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# THORBURN'S

HIGH



CLASS

# SEEDS

— 1913 —

ESTABLISHED 1802.

J. M. THORBURN & CO.,  
33 BARCLAY ST., — — — 38 PARK PLACE,  
NEW YORK CITY.

# Complete Assortments of Kitchen-Garden Seeds for Private Families

These assortments contain only the choicest sorts, and are sure to give satisfaction. They are prepared in advance in order to facilitate our work, on which account a considerable reduction from the catalogue prices is made. The reduced price will not be allowed unless the assortment is taken in full and without change.

## No. 1. PRICE, \$2.50; BY MAIL OR EXPRESS, \$2.75

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

## No. 2. PRICE, \$5; BY MAIL OR EXPRESS, \$5.50

1 pt. Beans, Refugee Green-Pod.	1 oz. Cress, or Pepper Grass.	1 oz. Parsnip, Hollow Crown.
1 " " Early Valentine.	1 " Cucumber, Imp. White Spine.	1 pt. Peas, Thor. Ex.-E'y Market.
1 " " Golden Wax.	1 pa. Eggplant, New York Purple.	1 " each Peas, Two Best Wrinkled.
1/2 " " Stringless Green-Pod.	1 " Kohlrabi, Early White Vienna.	Our Selection.
1 " " Challenger Lima.	1 " Leek, Best Flag.	1 pa. Pepper, Chinese Giant.
1 oz. Beet, Egyptian.	1 " Lettuce, Big Boston.	1 oz. Radish, White-tipped.
1 " " Globe.	1 " " May King.	1 " " Scarlet Turnip.
1 pa. Cabbage, Early Wakefield.	1 " " Cos, or Romaine.	1 " " Scarlet Globe.
1 " " Ball-Head.	1 " " Giant Crystal Head.	1/2 lb. Salsify, Thor. Imp. Thick-r't'd.
1 " " Red, for pickling.	1 " Melon, Notted Gem.	1/2 lb. Spinach, Viroflay.
1 oz. Carrot, Half-Long.	1 " " Long Island Beauty.	1 pa. Squash, E'y Bush Cr'kneck.
1 pa. Cauliflower, Thor. Gilt-Edge.	1 " " Water, Sugar Stick.	1 " Hubbard.
1 " " Thor. Snowball.	1 " " Black Spanish.	1 oz. Boston Marrow.
1 " Celery, White Plume.	1 oz. Okra, Perkins' Improved.	1 pa. Tomato, Early June Pink.
1 " " Fin de Siecle.	1/2 " Onion, White Globe.	1 " " Stone.
1 pt. Corn, Early Bantam.	1/2 " " Large Red Globe.	1 oz. Turnip, Snowball.
1 " " Country Gentleman.	1/2 " Parsley, Extra Curled.	1 " " Yellow Globe.
1 " " Stowell's Evergreen.		

## No. 3. PRICE, \$10; BY MAIL OR EXPRESS, \$11

1 qt. Beans, Refugee Green-Pod.	1 qt. Corn, Country Gentleman.	2 ozs. Parsnip, Hollow Crown.
1 pt. " Early Valentine.	1 " " Stowell's Evergreen.	1 qt. Peas, Thor. Ex.-E'y Market.
1 " " Golden Wax.	1 oz. Corn Salad, Large-seeded.	1 pt. each Peas, Four Best Wrinkled,
1 " " Stringless Green-Pod.	2 " Cress, or Pepper Grass.	Our Selection.
1 " " Old Homestead.	1 " Cucumber, Imp. White Spine.	1 pa. Pepper, Chinese Giant.
1 " " Challenger Lima.	1 pa. Eggplant, Imp. N. Y. Purple.	2 oz. Radish, White-tipped.
2 ozs. Beet, Egyptian.	1/2 oz. Endive, Green Curled.	2 " " Scarlet Turnip.
2 " " Globe.	1/2 " " Broad-leaved.	1 " " Early White Turnip.
2 " " Half-Long.	1/2 " Kohlrabi, Early White Vienna.	2 " " Scarlet Globe.
1 pa. Brussels Sprouts, Half Dw'f.	1 pa. Leek, Best Flag.	1 " " Chinese Winter.
1/2 oz. Cabbage, Early Wakefield.	1 oz. Lettuce, Big Boston.	2 " Salsify, Thor. Imp. Thick-r't'd.
1 " " Savoy.	1/2 " " May King.	1/2 lb. Spinach, Viroflay.
1 " " Thorburn Private	1/2 " " Cos, or Romaine.	1 oz. Squash, E'y Bush Cr'kneck.
Stock.	1/2 " " Giant Crystal Head.	1 pa. Hubbard.
1 " " Red, for pickling.	1 pa. Melon, Long Island Beauty.	1 oz. Boston Marrow.
1 " Carrot, Early French Forcing.	1 " " Notted Gem.	1 pa. Tomato, Early June Pink.
1 " " Half-Long.	1 " " Water, Sugar Stick.	1 " " Stone.
1/2 " Cauliflower, Thor. Gilt-Edge.	1 " " Black Spanish.	1 " " Beauty.
1/2 " " Thor. Snowball.	2 ozs. Okra, Perkins' Improved.	1 " " Royal Red.
1 pa. Celery, Fin de Siecle.	2 " Onion, Yellow Danvers.	1 oz. Turnip, Thor. Fam. Rutabaga.
1 oz. " White Plume.	1 " " Large Red Globe.	1 " " Snowball.
1 pa. " Golden Self-blanching	2 " " White Globe.	1 " " Yellow Globe.
1 qt. Corn, Early Bantam.	2 " Parsley, Extra Curled.	1 pa. each Herbs, Five Varieties.
1 " " Cory.		

## No. 4. PRICE, \$18; BY MAIL OR EXPRESS, \$20

2 qt. Beans, Refugee Green-Pod.	2 qts. Corn, Cory.	4 ozs. Parsnip, Hollow Crown.
2 " " Early Valentine.	2 " " Country Gentleman.	1 qt. Peas, Thor. Ex.-E'y Market.
1 " " Golden Wax.	3 " " Stowell's Evergreen.	7 qts. Peas, Four Best Wrinkled,
1 " " Stringless Green-Pod.	4 ozs. Corn Salad, Large-seeded.	Our Selection.
1 " " Old Homestead.	4 " Cress, or Pepper Grass.	1/2 oz. Pepper, Chinese Giant.
1 " " Challenger Lima.	2 " Cucumber, Imp. White Spine.	1 " Sweet Salad.
4 oz. Beet, Egyptian.	1/2 " Eggplant, Imp. N. Y. Purple.	4 " Radish, White-tipped.
4 " " Globe.	1 " Endive, Green Curled.	4 " " Scarlet Turnip.
4 " " Half-Long.	1 " " Broad-leaved.	2 " " Early White Turnip.
1 pa. Brussels Sprouts, Half Dwarf.	1 " Kohlrabi, Early White Vienna.	4 " " Scarlet Globe.
1/2 oz. Cabbage, Early Wakefield.	1 " Leek, Best Flag.	2 " " Chinese Winter.
1 " " Savoy.	1 " Lettuce, Big Boston.	4 ozs. Salsify, Thor. Imp. Thick-r't'd.
1 " " Thorburn Private	1 " " May King.	1 lb. Spinach, Viroflay.
Stock Flat Dutch.	1 " " Cos, or Romaine.	1 oz. Squash, E'y Bush Cr'kneck.
1 " " Red, for pickling.	1 " " Giant Crystal Head.	1 " Hubbard.
1/2 " Carrot, Early French Forcing.	2 " Melon, Notted Gem.	1 " Boston Marrow.
1/2 " " Half-Long.	2 " " Long Island Beauty.	1/2 " Tomato, Early June Pink.
1/2 " Cauliflower, Thorburn Gilt-Edge.	2 " " Water, Sugar Stick.	1 " " Stone.
1 pa. " Thor. Snowball.	2 " " Black Spanish.	1 pa. " Beauty.
1 oz. Celery, Fin de Siecle.	4 " Okra, Perkins' Improved.	1 " " Royal Red.
1 " " White Plume.	2 " Onion, Yellow Danvers.	2 ozs. Turnip, Snowball.
1 " " Golden Self-blanching	4 " " White Globe.	2 " " Yellow Globe.
2 qts. Corn, Early Bantam.	4 " " Large Red Globe.	2 " " Thor. Fam. Rutabaga.
	2 " Parsley, Extra Curled.	1 pa. each Herbs, Five Varieties.

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#### THORBURN AFRICAN ORANGE DAISY HYBRIDS

**WE** will mail you a package of the seed of these very unusual and beautiful African Daisy Hybrids for 15 cents. We have had this picture exquisitely reproduced in the natural colors of the flowers, and a copy will be mailed you if you request it at the time of ordering the seeds.

The picture we will send you is a reproduction from a water-color made expressly for us by a celebrated German artist, and bears no relation to the usual seed catalogue picture in colors.

1802-1913

# J. M. THORBURN & CO.

A house that, during the one hundred and eleven years it has been in business, has clung firmly to its original idea of supplying seeds of the highest grade only, gaining thereby the confidence and loyal friendship of a steadily increasing number of planters.

**T**HIS is our 112th successive Annual Catalogue. It contains lists of the very choice seeds, bulbs, roots (and some other things) that we have to offer for 1913. You can make up your order from its pages with entire confidence in the exceptional quality of the products we are offering.

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.

We would suggest that, if convenient, you make up your orders 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 when you want them. Placing your orders late sometimes makes delays unavoidable. But we have the facilities for handling a vast amount of business and your orders will receive our best attention, regardless of when they come.

If you don't just know what to order, tell us the size of your garden or how much you want to spend—we will do the rest; we will cheerfully select suitable seeds for you and even go so far as sending you a plan for your garden.

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

May we have the pleasure of filling your orders?

---

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

## 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.

## 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

Eight cents per pound should be added if wanted by mail or prepaid express in the United States, and 16 cents per pound in Canada, except for seeds ordered by the packet, ounce or  $\frac{1}{4}$ lb., which we mail free. By special arrangement with the express companies we can ship seeds and bulbs at a reduction of 20 per cent from the regular rates. Unless otherwise instructed, we send orders from parties unknown to us C. O. D.

*It 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.*

## NAME, ADDRESS, ETC.

We beg our correspondents to give us *on 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 shall ourselves choose the most advantageous and convenient means, but entirely at the risk of the customer.

## WARRANTIES

Seeds of best quality will often 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°; but if Melons and other seeds of that family, Bush or Pole Beans, and other plants of subtropical 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°. 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.*

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.

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E. E. BRUGGERHOF, Vice-President and Treasurer  
A. PROTIN, Asst. Treasurer  
J. J. WILSON, Secretary

J. M. THORBURN & CO.

33 Barclay Street, New York

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO THE COMPANY  
Telephone No. 6445 and 6446 Barclay. Private Exchange connecting all departments

## A FEW PLEASANT WORDS FROM ONE OF OUR CUSTOMERS

Mr. Lewis, whose letter we print below, is gardener and superintendent of a large estate near New York City, and a particularly wide experience makes his opinion a valuable one.

*Messrs. J. M. Thorburn & Co.*

*Dear sirs:—It is with pleasure that I write to inform you of the success I had this spring, summer and fall with vegetable seeds that were bought from you. I shall mention a few:*

*New York Improved Eggplant was a decided success. Parsnips all one pound and over—all solid. Carrots, Summer and Fall, large yield, very fine. Early Nordheim Sweet Corn was exceptionally fine. Cauliflower very good despite lack of proper protection against rabbits. Lima Beans fine, and a very good yield up to frost. Onions finest I ever raised. Crawford Half-Dwarf Celery the best I have raised in forty years.*

*In fact all seeds I planted of yours gave complete satisfaction. I have grown seeds from practically every large concern in the country, and I can honestly say that yours have always given me satisfaction.*

*It is with pleasure I write you this, and trust I shall be able to give you a larger order in the spring. I remain*

*Yours truly,*

CHARLES LEWIS.



PORTION OF OUR TRIAL-GROUNDS

## Directions for the Cultivation of Vegetables

**T**O SECURE a good crop of vegetables, three things at least 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, especially evergreens, 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 seed 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 the 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 the seedsmen 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, Cauliflower 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 or 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

**I**N 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 3 x 6 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 every thing 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  $100^{\circ}$  or more, which is too hot to sow the seed in; but in two or three days it will subside to  $90^{\circ}$  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.

# Novelties and Specialties in Vegetable Seeds

## Bean, French Kidney, Dwarf Princess White Dutch

Not by any means a new sort but a variety of great value notwithstanding. As an abundant cropper it is unsurpassed and the tenderness of its pods is hardly equaled by any other variety. The pods may be allowed to remain on the vines even until quite old without impairing their tenderness in the least or affecting their tastefulness when cooked. Furthermore there is no tendency toward rust, for this sort is not easily affected by wet weather and it can stand more cold than almost any other kind. It is valuable also as a shell bean. Pt. 20 cts., qt. 30 cts.,  $\frac{1}{2}$ pk. \$1, pk. \$1.75.

## Beet, Thorburn's Early Yellow Turnip

This variety though not new we consider deserving of a place in our list of Novelties and Specialties. It is very early and its deep orange-yellow flesh is of remarkably fine texture and lusciously sweet and tender.

It is most desirable for family use and should be better known. *It is not a Mangel-Wurzel.* Pkt. 5 cts., oz. 15 cts.,  $\frac{1}{4}$ lb. 40 cts., lb. \$1.50.

## Brussels Sprouts, "Hercules"

This fine, new sort is tolerably early, of dwarf habit (scarcely  $1\frac{1}{2}$  feet high), of robust and sturdy growth and with large, round, solid sprouts, beginning close to the ground. Desirable. Pkt. 10 cts., oz. 40 cts.

## New Early Cabbage, Copenhagen Market GENUINE DANISH-GROWN SEED

Undoubtedly the finest, large, round-headed early Cabbage. The heads average about ten pounds each in weight, are very solid, and of fine quality. It matures as early as Charleston Wakefield, and will give a heavier yield per acre than that well-known variety. The plant is short-stemmed, the leaves light green, rather small, and always tightly folded. The plants, therefore, can be set closer together than is usual with varieties of similar size. Pkt. 15 cts., oz. 60 cts.,  $\frac{1}{4}$ lb. \$2, lb. \$7.



THORBURN'S GILT-EDGE GOLDEN SELF-BLANCHING CELERY

## Jersey Wakefield Cabbage

THORBURN'S SELECTED STOCK

Undoubtedly the finest strain of this most popular, well-known early variety 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.

## Enkhuizen Glory Cabbage

Large early sort, white and very solid. Produces fine, ball-shaped heads and combines large size with earliness as no other early Cabbage does. A fine market sort. One of the best. Pkt. 10 cts., oz. 30 cts.,  $\frac{1}{4}$ lb. 85 cts., lb. \$3.

## 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. \$2.25,  $\frac{1}{4}$ lb. \$7.50.

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

Golden Self-blanching is the variety of Celery par excellence and our strain we can recommend 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. 15 cts., oz. 85 cts.,  $\frac{1}{4}$ lb. \$3.25, lb. \$12.

