, spotted with purplish dots. .	35	3 00
Parvum. Orange yellow, spotted purple.	50	4 50
luteum. Clear yellow flowers.	45	4 00
Philadelphicum. Bright orange red, with black spots; 2 feet high. 8 oz. 10.	15	1 00
Superbum (Turk's Cap Lily). Orange red, spotted; 4 feet.	15	1 00
Tenuifolium (Siberian Coral Lily). Rich scarlet; 1½ feet. 8 oz. 10.	20	1 50
Thompsonianum. Rose.	40	3 50
Thunbergianum biligulatum.	20	1 50
Kikak. Apricot yellow, spotted black.	20	1 50
Prince of Orange. Orange yellow; 1 foot.	25	2 00
Van Houttei.	40	3 50
Tigrinum splendens (Tiger Lily). Rich scarlet, black spots. 2 lbs. 10. Per 100, \$8.	15	1 00
Tigrinum fl. pl. (Double Tiger Lily). Orange red, black spots. 2 lbs. 10. Per 100, \$9.	15	1 00
Umbellatum erectum. Red and orange. 4 lbs. 10.	20	1 50
grandiflorum. Orange. 3 lbs. 10.	20	1 50
Mixed. 3 lbs. 10.	15	1 00
Wallacei. Orange red, maroon spots; late. 8 oz. 10.	30	2 50
Washingtonianum. Stately habit; large trumpet-shaped flowers, pure white, tinged purple; fragrant; 4 to 7 ft. 2 lbs. 10.	60	5 00

LILY-OF-THE-VALLEY

If ordered sent by mail, add postage at zone rates.

Clumps. Fine, large clumps, with many flowering pips on each. Fine for planting outside in shaded positions and for naturalizing by the side of streams or wooded walks. 3 lbs. each, 30 cts. each, \$2.50 per 10, \$20 per 100.

Pips for Forcing. \$1.00 per bundle of 25, \$3.00 per 100, \$25.00 per 1,000. 2 lbs. each bundle of 25.

Berlin and Hamburg Cold-Storage Pips. From cold storage; the very highest quality. Price on application.

JAPAN IRIS (Iris Kaempferi)

If ordered sent by mail, add postage at zone rates.

SUPERB COLLECTION OF LARGE-FLOWERED SORTS

We are importing from Japan a large supply of the following twenty of the best of these magnificent Irises, which are remarkable for the beauty of their colorings and stateliness of habit. Some of them send up ten to twelve spikes, 3 feet high, each bearing two to four enormous blossoms, 8 to 10 inches across. They are most valuable for cut-flowers and table decoration—as handsome as Orchids. Supply water liberally when growing. Cut in the early morning or after sunset. *The descriptions given are those furnished us by the growers in Japan.*

30 cts. each, \$2.50 per 10, \$20 per 100. The following may be ordered by number; mailing rate 1 lb. each

13 **Boteki-no-Koe.** Pure white, heavily veined lavender, with pale primrose blotches; standard wine color. Three large petals. Striking.

26 **Date-dogu.** Claret red, yellow blotches. Three petals.

89 **Fuyoho.** Large; pure white, yellow blotches.

31 **Gei-Sho-Ui.** Claret red, veined white; standards shaded lavender, darker edges, yellow blotches.

4 **Ho-o-jo (Ho-o-castle).** Ruby crimson, primrose blotches; standards white and lavender.

37 **Katsuraotoko.** White, veined lavender; standards white, suffused with lavender, darker edges. Six petals.

15 **Momiji-no-Taki.** Ruby red, yellow blotches; standards white, spotted toward edges pale wine color. Six petals.

30 **Noboro-Ryu.** Intense Tyrian blue, with yellow blotches; standards white, edged violet.

9 **Ran.** Royal purple, edged lavender, with large primrose blotches; standards wine-red, white at base. Six large petals.

34 **Sassa-no-Koe.** White, veined wine red and blotched yellow; standards lavender. Three petals.

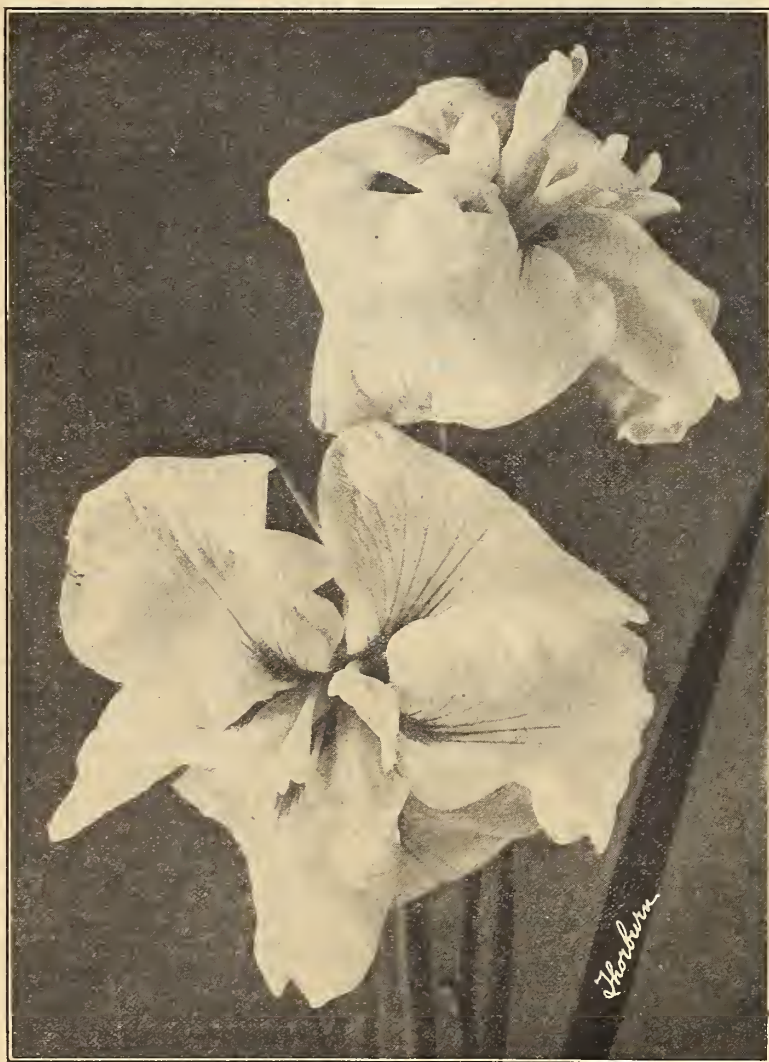
20 **Senjo-To.** Light wine color, spotted and shaded to dark red, suffused with white, yellow blotches.

40 **Shiguremoniji.** Blush pink, darker toward edges, splashed wine red; primrose blotches. Three petals.

21 **Shikainami.** Light blue, to dark blue edges, white veined, yellow blotches. Very handsome. Six petals.

6 **Shippo (Cloisonné).** Rich Tyrian blue, edged purple and veined white, yellow blotches.

14 **Shiraga.** Deep purple, heavily veined white; standards lavender, yellow blotches. Six large petals.



Japan Iris

JAPAN IRIS—Continued

- 17 **Suibijin.** Claret red, darker toward edges; standards white veined, and stigmas wine color. Three petals.
- 44 **Ujigawa.** Rich, vinous purple; standards blush pink; stigmas lavender, canary-yellow blotches. Three immense petals.
- 50 **Ushio-no-Iro.** Violet, veined white; standards white, edged sky blue, yellow blotches. Seven or eight petals.
- 7 **Yamato-Nishiki.** Pale lavender, blotched and flaked dark purple, large primrose blotches. Three petals.
- 8 **Yodokuruma.** Pale wine color, veined darker; large orange blotches; standards very erect. Three petals.

GERMAN IRIS (Iris Germanica)

Will thrive in almost any good garden soil, except one that is wet.

Fine Mixed. 75 cts. per 10, \$6 per 100. Mailing rate, 6 oz. 10, 3 lbs. 100.

VARIOUS IRIS

- Alata** (The Scorpion Iris). Sweet-scented, sky-blue flowers; also fine for pots.

10	100
\$0 75	\$6 00
- Cristata.** A native species 3 inches high; amethyst blue.

40	3 00
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- Florentina alba.** Beautiful, satiny white flowers.

40	3 00
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AMARYLLIS

If to be sent by mail, add postage at zone rates

The Amaryllis produces, under the simplest conditions, one to three spikes 2 or more feet high, crowned with from two to six large and beautiful, trumpet-shaped blooms lasting long in good condition. They should be planted as soon as received, in pots an inch or so larger than the diameter of the bulb.

The most suitable soil is good loam, with one-fourth part of leafmold or pulverized manure, and some sand. Good drainage is very important. The growing season is from early Spring until September. Manure-water during this time is essential.

- Belladonna major.** Violet and white; in large umbels; fragrant.

4 lbs. Each	10
10.....	\$0 25 \$2 00
- “ **speciosa purpurea.**..... 75 7 00
- Empress of India Seedlings.** Brill-

- liant scarlet with white stripes; Each

10	
large flowers. 4 lbs. 10.....	\$0 75 \$7 00
- Johnsoni** (Spice Lily). Large flowers; crimson, striped white. Large bulbs.

50	4 50
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- Vallota purpurea.**..... 25 2 00

ANEMONE, or WINDFLOWER

Very ornamental, hardy perennials, producing beautifully colored flowers in Spring and Summer. They do best in rich soil and in a sheltered and well drained position.

Mailing rate 6 oz. 10, 3 lbs. 100

CORONARIA or POPPY-FLOWERED ANEMONE

- Caen, Mixed** (Giant French or Poppy-flowered Anemone). Finest colors.

10	100
\$0 25	\$2 00
- Chrysanthemiflora Perle Angevine.** Pure white; very beautiful, full double white flowers of Chrysanthemum type.

15c. each	1 00	8 00
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- Blue, Double, Mixed.**..... 30 2 50
- “ **Single, Mixed.**..... 25 2 00
- His Excellency.** A beautiful, large-flowering Poppy Anemone; a deep scarlet shade, thick, strong petals and long stems.

75	7 00
----	------
- King of the Blues. Double.**..... 35 3 00

- King of the Scarlets. Double.**...

10	100
\$0 35	\$3 00
- Scarlet, Feu Superbe.** Bright scarlet; double.

35	3 00
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- Scarlet, Double, Mixed.**..... 30 2 50
- “ **Single, Mixed.**..... 25 2 00
- St. Brigid.** Semi-double; gracefully incurved flowers.

35	3 00
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- White, Ceres.** Double; tinted rose.

30	2 50
----	------
- “ **The Bride.** Single; pure white.

25	2 00
----	------
- Double.** Mixed colors.

25	2 00
----	------
- Single.** Mixed colors.

20	1 50
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ANEMONE SPECIES

Less quantities than quoted, 10 cts. each

- Apennina, Blue.** Early. Charming, clear blue, star-shaped flowers; fine for naturalizing.

10	100
\$0 30	\$2 50
- “ **White.**..... 30 2 50
- Fulgens.** Single, scarlet flowers very early in Spring.

50	4 00
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- Japonica alba.** Large, pure white; invaluable for cutting.

50	4 00
----	------
- “ **Queen Charlotte.** Semi-double; pink.

75	7 00
----	------
- “ **rosea.** Large; rosy carmine.

50	4 00
----	------
- “ **rubra.** Rosy crimson.

75	7 00
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- “ **Whirlwind.** Large, semi-double, pure white. Splendid for cut-flowers.