## Thorburn's Noroton Selected White Spine Cucumber

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. 25 cts.,  $\frac{1}{4}$ lb. 65 cts., lb. \$2.

## Extra-Early Nordheim Sweet Corn

The earliest Sweet Corn in cultivation. Produces stalks from 6 to 7 feet high, each bearing three to 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. 30c., qt. 50c.,  $\frac{1}{2}$ pk. \$1.50, pk. \$2.50.

## Thorburn's Black Beauty Eggplant

Our strain of this handsome, early, purplish black, large-fruited variety is unexcelled. The fruits are of remarkably fine quality, produced continuously and developing more quickly than those of other large sorts. Pkt 10 cts., oz. 40 cts.

## Thorburn's Big Boston Lettuce

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 field of Big Boston Lettuce on page 32. Pkt. 5 cts., oz. 20 cts.,  $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

## Universal Lettuce For Forcing or for Open Ground

Thus far, forcing varieties of Lettuce have been valuable for forcing only and not for open ground. This sort, therefore, has a twofold value in that it can be used both for forcing and for outdoor planting. "Universal" is, as a forcing kind, most excellent; it grows very fast and is ten days earlier than any other sort, besides producing large, solid heads, a quality which is found only in sorts that are cultivated in the open ground. It is at the same time tender and crisp. In the open ground it grows to an enormous size, is very beautiful in appearance, and the heads are perfectly solid. It is hardier than most sorts, and can therefore be planted out very early. It stands the heat of summer admirably and is slow to run to seed. Pkt. 20 cts.

## Golden Yellow Cos Lettuce

Produces bright golden yellow leaves and large, solid hearts, crisp and tender and of excellent flavor. It stands a long time before running to seed. Pkt. 5 cts., oz. 20 cts.,  $\frac{1}{4}$ lb. 60 cts.

## Red Cos Lettuce

A very attractive variety; productive and unusually slow in running to seed. The head of the full-grown plant is tall and entirely green with the exception of a brown-red tinge on top. The outer leaves are long, rounded at the ends and deeply colored red-brown. It usually heads well without tying. Pkt. 5 cts., oz. 20 cts.,  $\frac{1}{4}$ lb. 50 cts.

## Hybrid Casaba Muskmelon One of the Finest Sorts in Cultivation

A vigorous grower and an enormous yielder. It produces melons of large size, averaging 8 to 10 inches in diameter, and of unsurpassed flavor. The skin is green until the fruits begin to ripen, when it turns to a light yellow. The flesh is white, rich and luscious and from 2 to 3 inches thick. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$ lb. 75 cts.

## Tom Watson Watermelon

Produces melons 16 to 22 inches long and 8 to 10 inches in diameter. The dark green rind is thin but tough, so that it stands shipping well. The flesh is deep red, crisp and melting and of finest flavor. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

## Thorburn's Vaugirard Winter Onion

A French variety of inestimable value and much esteemed. It is quite hardy and can stand more frost than any other sort. The bulbs are silvery white, inclined toward flatness, much on the style of Early Paris, its parent. It produces Onions of fine size but short tops and little foliage. Pkt. 10 cts., oz. 35 cts.,  $\frac{1}{4}$ lb. \$1, lb. \$3.

### Denia Onion. GENUINE IMPORTED

We are again able to offer a small quantity of seed of this valuable Onion which was offered by us in 1911, for the first time in America.

It is generally conceded that this is the parent type of the well-known Prizetaker, of which, however, it is a far superior strain. It runs more uniform in size and is a more characteristic globe. The bulb is more compact and its rings or layers of growth are thinner. Generally the neck is smaller than Prizetaker, and it seems to ripen down somewhat earlier. Pkt. 15 cts., oz. 75 cts.

### New Early Dwarf Pea, "Peter Pan"

"Peter Pan," introduced in 1911, has proved itself to be, without doubt, the finest and earliest dwarf wrinkled Pea yet introduced. It is a tremendous cropper, producing long, dark green pods filled with Peas of exquisite flavor. The plants (covered with pods) are robust in habit, and it is surely becoming a favorite dwarf early Pea. Height  $1\frac{1}{2}$  feet. Pkt. of 1 gill, 25 cts.

### Thorburn's Ruby Giant Pepper

A comparatively new variety—a cross between Ruby King and Chinese Giant. It grows quite large and is of a desirable shape for stuffing. It is of a mild and delicate flavor. Pkt. 10 cts., oz. 40 cts.

### Thorburn's Upright Sweet Salad Pepper

Of recent introduction. Handsome, productive, and of finest quality. The color is bright scarlet and the 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. 10 cts., oz. 35 cts.,  $\frac{1}{4}$ lb. \$1, lb. \$3.

### Thorburn's Chinese Giant Pepper

This is probably the largest of all sweet Peppers, and as a stuffing variety it leaves little to be desired. The flesh is very thick and remarkably mild and sweet. Pkt. 10 cts., oz. 40 cts.,  $\frac{1}{4}$ lb. \$1.25, lb. \$4.

### Thorburn's Deep Scarlet Forcing Turnip-Shaped Radish

Produces Radishes of a nice medium size, very tender and crisp and of a rich, deep scarlet color. Very excellent forcing sort. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

### Thorburn's Scarlet Globe-Shaped Radish

This variety is fine for forcing or for the open ground. The Radishes are almost round, of a beautiful, rich scarlet, very tender and crisp. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$ lb. 20 cts., lb. 65 cts.

### Thorburn's Crimson Giant, or Giant Butter Radish

Desirable for forcing or for outdoor planting. Will produce Radishes nearly twice the size of other red forcing varieties and, in spite of their large size, will retain their crispness and solidity. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

### Red Rock Tomato

An exceedingly firm-fleshed variety producing large-sized fruits that ripen evenly without cracking. In color and other general characteristics it closely resembles the well-known Stone on which it is an improvement. Pkt. 5 cts., oz. 25 cts.,  $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

### Thorburn's Improved Terra-Cotta Tomato

An improvement on this very valuable sort introduced by us a number of years ago. It is quite distinct as to color, the pronounced terra-cotta being carried through almost to the very heart of the fruit. It is of delightfully tender flesh with almost no core and nearly free from acidity, and produces medium-sized Tomatoes, solid and firm, particularly desirable for slicing. A very handsome sort. Pkt. 15 cts., oz. 60 cts.

### Montesson Hardy White Winter Turnip

A splendid new, purple-top, pure white, winter variety, used very much by the market-gardeners of Paris and introduced there in 1907. Can endure a certain amount of frost and on that account can be left in the ground at least during the early part of the winter. The flesh is fine and sweet and of almost perfect quality. A very valuable table variety. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$ lb. 60 cts., lb. \$2.

# Flower Seed Novelties and Specialties of Merit



ELEGANCE ASTER

## Elegance Aster (hA)

In Splendid Mixture

The first really beautiful single Aster. The growth is vigorous and the habit quite pyramidal. The flowers have very long, elegantly waved petals, and a very small yellow center only, each borne on a long, firm stem. It is astonishingly floriferous, and is extremely valuable either for bedding or for cut-flowers. The flowers last in water one to two weeks. Pkt. 15 cts.

## New Double Camellia-Flowered

### Giant Begonia (hhA)

Tuberous-rooted

The most striking and remarkable of all double-flowering Begonias. The plants are strong, luxuriant growers, producing their flowers most abundantly on erect stems, qualities which render it a first-class bedder. Sowings of Camellia-flowered Begonias produce 95 per cent double-flowering plants, nearly all of which come true to type. The very double flowers, measuring 4 to 5 inches across, vary in color from vivid rose to scarlet. Though generally edged, some of them are beautifully mottled. They are of such perfect Camellia-shape that they may almost be taken for Camellias. Pkt. 30 cts.

## Calceolaria hybrida, "Golden Glory" (hhP)

As a greenhouse plant this new variety is invaluable, and the English introducer describes it as a hardy herbaceous perennial, claiming the plants to have withstood over 20 degrees of frost. It continues long in bloom and its glorious color makes it a striking acquisition. Pkt. 30 cts., 2 for 50 cts.

## Calliopsis radiata, "Tiger Star" (hA)

A rich and continuously blooming annual with peculiarly colored dark brown and golden yellow tigered flowers, the petals of which are curiously twisted like the Cactus Dahlia. Of easy culture, growing in ordinary garden soil and producing its strikingly colored flowers in great abundance all summer. Grows 8 inches high and forms round, compact bushes. Pkt. 15 cts.



CALLIOPSIS RADIATA, "TIGER STAR"

## Carnation, English Feathered Pink,

### Double Perfection (hhP)

A new superb race of Feathered Pinks producing enormous perfectly double flowers, clear white in the center of the petal, but bordered deep crimson.

Splendid for borders or for cut-flowers. Comes true from seed. Pkt. of 20 seeds, 25 cts.

## Vienna Carnation, Dwarf Early-Flowering, "Brilliant Violet"

This new Carnation is of the same type as the Improved Early Dwarf Vienna Carnation. Like that class it is quite dwarf and compact growing, and very early flowering. The color of this introduction is brilliant violet, a new and distinct shade rarely seen in any mixture. Most striking and very lovely. Pkt. 25 cts.

## Celosia, Ostrich Plume, Pride of Castle Gould (hA)

(*Celosia pyramidalis plumosa hybrida*,  
*Castle Gould*)

Of upright, compact growth, 2 to 3 feet high, with large, fine, feathered heads in many variations of shades and self-colors. Among the more distinct colors will be found Blood-Red, Carmine, Deep Scarlet, Yellow, Orange, etc. Valuable either as a pot-plant or for bedding for sunny situations. Pkt. 25 cts., 2 for 45 cts.

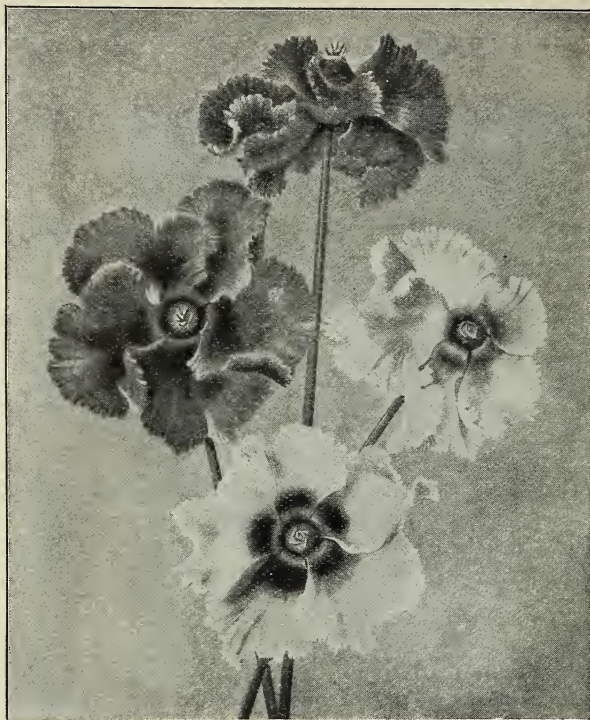
## Cyclamen persicum giganteum, "Lemania" (gBu)

The Lemania Cyclamen should certainly rank among the most interesting and remarkable novelties of the year, and is not to be compared with any other Cyclamen so far in existence. Upon sturdy stems, it produces erect, upward-growing, flat flowers, similar to those of the Anemone or Narcissus. (See illustration.) The petals, most of which are slightly waved and fringed, lend the flowers a pretty and elegant appearance. The color of the flowers is partly pure white, partly white with eye, but clear red and many other tints may also be found. Comes 70 to 80 per cent true from seed. Pkt. 50 cts.

## Delphinium Belladonna

(hP)

Beautiful sky-blue flowers; handsome plants, blooming freely. Comes very true from seed. Pkt. 15 cts.



CYCLAMEN PERSICUM GIGANTEUM, "LEMANIA"

## Dianthus Heddeggii marginatus (hA)

Single Japan Pink, "Silveredged"

This most striking novelty forms fairly dwarf and compact-growing bushes, and flowers very richly and freely, bearing its medium-sized blossoms quite regularly above the foliage, and forming a pretty bouquet of fascinating appearance. The flowers are slightly fringed, dark blood-red with a purple hue, and have a uniform white edge. Highly recommended. Pkt. 20 cts.

## Dianthus Heddeggii nobilis, "Royal Pinks" (hA)

This new class produces plants noble in appearance and flowers 3 to 4 inches in diameter. The petals are frilled and fringed, giving the large flowers a graceful and airy appearance. The colors are a deep, glowing blood-red, shading to carmine and pink and even white. The foliage is grayish blue, sometimes darker. The plant grows vigorously and tall, and gives lots of first-class flowers on long stalks, lasting a whole week in water. The more the blooms are cut the more the plant will produce. Pkt. 15c.

## Dianthus laciniatus punctatus, "Dark- Shaded Princess Pink" (hA)

This novelty generally displays dark and quite peculiar colors, such as purplish violet, blood-red, dark salmon, etc. Many of the flowers show most effective markings, either by star designs or by light-colored, almost white, edgings. A decided acquisition. Pkt. 15 cts.



DIANTHUS LACINIATUS PUNCTATUS  
New "Dark-Shaded Princess Pinks"



Dimorphotheca aurantiaca hybrida (hA)

New, Selected Hybrids in Splendid Mixture (Transvaal Daisy)

In habit, growth and foliage, as well as in the height of the plant (12 to 15 inches) and the size of the flowers ( $2\frac{1}{2}$  to  $2\frac{3}{4}$  inches across), these new hybrids are like the parent *Dimorphotheca aurantiaca*. They vary in color from the purest white to reddish and bluish white tints; sulphur-, lemon- and bright golden yellow; light orange and reddish yellow changing to pale salmon-rose, and from tender salmon to deep salmon-orange. Also varieties with different-colored zones, such as white with a broad sulphur-yellow zone, and soft salmon with a deep salmon-red inner circle. Very easily raised from seed. Pkt. 15 cts., 2 for 25 cts.



DIMORPHOTHECA AURANTIACA HYBRIDA

white flowers during the whole season. Extremely useful for edging and for rockwork. Pkt. 20 cts.

Gypsophila paniculata flore pleno (hP)

By repeated artificial crossing of the double-flowering variety and the single-flowering type, seeds of this handsome perennial have been obtained which produce about 50 per cent of double-flowering plants. The flowers are of the purest white and are indispensable for bouquets and vases. Pkt. 25 cts., 2 for 40 cts.

Linaria macedonica speciosa (hP) Toadflax

Strikingly handsome, hardy perennial Toadflax, a native of the Orient, blooming freely the first year when sown early. Grows  $2\frac{1}{2}$  to 3 feet in height, forming very robust and vigorous-growing plants, garnished with glaucous-green foliage and producing their tall flower-spikes in the greatest abundance. The individual flowers, borne in dense racemes, are an inch across and nearly 2 inches long, including the spur, and present a clear citron-yellow color with large orange-yellow spot on the lower lip. As the flowers last a long time in bloom, they are highly recommended for cutting. Pkt. 20 cts., 2 for 35 cts.

Myosotis alpestris elegantissima coerulea flore pleno (hP)

Double Blue Forget-me-not

A new double-flowered variety of the blue pyramidal Alpine Forget-me-not, coming nearly true from seed. Height of the plant 8 to 9 inches. The double flowers preserve their freshness for a long time. Pkt. 25 cts., 2 for 45 cts.

Dimorphotheca sinuata (hA)

Of as easy culture as *Aurantiaca*, this new South African species distinguishes itself by the singularly pretty color of its flowers. They show a uniform, clear, satiny buff or light chamois with a bluish disc, when fully open in sunshine; the reverse of the petals is purplish red. This rare coloring is distinct and new. The plants grow 12 to 15 inches high, and form regularly branched bushes, densely covered with flowers  $2\frac{1}{2}$  to  $2\frac{3}{4}$  inches in diameter, with light green foliage. Pkt. 25 cts.

Eschscholtzia Thorburni (hA)

The grandest of all Eschscholtzias and an improvement on our own original stock. In habit it is the same as the California Poppy, but it is decidedly distinct in its coloring. The unopened buds are of the richest possible crimson, toning down in the inner side of the flower, when fully matured, to bright flame-color and molten gold. The flowers are larger than those of other Eschscholtzias and are borne with equal profusion. Pkt. 10 cts.,  $\frac{1}{4}$ oz. 40 cts.

Gaillardia Lorenziana, "The Bride" (hA)

A comparatively new, exquisite variety, producing perfectly double, creamy white flowers of great beauty and substance, borne on long stems, making it an ideal plant either for bedding or for cutting. Pkt. 25 cts.

Gypsophila muralis alba (hA)

This new variety differs from the rose-colored type in that it produces snow-white flowers. It is a pretty dwarf annual, thickly studded with tiny pure white flowers during the whole season. Extremely useful for edging and for rockwork. Pkt. 20 cts.

Moonflower, New Early-Blooming,  
"Sky-Blue"

*Ipomœa grandiflora rubro-cœrulea. Early-Flowering*

This entirely new strain produces gorgeous flowers, 4 to 5 inches across, in great abundance. The color is a lovely sky-blue with rose-colored markings. It grows very fast, from 15 to 18 feet in height, and will be found most valuable for trellises, walls, arbors, etc. Sown in February or March in boxes or in hotbeds, the young plants may be set out in April or May in a sunny situation, where they will flower from the end of June until frost. The flowers remain open all day. Pkt. 15 cts., 2 for 25 cts.

Pansy, "Andromeda" (hA)

Produces elegant flowers of remarkable beauty. Striking in its gay colors and elegant habit. The color is a very delicate apple-blossom-pink generally showing a soft lavender-blue or rosy lilac hue, rendered still more effective by a somewhat darker veining. It comes true from seed. Pkt. 20 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 for 25 cts.

Physostegia virginica compacta rosea

(hP)

This Erica-like flowering plant may be classed as one of the finest herbaceous sorts for border and for bedding alike. It is more compact than the ordinary variety, and produces larger flowers more abundantly. Pkt. 25c., 2 for 45c.

Primula Kewensis (gP)

The plant is a strong grower, with bright green leaves, numerous, erect flower-stems, 10 to 18 inches in length, producing flowers in whorls at intervals along their whole length. These are fragrant, bright yellow and nearly an inch in diameter. Pkt. 30 cts.

Primula malacoides (gP)

A Chinese species with dainty flowers of soft lilac-pink, blooming continuously through the autumn and spring. A most useful and charming plant for greenhouse culture. Height 18 inches. Pkt. 30 cts.



VIRGINIA POPPY



PANSY, "ANDROMEDA"

Salvia splendens grandiflora aurea,

"Canary Bird"

A valuable addition to the already existing shades of this indispensable bedder. Only the yellow has been wanting up to the present to complete the range of colors, so that this may well be described as the missing link of the Sages. The large, erect flower-spikes, of a decided canary-yellow, are borne in great abundance and carried well above the dark green foliage, with which they contrast admirably. Pkt. 30 cts.

Senecio elegans pomponicus citrinus

(hA)

This charming new variety of the dwarf pompon Jacobæas grows to a height of 8 to 9 inches, and produces perfectly double, bright citron-yellow flowers of great beauty. Valuable for borders or groups and for carpet bedding; of robust and elegant habit. Pkt. 20 cts., 2 for 35 cts.

**Schizanthus retusus trimaculatus****albus (hA)**

A new, attractive variety of this showy annual, 1½ to 2 feet in height, and coming true from seed. The flowers are 1½ to 1¾ inches across, and each petal bears on a white ground a large, pure golden yellow, somewhat lighter-veined spot, edged with pure white, presenting a three-blotched flower of characteristic marking. Of great effect for flowering groups and very useful as a pot-plant for the greenhouse or conservatory. Pkt. 20 cts., 2 for 35 cts.

**Scabiosa caucasica perfecta (hP)**

Fine, fringed, new variety. Strikingly handsome, ruffled petals; very large, showy flowers. Pkt. 15 cts.

**Snapdragon, Double White (hP)**

A new departure in the class of tall, large-flowering Snapdragons. The flowers are white and are borne on long spikes which are literally covered. Out of the mouthlike aperture in the flowers, between the upper and lower lips, emerge abnormal fantastic petals which give a double and beardlike aspect to the very large blooms. This phenomenon is in evidence in from 50 to 60 per cent of the seedlings, the remainder producing perfect flowers of extra size. Of great value as cut-flowers for vases. Pkt. 25 cts.

**Zinnia, Double Giant (hA) *Zinnia grandiflora robusta plenissima***

A new and distinct class of this ever-popular flower, producing large, very double blooms, from 4½ to 6 inches in diameter. We offer four distinct colors, viz., Sulphur-Yellow, Crimson, Violet and Flesh-color. Each color and mixed, pkt. 15 cts., 2 for 25 cts.

**GLADIOLI PRIMULINUS HYBRIDS (BULBS)**

Blooming in July and August

We doubt if anything more beautiful has been introduced in recent years than these lovely hybrid Gladioli. The exquisite delicacy of their coloring has rarely been approached in floral decorativeness. The range of colors and shadings is so comprehensive that scarcely anything in the way of soft color-combinations has been omitted.

The plants grow from 3 to 5 feet high, and bear large spikes of beautifully colored blooms, varying from clear yellow to crimson, the darker shades having large, soft orange or golden throats. These elegant plants were produced by hybridization with the original type from Victoria Falls, South Africa. Our bulbs are from the genuine stock, and will prove vigorous and healthy growers. Plant a few of these exquisite hybrids if you want to lend distinction to your shrubby borders. 20 cts. each, \$1.50 per doz.

# Vegetable Seeds

Please notice that we pay postage or express charges on all seeds ordered by the packet, ounce and quarter-pound. If larger quantities are ordered, add postage or expressage at the rate of 8 cts. per pound. See fourth page.

See inside front cover of this catalogue for COMPLETE ASSORTMENTS OF VEGETABLE SEEDS of approved and choice sorts for from \$2.50 to \$18.

## ARTICHOKE

ARTICHAUT *Alcachofa* *Artichoke*

**CULTURE.**—Deep, rich, sandy loam with plenty of well-rotted manure. Sow seeds in April or May, and when large enough transplant into rows 3 or 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.

110 French Globe. (Seed.) The standard sort. Pkt. 10 cts., oz. 30 cts., ¼lb. 85 cts., lb. \$3.

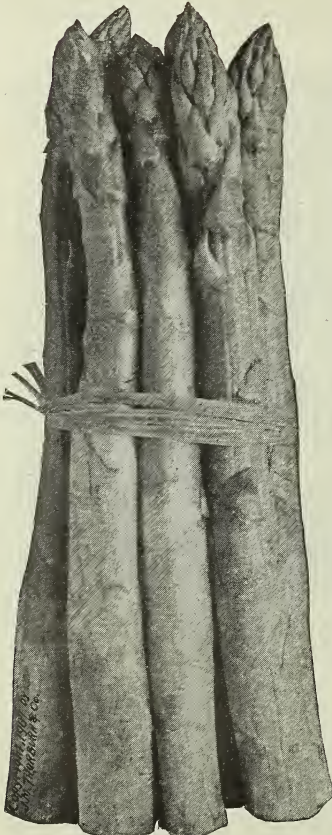
Jerusalem Artichoke Roots. Qt. 25 cts.

French Globe Artichoke Roots. (Ready in April.) Each 15 cts., doz. \$1.50.

## 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 12 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.*



	Pkt.	Oz.	¼lb.	Lb.
170 Colossal. The approved standard sort. The famous <i>Argenteuil</i> of the French is identical with it....	\$0 05	\$0 10	\$0 20	\$0 50
180 Palmetto. Of southern origin; a very desirable, bright green Asparagus.....	05	10	20	50
190 Bonvalette's Giant. An improved Palmetto, said to produce larger stalks and is a stronger grower....	05	10	25	75
200 Columbian Mammoth. Very large shoots.....	05	10	25	75

## ASPARAGUS ROOTS

*Plant either in fall or spring*

	Per 50	100	1,000
Colossal. 2-year-old roots.....	\$0 60	\$1 00	\$7 00
Palmetto. 2-year-old roots.....	60	1 00	7 00
Columbian Mammoth. 2-year-old roots.....	60	1 00	7 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.

## 240 BORAGE

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. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. 90 cts.

COLOSSAL ASPARAGUS

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



## BEANS (Very Short Crop)

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.

### DWARF GREEN-PODDED SNAP-BEANS

We supply packets of all Green-podded Snap Beans at 10 cts. each, postpaid, other quantities NOT prepaid; add transportation charges at the rate of 5 cts. per pint, 10 cts. per quart.

	Pt.	Qt.	½pk.	Pk.	Bus.
310 Bountiful. Extra early, very prolific and long-bearing; flat, green pods, tender and stringless.....	\$0 15	\$0 30	\$1 10	\$1 90	\$6 50
320 Dwarf Horticultural. Late and productive; broad, flat, stringless pods.....	20	35	1 25	2 25	8 00
340 Full Measure. Large, round pods, firm, tender, sweet and entirely stringless. Fine shipper and keeper.....	15	30	1 10	1 90	6 50
360 Goddard Improved. Long, flat pods, stringless; very prolific; late. Can also be used as a shell bean.....	20	35	1 25	2 25	8 00
370 Green-seeded Flageolet. Used as a shell-bean when green for many exquisite French dishes.....	25	45	1 50	2 50	
380 Hodson Green-Pod. A green-podded form of Hodson Wax.....	15	25	85	1 50	5 00
390 Longfellow. Long, straight, round, solid green pods; very early.....	20	35	1 25	2 00	7 00
400 Low's Champion. Large, flat pods, stringless; fine flavor; early..	20	35	1 25	2 25	8 00
410 Marvel of Paris. Long, slender, flat pods; very early.....	20	35	1 25	2 25	8 00
420 Mohawk. Long, flat, straight pods; early; very productive.....	15	25	85	1 50	5 00
424 Ne Plus Ultra. Extra early; green, full, flat pods; very productive. Also suitable for forcing.....	25	45	1 50	2 50	
430 Osborn's Forcing. Very scarce. A most superior English dwarf Bean for forcing.....	30	50	1 75		
434 PRINCESS WHITE DUTCH. See Novelties.....	20	30	1 00	1 75	
440 Refugee, Late, or 1,000-to-1. Medium to late, productive and tender; round pod.....	20	35	1 25	2 00	7 00
450 Refugee, Thorburn Extra-Early. Has all the superior qualities of the famous Refugee, and is fully two weeks earlier in podding.....	20	35	1 25	2 00	7 00
460 Refugee, Golden. Pods light green; late; productive.....	20	35	1 25	2 25	8 00
470 Refugee, Stringless. Stringless at all stages of development.....	20	35	1 25	2 25	8 00

DWARF GREEN-PODDED SNAP-BEANS, continued

	Pt.	Qt.	½pk.	Pk.	Bus.
480 Six Weeks, Long Yellow. Early; full, flat pods.....	\$0 15	\$0 30	\$1 00	\$1 75	\$6 00
490 Stringless Green-Pod. Extra-early; stringless, prolific; round pod	15	30	1 10	1 90	6 50
500 Stringless Green-Pod Giant. Improved long-podded strain of above	20	35	1 25	2 00	7 00
510 THORBURN'S LONG-POD FORCER. Very scarce. A very early, dark green, long-podded sort; finest of all forcing Beans.	30	50			
520 Valentine, Extra-Early. Round, thick, solid pods; tender; fine flavor.....	15	30	1 00	1 75	6 00
530 Valentine, Giant Stringless. About seven days later than Extra-Early Valentine. Slightly curved pods, brittle and stringless.	20	35	1 25	2 00	7 00
540 Valentine, Black. Resembles the Valentine, but with black seed; long, round, solid pods; very early.....	15	30	1 00	1 75	6 00

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.



THORBURN'S IMPROVED GOLDEN WAX BEAN

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.

- 650 Broad Windsor. Largest and best of the class. Pt. 15c., qt. 30c., ½pk. \$1, pk. \$1.75, bus. \$6.
- 670 Sword Long-Pod. Smaller than Windsor. Pt. 15c., qt. 30c., ½pk. 90c., pk. \$1.60, bus. \$5.50.
- 680 Small Horse Bean. Small size. Pt. 15 cts., qt. 25c., ½pk. 85c., pk. \$1.50, bus. \$5.

DWARF WAX BEANS

We supply packets of all Dwarf Wax Beans at 10 cts. each, postpaid; other quantities NOT prepaid; add transportation charges at the rate of 5 cts. per pint, 10 cts. per quart.

- 750 Black Wax, Improved Prolific. Very early and prolific. The pods are round, full, stringless and of fine quality. Pt. 15c., qt. 30c., ½pk. \$1.10, pk. \$1.90, bus. \$6.50.
- 770 Black Wax, Currie's Rust-proof. Flat pods; early; productive. Pt. 15 cts., qt. 30 cts., ½pk. \$1.10, pk. \$1.90, bus. \$6.50.
- 780 Black-Wax, Pencil-Pod. Slender, long, round pods. Pt. 15 cts., qt. 30 cts., ½pk. \$1.10, pk. \$1.90, bus. \$6.50.
- 784 New Kidney Wax. On style of Wardwell's Kidney Wax but with longer pods, more handsome in appearance and altogether stringless. Pt. 20c., qt. 35c., ½pk. \$1.25, pk. \$2, bus. \$7.
- 790 Davis Kidney Wax. Long, handsome, waxy white, flat pods. Pt. 20 cts., qt. 35 cts., ½pk. \$1.25, pk. \$2, bus. \$7.
- 794 Flageolet Red Wax. Flat, yellow pods of large size; prolific. Pt. 20 cts., qt. 35 cts., ½pk. \$1.25, pk. \$2.25, bus. \$8.
- 800 Golden Wax Improved. Very early; flat pods; stringless; prolific. Pt. 20 cts., qt. 35 cts., ½pk. \$1.25, pk. \$2, bus. \$7.
- 810 Golden Wax, Keeney's Rustless. Semi-round pods; medium early. Pt. 20 cts., qt. 35 cts., ½pk. \$1.25, pk. \$2, bus. \$7.
- 820 Golden-eyed Wax. Very hardy and prolific; with flat, yellow pods; early and free from rust. Pt. 15 cts., qt. 30 cts., ½pk. \$1.10, pk. \$1.90, bus. \$6.50.
- 830 Hodson Wax. Very large, brittle and tender wax pods; enormously productive; late. Pt. 20c., qt. 35c., ½pk. \$1.25, pk. \$2, bus. \$7.