75	7 00
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- Sylvestris** (Snowdrop Windflower). Beautiful, pure white.

75	7 00
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BEGONIAS

Tuberous-Rooted

Five of a kind at 10 rate, 25 of a kind at 100 rate

Mailing rate 1 lb. 10, 7 lbs. 100

Splendid pot plants for the house or for bedding. For bedding they should be started in hotbed in March and April. The hollow end of the bulb should be uppermost and but slightly covered. Water sparingly until the plants are growing.

	10	100
Single, Scarlet.....	\$0 75	\$7 00
“ Rose.....	75	7 00
“ White.....	75	7 00
“ Yellow.....	75	7 00
Double, White.....	1 00	8 00
“ Yellow.....	1 00	8 00
“ Rose.....	1 00	8 00
“ Crimson.....	1 00	8 00

Double and Single, all colors mixed, 10c. each, 90c. per 10.

BEGONIA CRISPA (Single Fringed Begonias). These comparatively new Begonias have beautifully shaped, gracefully fringed and crested flowers, borne above the foliage on long and erect stems. An exceedingly fine strain. **RED, ROSE, WHITE, YELLOW** and **SALMON**. \$1.25 per 10, \$10 per 100.



Begonia Crispa

RED, ROSE, WHITE, YELLOW and **SALMON**. \$1.25 per 10, \$10 per 100.

CRINUMS

The most suitable soil is a compost of turfy loam, cow manure and sand. They should be grown in large pots or tubs, about three-fourths of the bulbs being out of the soil. In late Fall remove to a cool house and allow to rest till new leaves begin to appear in February. If placed outside when warm weather begins, they will flower through the Summer, making splendid lawn or veranda plants.

Amabile, Giant Pink. Extra large; bright pink, with white stripe; splendid flower. Each Enormous bulb. Mailing rate 11 lbs.\$4 00

Kirki. Large umbels of beautiful, pure white flowers, with purple stripe in center of each petal; very fine. Mailing rate 1 lb. \$2 for 10... 25

Powellii. Produces long stems, bearing at the top five to eight large, dark rose, bell-shaped flowers, 3 to 4 inches long, of great beauty in form and color. 2 lb. rate.....\$0 30 \$2 50

Powellii album. Pure white; very beautiful sort..... 60 5 00

GLOXINIAS

Mailing rate 1 lb. 10, 7 lbs. 100

Beautiful greenhouse plants, remarkable for the intensity and variety of their colorings, and the exquisite manner in which they are often blotched, mottled, penciled and blended. They thrive best in a soil composed of leaf-mold and peat, in equal parts, with a little sand added. When growing give plenty of water, but it should always be tepid.

	Each	10	100
Crassifolia erecta, Red....	\$0 15	\$1 25	\$10 00
“ “ Spotted.	15	1 25	10 00

	Each	10	100
Crassifolia erecta, White..	\$0 15	\$1 25	\$10 00
“ “ Blue....	15	1 25	10 00

MONTBRETIAS

Treat same as Gladioli

Mailing rate 6 oz. 10, 2 lbs. 100

Summer-flowering, bulbous plants that are becoming more popular every year. They should be planted in groups. Ordinary garden soil and a sunny position suit them.

Crocsmæflora (type). Fine scarlet and yellow.....	10	100	\$0 20	\$1 50
“ aurantiaca . Deep golden yellow; fine spike.....			35	2 00
“ Bouquet Parfait . Large, bright vermilion flowers, with deep yellow centers.....			25	2 00
“ Etoile de Feu . Bright vermilion, with deep yellow center; large flowers.....			25	2 00
“ Germania . Large, orange scarlet; very beautiful.....			50	4 00
“ Golden Sheaf . Bright yellow.....			25	2 00
“ Meteor . Yellow inside, deep red outside.....			25	2 00
“ Pluie d’Or . Golden yellow; extra.....			25	2 00
“ Talisman . Purple vermilion.....			25	2 00

Crocsmæflora speciosa . Copper, with yellow disc in the center.....	10	100	\$0 25	\$2 00
“ Tigridie . Orange-yellow throat, maculated brown.....			25	2 00
“ Mixed . All sorts..			20	1 50

TIGRIDIAS (Ready in March)

Add 5 cts. per 10. for postage

These very handsome, Summer-flowering bulbs should be planted in the Spring. They will flower profusely all Summer. The plants grow about 2 feet high, with large and finely colored flowers.

Pavonia alba immaculata . Pure white, unspotted.....	10	100	\$0 50	\$4 00
“ canariensis . Very handsome; light yellow, with brown spots.....			35	3 00
“ conchiflora . Bright yellow			50	4 00
“ lutea immaculata . Pure yellow; handsome and striking.....			50	4 00
“ Red . Distinct from <i>Pavonia speciosa</i>			35	3 00
“ speciosa . Scarlet.....			40	3 50



Tigridia Pavonia conchiflora

HARDY PHLOX

(Decussata)

Mailing rate 4 lbs. 10.

A flower of more than usual beauty that will succeed in almost any kind of soil or climate. May be planted in the Spring or Fall. Each 10

Astier Rehn . Purple, white center..	\$0 25	\$2 00
Aquillon, Carmine	25	2 00
Boule de Feu . Dark carmine; extra fine.....	25	2 00
Coquelicot . Bright, fiery red, with a center of beautiful rose.....	25	2 00
Eclairer . Beautiful rose color, with a band a shade lighter running around the eye.....	25	2 00
Falcon De Neige . Pure white.....	25	2 00
Flambeau . Brilliant red, with eye of still darker color.....	25	2 00
Martha . Wine color.....	25	2 00
Pantheon . A delightful salmon rose, with a pale border running around the eye.....	25	2 00
Pecheur d’Island . Fiery red, with white center.....	25	2 00
Suffruticosa, Snowdown . Ever-blooming; beautiful, white form; dwarf-growing.....	25	2 00

Each sort, \$18 per 100

MISCELLANEOUS BULBS AND ROOTS

If ordered sent by mail, add postage at zone rates according to weight indicated

	10	100	Each	10	100
ACHIMENES, Mixed. Lovely greenhouse pot-plants.....	\$0 50	\$4 00			
ALSTROMERIA aurea (aurantiaca). Orange yellow, spotted black. 2 lbs. 10.....	40	3 00			
brasiliensis. Deep red, with black spots. 2 lbs. 10.....	60	5 00			
ANOMATHECA cruenta. Crimson flowers; dwarf habit; fine for Window garden. 2 lbs. 100.....	15	1 25			
ANTHERICUM liliago. 1 lb. 10.....	60	5 00			
lilium majus.	50	4 00			
Antholyza, Mixed. Like Gladioli. Take up in Fall.....	50	4 50			
APIOS tuberosa. Hardy climber, with clusters of fragrant purple flowers. 1 lb. 10.....	40	3 00			
ARUM Dracuncul. 5 lbs. Each 10.....	\$0 15	1 00			
cornutum (Red Calla). 5 lbs. 10.....	20	1 50			
crinitum. 3 lbs. 10.....	30	2 50			
italicum (Dragon Flower). Creamy white. 1 lb. 10.....	20	1 50			
maculatum. 1 lb. 10.....	15	1 00			
palæstinum sanctum (Black Calla). 2 lbs. 10.....	30	2 50			
BRODIÆA. See our Bulb Catalogue for various sorts.....					
CALADIUM esculentum. Average mailing rate 2 lbs. 9 to 11 in. circum.....	20	1 50	10 00		
11 to 12 in. circum.....	25	1 75	15 00		
12 in. circum. and upwards.....	25	3 00	25 00		
CALLA Æthiopica (White Calla, or Lily-of-the-Nile). Large, white, trumpet-shaped flowers. 1st size. Mailing rate 4 lbs. 10.....	35	3 00	28 00		
2d size. Mailing rate 3 lbs. 10.....	30	2 50	20 00		
Elliottiana, Yellow; Spotted Leaf. Dark green leaves, spotted silvery white. 2 lbs. 10.....	30	2 75			
CALOCHORTUS (Mariposa Lily). See our Bulb Catalogue for full list.....					
CAMASSIA Cusickii. Very large leaves and lovely, pale sky-blue flowers, produced in racemes 2 to 3 feet long.....	15	1 00			
esculenta. Pretty violet-blue flowers. Fine for cutting. 3 lbs. 100.....	20	1 50			
CINNAMON VINE. First-size roots.....	15	1 00	7 00		
CLEMATIS coccinea. Hardy, flowers rich scarlet. 1 lb. 10.....	15	1 25	9 00		
COOPERIA Drummondii (Evening Star). White. 2 lbs. 100.....	35	2 50			
pedunculata. White, fragrant.....	35	2 50			
CROCOSMIA aurea (Tritonia). Beautiful; half-hardy; orange flowers. 1 lb. 10.....	\$0 25	\$2 00			
CYCAS revoluta Stems (Sago Palm). In various sizes. 15 cts. per lb.....					
CYCLAMEN, Coum. Crimson, round leaved.....	40	3 50			
Europæum roseum. Very showy, rosy red, hardy.....	20	2 00			
Persicum giganteum. Rose.....	20	2 00			
" " Dark crimson.....	20	2 00			
" " White, "Mont Blanc".....	25	2 00			
" " Mixed.....	20	2 00			
Hederæfolium Album (Neapolitanum). Ivy-leaved Cyclamen; quite hardy in sheltered situations.....	20	2 00			
Repandum. Rosy red, purple eye.....	20	2 00			
DARLINGTONIA (Pitcher Plant). 2 lbs. 10.....	50	4 00			
DICENTRA spectabilis (Bleeding Heart). Hardy perennial; also forcer. 1 lb. each, 8 lbs. 10.....	30	2 00	\$15 00		
ERANTHIS hyemalis (Winter Aconite). Flowers yellow, hardy, perennial. 1 lb. 100.....		30	2 00		
EREMURUS himalaicus. White.....	1 25				
robustus. Rose. 1 lb. each.....	1 25				
ERYTHRONIUM. See our Bulb Catalogue.....					
EUCHARIS amazonica. Fine, white-flowered greenhouse plant. Magnificent. 2 lbs. 10.....	35	3 00			
FRITILLARIA Meleagris alba (Guinea fowl flower). White.....	20	1 50			
Meleagris. Mixed colors.....	15	1 25			
FUNKIA alba marginata. Green foliage, margined white. 1 lb. each.....	25	2 00			
GERANIUM sanguineum. Hardy perennial. Crimson-purple flowers. 1 lb. 10.....	25	2 00			
HÆMANTHUS albifolia. White.....	50				
coccineus. Scarlet.....	1 00				
punicus. Orange red.....	1 00				
HELLEBORUS Niger (Christmas Rose). Pure white.....	50	4 00			
HEMEROCALLIS, Apricot. Distinct, rich apricot. 5 lbs. 10.....	15	1 00			
flava. Clear yellow.....	10	75			
fulva. Coppery orange.....	20	1 50			
Kwanso fl. pl. Coppery orange; double.....	20	1 50			