DWARF WAX BEANS, continued

	Pt.	Qt.	½pk	Pk.	Bus.
834 Horticultural Dwarf Wax. On same style as the green-podded variety of the same name but with wax pods.....	\$0 20	\$0 35	\$1 25	\$2 25	\$8 00
844 Michigan White Wax. Of robust and vigorous growth; pods very fleshy and of fine quality; Beans pure white.....	20	35	1 25	2 25	8 00
850 Refugee Wax, Thorburn's Stringless. A perfect Refugee, with brittle wax pods; for early or late sowing; immense yield; late.....	20	35	1 25	2 00	7 00
860 Round-Pod Kidney Wax (Brittle Wax). Same as Wardwell's Kidney, but with round pods; late.....	20	35	1 25	2 00	7 00
864 Saddleback Wax. Long, nearly straight pods, well-rounded; golden yellow; stringless; prolific.....	20	35	1 25	2 10	7 50
870 Sure-Crop Stringless Wax. An absolutely stringless, long, flat-pod Bean and a very abundant cropper.....	25	35	1 25	2 25	8 00
880 Valentine Wax, Thorburn's. Round pod; prolific.....	20	35	1 25	2 00	7 00
890 Wardwell's Kidney Wax. Early; long, flat, purely waxy pods...	20	35	1 25	2 25	8 00
900 White Wax, Improved Stringless. Round pods; beans pure white and of finest quality; strong grower; stringless.....	30	50			
910 Yosemite Mammoth Wax. Late; long, thick, solid pods.....	20	35	1 25	2 25	8 00

DWARF WHITE BEANS

We supply packets of these Beans at 10 cts. each, postpaid; other quantities, NOT prepaid; add transportation charges at the rate of 5 cts. per pint, 10 cts. per quart.

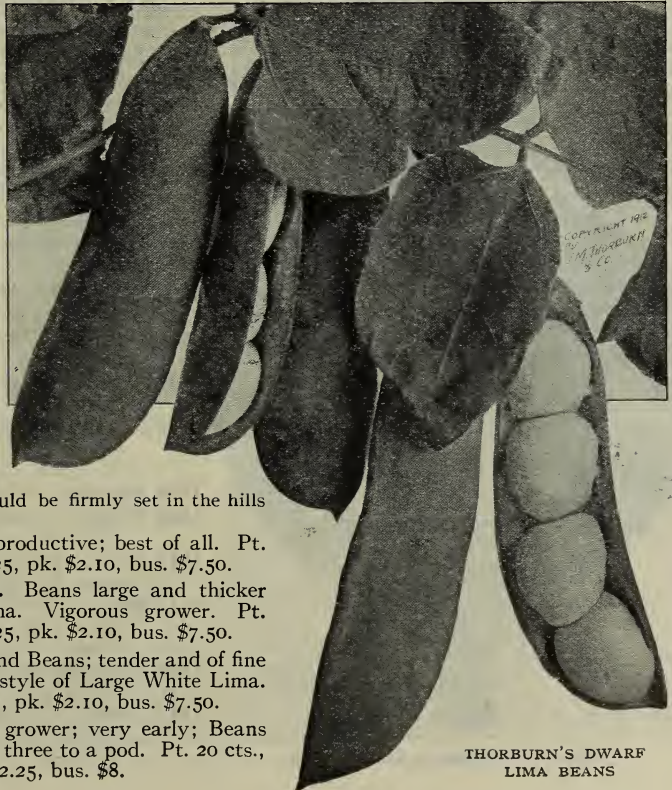
	Pt.	Qt.	½pk	Pk.	Bus.
1000 Thorburn's Dwarf Lima (The True Kumerle Strain). The dwarf form of our famous Challenger Lima—the finest of all Limas. It possesses the flavor of the genuine Challenger Lima....	\$0 25	\$0 45	\$1 50	\$2 50	\$9 00
1010 Burpee's Bush Lima. A bush form of the large, flat Pole Lima, growing only 18 to 20 inches high.....	20	35	1 25	2 25	8 00
1020 Burpee's Improved Bush Lima. An improved strain of the Burpee Bush Lima having much larger pods and Beans.....	30	50	1 65	2 85	10 00
1030 Fordhook Bush Lima. Immense pods and Beans.....	35	60	2 00	3 50	12 00
1040 Henderson Bush Lima, or Dwarf Sieva. Productive.....	20	35	1 25	2 10	7 50
1060 Wood's Prolific Bush Lima. The Early Sieva, or Butter Bean of the South. Very productive.....	20	35	1 25	2 10	7 50
1070 White Kidney. Excellent, either green or ripe, as a shell Bean. Pt. 20 cts., qt. 35 cts.					
1080 White Marrow. Good, either as a string or shell Bean. Pt. 20 cts., qt. 35 cts.					

POLE or RUNNING BEANS

We supply packets of Pole Beans at 10 cts. each, postpaid; other quantities NOT prepaid; add transportation charges at the rate of 5 cts. per pint, 10 cts. 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.

1200 Lima, Challenger. Thick and productive; best of all. Pt. 20 cts., qt. 35 cts., ½pk. \$1.25, pk. \$2.10, bus. \$7.50.
1204 LIMA, CARPINTERIA POLE. Beans large and thicker than the ordinary Pole Lima. Vigorous grower. Pt. 20 cts., qt. 35 cts., ½pk. \$1.25, pk. \$2.10, bus. \$7.50.
1210 Lima, Ideal Pole. Large pods and Beans; tender and of fine flavor; very productive. On style of Large White Lima. Pt. 20c., qt. 35c., ½pk. \$1.25, pk. \$2.10, bus. \$7.50.
1214 Lima, Early Jersey. Vigorous grower; very early; Beans large and tender and average three to a pod. Pt. 20 cts., qt. 35 cts., ½pk. \$1.25, pk. \$2.25, bus. \$8.



THORBURN'S DWARF LIMA BEANS

## POLE or RUNNING BEANS, continued

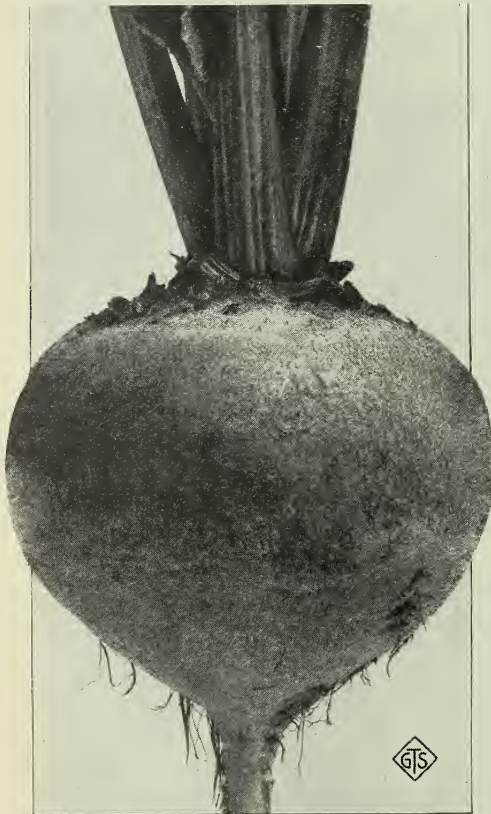
	Pt.	Qt.	½pk.	Pk.	Bus.
1220 Lima, Large White. Highly esteemed.....	\$0 20	\$0 35	\$1 25	\$2 00	\$7 00
1230 Lima, King of the Garden. Large in pod and Bean.....	20	35	1 25	2 10	7 50
1240 Lima, Siebert's Early. Very early; immense yielder; large-sized Beans of the finest quality.....	20	35	1 25	2 10	7 50
1250 Lima, Small Sieva, or Carolina. Early and productive.....	20	35	1 25	2 00	7 00
1260 Black German Wax. Yellow pods.....	20	35	1 25	2 25	8 00
1270 Dutch Case-Knife. Pods long, green and flat; can be either snapped or shelled.....	20	35	1 25	2 10	7 50
1280 Horticultural Pole. Good as a snap or as a shell Bean.....	20	35	1 25	2 00	7 00
1286 Horticultural Golden Carmine Wax-podded. Very handsome large, stringless.....	30	50			
1300 Golden Cluster Improved. Long, golden yellow pods in clusters.....	25	45	1 50	2 50	9 00
1310 Kentucky Wonder (Old Homestead). Pods green; very long and flat.....	15	30	1 10	1 90	6 50
1314 Kentucky Wonder, White Seed. Earlier and more productive than Old Homestead.....	20	35	1 25	2 10	7 50
1320 Kentucky Wonder, Golden Wax Pods.....	35	60			
1330 Lazy Wife. Long, green pods of good quality; white Beans.....	20	35	1 25	2 00	7 00
1340 Scarlet Runner. (Very scarce.) A popular English Pole Bean; very ornamental.....	15	30	1 10	1 90	6 50
1350 Southern Creaseback. Long, round, stringless pods; fleshy, tender.....	15	30	1 10	1 90	6 50
1370 White Dutch Runner. Same habit as the Scarlet Runner.....	20	35	1 25	2 00	7 00
1380 Butterfly Runner. Pkt. 10 cts., ½lb. 25 cts., lb. 40 cts.....					
1390 Yard-Long French. Slender pods sometimes 2 to 3 feet long; curious; should be grown on pea bush. Pkt. 10 cts.					

## BEET

(Very short crop)

BETTERAVE      *Remolacha*      *Salatrübe*

CULTURE.—Sow as early in the spring as the ground can be worked (5 or 6 lbs. 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 size of a hickory nut.



THORBURN'S CRIMSON GLOBE BEET

- 1500 **Bassano.** Early; light color; good sort. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.50.
- 1520 **Crimson Globe.** Globular shape; flesh rich, deep crimson; tender and sweet. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.50.
- 1540 **Detroit Dark Red Turnip.** Round; skin dark blood-red; flesh bright red. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.50.
- 1550 **Dewing Early.** Of fine form and flavor; good for market. Lb. \$1.50.
- 1560 **Early Blood Turnip.** Dark red; fine flavor; good for winter. Pkt. 5c., oz. 15c., ¼lb. 40c., lb. \$1.50.
- 1564 **EARLY YELLOW TURNIP.** Fine. *See Novelties* Lb. \$1.50.
- 1570 **Eclipse.** Early; round; bright red. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.50.
- 1580 **Edmand Blood Turnip.** A market-gardeners' strain, regular in shape and of best quality. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.50.
- 1590 **Egyptian.** Extra early; flat. Lb. \$1.50.
- 1600 **Egyptian, Crosby's.** Extra early; round; dark blood-color. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.50.
- 1610 **Half-Long Blood.** Fine dark strain for winter. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.50.
- 1618 **Lentz.** Extra early; large; round; light red; small tops. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.50.
- 1620 **Long Smooth Blood.** A good late variety for winter. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. 80 cts.
- 1644 **Treviso (Columbia).** Red; early; flat; tender. Fine sort for table. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.50.



BEEET, continued

	Pkt.	Oz.	¼lb.	Lb.
1650 Witham Fireball. Brilliant red flesh, solid, sweet and crisp; fine quality; globe-shaped; very early	\$0 05	\$0 15	\$0 40	\$1 50
1690 Swiss Chard, or Silver Beet. To be used same as spinach	05	10	35	1 00
1700 Swiss Chard, or Silver Beet, Lucullus. Large leaves, heavily crinkled; tender and of fine flavor	05	15	50	1 50

FOLIAGE BEET

These varieties are grown only for their handsome foliage, which is very ornamental and decorative.

	Pkt.	Oz.	¼lb.	Lb.
77270 Golden-veined Brazilian	\$0 05	\$0 20	\$0 40	\$1 25
77280 Scarlet-veined Brazilian	05	20	40	1 25
77290 Crimson-veined Brazilian	05	20	40	1 25
77300 Scarlet-ribbed Chilian	05	20	40	1 25
77310 Yellow-ribbed Chilian	05	20	40	1 25
77320 Victoria	05	20	40	1 25
77330 Dracæna-leaved	05	20	50	1 50

MANGEL-WURZELS, SUGAR BEET, ETC. Runkelrüben

CULTURE.—As all Mangels require a deep soil in order to grow well, plow and subsoil at least a 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 or 4 inches high, at the rate of 200 lbs. Complete Manure, 200 lbs. bone meal and 400 lbs. salt to the acre. As soon as frost occurs, dig the crop. In order to be well preserved for gradual consumption during the winter, Mangel Wurzels 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 5 to 8 pounds to the acre.

MANGEL-WURZEL

	Oz.	¼lb.	Lb.
1850 Giant Half-Sugar Red-skinned. Longish ovoid; red skin; white flesh	\$0 10	\$0 25	\$0 75
1860 Giant Yellow Intermediate. Very large	10	20	60
1870 Golden Tankard Mangel-Wurzel. Bright yellow; handsome, sweet, productive	10	20	60
1874 Golden Flesh Globe. Very handsome strain	10	25	75
1880 Red Globe Mangel-Wurzel. Similar to Golden Globe; productive	10	25	75
1910 Mammoth Long Red Mangel-Wurzel. Very large; enormously productive under careful culture	10	20	60
1930 Orange Globe. Productive and of good size	10	25	75
1940 Yellow Globe. Productive and of good size	10	25	75
1950 Yellow Ovoid. Of distinct shape; one of the most productive sorts	10	20	60

SUGAR BEET

We recommend 5 to 10 lbs. to the acre.

	Oz.	¼lb.	Lb.
2000 Klein Wanzleben	\$0 10	\$0 20	\$0 60
2010 Vilmorin Improved	10	20	65
2020 White Rose-Top	10	20	65
2030 White, Green-Top	10	20	65
2040 Lane's Imperial	10	20	65

BROCCOLI

BROCCOLI Brocoli Spargelfohl

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.

	Pkt.	Oz.	¼lb.	Lb.
2100 Early White	\$0 05	\$0 25	\$0 75	\$2 50
2110 Mammoth White	10	35	1 00	3 50
2120 Purple Cape, Early	10	35	1 15	4 00
2130 Veitch's Self-protecting	10	35	1 00	3 50
2140 White Cape	10	40	1 25	4 00

BRUSSELS SPROUTS

CHOU DE BRUXELLES Berza de Brusels Rosenfohl

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 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.

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



THORBURN'S GILT-EDGE CAULIFLOWER

		BRUSSELS SPROUTS, continued		Pkt.	Oz.	¼lb.	Lb.
2160	HERCULES. <i>See Novelties</i> .....			\$0	10		
2170	Improved Half Dwarf. The very best and purest strain.....	05		20		\$0 60	\$2 00
2190	Dalkeith. Of dwarf growth, producing large, solid Sprouts.....	05		20		60	2 00
2196	Dwarf German. Compact heads; productive.....	05		20		60	2 00

## 2230 BURNET

PIMPERNELLE *Pimpinella* Pimpernelle

The leaves have a warm, piquant taste, and are useful for salads and soups. Sow early in the spring, half an inch deep, thinly in rows. **Garden.** Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. 90 cts.

## 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 could have a heavy mulch of hay or straw, it would keep the soil moist, and they would 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 same time as cabbage.

2250	Thorburn's Extra-Early Dwarf Erfurt. The best and earliest for forcing; Pkt. very dwarf and compact with short stem and small leaves. Should not be confounded with entirely different sorts advertised.....	\$0	50	\$5	00		
2260	Large Early Erfurt. (Thorburn Selection.) Justly popular with market-gardeners for late crop.....	25	2 25	\$8	00	\$30	00
2270	THORBURN'S GILT-EDGE. Large, heavy sort, maturing immediately after our <i>Large Snowball</i> . Best of all. <i>See Novelties</i> .....	25	2 25	7 50		28	00
2280	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.	25	2 25	7 50		28	00
2290	Thorburn's Large Early Snowball. A large strain of the above.....	25	2 25	7 50		28	00
2300	Denmark. On the style of Large Erfurt; very fine.....	20	1 75	6 00		22	00
2310	Extra-Early Paris. Heads of medium size; first-class.....	10	60	2 00		7	00
2320	Lenormand Short-Stem. Has very large heads; white and firm.....	10	50	1 75		6	00
2330	Large Algiers. Market-gardeners' popular late sort for the South.....	10	60	2 00		7	00
2340	Thorburn's Nonpareil. A first-class standard sort.....	10	50	1 75		6	00
2350	Early London. Large and hardy.....	05	30	85		3	00
2360	Autumn Giant. Vigorous in growth; very large; late.....	05	25	75		2	50

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

# CABBAGE (Short crop)

CHOU *Berza de repollo* Köhl

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.

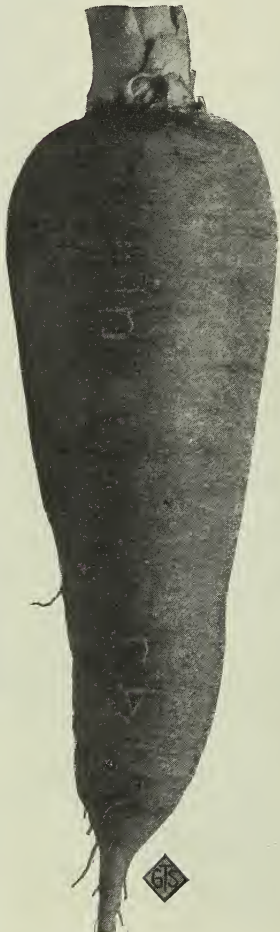
	Pkt.	Oz.	½lb.	Lb.
2390 COPENHAGEN MARKET. <i>See Novelties</i> .....	\$0 15	\$0 60	\$2 00	\$7 00
2394 All-head. Very early and very solid; large.....	10	35	1 00	3 50
2400 Baseball, Early. The finest early all-head Cabbage.....	10	30	85	3 00
2410 Early Spring. Flat; extra early; medium size.....	10	30	85	3 00
2420 Early York. The standard English sort. Splendid.....	05	15	40	1 25
2430 Large Early York. Larger than the above. Splendid.....	05	15	40	1 25
2460 EARLY JERSEY WAKEFIELD, THORBURN'S. The most popular early variety; heads very solid, pyramidal shape. <i>See Novelties</i> .....	10	30	85	3 00
2464 Charleston Wakefield. Large strain of above.....	10	25	75	2 50
2470 ENKHUIZEN GLORY. Large, early, white, solid, ball-shaped heads. <i>See Novelties</i> .....	10	30	85	3 00
2480 Stein's Improved American Early Flat Dutch. Valuable for forcing or for general crop. One of the finest sorts.....	10	35	1 00	3 50
2484 Early Winnigstadt. A standard second-early variety; very hard heads.....	05	20	60	2 00
2486 Express. Extra early; small, solid heads of fine quality.....	10	30	85	3 00
2490 Early Summer. Second-early; produces large and solid heads of finest quality.....	05	20	60	2 00
2500 Fottler's Brunswick. Of dwarf, compact growth; hard and solid heads. Good for both intermediate and winter use.....	05	25	75	2 50



STEIN'S IMPROVED AMERICAN EARLY FLAT DUTCH CABBAGE

CABBAGE, continued

	Pkt.	Oz.	¼lb.	Lb.
2520 Succession Improved. Excellent second-early sort; large, solid heads.....	\$0 10	\$0 35	\$1 00	\$3 50
2530 Large Late Drumhead. A standard winter Cabbage for main crop.....	10	30	85	3 00
2540 Large Late Flat Dutch. A valuable sort for market.....	10	30	85	3 00
2560 Thorburn Market-Gardener's Private Stock Flat Dutch. Fine strain of the immense winter Cabbage grown on Long Island for market.....	10	35	1 00	3 50
2580 DANISH BALL HEAD WINTER. Short stem. Very round, solid winter sort, largely grown in Denmark for the London market. A fine shipper....	10	30	85	3 00
2584 DANISH BALLHEAD WINTER. Long stem.....	10	30	85	3 00
2590 Green Glazed. Glossy green; suitable for hot climates.....	10	25	75	2 50
2600 Red Berlin. Very fine; dark red; of medium size.....	10	30	85	3 00
2614 Red Stonehead. Prize variety from Denmark. A great improvement on the old variety of the same name. Produces heads nearly as round as a ball, of medium size but very solid and consequently long-keeping. Prefers a rather heavy soil, richly manured.....	10	40		
2620 Red Zenith. Very fine, dark red; solid head; medium early; finest of all....	10	30	85	3 00
2630 Savoy, Early Vienna. Very small; of delicate flavor.....	10	30	85	3 00
2640 Savoy, Early Ulm. Medium size, round deep green head; very early.....	10	30	85	3 00
2650 Savoy, Late Drumhead. Very fine improved strain.....	10	25	75	2 50
2660 Chinese Cabbage (Pe-Tsai). Grows like Cos lettuce.....	05	20	60	2 00



THORBURN'S CHANTENAY CARROT

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.

2770 Large Solid. Smooth; grows about 4 feet high; leaves nearly free from spines. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.

CARROT

CAROTTE *Zanahoria* Möhren

CULTURE.—Sow Nos. 2890 and 2894 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. These two are 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 2 to 3 lbs. to the acre. Carrot-tops cut from fairly young plants may be used for pretty indoor greenery. Put one cutting into each thumb-pot, or 3 or 4 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.

2890 Parisian Forcing, Early. Tender and sweet; fine for early and late crops and for frames.....	Pkt. \$0 10	Oz. \$0 30	¼lb. \$0 85	Lb. \$3 00
2894 Bellot. Very early and tender; valuable for forcing or outdoors.....	05	25	75	2 50
2920 Oxheart Half-Short (Guerande). Very thick and short.....	05	20	65	2 25
2930 Scarlet Horn, Early. Very thick roots; fine for frames.....	05	25	75	2 50
2950 Half-Long Pointed. A well-known strain; productive.....	05	25	75	2 50
2960 Half-Long Stump-rooted. An excellent sort of good quality.....	05	25	75	2 50
2970 Half-Long Stump-rooted, Nantes Strain. One of the most popular sorts.....	05	25	75	2 50
2980 Carentan Half-Long Stump-rooted. Coreless; red flesh.....	05	25	75	2 50
2990 Chantenay Half-Long Stump-rooted. Style of Nantes, broader shoulder.....	10	30	85	3 00
3020 Danvers Half-Long. Large; of good quality; productive.....	05	15	40	1 25
3030 St. Valery. A thick, intermediate long red.....	05	20	55	1 75
3040 Long Orange. Best for stock-feeding.....	05	10	35	1 00
3070 Long White Belgian. Very large; one of the best varieties for stock.....	05	10	30	90

We pay postage or express charges on all 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 or 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 at 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, 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. When grown in beds in this way, the rows should be 1 foot apart, and the plants about 8 inches apart in the rows. 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.

	Pkt.	Oz.	¼lb.	Lb.
3200 <b>Thorburn's Fin de Siecle.</b> We consider this the largest, hardest, solidest, crispest, best-keeping and best-shipping winter Celery we know of.	\$0 10	\$0 30	\$0 85	\$3 00
3210 <b>Improved White Plume.</b> Naturally white or light foliage; requires but little banking up to blanch; very early and extensively grown for market...	10	25	75	2 50
3214 <b>Golden Self-blanching.</b> American-grown; large; golden yellow.....	15	60	2 25	8 00
3230 <b>GOLDEN SELF-BLANCHING, THORBURN'S GILT-EDGE.</b> Our finest strain. See <i>Novelties</i> .....	15	85	3 25	12 00
3240 <b>Rose-ribbed Golden Self-blanching.</b> Very handsome, rose-striped ribs. Fine.....	10	35	1 00	3 50
3260 <b>Perfection Heartwell.</b> One of the finest and largest of winter varieties, either for family- or market-garden. The heart is golden yellow.....	05	20	60	2 00
3270 <b>Thorburn's Schumacher.</b> Solid and crisp; firm, golden yellow heart.....	05	20	60	2 00
3300 <b>Giant Pascal.</b> An easily blanched and fine-keeping, large, late sort.....	05	20	60	2 00
3310 <b>Kalamazoo.</b> A fine, half-dwarf, solid white variety.....	05	20	60	2 00
3344 <b>Giant Golden Heart.</b> Very large, solid and fine-flavored; vigorous grower.....	05	20	60	2 00
3350 <b>New Rose.</b> Fine flavor; handsome.....	05	20	60	2 00
3360 <b>Pink Plume.</b> Same as White Plume, except that the stalks are tinged with pink. Attractive; rich flavor and long-keeper.....	05	25	75	2 50
3384 <b>Winter Queen.</b> Very large, solid, green, winter sort; blanches well.....	05	20	60	2 00
3388 <b>Silver-White.</b> Large; fine, solid and crisp variety.....	05	20	60	2 00
3400 <b>Celeriac, Giant Prague.</b> Very large roots, for soups and stews; when cooked and sliced makes fine winter salad....	05	25	75	2 50
3420 <b>Celeriac, Apple.</b> Has small foliage and small, smooth roots; for soups.....	10	30	85	3 00



THORBURN'S IMPROVED WHITE PLUME CELERY

Celeriac may be stored like beets, and will keep all winter

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

## CORN, SWEET or SUGAR

We supply packets of Corn at 10 cts. each, postpaid; for other quantities, NOT PREPAID, add transportation charges at the rate of 5 cts. per pint, 10 cts. per quart.

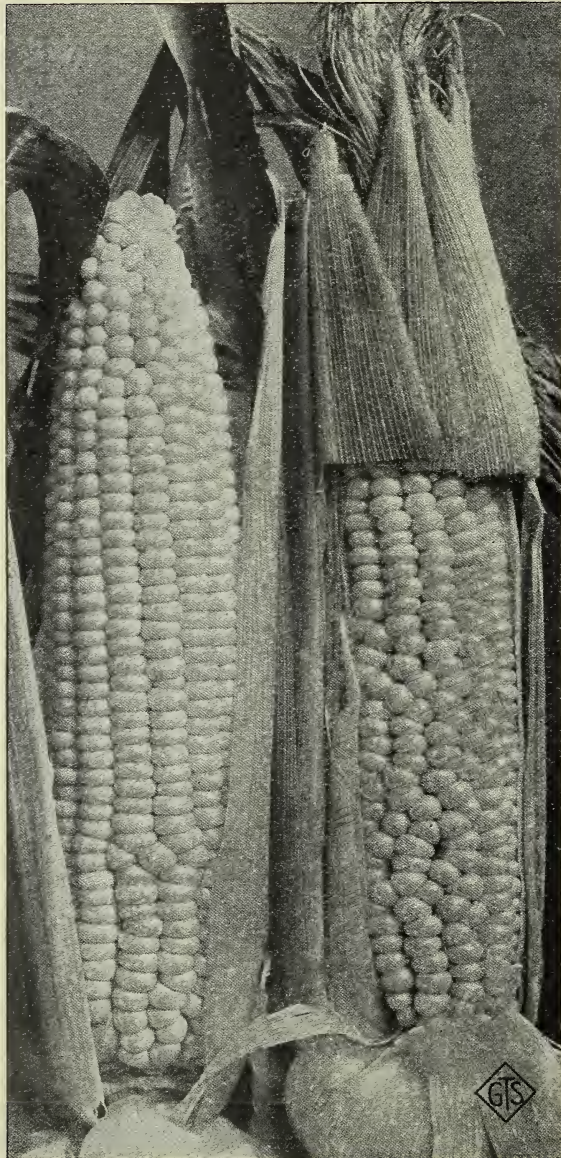
CULTURE.—Plant in hills 3 feet apart each way, and five or six kernels in a hill. Hoe often and draw soil up to the stem; break off side-shoots. Make the ground rich with well-rotted manure. If sown thinly in drills, a greater yield from a given surface will be obtained.

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

### EXTRA-EARLY

3700 THORBURN'S NORDHEIM EXTRA-EARLY. Earliest and finest of all. See *Novelties*. Pt. 30 cts., qt. 50 cts., ½pk. \$1.50, pk. \$2.50, bus. \$9.

3710 Early Red-Cob Cory. A very early variety with good-sized ears. Pt. 15 cts., qt. 25 cts., ½pk. 85 cts., pk. \$1.50, bus. \$5.



EARLY EVERGREEN SWEET CORN

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

3720 White Cory. Resembles the ordinary Cory, but with white cob. Pt. 15 cts., qt. 25 cts., ½pk. 75 cts., pk. \$1.30, bus. \$4.50.

3734 Earliest Catawba. Similar to Golden Bantam in growth and earliness, but it differs from it in color and flavor. Grows 4 or 5 feet high, and bears from one to five good-sized ears to a stalk. Pt. 15 cts., qt. 25 cts., ½pk. 85 cts., pk. \$1.50, 2 bus. \$5.

3740 Mammoth White Cory. Ears double the size of the old Cory. Pt. 15 cts., qt. 25 cts., ½pk. 75 cts., pk. \$1.30, bus. \$4.50.

3750 Metropolitan. Large, handsome ears of fine quality; very early. Pt. 15 cts., qt. 25 cts., ½pk. 75 cts., pk. \$1.30, bus. \$4.50.

3760 Golden Bantam. Extra-early; yellow; very sweet and tender. Pt. 15 cts., qt. 30 cts., ½pk. \$1, pk. \$1.75, bus. \$6.

3764 Seymour's Sweet Orange. A vigorous grower, attaining a height of 6 or 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. Pt. 15 cts., qt. 30 cts., ½pk. \$1, pk. \$1.75, bus. \$6.