Miscellaneous Bulbs and Roots—Continued

	Each	10	100		Each	10	100
HEMEROCALLIS, Sieboldi. Handsome reddish orange	\$0 10	\$0 75		SPIRÆA hybrida, Wash-			
HYACINTHUS candicans. 5 lbs. doz.....		35	\$3 00	ington. Extra large flow- ers; fine forcer.....	\$0 20	\$1 50	\$10 00
INCARVILLEA Delavayi. Large; rosy purple; splen- did, hardy perennial, with handsome foliage. 6 lbs.				japonica. Pure white flow- ers.....	15	1 25	8 00
10.....	15	1 00		japonica compacta mul- tiflora. Neat and com- pact. Pure white flowers.	15	1 25	8 00
MADEIRA VINE. Roots..		40	3 50	TRICYRTIS hirta. Beauti- ful; Fall flowering; hardy. 3 lbs. 100.....	15	1 50	10 00
NERINE Sarniensis (True Guernsey Lily). Flowers brilliant crimson, in large clusters.....	20	1 50		TRILLIUM Erectum. Dark purple; erect habit.....	10	60	5 00
ORNITHOGALUM arabi- cum. White, with black center.....		35	3 00	grandiflora (Giant Ameri- can Wood Lily, or "Wake Robin.") Large, white flow- ers and easily grown in shaded position.....	10	60	5 00
pyramidale. Showy spikes of white flowers.....	10	75		sessile californicum. A strong plant 1 foot high, with the separate leaves 5½ inches long by 4½ inches wide and the petals 3½ inches long. Flowers pure white, with purple center; very fragrant....	20	1 50	10 00
umbellatum (Star of Beth- lehem). Outside green and white, inside satiny white.		15	1 00	sessile rubra. Same as cali- fornica, with narrow pet- als; deep maroon purple to reddish purple.....	20	1 50	10 00
OXALIS Bowei. Crimson..		25	2 00	sessile, Snow Queen. Flowers pure white, with creamy centers and with broad petals.....	20	1 50	10 00
Lasiandra. Violet purple, large flower.....		20	1 50	TRITOMA Pfitzeri. Large spikes of flame-colored flowers. 2 lbs. 10.....	35	3 00	
Multiflora alba.		25	2 00	MacOwani. Dwarf variety; bright orange red.....	20	1 50	
Rubella. purple.....		25	2 00	uvaria grandiflora (Red- Hot-Poker Plant). Half- hardy.....	20	1 50	12 00
Mixed		15	1 00	Tritonia Crocata. Summer flowering. To be handled like Gladioli.....		35	3 00
PANCRATIUM calathinum (Basket Flower). 2 lbs.		15	1 00	TROLLIUS europæus. Yel- low. 5 lbs. 10.....	25	2 00	
10.....		15	1 00	Caucasicus. Large, globu- lar, golden yellow flowers. 5 lbs. 10.....	30	2 50	
maritimum (Sea Daffodil). Delightfully fragrant white.....		20	1 50	TROPÆOLUM tricolor (Jarrattii). Fine green- house climber; for pots... speciosum. Brilliant scar- let.....	25	2 00	
RANUNCULUS. Soak in wa- ter two days before plant- ing.				TUBEROSES, Dwarf Double Pearl. Mailing rate 2 lbs. 10.....		30	2 50
Persian Mixed		15	1 00	Albino. Pure white; single Variegated Leaf		50	4 50
Turban Mixed		15	1 00	T Y D Æ A, Mixed. Very showy, golden scarlet and spotted.	15	1 00	
SPIRÆA America. Rosy lilac.....	20	1 50		WATSONIA Ardernei (O'- Brieni). Large, beautiful, snow-white Gladiolus-like blooms over 3 inches in diameter. Fine forcer or for planting outdoors in Spring. 2 lbs. 10.....	20	1 50	12 00
Astilbe Arendsi, Ceres. Bright, rosy lilac. 2 lbs. each.....	20	1 50		ZEPHYRANTHES candida. White, greenish base....	10	40	3 00
Astilbe Naarden. Large, pink flowers. Early bloomer; fine forcer.....	35	3 00					
astilboides floribunda. Very large, pure white plumes. Neat habit; abun- dant bloomer.....	15	1 25					
hybrida, Mont Blanc. Large plumes of purest white.....	30	2 50					
hybrida, W. E. Gladstone. Snow-white plumes, long stems; fragrant. Fine for- cer.....	20	1 50	10 00				
hybrida, Queen Alexan- dra, Pink. A pink variety, in habit similar to Glad- stone, but flowering three weeks later. Beautiful...	20	1 50	10 00				

Insecticides and Remedies for Plant Diseases

ALL SUBJECT TO CHANGE IN PRICE WITHOUT NOTICE

Postage, Express or Freight charges to be paid by purchaser

ANT-DESTROYER. Will positively destroy ants.

¼-lb. tins.....\$0 15	|	1-lb. tins.....\$0 45
½-lb. tins..... 25	|	5-lb. tins..... 2 00

ANTIPEST. A sure destroyer of all insect pests

Qt.....\$0 50	|	1 gal.....\$1 65
½ gal..... 90	|	5 gals..... 7 00

APHINE. Has no equal for the destruction of green, black or white fly, thrips, red spider, mealy bug, etc. Use one part to forty of water. Does not injure the most tender plants.

¼ pt.....\$0 25	|	Pt.....\$0 65
½ pt..... 40	|	Qt..... 1 00
Gal..... 2 50		

ARSENATE OF LEAD. Adheres well to foliage and does not readily wash off. It remains well suspended in solution, insuring even distribution. It is white, and shows just where it has been applied. It does not injure tender foliage.

Lb.....\$0 25		5 lbs.....\$1 10
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BORDEAUX MIXTURE, or FUNGIROID. For all fungous diseases.

Dry—	Per Lb.	Per Lb.
1-lb. can.....\$0 40		5 lbs. cans and over 30
50 lbs and over.....		26

Liquid—		
Qt.....\$0 35	|	Gal.....\$1 00
5-gal. keg.....		4 00

BUG DEATH. This is a fungicide, insecticide and plant food combined, and contains neither Paris Green nor Arsenic.

1 lb.....\$0 20	|	5 lbs.....\$0 75
3 lbs..... 50	|	12½ lbs..... 1 50
100-lb. keg.....		8 50

COPPER SOLUTION, Ammoniated. Prevents black and brown rot, mildew and other grape diseases, Pear and Apple scab, leaf blight, Tomato rot, Potato blight, Melon blight, etc. Dilute one part to 100 parts of water; spray lightly.

Qt.....\$0 70		Gal.....\$2 00
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CUTWORM FOOD. Kills the worms; simple and easy to use; specially prepared for bringing young plants through the critical period.

1-lb. pkg.....\$0 30	|	5-lb. pkg..... 1 25
10-lb. pkg.....		1 75

CUTWORM PREVENTIVE. Of inestimable value. Cutworms will not infest soil mixed with this preparation.

5-lb. can.....\$0 50		10-lb. can.....\$0 90
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“ELECTRIC” WORM ERADICATOR. For killing all grubs, insects and worms that do their destructive work at the roots of plants and trees, and infest lawns, golf-courses, etc. For most pests, four ounces to each four gallons of water; for cutworms, four ounces to two gallons of water.

4-oz. bottle.....\$0 25	|	1 gal.....\$4 00
8-oz. bottle..... 50	|	5 gals.....17 50
24-oz. bottle..... 1 00	|	10 gals.....34 00

FIR-TREE OIL. Dilute one pint to twenty gallons of water. Apply with vaporizer or syringe.

½ pt.....\$0 55	|	Qt.....\$1 75
Pt..... 1 00	|	½ gal..... 3 00
Gal..... 5 50		

FIR-TREE-OIL SOAP. Mix at the rate of one ounce to a gallon of water, and apply with a bellows or syringe.

½-lb. tin.....\$0 25		2-lb. tin.....\$0 75
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FISH-OIL SOAP. (Formerly called Whale-Oil Soap.) For washing trees and destroying all insects on the bark.

1 lb.....\$0 20	|	10 lbs.....\$1 50
5 lbs..... 80	|	100 lbs.....14 00

FUNGINE. For mildew, rust, and all other blights, does not stain foliage.

Pt.....\$0 65	|	Qt.....\$1 00
1 gal.....		3 50

GRAPE DUST, Hammond's. For the prevention of mildew on Roses, Grapes, Gooseberries, etc. Apply with bellows.

5 lbs.....\$0 60	|	10 lbs.....\$1 00
100 lbs.....		8 00

HELLEBORE. Apply dry or mix in water—one ounce to three gallons.

1 lb.....\$0 55		2 lbs.....\$1 00
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KEROSENE EMULSION. For Cabbage worms, scale on trees, caterpillars, Melon lice, Rose bugs, etc. Dilute 25 to 50 parts.

Qt.....\$0 40	|	1 gal.....\$1 25
½ gal..... 70	|	5 gals..... 4 50

KILM WEED ERADICATOR. A patented tube containing a powerful weed killer. Will exterminate Dandelion from lawns. Easy to use. Each 50 cts. Extra tubes of powder for re-charging, 25 cts. each.

INSECTICIDES AND REMEDIES FOR PLANT DISEASES—Continued

LAWN COMPOUND, Sterlingworth. A non-poisonous powder to destroy Plantain, Dandelions, Chickweed, and most other weeds having a broad, hairy surface, without killing the grass. Five pounds will dress 500 to 1,000 square feet, according to condition of the lawn.

5-lb. can.....\$0 60 | 50-lb. keg.....\$4 00
10-lb. can..... 1 00 | 100-lb. keg..... 7 50

LEMON OIL. For destroying scale, caterpillar, mealy bug, etc. Directions on can.

½ pt.....\$0 25 | Qt.....\$0 75
Pt..... 40 | Gal..... 2 00

LIME-SULPHUR SOLUTION, California Wash. For San José scale. One gallon makes fifteen by adding water.

Qt.....\$0 40 | 5 gals.....\$3 25
Gal..... 75 | 10 gals..... 4 50

NICO-FUME LIQUID. For fumigating or spraying. Effective against green fly, mealy bug, etc. Does not stain or injure blooms, and leaves no disagreeable odor. For spraying, one to two teaspoonfuls to a gallon of water. Lamps, 60 cts. each.

¼ lb.....\$0 50 | 4 lbs.....\$5 50
Lb..... 1 50 | 8 lbs.....10 50

NICO-FUME TOBACCO PAPER. For fumigating. Does not injure blooms. In tins.

24 sheets.....\$0 85 | 144 sheets.....\$4 00
288 sheets..... 7 50

NICOTICIDE. For fumigating or spraying. Effective against green fly, mealy bug, etc. Does not damage foliage or flowers. Sold in cans as follows:

¼-pt. can, for 8,000 cubic feet of space...\$0 60
½-pt. can, for 16,000 cubic feet of space... 1 00
1-pt. can, for 32,000 cubic feet of space... 2 00
1-qt. can..... 4 00
½-gal. can..... 7 75
1-gal. can.....14 50
Fumigators, 60 cts. each.

PARIS GREEN. Mix at rate of one pound to two hundred gallons of water. Effective against all chewing insects.

¼-lb. can.....\$0 15 | ½-lb. can.....\$0 25
1-lb. can.....(All subject to change)..... 45

PYROX. The best and safest all-round spray for all insects, blights and fungus troubles. Kills Potato bugs. Sticks like paint.

1 lb.....\$0 30 | 10 lbs.....\$1 85
5 lbs..... 1 00 | 25 lbs..... 4 50

READE'S EARTHWORM KILLER. For destroying earthworms on golf-greens, tennis-courts, lawns and bowling-greens. A safe, non-poisonous to animals, powder, which acts also as a fertilizer to the grass. Twenty-five pounds will cover 450 square feet.

25-lb. bag.....\$2 00 | 50-lb. bag.....\$3 75
100-lb. bag..... 6 00

SCALECIDE. For San José scale. Petroleum oil that mixes at once with cold water and stays mixed. No hot water necessary. Add one gallon for every fifteen to twenty gallons of water.

Qt.....\$0 40 | Gal.....\$1 00
5 gals..... 3 75

SLUG-SHOT, Hammond's. Excellent for destroying Cabbage, Turnip and Beet flies, Potato bugs, Currant worms, etc.

Lb.....\$0 15 | 10 lbs.....\$0 70
5 lbs..... 40 | 100 lbs..... 6 50

SULPHO-TOBACCO SOAP. Dissolve in proportion of two ounces to a gallon of water, and apply with a syringe or atomizer. It will destroy Rose slugs, aphides, green fly, bark lice, etc.

3-oz. box.....\$0 10 | 8-oz. box.....\$0 20
Cartons, large size (8 to 10 lbs.)..... 3 00

SULPHUR, POWDERED. Valuable for protecting against mildew on Grapes, Roses, etc.

Lb.....\$0 10 | 10 lbs.....\$0 60

TOBACCO DUST—

Regular Kind. Highest grade for dusting.

Lb.....\$0 10 | 10 lbs.....\$0 60
5 lbs..... 35 | 100 lbs..... 3 50

Stoothoff's "Black Stuff." For dusting.

25 lbs.....\$1 75 | 50 lbs.....\$3 00
100 lbs..... 5 00

Stoothoff's "Fumigating Kind." For burning

25 lbs.....\$1 75 | 50 lbs.....\$3 00
100 lbs..... 5 00

TOBACCO STEMS. For fumigating. In bales of about 100 lbs., at \$1 50 per 100 lbs.

TREE TANGLEFOOT. A sticky substance applied directly to the bark to protect trees against climbing insect pests. One application remains sticky, fully exposed to weather, three months. One pound will make a band 7 to 8 feet long and about 6 inches wide.

1-lb. tin.....\$0 35 | 10-lb. tin.....\$3 00
3-lb. tin..... 1 00 | 20-lb. tin..... 5 50

VERMINE. A soil sterilizer and germicide for all soil vermin, such as cut, eel, wire and grub worms, slugs, maggots, ants, etc.

¼ pt.....\$0 25 | Pt.....\$0 65
½ pt..... 40 | Qt..... 1 00
1 gal..... 3 00

WEED-KILLER, Pino-Lyptol. This fluid absolutely destroys all the weeds and other growth wherever applied. Mix one part Pino-Lyptol with ten to fifteen parts water.

1 gal.....\$1 50 | 5 gals.....\$6 00
10-gals.....11 00

WEED-KILLER, Sterlingworth. A powerful powder for destroying vegetation of all sorts on gravel walks. Also excellent for destroying Poison Ivy.

1-lb. box.....\$0 50 | 5-lb. box.....\$2 00

X-L-ALL LIQUID INSECTICIDE. An efficient preparation for spraying. Purely nicotine; harmless to very delicate plants; kills mealy bugs, red spider and all insect pests.

Pt.....\$0 75 | ½ gal.....\$2 25
Qt..... 1 25 | 1 gal..... 4 25

High-Grade Fertilizers

ALL NET CASH—PRICES SUBJECT TO CHANGE WITHOUT NOTICE

COMPLETE MANURE

Guaranteed to contain ammonia, 2 per cent.; available phosphoric acid, 9 per cent.; actual potash, 1 per cent.; sulphate of magnesia, soda, lime, sulphuric acid, etc. Adapted for use on all crops, such as Corn, Tomatoes, Peas, etc., and is especially suited for grain crops. Use 1,200 to 1,500 pounds to the acre.

In 167-lb. bags, per ton.....	\$40 00	Bag of 100 lbs.....	\$2 75
“ “ “ “ half-ton.....	21 00	50 lbs.....	1 65
“ “ “ “ quarter-ton.....	11 00	25 lbs.....	1 00
Single bag of 167 lbs.....	4 00	10 lbs.....	50

Lawn Fertilizer

Guaranteed to contain ammonia, 5 per cent.; available phosphoric acid, all soluble, 8 per cent.; actual potash, 1 per cent.; lime, sulphate of magnesia, soda, sulphuric acid, etc. Specially prepared for lawns and meadows as a top-dressing. Apply broadcast at rate of 1,000 to 1,500 lbs. to the acre.

In 167-lb. bags, per ton.....	\$50 00
“ “ “ “ half-ton.....	27 00
“ “ “ “ quarter-ton.....	15 00
Single bag of 167-lbs.....	5 50
Bag of 100 lbs.....	3 75
50 lbs.....	2 00
25 lbs.....	1 25
10 lbs.....	60

Potato Manure

Guaranteed to contain ammonia, 4 per cent.; available phosphoric acid, 9 per cent.; actual potash, 1 per cent.; sulphate of magnesia, soda, lime, sulphuric acid, etc. This manure is for special use on the Potato crop, and is also adapted to Sweet Potatoes, Vines, Fruit Trees, etc. Use broadcast, about 1,500 lbs. to the acre.

In 167-lb. bags, per ton.....	\$46 00
“ “ “ “ half-ton.....	25 00
“ “ “ “ quarter-ton.....	14 00
Single bags of 167 lbs.....	5 00
Bag of 100 lbs.....	3 00
50 lbs.....	1 75
25 lbs.....	1 00
10 lbs.....	50

Agricultural Salt

For asparagus beds, etc. In bags of about 200 lbs.
 Bag.....\$1 50 | Ton, about....\$12 00

Not less than one bag sold.

Mak-Gro

A concentrated, odorless plant food for in and out-door plants. The best dressing for potted plants and out-of-door plants of all kinds.

1-lb. can.....	\$0 25
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Bowker's Ammoniated Food for Flowers

Excellent for use on house plants, being entirely odorless.

Small package.....	\$0 15	Large package...	\$0 25
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Canada Hardwood Ashes

Highest grade unleached. For top-dressing lawns, especially if the soil is stiff or sour, one and one-half to two tons to the acre.

Bag of 100 lbs.....	\$1 75	½ ton.....	\$14 00
Ton.....			26 00

Clay's Celebrated Fertilizer

One of the best manures for all horticultural purposes, either in greenhouse or garden. Splendid for mixing with potting soil and as a top-dressing. Notwithstanding its apparently high price, it is quite economical.

PRICES IN BAGS

⅛ cwt. (14 lbs.).....	\$2 50
¼ cwt. (28 lbs.).....	2 50
½ cwt. (56 lbs.).....	4 50
1 cwt (112 lbs.).....	8 00

HIGH-GRADE FERTILIZERS—Continued

Thomson's Vine Manure

Unrivalled for Vines, Tomatoes, Cucumbers, Fruit Trees and all foliage, flowering and fruit-bearing plants, also for vegetables and outdoor plants of every description. The result of many years' practical experience.

½ cwt. (56 lbs.)...\$4 00 | Cwt. (112 lbs.)...\$7 00

Thomson's Special Chrysanthemum Manure

½ cwt.(56 lbs.).....\$8 00

Pulverized Sheep Manure

(Sheepshead Brand)

A rich, pure, natural manure. Excellent as a top-dressing for lawns. Its effect is immediate and lasting. Apply at the rate of 1,500 lbs. per acre. There is nothing better for mixing with the soil for greenhouse plants—one part manure to six parts soil. It is recommended for the vegetable-garden, promoting a steady and rapid growth. It makes a rich and safe liquid manure—one pound to five gallons of water.

1-lb. pkg.....\$0 10	|	100 lbs.....\$2 50
5-lb. pkg.....35	|	¼ ton.....11 00
25 lbs.....1 00	|	½ ton.....20 00
50 lbs.....1 60	|	Ton.....36 00

Pulverized Limestone

A product that has an exceedingly wide sale among intelligent agriculturists, with the best of results. As a crop-producer we hardly believe it has an equal. It is made from the purest crystalline white limestone obtainable, and analyzes about 97 per cent. carbonate.

Bag of 100 lbs.....\$0 75	|	½ ton.....\$7 00
Ton.....		12 00

Bone Fertilizers, Etc.

Prices subject to change

Pure Ground Bone Meal No. 1. Finely pulverized; excellent for Rose-culture. It decomposes very rapidly, and is more quickly effective than the coarser grades. It is excellent for mixing with the soil for potting.

5 lbs.....\$0 40	|	100 lbs.....\$3 50
10 lbs.....75	|	¼ ton.....14 00
25 lbs.....1 25	|	½ ton.....26 00
50 lbs.....2 00	|	Ton.....50 00

Ground Bone, No. 2. Coarser than the above; for top-dressing for lawns, and for garden and field crops.

100 lbs.....\$3 25	|	½ ton.....\$28 50
¼ ton.....14 50	|	Ton.....55 00

Ground Bone, No. 3. A little coarser than No. 2.

100 lbs.....\$4 25	|	½ ton.....\$30 00
¼ ton.....16 00	|	Ton.....58 00

Thorburn's Special Raw Bone

This is composed of medium, fine and coarse bone, good for general crops, the finer portion acting at once, while the coarse bone keeps up the supply of food for the plant for a long time. Contains 4 per cent. ammonia, 3.30 per cent. nitrogen.

100-lb. bag.....\$3 25	|	½ ton.....\$26 00
¼ ton.....14 00	|	Ton.....47 00

Pure Raw Bone Meal, Swift's. Contains 4½ per cent. ammonia, 23 per cent. phosphoric acid and over 3½ per cent. nitrogen.

100 lbs.....\$4 50	|	½ ton.....\$31 00
¼ ton.....16 50	|	Ton.....60 00

Leaf-Mold. Indispensable for Azaleas, Rhododendrons, etc. Bbl. \$2.

Moss, Sphagnum. For filling Orchid baskets, etc., and for mixing with potting soil to conserve moisture. Bale of about 50 lbs., \$3.50.

Peat, Orchid. For potting Orchids, etc. Barrel of about 50 lbs., \$2.

Peat, Rotted. Fine for mixing with soil for potted plants such as Azaleas, Palms, etc. Barrel of about 140 lbs., \$2.

Other Fertilizers

Prices subject to change

ACID PHOSPHATE.....	100-lb. bag, 200-lb. bag, ton.	} Prices on application.
TANKAGE (Blood and Bone Fertilizer).....	100-lb. bag, 200-lb. bag, ton	
IMPORTED SCOTCH SOOT.....	Bag of about 112 lbs.	
NITRATE OF SODA.....		
MURIATE OF POTASH.....		

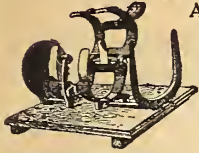
FARMOGERM. See page 61. Price, garden size, 50 cts., 1-acre bottle, \$1.50; 5-acre bottle, \$5.

Alphano Humus

A plant food and Nature's soil builder; suitable for the vegetable and flower garden, lawn, shrubbery, golf links, etc.; excellent used as a top dressing for all grass; being quite odorless, it forms an ideal mixture for the greenhouse—three parts soil to one of Humus. Guaranteed analysis: Nitrogen, 1.25 to 2.50 per cent.; ammonia, 1.50 to 3 per cent.; available phosphoric acid, 0.50 per cent.; potash, 0.50 per cent.; balance humus vitalizers, lime and moisture. Price, \$1.50 per 100-lb. bag, \$15 per ton.

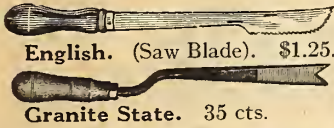
HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES

ALL NET CASH
POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER
PRICES NOT GUARANTEED, SUBJECT TO CHANGE



ASPARAGUS BUNCHER, Acme. The most popular make. \$2.50.