3770 Premo. Extra-early; very large ears; fine quality. Pt. 15 cts., qt. 25 cts., ½pk. 75 cts., pk. \$1.30, bus. \$4.50.

3780 Peep-o'-Day. One of the earliest; very sweet and of delicate flavor. Pt. 15 cts., qt. 25 cts., ½pk. 75 cts., pk. \$1.30, bus. \$4.50.

3790 Minnesota. Nearly as early as Cory, but with larger ears. Pt. 15 cts., qt. 25 cts., ½pk. 75 cts., pk. \$1.30, bus. \$4.50.

3800 Perry Hybrid. Very early and of large size; valuable for market. Pt. 15 cts., qt. 25 cts., ½pk. 75 cts., pk. \$1.25, bus. \$4.

3840 Kendel's Giant. Very early for so large-eared a sort; fine quality. Pt. 15 cts., qt. 25 cts., ½pk. 75 cts., pk. \$1.30, bus. \$4.50.

3860 Extra-Early Adams. Not a Sugar Corn but grown for early use. Pt. 15 cts., qt. 20 cts., ½pk. 60 cts., pk. \$1, bus. \$3.50.

SECOND-EARLY or INTERMEDIATE CORN

	Pt.	Qt.	½pk.	Pk.	Bus.
3900 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.....	\$0 15	\$0 30	\$1 00	\$1 75	\$6 00
3910 Early Champion. Very large ears, considering its earliness.....	15	25	75	1 30	4 50
3920 Shaker. Very large; white grains; quite early.....	15	25	75	1 30	4 50
3930 Early Mammoth. Very large ears; fine quality; not very late.....	15	25	75	1 30	4 50
3940 Crosby. Matures after Minnesota; fair-sized ears of good quality.....	15	25	75	1 30	4 50
3950 Potter Excelsior. Good-sized ears of fine quality.....	15	25	75	1 30	4 50
3960 Moore Concord. Of strong growth; ears large and well filled.....	15	25	75	1 25	4 00
3970 Early Evergreen. A week earlier than Stowell Evergreen.....	15	25	75	1 30	4 50
3980 Early Adams. Not a Sugar Corn, but grown extensively for market....	15	20	60	1 00	3 50

GENERAL CROP

4020 Hickox Improved. Handsome ears; very white and of rich flavor....	15	25	75	1 25	4 00
4040 Stowell Evergreen. One of the most popular varieties.....	15	25	75	1 25	4 00
4060 White Evergreen. A strain of Evergreen with pure white grain.....	15	25	75	1 30	4 50

LATE SWEET CORN

4100 Black Mexican. Very sweet and of superior flavor; grains black....	15	25	75	1 30	4 50
4120 Late Mammoth. Rank in growth; large ears, rich and sweet.....	15	25	75	1 30	4 50
4140 Country Gentleman. A large selection of the Ne Plus Ultra, introduced by us in 1888.....	15	25	75	1 30	4 50
4180 Sweet Fodder Corn.....	15	20	50	80	2 50

For Field Corn and Pop Corn, see page 65

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. The seed of the tuberous Chervil should be sown in September, and it will appear the following spring.

	Pkt.	Oz.	¼lb.	Lb.
4240 Curled. Leaves used for flavoring soups and stews and for garnishing.....	\$0 05	\$0 10	\$0 35	\$1 00
4250 Plain. Like above, but not curled.....	05	10	30	85

CHICORY

4300 Common or Wild. Used in <i>Barbe de Capucin</i> , a salad much made in France. Sown in June, the roots are transplanted in autumn into sand in a cellar. The young shoots form the <i>Barbe de Capucin</i> .....	\$0 05	\$0 20	\$0 50	\$1 50
4310 Witloof. Known in restaurants as French Endive. Sown in May and June in drills. Transplant or thin to 6 inches; treat as Endive, except that late in summer or fall it should be gradually banked up like celery. The stalks, when blanched, make a delicious salad. It is used by the French as a boiled vegetable.....	05	20	55	1 75
4320 Magdeburg. Roots are the Chicory of commerce.....	05	20	50	1 50

See, also, Endive, the Chicory of the French, page 29

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.

4380 Georgia. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

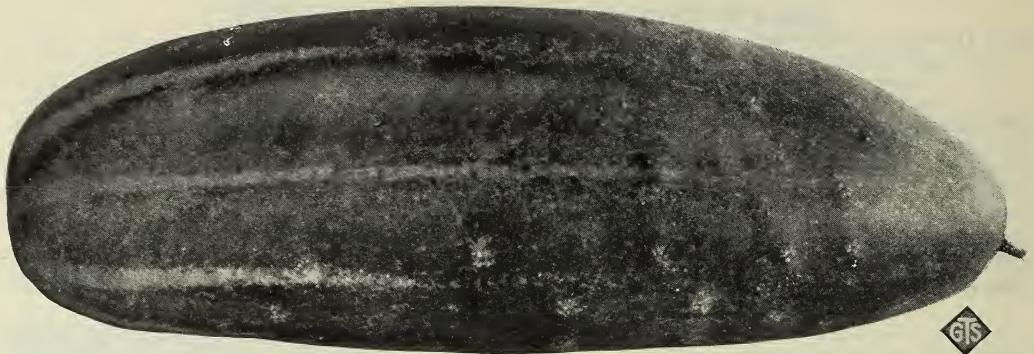
CORN SALAD, or FETTICUS

MACHE *Macha o Valerianilla* *Stechsalat*

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.

	Pkt.	Oz.	¼lb.	Lb.
4430 Large-seeded.....	\$0 05	\$0 10	\$0 25	\$0 70
4440 Small-seeded.....	05	10	25	70
4450 Green Cabbaging.....	05	10	30	85

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



THORBURN'S NOROTON SELECTED WHITE SPINE CUCUMBER

### CRESS

CRESSON *Berra 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.

	Pkt.	Oz.	¼lb.	Lb.
4520 Curled, or Pepper Grass	\$0 05	\$0 10	\$0 20	\$0 50
4530 Common, or Plain-leaved	05	10	20	60
4540 Broad-leaved Winter, or Upland. Gray seed	05	10	25	75
4550 Erfurt True Sweet Water Cress. Very mild and tender	10	35	1 00	3 50
4570 True Water Cress	10	30	90	3 25

### DANDELION

PISSENLIT *Amargon* Bardebblum

CULTURE.—Dandelion is a hardy perennial, and one of the most desirable early spring salads. Sow in early spring in drills one-half an inch deep and 18 inches apart; thin out the plants to 12 inches. Keep clear of weeds during the summer, and the ensuing spring the leaves will be fit to cut. They are best, however, when blanched, which makes them tender and destroys, to some extent, their bitter taste without impairing the qualities which make them desirable as greens. The blanching may be done by placing a couple of boards over the rows thus: Λ. This excludes the light and improves the greens, rendering them far superior to those found growing wild.

	Pkt.	Oz.	¼lb.	Lb.
4630 French Garden	\$0 05	\$0 10	\$0 30	\$1 00
4650 Improved Thick-leaved Fullheart	10	35	1 00	3 50
4670 Montmagny. The popular Paris quick-blanching sort	10	35	1 00	3 50

### CUCUMBER

CONCOMBRE *Pepino* Gurke

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 crops, 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.

	Pkt.	Oz.	¼lb.	Lb.
4750 Cumberland. One of the best pickling sorts yet introduced, being very handsome and productive, with flesh firm, but very crisp and tender	\$0 05	\$0 15	\$0 30	\$1 00
4770 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	05	15	30	1 00
4780 Early Green Cluster. Fruit small and in clusters; very prolific	05	10	25	80
4790 Early Russian. Very early, short; fine for pickles	05	10	25	80
4800 Giant Pera. Very long; one of the best for table use	05	15	40	1 25
4810 Fordhook Pickling. Very prolific; medium size; fine pickling strain	05	10	25	80
4820 Thorburn Everbearing. Small-sized; very early and enormously productive; valuable as a green pickler	05	10	25	80

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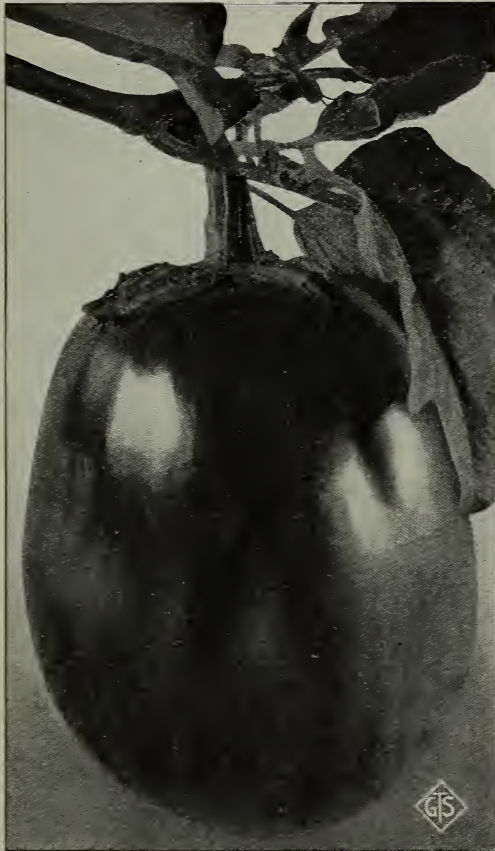
CUCUMBER, continued

	Pkt.	Oz.	1/2 lb.	Lb.
4830 Cool and Crisp. Extra early and very prolific; long, straight, slender and very dark green; good either for pickling or slicing.....	\$0 05	\$0 15	\$0 30	\$1 00
4840 Early Short Green. Good for pickling; productive.....	05	10	25	80
4850 Fordhook Famous. Long, straight and well-formed; vigorous grower, very productive; does not turn yellow.....	05	15	30	1 00
4854 Klondyke. A fine strain on the style of White Spine.....	05	15	30	1 00
4860 New Orleans Market. For forcing or open ground; very productive.....	05	15	30	1 00
4864 White Spine Extra-Early. An extra-early strain of the popular White Spine.....	05	15	30	1 00
4870 " " Improved. A very handsome and uniform early variety.....	05	15	30	1 00
4880 " " Arlington. Fine either for forcing or for outdoors.....	05	15	30	1 00
4890 " " THORBURN'S NOROTON SELECTED. See <i>Novelties</i> .....	10	25	65	2 00
4900 " " Extra-Long. A beautiful, large and well-shaped Cucumber.....	05	15	40	1 25
4910 Evergreen. Very early and prolific; deep green color.....	05	15	30	1 00
4920 Improved Long Green. Long and crisp; a popular variety for pickles.....	05	15	30	1 00
4930 Long Green Turkey. Fruit very long and rather slim.....	05	15	30	1 00
4940 Green Prolific Pickling. One of the best for pickling; dark green.....	05	15	30	1 00
4950 Nichol Medium Green. Most symmetrical and a very fine table sort.....	05	15	30	1 00
4960 Tailby Hybrid. Very long, and superior for table use.....	05	15	30	1 00
4970 Japan Climbing. Good for frames or open ground.....	05	15	30	1 00
4980 Small Gherkin. Very small bur; used for pickles.....	10	20	50	1 50
4990 Lemon Cucumber, or Garden Lemon. Almost round; yellow and green markings; tender and of sweet flavor. Resembles a lemon in appearance.	10	20	50	1 50

ENGLISH CUCUMBER FOR FRAMES

(*Concombre espèces Anglaises pour Couches*)

CULTURE.—Sow seeds in October, November or December, according to the time they are wanted, in



THORBURN'S IMPROVED NEW YORK PURPLE EGGPLANT  
(See page 30)

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. More seeds should be sown than plants required, as some may fail to grow and others may be weaklings. Only strong plants should be employed. It is necessary to fertilize the pistillate flowers with the staminate, to render the vines productive, as, owing to the absence of insects, they will not produce a crop under glass in open ground.

- 5096 Hurst's Monarch. Splendid sort. Pkt. 25 cts.
- 5100 Lockie's Perfection. Fine color. Pkt. 25 cts.
- 5110 Marvel (Hurst's). Fine shape; heavy cropper. Pkt. 25 cts.
- 5120 Rochford's Market. Fine variety. Pkt. 25 cts.
- 5130 Telegraph. Free-bearing; handsome. Pkt. 25c.
- 5160 Veitch's Sensation. Fine dark variety. Pkt. 25c.

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.

- 5210 Green Curled Winter. Standard sort for fall and winter crop. Pkt. 5 cts., oz. 15 cts., 1/4 lb. 30 cts., lb. \$1.
- 5220 Large Green Curled (de Ruffec). Broad ribs; fine for fall and winter. Pkt. 5 cts., oz. 15 cts., 1/4 lb. 30 cts., lb. \$1.
- 5230 Broad-leaved (Escarolle). A sweet variety; fall and winter. Pkt. 5 cts., oz. 15 cts., 1/4 lb. 30 cts., lb. \$1.
- 5240 White Curled. For early use. Pkt. 10 cts., oz. 25 cts., 1/4 lb. 65 cts., lb. \$2.

See, also, Witloof (French Endive) under Chicory, page 27

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# EGGPLANT

AUBERGINE *Berengena* Eierpflanze

**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.

	Pkt.	Oz.	¼lb.	Lb.
5310 Improved New York Spineless. The standard; largest and best; large, oval; deep purple; early and productive.....	\$0 10	\$0 40	\$1 25	\$4 00
5320 <b>BLACK BEAUTY.</b> As large as the New York Improved but about ten days earlier; very rich purplish black. <i>See Novelties</i> .....	10	40	1 30	4 50
5330 <b>Early Dwarf Purple.</b> Dwarf; very early; small, ovoid fruit.....	10	35	1 00	3 50
5340 <b>Florida High Bush.</b> Purple, though not so deep as the New York Spineless, which it resembles in shape. Very productive, of vigorous growth, and can stand more cold than that variety.....	10	35	1 00	3 50
5350 <b>Long Purple.</b> Of distinct shape and fine quality.....	05	25	75	2 50
5360 <b>Round Purple.</b> Of good quality; fine color and shape.....	10	30	85	3 00
5370 <b>Black Pekin.</b> Round, blackish purple fruit; dark foliage.....	10	35	1 00	3 50
5380 <b>Scarlet Chinese.</b> Small and ornamental.....	10	40	1 25	4 00
5390 <b>Round White.</b> Small and ornamental.....	10	30	85	3 00
5400 <b>Long White.</b> Small and ornamental.....	10	30	85	3 00
5410 <b>Striped.</b> Purple and white.....	10	30	85	3 00

## 14180 FENNEL, FLORENCE or NAPLES

FENOUIL DE FLORECE *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. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

## 5550 ICE-PLANT

**CULTURE.**—Sow in good garden soil as soon as the ground becomes warm in spring, in shallow drills 1 foot apart. Thrives well in hot, dry climates. Pkt. 5 cts., oz. 35 cts.