ASPARAGUS KNIVES



English. (Saw Blade). \$1.25.
Granite State. 35 cts.

ATOMIZER.

Large, \$2.75.
Small, 2.25.



BELLOWS, Woodason's Double-Cone, Powder. \$4.00.



Single-Cone, Large. \$2.75.

Small, \$1.60.



JUMBO POWDER GUN.

It is 4 inches in diameter, holds 4 ozs. of powder, and serves its purpose well. 25 cts.



BILL AND BRUSH HOOKS.

For heavy pruning.—
English. S-handle. \$2.75.
American. Long handle, \$1.00

BORDER SHEARS. See p. 152.



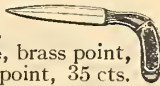
CARNATION SUPPORTS. Made of light wire, galvanized.

2-Ring.
Per doz..... \$0.60
Per 100..... 4.50
Per 1,000..... 40.00
3-Ring.
Per doz..... .75
Per 100..... 5.00
Per 1,000..... 45.00

CORN KNIFE. Worthington, No. 2..... \$0.25
(See also Grass Hooks)

DIBBLES.

All Iron. 35c.
Wood Handle, brass point, 60 cts. **Iron point,** 35 cts.



DANDELION PULLER

Hall's. 50 cts. each.



EDGING, KNIVES,

Grass, English. Ea.
8-in..... \$1.75
9-in..... 2.00
10-in..... 2.25
Without handle.
Handles, 25c. extra.



FLOWER-POTS. See page 154.

FORKS, Digging or Spading.

Best quality, spear point, diamond-back tines. Strapped handle, Long or D. Each
4-tine..... \$1.50
5-tine..... 1.60

Hay, or Stable. First-quality oval tines. Extra-long strapped handle.

2-tine..... .90
3-tine..... 1.00

Manure, Long or Short-handled. Strapped handle.

4-tine..... 1.40
5-tine..... 1.75



Ladies' Weeding Fork.
American short handle. .30
Boys' Spading. 4-tine.... .75

FRUIT-PICKERS, Handy Andy.

A simple device of two wire jaws bound in the form of a square cage with burlap. The jaws open and close with a spring on the end of the pole. A cloth tube is affixed to the pole, the end of which can be held in a box or barrel or other receptacle to catch the fruit, as it runs down. \$1.50.

Perfect. Galvanized steel wire, attaches to pole of any length. Price, without pole, 40 cts. **Poles,** for above, 30 cts. each.

FUMIGATING LAMP, "Defiance."

For all vaporizing liquids. No glass. Burns kerosene. 60 cts.

FUMIGATOR, "Eureka."

For fumigating with tobacco stems. Very best quality, heavy galvanized tin. Each
No. 1 holds 1/2 pk. \$1.50
No. 2 holds 1 pk. . 2.25
No. 3 holds 1/2 bus. 2.75

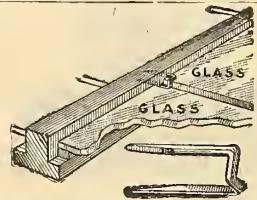


GARDEN LINES, Finest Braided. 100 feet, 75 cts.

GARDEN REELS. For garden lines. Wrought-iron. Holds 100 feet, 65 cts.; larger size, \$1.10.

GARDEN TOOLS for Ladies.

Set of 3 pieces (spade, hoe and rake), \$1.25.



GLAZING POINTS, The Tiger. 60 cts. per 1,000. **Pincers,** for above. 55 cts.

GLASS CUTTER, "Red Devil."

Hand-honed wheels. Standard of the world. 10, 15, 25 and 50 cts. each.

GLOVES, Gardeners', Goat-skin. For men only. \$2.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

GRAFTING WAX. The best grade.
 ¼-lb. pkg.\$0 15
 ½-lb. pkg. 20
 1-lb. pkg. 30



GRASS HOOK, or Corn Knife, Crescent. Adjustable. 35 cts.

GRASS HOOKS, English Riveted Back. Thin, sharp blades, strengthened by a riveted back; light and rapidly handled. 60 cts.

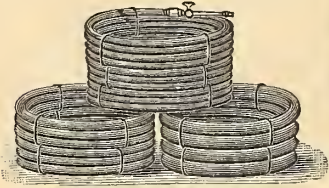
With Trowel Shank. The handle is raised from the blade, making it possible to cut close without bruising the knuckles. 50 cts.

HOES, Garden—
Draw, or Corn. 5-in. 60 cts., 6-in. 70 cts., 7-in. 80 cts.

English Scuffle. Finest-quality steel.
 5-in.\$0 60
 6-in. 65
 7-in. 70
 8-in. 75
 9-in. 80
 10-in. 85
 Handles 30 cts. each extra.



"Baby" Warren. 40 cts. each.
Warren. Solid steel socket, used in drilling seed. 95 cts. and \$1.10 each, with handle.



HOSE, Rubber. ¾-in. Electric. In 25-ft. and 50-ft. lengths, 22 cts. per ft.

Thorburn Standard.
 X, 6-ply, 14 cts. per ft.
 XXX. Best red, 7-ply, 18 cts. per ft.

Our hose is carefully selected, made of first-class material and coupled at both ends. In 25- or 50-ft. lengths.

HOSE END, No. 1. For connecting hose with ordinary faucets. 50 cts. each.

HOSE COUPLERS, Siamese. With these several sprinklers can be used at the same time. ¾-inch, 75 cts. each.

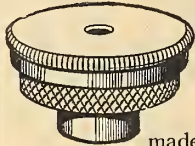
HOSE COUPLINGS—
 ½-in.\$0 20
 ¾-in. 25
 1-in. 40

HOSE NOZZLES, Graduating Lawn Hoze Nozzle. Will throw coarse or fine spray, or solid stream. ¾-in., 50 cts. each.

Boston Hose Nozzle. For ¾-in. hose. 75 cts.

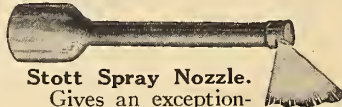
Fountain Brass Hose Nozzle. 25 cts.

"Bordeaux" Spraying Nozzle. For ¼-in. pipe, \$1 each.



Shower Spray Nozzle. A perfect spray nozzle

made of brass; non-corrosive—will not clog. Has both fine and coarse sprays. \$1.25 each.



Stott Spray Nozzle. Gives an exceptionally fine spray. Impossible for it to get out of order. Single Spray, for ¾-in. connection. \$1.50 each. Double Spray. \$2 each.

Vermorel Spray Nozzle. 85 cts.

HOSE BANDS, for couplings.
 To fit ½-in. hose, 75c. per doz.
 To fit ¾-in. hose, 85c. per doz.
 To fit 1-in. hose, \$2 per doz.

HOSE MENDERS, Cooper's. Brass; will not rust or wear. No fastening required. For hose with ½-in. bore, 10 cts. each, \$1 per doz. For hose with ¾-in. bore, 12 cts. each, \$1.25 per doz.

HOSE REELS, Tubular Iron. Never break or wear out. No. 10 will hold 100 ft. of ¾-in. hose, \$4. No. 20 will hold 150 ft. of ¾-in. hose, \$5. No. 30 will hold 500 ft. of ¾-in. hose, \$6.

HOTBED SASH. Best quality. Packing at cost.

Unglazed. 3x6 ft. for 10x12 glass. \$1.50 each, \$17.50 per doz.

Glazed and Painted. 3x6 ft., 10x12 glass. \$5 each, \$50 per doz.

Glazed and Painted. 3x6 ft., 10x12, extra-heavy glass. \$5.75 each, \$60 per doz.

HOTBED MATS for Covering Sashes



Made of jute, stitched through; a n d hemmed, thickly padded; size, 76 in. by 76 in.; one mat covers two sashes.

No. 1. Burlap both sides. \$3 each, \$30 per doz.

KNIVES, Saynor's Celebrated English. Best make.



No. 938 No. 196 No. 187 No. 312 No. 80
 \$2.00 \$2.50 \$1.75 \$1.75

No. 400 \$2.25. No. 401, \$2.10

Saynor's No. 343. Budding. 2 blades. \$2.25.

Saynor's No. 403. Budding. Long-handled. \$2.25

Wostenholm's Pruner only, \$1.

H. & B. Budders, 2 blades. \$1.25.

LABELS, Wooden, Pot and Garden—

	Plain	Painted
	100	1000
3½-in.	\$0 15	\$0 65
4-in.	15	80 \$0 15 \$1 05
4½-in.	15	90 20 1 15
5-in.	20	1 00 25 1 25
6-in.	25	1 10 30 1 50
8-in.	50	3 75 55 4 25
12-in.	75	6 00 90 7 50
24-in.	2	50

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

LABELS, continued

Wooden, Notched Tree—

	Plain	Painted			
	100	1000	100	1000	
3½-in. cop. wire	\$0 20	\$1 40	\$0 25	\$1 70	
3½-in. no wire..	10	70	15	90	
6-in. no wire..	30	2 60	40	3 00	

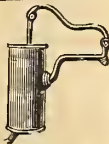
MEHLER'S HANDY GARDEN TOOL.

One of the best tools for breaking the crust of the ground and weed-ing. \$1.



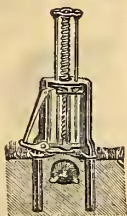
MASTICA GLAZING MACHINE. \$1.45.

MASTICA. For use in the above machine. Qt. 40c., gal. \$1.40.



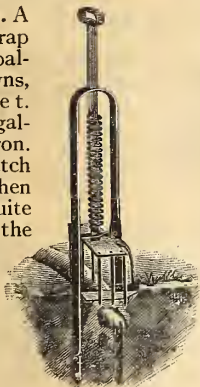
MOLE TRAPS,

Olmsted's Improved. A short trap, suitable for lawns or cold-frames. Made from good-quality steel. Practically indestructible. \$1.50 each.



The Reddick.

A powerful trap used principally on lawns, easily set. Made of galvanized iron. It will catch moles when they are quite deep in the ground. As the points of the pin are constantly in the ground, they cannot injure chickens or domestic animals. \$1 each, \$9.50 per doz.



PENCILS. For writing garden labels.

Black, 5 cts. ea., 50 cts. per doz. Wolf's Indelible. Imported from England. 15 cts. each, \$1.50 per doz.

PLANT DUSTER, Norton's. \$1.

PLANT STAKES, Round, Painted Green.—

	Doz.	100
2 feet.....	\$0 40	\$2 50
3 feet.....	70	4 90
4 feet.....	1 20	7 50
5 feet.....	1 35	8 75
5 feet, extra heavy	1 75	12 00
6 feet, extra heavy	2 00	14 00

Heavy, Square, Tapering, Painted Green.—

	Doz.	100
2 feet.....	\$0 30	\$2 00
3 feet.....	65	4 75
4 feet.....	90	6 50
5 feet.....	1 25	8 50
6 feet.....	1 50	10 50

Dahlia Poles, Painted Green, White Tops.—

	Doz.	100
2 feet.....	\$0 55	\$4 00
3 feet.....	75	6 00
4 feet.....	1 10	8 00
5 feet.....	1 30	10 00
6 feet.....	1 50	11 00

Plant Stakes, Galvanized Wire, for Roses, etc.—

	Doz.	100
2 feet.....	\$0 30	\$2 00
3 feet.....	40	2 25
4 feet.....	50	2 50
5 feet.....	60	2 75

Japanese Bamboo. Bundles of 100 only. 6 ft., \$1.25.

PRUNERS, Waters' Long-handled Tree.

	Each	Each
4 feet....	\$0 75	8 feet...\$1 00
6 feet....	85	10 feet... 1 15
12 feet....		1 20
Extra Blades.		25



PRUNING KNIFE

Kansas. Automatic, strong, durable and a good time-saver. Has compound leverage, which greatly increases the power. \$3 each.

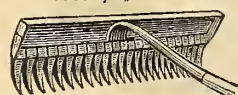
PUTTY FOR GLAZING, Twemlow's Old English.

Can be used with machine or bulb. \$2 per gal.; 5- and 10-gal. buckets at \$1.75 per gal.



RAFFIA, for tying. Per lb. 30 cts.

RAKES, English or Daisy. 16 teeth, \$3.



18 teeth, \$3.25.
20 teeth, \$3.50.
Each

Hay Rake, 3-bow. Wood. \$0 50

The "Lawn" King Rake.

Wood. Teeth very close. Will not tear sod.
26-teeth size..... 50
38-teeth size..... 60

Automatic Self-Cleaning Lawn Rake.

Backward motion clears the teeth. 75

Steel Garden Rake.—

Each
10-teeth....\$0 60 | 14-teeth \$0 80
12-teeth.... 70 | 16-teeth. 90
18-teeth..... 1 00

Wire Lawn Rakes. Will not scratch the lawn. With handle..... 60

Wooden Lawn Rake. 3-bow..... 60

SAWS.

Little Giant Saw and Pruner Combined. The knife is operated with a cord, and is thrown back automatically with a spring. Without pole. \$2.



Saws, "One-Edge" Pruning.

Narrow blade, gets among close branches; upper edge smooth, does not cut the upper limb.

16-in.....	\$0 70
18-in.....	80
20-in.....	90



Adjustable-Blade Pruning.

Can be adjusted and used at any angle; cuts cleanly and rapidly; light and strong. \$1.85.



Lightning Double-Edge Pruning.—

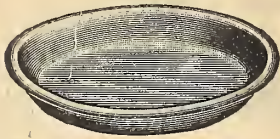
	Each
16-in.....	\$0 90
18-in.....	1 10
20-in.....	1 25

Saynor's Socket Pruning Saw.

18-in.....\$1 75



HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

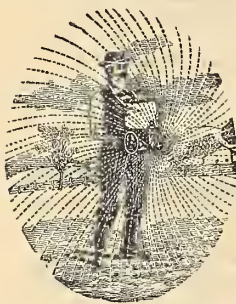


SAUCERS, Flower-Pot, Indurated Wood-Fiber. Light and durable. Not porous; will protect tables on which plants stand.

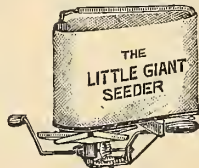
	Each	Doz.
6-in.....	\$0 18	\$1 80
8-in.....	25	2 50
10-in.....	30	3 00
12-in.....	35	3 50
14-in.....	40	4 50

SEEDERS, Cahoon.

With practically a minimum of labor will sow all kinds of grass and grain seeds. Will throw heavy seeds 20 feet each side of operator. \$3.50 ea.



Little Giant. A smooth-running, well-made machine. \$1.



SCYTHES.—

English Lawn, Riveted Back. Light and thin, broad blades. 32-in., \$1.50; 36-in., \$1.75; 34-in., 1.60; 38-in., 1.85.

SCYTHE-SNATH, or Handle. Patent Loop Heel. \$1.

SCYTHE STONES.—

Round Dressed Talacre. Each Doz. \$2.....\$0 20
Norton's Emery..... 15



SCISSORS,

Grape-Thinning, English.
 6-in.....\$1 25
 7-in..... 1 50
 8-in..... 1 75

SCISSORS, continued

English Flower-gathering. Will cut and hold the flower. Each 7-in.....\$2 00
 8-in..... 2 50

SHEARS,

Pruning. Imported \$1.75. **Watch-Spring.**

Perfection Pruning. Each
 No. 1, 6½ in.....\$2 00
 No. 2, 7½ in..... 2 25
 No. 3, 8½ in..... 2 50
 No. 4, 9½ in..... 3 25

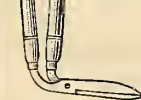
Wiss Solid Steel Pruning.

Best American Shear. Each
 Detachable blades. 9-in.....\$2 50
 10-in..... 2 75
Swedish Pruning. No. 538. 2 25
American, Japped Handle. 75

English Hedge.

Plain Notch
 8-in.....\$1 75 \$2 25
 9-in..... 2 25 2 50
 10-in..... 2 50 2 75

Ladies'. Nickel-plated, Pruning. 75 cts. each.
English Border. For trimming grass around edges of paths, etc. Blades made of very high-quality steel. Handles 3 feet long. Each
 8-in.....\$2 50
 9-in..... 3 00
 10-in..... 3 50



Grass, "Trowel-Shank." American, full-polished, excellent steel. Trowel-like handles keep your knuckles out of the dirt. 90 cts. each.



English Lopping. For lopping off limbs and branches of trees, not over 1¼ inches in diameter. Each
 No. 3.....\$4 00
 No. 4..... 4 50

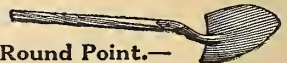
Double Cut Tree Trimmer (Swedish)

23-in.....\$2 25
 30-in..... 2 50



SHOVELS—

Square Point.— Each
No. 2. Regulation long or D handle......\$1 00
Ames No. 2. Long or D handle...... 1 50
Boy's. D handle...... 90



Round Point.—
No. 2. Long or D handle 1 00
Ames No. 2. Long or D handle...... 1 50



SPADES.—

Square Point No. 2. Regulation long or D handle.....\$1 00
Ames No. 2. Long or D handle...... 1 50
Boy's Spade. D handle. 90



SCOOP, Vegetable. The best shovel for handling Potatoes, apples, etc. Will not cut; dirt sifts out. Light weight. \$2.

SPRAY PUMPS. See p. 155.

SPRINKLERS.—

Rubber Plant. With large opening in neck; fills quickly; made of best white rubber.

Each
Straightneck. 6-oz....\$0 60
 10-oz..... 90
Angleneck. 6-oz..... 70
 10-oz..... 1 00

Peck's Improved Lawn Sprinkler. May be attached to the hose and placed anywhere on the lawn. Stands 4 feet high and distributes water over an area from 60 to 100 feet. 4-arm, \$3.50 each; 8-arm, \$3.75 each.



HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

SPRINKLERS, continued

The "New" Comet.

An adjustable revolving Sprinkler. Will sprinkle from 5 to 30 feet. Easily moved. The two arms may be set upright or at any angle. Weight, 4½ lbs. \$3.50 each.



Water Witch No. 3.

Scatters the water in fine drops and evenly over a circular area of from 25 to 40 feet. 40 cts. each.

Water Witch No. 4.

Similar No. 3, but having a stand instead of spike for holding it upright. 90c.



Ring Sprinkler. Has no revolving parts. The simplest Lawn Sprinkler. Made of good-quality brass. 80c. ea.

Automatic Lawn or Garden Sprinkler.

Nickel-plated, on 4-ft. stand. Sharpened iron bottom for sticking into soil, and hose connections complete. \$3.50 each.



Hotchkiss Lawn Sprinkler No. 55.

The most popular 3-arm Sprinkler on the market; made of brass, nickel-plated, with malleable iron runners. Will cover an area 30 feet in diameter. \$1.25 each.



SPRINKLERS, continued

Hotchkiss Lawn Sprinkler No. 65.

This combination Sprinkler and fountain is beautiful as well as useful. Brass and nickel-plated, with malleable iron runners. Will cover an area 40 feet in diameter. \$1.90 each.



Shower Sprinkler.



Mounted on holder for sprinkling lawns or can be attached directly to garden hose for washing sidewalks, etc. Cannot clog or get out of order; will not rust. Standard ¾-in. hose connection. 10 in. high. Holder and nozzle complete. \$2.25.

SYRINGES. See pages 154, 155.



TROWELS, Solid Steel.

Cheapest trowel in the long run; light, strong, durable and perfect "hang," handle cannot come off. Each 5-in. blade.....\$0 45 6-in. blade..... 50 7-in. blade..... 60



Transplanting. A perfect trowel for transplanting and putting in bulbs; solid steel. 6-in. 15 cts.; 7-in., 20 cts.

THERMOMETERS.—

Oxidized Metal Scale, Polished Back. A thermometer for house use, durable and well made. Tube magnifies and is easy to read.



Each 8-in.....\$0 75 10-in..... 1 00 12-in..... 1 25

THERMOMETERS, continued

Self-Registering, Polished Back. For indoor use; will register extremes of heat and cold; made of hard wood. A magnet is used to draw back the indicating points.



Each 10-in..... \$2 00 12-in..... 2 50



Self-Registering, Japanned Case.

The same as preceding with tin case for outside use. Enamelled case and porcelain scale. Each 8-in.....\$2 75 10-in..... 3 25 12-in..... 3 75



Japanned Tin Case. A cheap thermometer for greenhouse use; all metal. 10-in., 40 cts. each, \$4 per doz.

Mercury Bath, or Hotbed. New. Quick-acting; all of metal. Cannot rust or break. \$2.

Hotbed and Mushroom Bed. Brass-tipped point incloses the temperature bulb; it is simply thrust into the soil or bed. Best grade (made of boxwood), \$1.75.

Standard Grade (made of soft wood), \$1.25.

TOMATO SUPPORTS. Made of heavy wire, galvanized. 25c. each, \$2.25 per doz.

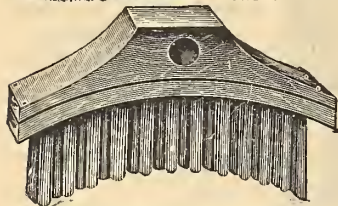
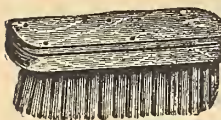


Wood. 36 in. high, 16 in. wide. Solidly made of clear, straight wood. Can be taken apart and stored when not in use. Will last for years. 25 cts. each, \$2.50 per doz.

TORCH, Asbestos. Very useful and simple. The only sure way to get rid of caterpillar nests on trees. Large size, 40 cts. each.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

TREE BRUSH, Small Size. Fine wire bristles; useful for brushing young trees. \$1.50 each.



Tree Brush, Wire. For older trees; can be used with long handle. Complete, \$2.

TREE SCRAPER. For scraping diseased bark from trees, removing insect eggs, etc. 50 cts. each.

TREE-TUBS, New York Style. Made of cedar timber, painted green.



No.	Diam.	Height	Each
1.	12 in.	10 5/8 in.	\$1 40
2.	13 in.	12 3/4 in.	1 75
3.	14 1/2 in.	14 3/4 in.	2 10
3 1/2	16 1/2 in.	15 3/4 in.	2 70
4.	19 1/2 in.	16 5/8 in.	2 90
5.	22 1/2 in.	18 1/2 in.	3 70

TWINE, Green Smilax. In 2-oz. balls, 75 cts. per lb.
Florists' Linen (Silkline)—Green or Gray. In 2-oz. reels, \$2.00 per lb.

VASES, Flower. Indurated wood fiber; for cut flowers.



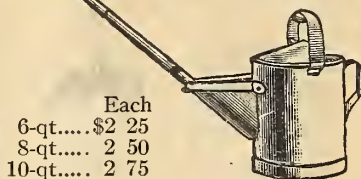
No.	In.	Depth	Each	Doz.
3.	4	6.	\$0 60	\$6 00
2.	4 1/2	9.	65	7 00
1.	5 1/2	10.	75	8 00
0.	8	13.	85	9 00

For receptacles for holding above, see Saucers, p. 152.