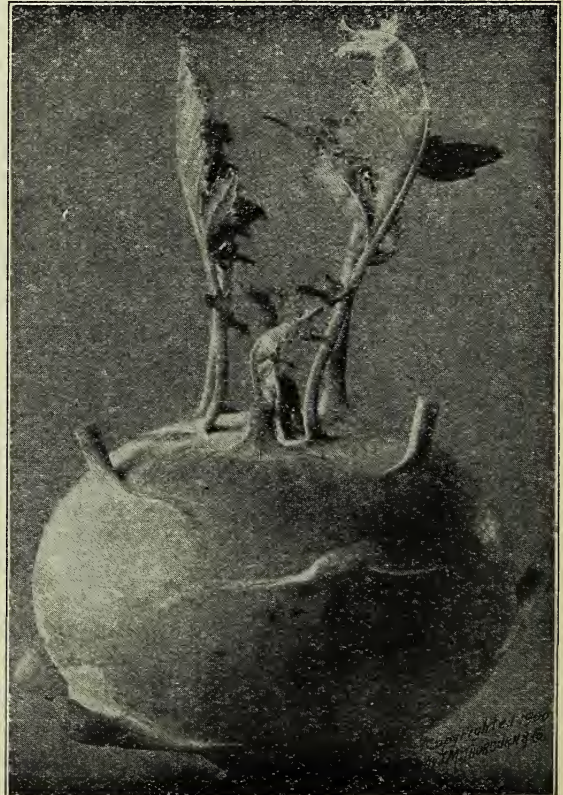
## KALE, or BORECOLE

(Very short crop)

CHOU VERT FRISE *Col Kraustohl*

**CULTURE.**—Nos. 5600 to 5620 are cultivated and grown exactly like cabbage. Sow No. 5600 in August and September for early greens. Sow 5700 early in the spring in a hotbed, and when 1 or 2 inches high transplant into a bed or border that has been highly manured and deeply dug. Sea Kale is not fit to eat until it has been blanched, either under large pots, or by banking up with sand.

- 5600 **Curled Dwarf Green Scotch.** Very dwarf and spreading; best strain; largely grown in the South, being sown in August and September. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. 90 cts.
- 5610 **Curled Tall Green Scotch.** A taller growth of No. 5600. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. 90 cts.
- 5620 **Curled Dwarf Brown.** Very hardy. Pkt. 5 cts., oz. 10c., ¼lb. 30c., lb. 90c.
- 5630 **Curled Siberian Thorburn Improved.** Green curled; hardy. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts., lb. 60 cts.
- 5640 **Thousand-headed.** Valuable for cattle. Pkt. 5c., oz., 10c., ¼lb. 25c., lb. 75c.
- 5650 **Jersey Winter Kale, or Cow Cabbage.** For feeding cattle; very hardy. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75c.
- 5700 **Sea Kale.** Fine; resembles celery. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.



WHITE VIENNA KOHLRABI

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

## 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.

5800	Early White Vienna. Handsome in appearance and very delicate in flavor; white ball.....	Pkt. 05	Oz. \$0 20	¼lb. \$0 60	Lb. \$1 75
5810	Early White Vienna. Fine flavor and appearance. For frames.....	10	25	75	2 50
5820	Early Purple Vienna. Purple ball; a very good sort.....	05	20	60	2 00
5830	Early Purple Vienna. For frames.....	10	25	75	2 50
5840	Large White, or Green. Forms a large ball; not so fine in flavor, but more productive.....	05	10	35	1 00

## LEEK

POIREAU *Puerro* Porree, oder Lauch

CULTURE.—Sow very early in spring in drills 6 inches apart and 1 inch deep. 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.

5910	THORBURN'S BEST LARGE FLAG. Hardy and productive.....	Pkt. 05	Oz. \$0 20	¼lb. \$0 65	Lb. \$2 25
5940	Large Carentan. Distinct and dark-colored leaves; stout in habit, and hardy.....	05	20	65	2 25
5950	Musselburgh. Similar to above.....	05	20	65	2 25

## LETTUCE

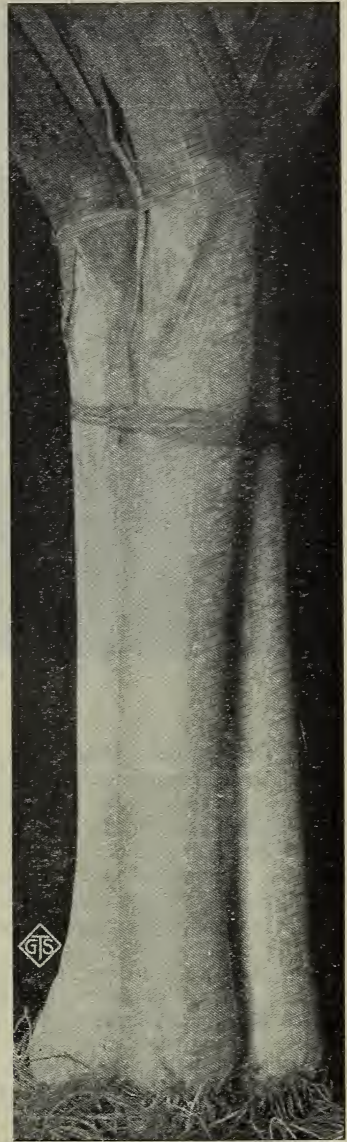
LAITUE *Lechuga* Salat

CULTURE.—Sow 6030, 6090, 6114 and 6230 in hotbeds in March, and in the open ground as soon as it can be worked, and transplant to rows 8 inches apart. Sow in two weeks' time same varieties 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.

*w. s. stands for white-seeded, b. s. for black-seeded*

6020	American Gathering. Twisted and curled leaves; fine early or late.	w. s. . . . .	Pkt. \$0 05	Oz. \$0 10	¼lb. \$0 30	Lb. \$0 90
6030	THORBURN'S BIG BOSTON. Fine for forcing in coldframes or for open ground. See <i>Novelties</i> .	w. s. . . . .	05	20	50	1 50
6040	Buttercup. Yellow, solid, small heads; for forcing or outdoors.	w. s. . . . .	05	20	50	1 50
6050	California Cream Butter. Very large, solid heads; inside very white.	b. s. . . . .	05	15	35	1 25
6060	Coldframe White Cabbage. For starting in coldframes and setting out early.	w. s. . . . .	05	15	35	1 25
6070	Deacon. Large, solid, summer cabbage variety.	w. s. . . . .	05	15	35	1 00
6080	Denver Market. Very curly heads; good for forcing or outdoors.	w. s. . . . .	05	15	35	1 00
6090	Emperor Forcing Improved. Yellow; earliest of all; only for frames.	w. s. . . . .	05	20	50	1 50
6100	Giant Crystal Head. A splendid cabbage Lettuce; large, solid; outside leaves bright green, inside crystal-white; yellow heart; crisp, tender.	w. s. . . . .	05	15	35	1 25
6114	Glasshouse, Thorburn's. For forcing under glass.	w. s. . . . .	05	20	60	2 00
6120	Grand Rapids Forcing. Large, tender; one of the best for forcing.	b. s. . . . .	05	15	35	1 25

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



THORBURN'S LARGE FLAG LEEK



FIELD OF THORBURN BIG BOSTON LETTUCE

LETTUCE, continued

	Pkt.	Oz.	¼lb.	Lb.
6130 Gray-seeded Butter. One of the best; large head. ....	\$0 05	\$0 15	\$0 35	\$1 25
6140 Hanson Improved. Very large and solid; tender and of fine quality; with-stands the hot sun well. <i>w. s.</i> .....	05	15	35	1 25
6150 Hothouse. Fine forcing variety. <i>w. s.</i> .....	05	20	60	2 00
6160 Hubbard Market. A large cabbage variety, with crisp, tender leaves; for forcing or open ground. <i>w. s.</i> .....	05	15	35	1 25
6170 Iceberg. Large, solid, curled heads; yellow heart; crisp and tender. <i>w. s.</i>	05	15	35	1 25
6200 Mammoth Black-seeded Butter, Thorburn. A selected strain; large, solid, yellow heads. Favorite variety of New York market-gardeners.....	05	15	35	1 25
6210 Market-Gardeners' Private Stock, Thorburn. A selected strain; solid, large heads, resisting the sun for a long time before shooting. <i>b. s.</i> .....	05	20	50	1 50
6220 Maximum Thorburn. The largest, solidest, crispest and best; leaves tender and particularly fine in flavor. <i>b. s.</i> .....	05	20	55	1 75
6230 MAY KING. Large, round, solid heads. <i>w. s.</i> .....	05	20	50	1 50
6240 Mignonette. Distinct russet colored; very solid and compact. <i>b. s.</i> .....	05	20	50	1 50
6250 New York Cabbage. Large, solid heads; inside very white. <i>w. s.</i> .....	05	15	35	1 25
6260 Oak Leaf. A curled-leaf variety of bright green color. <i>w. s.</i> .....	05	20	55	1 75
6270 Passion. A medium-sized cabbage variety, with tender, crisp and fine-flavored leaves; popular in the South. <i>b. s.</i> .....	05	15	35	1 25
6290 Rheingold. Large, solid heads; pure golden yellow; tender, delicious and crisp leaves. Fine forcer.....	05	20	50	1 50
6300 Salamander Improved. Fine, compact heads; tender; quality of the best; resists summer heat. <i>b. s.</i> .....	05	15	35	1 25
6310 Shotwell Brownhead. Large, handsome, tender heads; very hardy. <i>b. s.</i> .....	05	20	50	1 50
6320 Simpson Early Curled. A leading early sort; very tender. <i>w. s.</i> .....	05	15	35	1 25
6330 Simpson Black Seed. A superior variety; large, and of light color. <i>b. s.</i> .....	05	15	35	1 25
6340 Tennisball White Seed (Boston Market). A well-known forcer; large heads; crisp and tender. <i>w. s.</i> .....	05	15	35	1 25
6350 Tennisball Black Seed. Forms close, hard heads; for forcing. <i>b. s.</i> .....	05	15	35	1 25
6360 Trocadero. Hardy; for spring or summer; green, tinged russet; very tender, crisp and fine-flavored. <i>w. s.</i> .....	05	20	55	1 75
6380 French Yellow Winter. The finest of all coldframe sorts. <i>b. s.</i> .....	05	20	55	1 75

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

**ROMAINE, or COS  
LETTUCE**

- 6440 **Bath Cos, Black-seeded.** Pale green leaves, slightly tinged with brown. Early and productive and of fine flavor. *b. s.* Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.
- 6450 **White Paris Cos.** Of upright growth; fine. *w. s.* Pkt. 5 cts., oz. 15 cts., ¼lb. 35 cts., lb. \$1.25.
- 6460 **Trianon Cos.** Resists heat well. *w. s.* Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.
- 6470 **Express Cos.** A fine, very dwarf early sort, requiring no tying up. *w. s.* Pkt. 5 cts., oz. 15 cts., ¼lb. 35 cts., lb. \$1.25.
- 6480 **Balloon Cos.** Fine sort. *b. s.* Pkt. 5 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.
- 6490 **GOLDEN YELLOW COS.** Long-standing; solid; golden yellow. See *Novelties*. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.
- 6500 **RED COS.** Splendid French sort. Outer leaves red-brown; very attractive. See *Novelties*. Pkt. 5c., oz. 20c., ¼lb. 50c., lb. \$1.50.



HEAD OF THORBURN BIG BOSTON LETTUCE

**MUSTARD**

MOUTARDE      *Mostaza*      Senf

**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.

	Pkt.	Oz.	¼lb.	Lb.
6650 <b>Black.</b> These seeds form the mustard of commerce.....	\$0 05	\$0 10	\$0 25	
6660 <b>White London.</b> Leaves used for salads while young; grows very rapidly...		05	10	25
6670 <b>Giant Southern Curled.</b> Very large leaves.....	\$0 05	10	20	50
6680 <b>Chinese Broad-leaved.</b> Leaves of agreeable flavor when cooked like spinach.	05	10	20	50
6684 <b>Elephant's Ear.</b> Immense, light green leaves.....	05	10	20	50
6690 <b>Fordhook Fancy.</b> Very ornamental; plants of vigorous growth; leaves dark green, curved outwardly. If used as a vegetable, cook like spinach....	05	10	20	50
6700 <b>Ostrich Plume.</b> Leaves curled and frilled like an ostrich plume.....	05	10	20	50

**MELON, MUSK (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 road-dust 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.

**SALMON-FLESHED VARIETIES**

	Pkt.	Oz.	¼lb.	Lb.
6780 <b>Baltimore Market.</b> Oblong; orange flesh, of fine quality; intermediate....	\$0 05	\$0 15	\$0 35	\$1 00
6790 <b>Banquet.</b> Beautifully netted, medium size; rich salmon flesh, fine quality....	05	15	35	1 25
6800 <b>Burrell's Gem.</b> Reddish orange flesh; fine-grained and spicy.....	05	15	35	1 00
6804 <b>Defender.</b> One of the very best yellow-fleshed sorts; medium size, oval in shape; flesh very firm and rich. Very vigorous and productive.....	05	15	35	1 25
6810 <b>Emerald Gem.</b> Small; extra early; dark green skin, orange flesh; very sweet.	05	15	35	1 25
6812 <b>Long Yellow Cantaloup.</b> Yellow flesh; late.....	05	15	35	1 25
6814 <b>Osage.</b> Coconut-shaped, yellow flesh; light green, netted skin.....	05	15	35	1 25

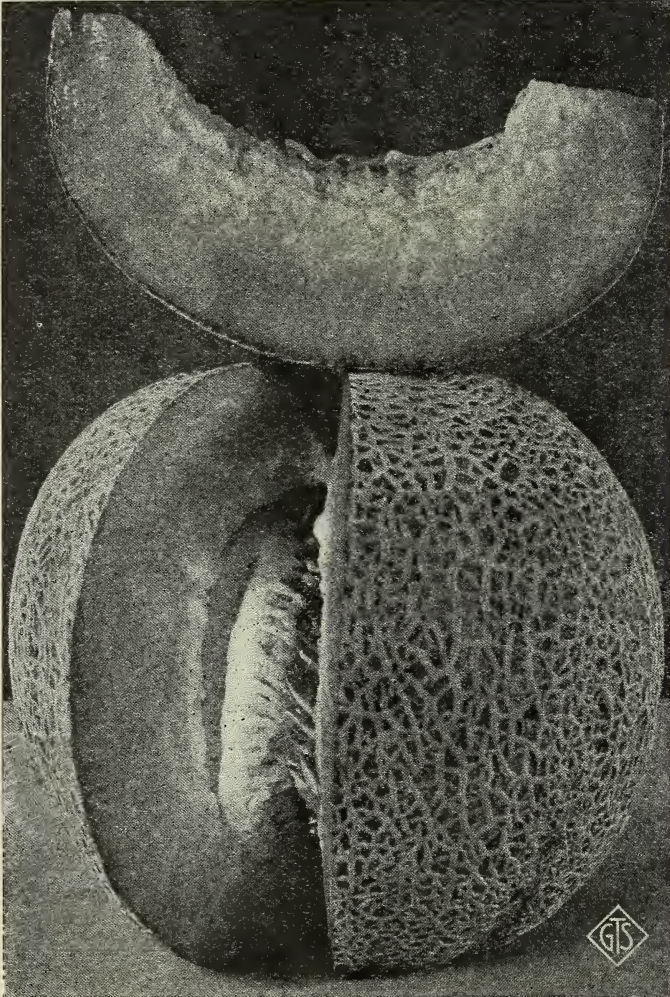
*We pay postage or express charges on all seeds bought by the packet, ounce or quarter-pound*