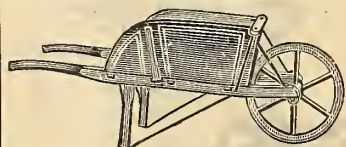
WATERING POT, French Model. Long spout, with brass joints, fitted with, coarse and fine nozzles. Made of heavy galvanized iron reinforced with steel rim.

Each
6-qt.....\$2 50
8-qt..... 2 75
10-qt..... 3 00
12-qt..... 3 25

WATERING POT, The "Philadelphia." With brass joints and two copper-faced roses.



Each
6-qt.....\$2 25
8-qt..... 2 50
10-qt..... 2 75
12-qt..... 3 00



WHEELBARROW, Thorburn's Garden. None better made. Iron braced and bolted. Finished in natural wood, red or green. Steel wheel, if desired, 50 cts. extra. Each
 No. 2, Small.....\$3 50
 No. 4, Medium..... 4 50
 No. 5, Large..... 5 50

WEEDERS. Cleveland Lawn. Chisel blade; trigger holds weeds so they can be pulled out. 75c. each.



Excelsior Finger. Useful for loosening and pulverizing the soil. 10 cts. each, \$1 per doz.

Lang's Hand. A strap over the finger keeps the tool in the hand while operator's fingers are left free. 20 cts. each, \$2.25 per doz.

Eureka Hand. The prongs of solid forged steel are thin and long; fine for loosening soil. Short handle. 40 cts. each, \$4.25 per doz.



Magic. Combined Weeder and hoe. Fingers of tempered steel. The hoe is useful in loosening hard ground. 40 cts. each, \$4.25 per doz.

Norcross Adjustable Cultivator. Made of first-class material, teeth



forged from solid steel. Can be entirely taken apart, every piece being detachable. Works between the rows, or center tooth can be removed to straddle row. 85 cts. each.

Flower-Pots

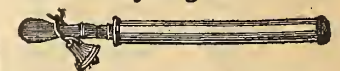


Best make. Of sizes 2 to 3 in. we do not sell less than 100; of larger sizes not less than a dozen. We pack carefully in the best manner, but will not be responsible for breakage in transit.

Size,	Doz.	100	1,000
2 in.....		\$0 90	\$7 00
2 1/2 in.....		1 25	10 00
3 in.....		1 50	13 00
4 in.....	\$0 40	2 40	20 00
5 in.....	60	4 00	36 00
6 in.....	80	6 00	54 00
7 in.....	1 50	10 00	
8 in.....	2 00	14 00	
9 in.....	3 00	20 00	
10 in.....	3 75	27 00	
11 in.....	5 25	40 00	
12 in.....	7 00	55 00	

BULB PANS. Doz.
 6 in.....\$0 80
 8 in..... 2 00
 10 in..... 3 75
 12 in..... 7 00
 All prices subject to change.

Syringes



No. A. One spray rose and one jet. Length of barrel 12 in., diam. 1 in. \$2.75 each.



No. G. One spray rose and one stream jet, side attachment and elbow-joint for sprinkling under foliage. Length of barrel 16 in., diam. 1 1/2 in. \$5.25 each.



No. H. Sheet brass with fixed spray rose; length of barrel 16 in., diam. 1 1/2 in. \$3.25 each.



No. 2. One coarse and one fine spray rose, and one jet, side attachment. \$4.75 each.

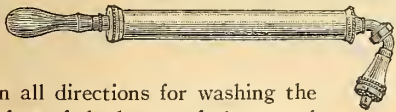
SYRINGES, continued



No. 3. Large size. Has one stream and two spray roses, with side pieces on barrel. Length of barrel, 18 in., diam. 1½ in. \$7 each.

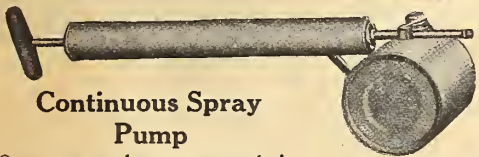
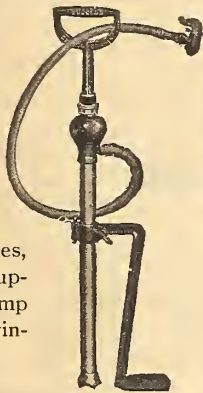
No. 4. Large size. Has jet and three rose sprays, two of which are kept in the handle. Length of barrel, 18 in., diam. 1½ in. \$7.50 each.

No. 6. Large size. Has one spray rose and goose-neck angle joint, turning in all directions for washing the under surface of the leaves of plants and flowers, cleansing them from insects, etc. Length of barrel, 18 in., diam. 1½ in. \$8.50 each.



Spray Pump, Bucket

Being made of brass, it is not affected by the arsenites used for spraying. Easily operated; throws a solid stream 50 feet. It is provided with a combination nozzle, and also with a sprinkler for flowers. For spraying large trees, an 8-foot pipe extension is supplied for 60 cts. extra. This pump is also valuable for washing windows. \$4.



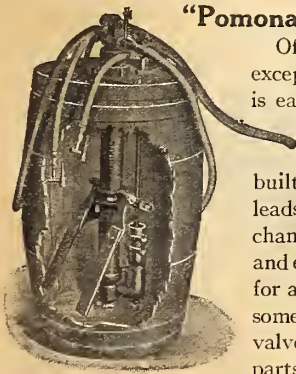
Continuous Spray Pump

Operates on the compressed air principle and throws a continuous spray. Interchangeable brass nozzle—one to throw the spray straight ahead, and one to spray up or down. Capacity, one quart.

Each Each
Tin.....\$1 00 | Brass.....\$1 75

"Pomona" Spray Pump

Of large capacity and exceptionally powerful. It is easily operated by one person when necessary, but is especially built for spraying with two leads of hose. The air-chamber is rather large, and enough air is stored up for a continuous spray for some time. Plunger, valves and all working parts are made of very



"POMONA" SPRAY PUMP, continued

good quality brass. It can be quickly inserted or removed from the barrel. Its paddle agitator is far superior to the old return-discharge method of stirring. Adjustable to different-sized barrels. Pump only with agitator, \$16.50.

Outfit C. Pump, agitator, 15 feet of discharge hose and spray nozzle, \$20.00; fitted to barrel, \$23.50

Outfit D. Pump, agitator, two leads of discharge hose and two spray nozzles, \$23.00; fitted to barrel, \$26.50.

"Fruitall" Spray Pump

Same as Pomona, but smaller. Pump with agitator and one lead of 15 feet of ½-in. discharge hose, with spray nozzle, \$13.75; fitted to barrel, \$18.25.

Vaporizing Spray Pump, Hand

A very useful sprayer for a small garden. Simple and effective; no valves to get out of order. Made of tin or brass.

Each Each
Tin.....\$0 50 | Brass.....\$1 00

"Auto-Spray" Spray Pump

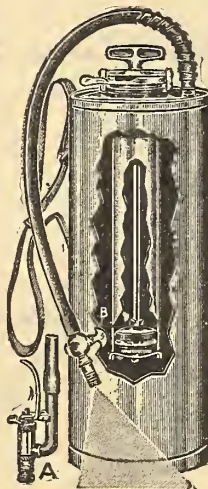
A self-operating Sprayer of simple construction, durable, easy to carry and to work. Made of galvanized iron or solid brass, with 4-ply rubber hose. For spraying trees, cleaning windows, etc. A perfect pump.

With brass tank and stop-cock nozzle, hose and fittings, \$8.

With galvanized iron tank and stop-cock nozzle, hose and fittings, \$5.

Either kind of tank fitted with Auto-Pop nozzle, instead of stop-cock nozzle, 50 cts. extra.

Brass extension pipes, 2 feet long, 60 cts.
Auto-Pop nozzle, if sold alone, \$1.50.



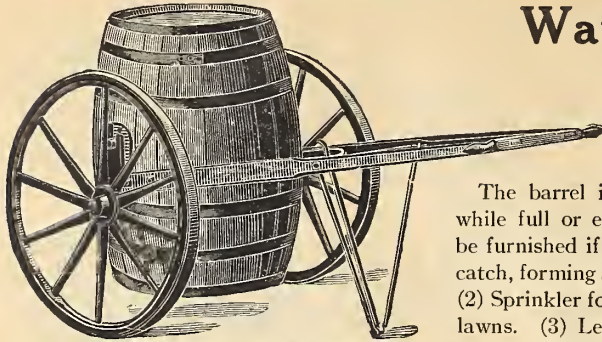
Knapsack Spray Pump

FOR VINEYARD, ORCHARD AND FIELD SERVICE

Made entirely of brass and copper, with ball valves and metal plunger all easily accessible. The discharge is at the bottom, and the pump can be entirely drained of the liquid. It should be carried on the back with the straps crossed in front. The reservoir is made of heavy copper and will hold about five gallons. Complete with 3½ feet of ¾-inch discharge hose, Vermorel nozzle and lance for degorger, \$18.



Water-Barrel, Truck and Barrel



CAN BE MADE INTO SPRINKLER, LEAF-RACK AND HAND-CART

The barrel is easily disconnected from the truck, either while full or empty. The following extra attachments can be furnished if required: (1) Box with trunnions and spring catch, forming a dumping hand-cart. (2) Sprinkler for watering walks and lawns. (3) Leaf-rack.



Used as a Leaf-Rack



Used as a Hand-Cart

Water-Barrel, Truck and Barrel	Each
Truck and barrel, wooden wheels, 3-in. tires.....	\$12 75
Truck and barrel, steel wheels, 3-in. tires.....	16 00
Sprinkler attachment, extra.....	5 00
Hand-cart box, extra.....	4 50
Leaf-rack, extra.....	6 50
Extra trunnions, per pair.....	50
Truck and trunnions, wooden wheels, without barrel.....	9 75
Truck and trunnions, steel wheels, without barrel.....	12 75

The "Velvetlawn" Grass Seeder

18 inches wide

The use of a machine in the seeding of new lawns or grass plots, the re-seeding of old lawns, the drilling of grass seeds into putting-greens, and the renewing of grass plots every month or so has proved a decided success wherever it has been tried. The machine to do this work is the "Velvetlawn" Grass Seeder.

Price \$20 net cash.



"Velvetlawn" Grass Seeder

The Thorburn Century Ball-Bearing Lawn Mower

Thorburn's Century Ball-Bearing Lawn Mower is a marvel of simplicity, as one screw adjusts both bearings. It has a simple, self-adjusting device, which keeps the bearing properly adjusted for a long time, and a double interchangeable ratchet. By shifting handle bails from the front to the rear lugs on the side frame, the Mower can be made to cut terraces and steep banks.

While cheaper mowers are sold all over, they will be found far dearer in the end. It pays to get a good mower.

NET PRICES	Each
14-in. cut.....	\$10 50
16-in. cut.....	11 50
18-in. cut.....	12 50
20-in. cut.....	13 50

Manufactured expressly for us, and is, in every respect, the BEST LAWN MOWER ever made.



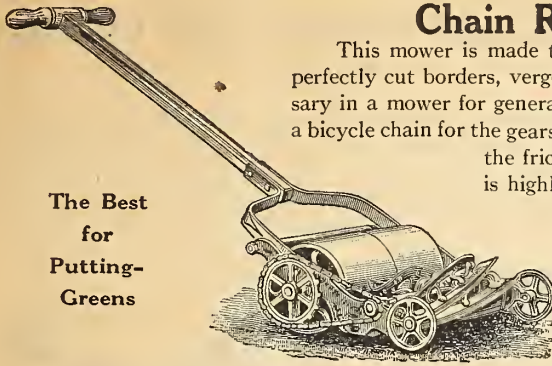
Lawn Trimmer

8-inch.....	\$6 00
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Chain Roller or Golf Mower

This mower is made to meet the demand for a machine that will more perfectly cut borders, verges, etc., and yet retain all the other features necessary in a mower for general work. Its great advantage is the substitution of a bicycle chain for the gears generally used in this style of mower. This reduces the friction to a minimum. The machine with six blades is highly recommended for work on putting-greens.

The Best
for
Putting-
Greens



Net Prices

4 blades 6 blades

12-in. cut.....	\$13 00	\$14 00
14-in. cut.....	14 00	15 00
16-in. cut.....	15 00	16 00
18-in. cut.....	17 00	18 00

Grass-Catcher

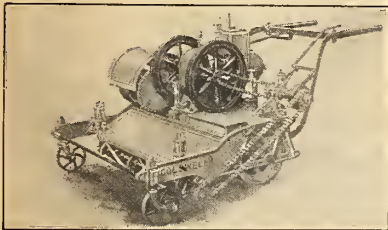
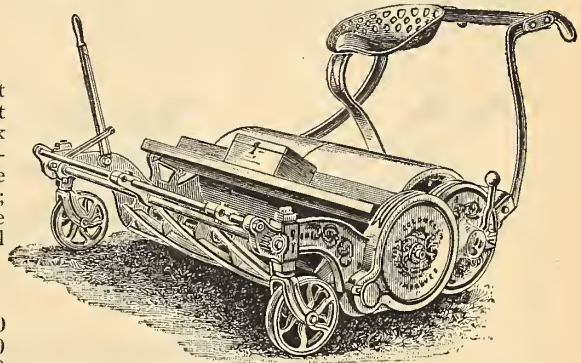
14-in.....	\$1 85	18-inch.....	\$2 15
16-in.....	2 00	20-inch.....	2 30

Improved Horse Lawn Mower

This well-known standard mower has side draft attachment, to enable the horse to walk on the cut grass only, and caster-rollers which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement; the same lever serves the purpose of raising the knives from the ground when driving over gravel walks or roads.

NET PRICES, free on board, New York

	Each	
25-in. cut, no shafts, 4 blades.....	\$53 00	
30-in. cut, complete, ".....	88 00	
35-in. cut, complete, ".....	101 00	
40-in. cut, complete, ".....	128 00	



Coldwell's Combination Roller and Motor Lawn Mower

This machine cuts a swath 40 inches wide, is equipped with a two-horse-power motor capable of propelling the mower through almost any height of lawn grass, and up grades as steep as 25 per cent. Price \$475.

Horse Boots

Prevent Cutting up the Turf

Made of very strong, heavy leather, closely riveted. Price per set of four, \$12.00

Water-Ballast Roller

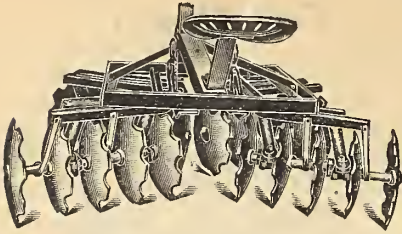
Roller-Bearing. Can Be Filled without Turning on End, with Either Water or Sand (Patented)

Suitable for Lawns, Tennis-Courts and Putting-Greens, Seams are Electric-welded, not Riveted

One- or two-section "Water Weight" Rollers without counter-balancing handle-weights.

No.	Diam. in.	Length in.	Sec- tions	Weight empty lbs.	Weight filled with water, lbs	Weight filled with sand, 50% heavier	Price
WB3.....	14.....	20.....	1.....	60.....	175.....	".....	\$11 00
WB5.....	18.....	24.....	1.....	85.....	300.....	".....	13 00
WB7.....	24.....	24.....	1.....	110.....	500.....	".....	17 00
WB11.....	18.....	24.....	2.....	100.....	300.....	".....	18 00
WB13.....	24.....	32.....	2.....	150.....	600.....	".....	24 00

If handle-weight is desired add \$1.50 to above prices.

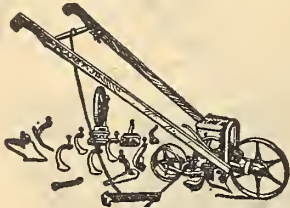
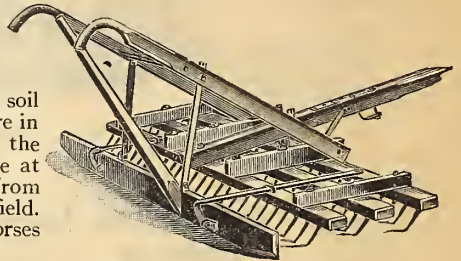


Clark's A5 Double-Action Cutaway Harrow

This Harrow will cut and reduce the toughest sod to plant-food without the aid of a plow. It will cut from 28 to 30 acres or will double-cut 15 acres in a day. It can be set so as to move the earth but little, or at so great an angle as to move all the earth one foot. It keeps the surface true and the machine runs true in line of draft. Price, \$45 net, f. o. b. factory (Conn.).

Cutaway Grading or Smoothing and Leveling Harrow

With this tool any field can be made smooth and the soil pulverized fine enough for a flower-bed. Will smooth an acre in twenty minutes. It is adjustable with a lever, by which the entire action is controlled by the driver, and he can remove at will all the earth possible for the team to haul, taking it from hills or uneven places and putting it into hollows, to level up field. No. 6, for one horse (6 feet wide), \$19.50. No. 8, for two horses (8 feet wide), \$22, f. o. b. factory (Conn.).



"Planet Jr." No. 4

"Planet Jr." Farm and Garden Tools

Illustrated catalogue describing fully many other "Planet Jr." tools mailed on application. Prices are quoted net F. O. B. New York.



"Planet Jr." No. 16

"Planet Jr." No. 16 Single-Wheel Hoe, Cultivator, Rake and Plow

This Single-Wheel hoe has a very full set of tools, several of them being of new design, such as have been found to work in the very best manner. It has 11-inch wheel, with broad face; is very light, strong and easy running. It has adjustable handles and quick-change frame.

EQUIPMENT

2 6-inch Hoes	1 7-inch Rake	1 Large Garden Plow
3 Cultivator Teeth	1 4-inch Rake	1 Leaf Guard
	Weight, 27 lbs.	Price, \$7.25

"Planet Jr." No. 17 Single-Wheel Hoe

2 6-inch Hoes	3 Steel Cultivator Teeth	1 Leaf Lifter
	Weight, 22 lbs.	Price, \$6.25

"Planet Jr." No. 3. Hill and Drill Seeder. Efficient hill dropping outfit. Complete.....	Each	\$12 50
"Planet Jr." No. 4. Seeder, Wheel Hoe, Cultivator and Plow. Complete.....		13 25
As a seeder only.....		10 75
"Planet Jr." No. 8. Horse Hoe and Cultivator.....		11 50
"Planet Jr." No. 11. Double-Wheel Hoe, Cultivator and Plow. Invaluable for use on all small crops.....		11 00
"Planet Jr." No. 12. Double-Wheel Hoe, Cultivator and Plow. Identical with No. 11, except fewer attachments.....		8 75
"Planet Jr." No. 13. Double-Wheel Hoe. Same as No. 12, but Hoe only.....		6 00
"Planet Jr." No. 18. Single-Wheel Hoe. Equipped with Hoes only.....		4 50
"Planet Jr." No. 25. Combined Hill and Drill Seeder, Double-Wheel Hoe, Cultivator and Plow. Large enough for field use.....		16 00
"Planet Jr." Twelve-Tooth Harrow, Cultivator and Pulverizer. Complete.....		11 50
With Lever Wheel only.....		9 50
Without Wheel or Pulverizer.....		7 75
"Planet Jr." No. 31. Combined Drill Seeder and Single Wheel Hoe. Complete.....		8 50
"Planet Jr." No. 33. Single Wheel Hoe (without seeder).....		3 75

Stevens Hand Fertilizer Sower.....	10 00
Champion Root Cutter No. 1.....	7 00
The Lion Feed Cutter No. 3.....	20 00

Thorburn's List of Vegetable Seeds

That May Be Sown in Each Month from February to September in the Climate of New York

FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
SOW IN HOTBED Early Beans Broccoli Early Cabbage Forcing Carrot Early Celery Cucumber Eggplant Early Lettuce Parsley Pepper Radish Tomato	SOW IN HOTBED Early Beans Early Beets Brussels Sprouts Early Cabbage Forcing Carrot Cauliflower Celery Eggplant Kohlrabi Lettuce Parsley Pepper Radish Tomato	SOW IN HOTBED Cucumber Eggplant Melon Pepper Tomato IN OPEN GROUND Asparagus English Beans Beets Brussels Sprouts Early Cabbage Carrot Cauliflower Celery Cress Kohlrabi Leek Lettuce Cress Lettuce Onion Parsley Pepper Potatoes Radish Spinach Early Turnip	IN OPEN GROUND Artichoke Asparagus Beans, Bush and Running Beets Brussels Sprouts Carrot Cauliflower Celery Sweet Corn Cress Cucumber Kohlrabi Leek Lettuce Melon Parsley Parsnip Peas Potatoes Radish Salsify Spinach Early Turnip All Herbs	IN OPEN GROUND Beans, Lima and all other sorts Beets Broccoli Brussels Sprouts Carrot Cauliflower Sweet Corn Cress Cucumber Endive Kale Kohlrabi Lettuce Melon Okra Nasturtium Onion Parsley Parsnip Peas Potatoes Pumpkin Radish Spinach Squash Early Peas White Turnip Rutabaga	IN OPEN GROUND Beans Beets Carrot Sweet Corn Corn Salad Cress Cucumber Endive Gherkin Kale Kohlrabi Lettuce Nasturtium Okra Early Peas Pumpkin Radish Spinach Squash White Turnip Rutabaga	IN OPEN GROUND Beans, Bush Corn Salad Cucumber Endive Lettuce Welsh Onion Early Peas Radish Spinach Turnip	IN OPEN GROUND Cabbage for cold-frames Cauliflower for coldframes Corn Salad Cress Siberian Kale Lettuce Mustard Winter Radish Spinach Turnip Sweet Peas
THORBURN'S Earliest of all Stringless Green Pod BEANS	IN OPEN GROUND Beans, B. Wind-sor Beets Carrot Leek Onion Peas Potatoes Radish Spinach Early Turnip	IN OPEN GROUND Cress Kohlrabi Lettuce Onion Parsley Parsnip Peas Potatoes Radish Spinach Early Turnip	IN OPEN GROUND Cress Kohlrabi Leek Lettuce Melon Parsley Parsnip Peas Potatoes Radish Salsify Spinach Early Turnip All Herbs	IN OPEN GROUND Cress Kohlrabi Leek Lettuce Melon Okra Nasturtium Onion Parsley Parsnip Peas Potatoes Pumpkin Radish Spinach Squash Early Peas White Turnip Rutabaga	IN OPEN GROUND Cress Kohlrabi Lettuce Nasturtium Okra Early Peas Pumpkin Radish Spinach Squash White Turnip Rutabaga	THORBURN'S Extra Early Dwarf Erfurt CAULIFLOWER	THORBURN'S Improved Big Boston LETTUCE

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