## SALMON-FLESHED MUSKMELONS, continued

	Pkt.	Oz.	¼lb.	Lb.
6820 Paul Rose. Handsome oval variety; rich orange flesh; very sweet.....	\$0 05	\$0 15	\$0 35	\$1 00
6824 Shumway Giant. Round; light green; flesh deep salmon; very late.....	05	15	35	1 25
6830 Surprise. Oblong; rich orange flesh of fine quality; early.....	05	15	35	1 25
6834 New Fordhook. Firm, thick, deep salmon flesh; very sweet.....	05	15	35	1 25
6840 Nutmeg Tip Top. An improved strain; very sweet, salmon flesh.....	05	15	35	1 25
6850 Thorburn's Orange Christina. Fine orange sort. Round, very sweet and very early.....	05	20	60	2 00
6860 Yellow-meated Japan.....	05	20	60	2 00

## GREEN-FLESHED VARIETIES

6880 Bay View Hybrid. Prolific; very large; late; green flesh.....	05	15	35	1 25
6904 HYBRID CASABA. See <i>Novelties</i> .....	10	25	75	2 50
6910 Champion Market. Large, slightly elongated; netted; flesh light green; early.	05	15	35	1 25
6914 Eden Gem. The popular shipping melon at Rocky Ford. Flesh deep green, very solid and firm. Skin heavily netted.....	05	15	35	1 25
6920 Hackensack. Large, round, and of good quality; a popular variety; early...	05	15	35	1 25
6930 " Extra Early. Ripens 10 days earlier than the Hackensack....	05	15	35	1 25



THORBURN'S LONG ISLAND BEAUTY MUSKMELON

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

- 6940 Jenny Lind. Old favorite. Small, green-fleshed; very early; good quality. Pkt. 5 cts., oz. 15 cts., ¼lb. 35c. lb. \$1.
- 6950 Long Island Beauty. On style of Hackensack. The earliest and finest in quality, and the most beautiful of all Muskmelons. Pkt. 5 cts., 15 cts., ¼lb. 35 cts., lb. \$1.25.
- 6970 Montreal, Green. Large, round, netted; flesh thick and light green; late. Pkt. 5 cts., oz. 15 cts., ¼lb. 35 cts., lb. \$1.25.
- 6980 Netted Gem, Round. Very early; small and of fine flavor; green flesh. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. \$1.
- 6990 Netted Gem, Oblong. Same as above, save in shape. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. \$1.
- 6994 Norfolk Button. On style of Jenny Lind; good flavor. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. \$1.
- 7000 Nutmeg. Sweet, green flesh; very early; named from its shape. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. \$1.
- 7010 Rocky Ford. Improved Netted Gem; very sweet and fine-flavored; oblong. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. \$1.
- 7030 Skilman's Netted Gem. Oval shape; early; sweet and highly perfumed; green flesh. Pkt. 5 cts., oz. 15 cts., ¼lb. 35 cts., lb. \$1.25.

MISCELLANEOUS MUSKMELONS

	Pkt.	Oz.	¼lb.	Lb.
7110 Banana Citron. Cucumber-shaped; highly perfumed; late.....	\$0 05	\$0 15	\$0 35	\$1 00
7120 Mango Melon, or Vine Orange. Size, shape and color of an orange; fine for preserving or for pickling.....	05	20	60	2 00
7130 Pomegranate. Ornamental for perfume; late.....	05	20	60	2 00
7140 Winter Pineapple. An extraordinary melon; can be kept in splendid condition for months after being pulled. For the South only.....	05	20	60	2 00

IMPORTED VARIETIES OF MUSKMELON

ENGLISH FRAME VARIETIES

	Pkt.
7220 Eclipse. Green flesh.....	\$0 25
7230 Blenheim Orange. Scarlet flesh.....	25
7250 Monroe's Little Heath. Scarlet flesh.....	25
7270 Gunton Scarlet.....	25
7280 Royal Sovereign. White flesh.....	25
7290 Windsor Castle. Green flesh.....	25

FRENCH VARIETIES

*These sorts ripen outdoors here, and are well worthy of cultivation*

7300 Delight of the Table.....	25
7310 Trevoux.....	25
7320 Noir des Carmes.....	25
7330 Tours Sugar.....	25

These are four of the latest Paris market sorts.

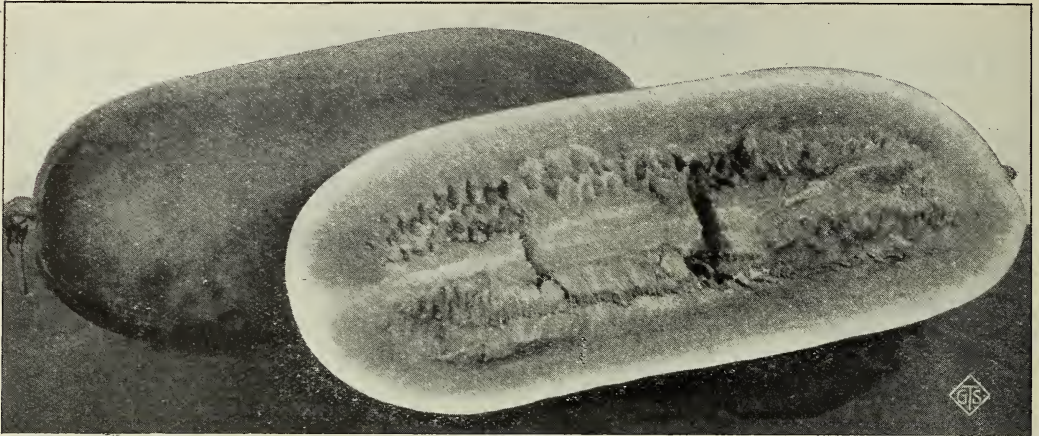
MELON, WATER

MELON D'EAU      Zandia      Waffermelone

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

	Pkt.	Oz.	¼lb.	Lb.
7410 Alabama Sweet. Dark green skin; red flesh, tender and sweet. Long. Fine shipper.....	\$0 05	\$0 10	\$0 25	\$0 75
7430 Black Diamond. Dark green, tough skin; large size. Round.....	05	10	25	75
7440 Black Spanish. Roundish; nearly black; dark red flesh; early.....	05	10	25	75
7450 Boss. Oblong; dark green; flesh deep scarlet; rind thin; intermediate.....	05	10	25	75
7460 Blue Gem, or Iceberg. Bright red flesh; very sweet; fine shipper. Oval.....	05	10	25	75
7480 Bradford. Long and of dark color; red flesh, sweet and tender.....	05	10	25	75
7490 Cole's Early. Medium size; red flesh; green skin. Oval.....	05	10	25	75
7500 Cuban Queen. Solid and heavy; skin marked regularly; excellent; early. Oval.....	05	10	25	75
7510 Dixie. Excellent quality; very large and solid; red flesh; intermediate. Long.....	05	10	25	75
7530 Early Fordhook. Extra-early; good size; green skin; red flesh. Oval.....	05	10	25	75
7540 Florida Favorite. A superior strain; oblong; red flesh; intermediate.....	05	10	25	75
7550 Halbert Honey. Dark, glossy, green skin; flesh crimson, luscious and sweet. Strong, vigorous grower and free fruiter. Long. [Fine for Northern States.....	05	10	25	75
7560 Hungarian Honey. A very early sort; fine for northern latitudes; perfectly round; brilliant red flesh.....	05	10	30	1 00
7570 Ice Cream, White Seed (Peerless). Very early; red flesh. Oval.....	05	10	25	75
7580 Icing, Dark. Solid, dark green skin; red flesh of superior quality; white seed; early; nearly round.....	05	10	25	75
7590 Icing, Light. Round; pink flesh of fine quality.....	05	10	25	75
7600 Jordan Gray Monarch. Largest grown; crimson flesh; late. Long.....	05	10	25	75
7606 Jumbo. Deep red flesh of excellent flavor. Very large, almost globular in shape; striped light and dark green.....	05	10	25	75
7610 Kleckley Sweets. Exceedingly sweet and fine-flavored; dark green skin; thin rind; flesh scarlet, solid and firm. Long.....	05	10	25	75
7620 Kolb Gem. Large; good shipper; bright red flesh; intermediate. Oval.....	05	10	25	75
7630 Mammoth Ironclad. Long; very large; late; red flesh; good shipper.....	05	10	25	75
7640 Mammoth Santiago. Light green skin, striped dark green; deep blood-red flesh of sweet flavor; uniformly large and long; a good shipper.....	05	10	25	75
7650 Mountain Sweet. Red flesh; late. Dark green. Long, tapers to stem end.....	05	10	25	75
7660 Phinney. Early, and of fine quality; large, solid; red flesh; intermediate. Oblong.....	05	10	25	75
7670 Pride of Georgia. Round, large; crisp; bright red flesh; intermediate.....	05	10	25	75
7680 Rattlesnake, Southern. Oblong; dark and striped; bright red flesh; late.....	05	10	25	75
7690 Seminole. Very large; quality first-rate; red flesh; intermediate. Oblong.....	05	10	25	75

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



TOM WATSON WATERMELON

## MELON, WATER, continued

	Pkt.	Oz.	¼lb.	Lb.
7700 Sugar Stick. Light green; oblong; luscious rich red flesh. Strong grower..	\$0 05	\$0 10	\$0 25	\$0 75
7720 Sweetheart. Very large; bright skin; fine quality. Oval.....	05	10	25	75
7724 TOM WATSON. Produces melons 16 to 22 inches long and 8 to 10 inches in diameter. The dark green rind is thin but tough, so that it stands shipping well. The flesh is deep red, crisp and melting and of finest flavor. See <i>Novelties</i> .....	05	10	25	75
7730 Triumph. Bluish green skin; red flesh; large; good shipper. Oblong.....	05	10	25	75
7740 Wonderful Sugar. Very sweet; handsome, oblong shape.....	05	10	25	75
7750 Citron, Green Seed. Used for preserves.....	05	10	25	75
7760 Citron, Red Seed. Round and handsome; for preserving.....	05	10	25	75

## 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.

	Pkt.	Oz.	¼lb.	Lb.
7900 Tall Crimson.....	\$0 05	\$0 15	\$0 40	
7910 Tall Yellow.....	05	15	40	
7920 Tall Mixed.....	05	10	20	\$0 60
7930 Dwarf Mixed.....	05	10	25	75

## 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 whilst small and tender.

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

## ORACH, or FRENCH SPINACH

ARROCHE *Arnuella*

CULTURE.—Sow early in spring; cultivate and use like spinach.

	Pkt.	Oz.	¼lb.	Lb.
8100 Red. Distinct; dark red leaves.....	\$0 05	\$0 15	\$0 35	\$1 00
8120 White. Pale green leaves, almost yellow.....	05	15	35	1 00

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E. F. PELL, of New York, writes under date of July 17, 1912: "I am pleased to report that I find your seeds very satisfactory."



## 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, 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 Spawn, on the contrary, after starting a little, will remain in a comparatively dormant state for a long time without losing its vitality. It is well to keep these points in mind in ordering spawn. The French Spawn should be slightly moistened by sprinkling with water for two or three days before planting.



MUSHROOMS FROM ENGLISH SPAWN

		Per brick	10 bricks	100 brick
8170 American Spawn. In bricks	.....	\$0 19	\$1 60	\$12 50
8190 English Spawn. In bricks	.....	15	1 00	9 00
8200 French Spawn. In bulk	.....	Per lb. 30 cts., 10 lbs. \$2.50		

*Transportation charges extra*

## MARTYNIA (For Pickles)

Gemshorn

**CULTURE.**—Sow in May in the open ground, 3 feet apart in each direction, where the plants are to remain; or the seed may be sown in a hotbed, and the seedlings afterward transplanted. These varieties are productive and fine for pickles. Pick when small and tender, and preserve the same as cucumbers.

		Pkt.	Oz.	¼lb.	Lb.
8250 Craniolaria	.....	\$0 05	\$0 25	\$0 75	\$2 50
8280 Proboscidea	.....	05	25	75	2 50

## 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 or 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 February and March and transplanting the seedlings to the open ground.

		Pkt.	Oz.	¼lb.	Lb.
8320 White Early Barletta. A small white Italian sort; earliest	.....	\$0 05	\$0 20	\$0 60	\$2 00
8330 " Queen. Pure white; small, flat; extra-early; fine for pickling	.....	05	20	60	2 00
8340 " Pearl. Extra-early; round; white; fine	.....	05	20	60	2 00
8350 " Victoria. Italian; white and globular	.....	05	20	60	2 00
8360 " Large Portugal. The standard large flat sort of the New York markets	.....	05	20	60	2 00
8370 " Large Globe (Southport Strain). Very large and handsome	.....	10	30	80	2 50
8380 " Mammoth Garganus, or Silver King. Large, silvery white Italian	.....	10	30	80	2 50
8390 " Paris Silverskin. Fine Italian sort	.....	05	20	60	2 00
8400 " Bermuda (Teneriffe-grown)	.....	15	75		
8410 " Crystal Wax (Teneriffe-grown)	.....	25			
8420 " Tripoli (El Paso, or Mexican). Large, white Italian variety	.....	05	20	60	2 00
8430 " Bunching, or Italian Silverskin	.....	05	20	60	2 00

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



THORBURN'S GLOBE SOUTHPORT ONIONS

## ONION, continued

		Oz.	¼lb.	Lb.	
8450	WHITE VAUGIRARD WINTER. Fine pickling sort. Sow in September Pkt. for early spring Onions. <i>See Novelties</i> .....	\$0 10	\$0 35	\$1 00	\$3 00
8520	" Welsh. The leaves are used for salad early in spring. Sow in fall....	10	30	80	2 50
8540	Yellow Danvers. A standard sort; early and a good keeper.....	05	20	50	1 50
8550	" Globe Danvers. Of more globular shape; keeps well.....	05	20	50	1 75
8560	" Large Globe (Southport Strain). The finest large yellow.....	05	20	60	2 00
8564	" Globe Michigan. True globe-shape; fine keeper.....	10	30	80	2 50
8570	" Globe Spanish, or Prizetaker. Immense size; globe-shaped.....	05	20	60	2 00
8574	" DENIA. Imported from Spain. <i>See Novelties</i> .....	15	75		
8576	" Giant Rocca. Productive and mild; of large size; Italian.....	05	20	60	2 00
8580	" Strasburg, or Dutch. Fine keeper; flat; yellow skin; white flesh.....	05	20	50	1 50
8590	" Globe, Australian. Globe-shaped; thin neck; flesh pure white, solid and crisp. Early and a good keeper.....	05	20	60	2 00
8600	" Ailsa Craig. A splendid yellow globe variety; grown largely for exhibition purposes.....	15	60		
8700	Red Australian Brown. Medium size; hard; solid; very early.....	05	20	60	2 00
8710	" Bermuda (Teneriffe-grown).....	10	35	1 00	3 50
8720	" Large Wethersfield. Half-early, and a good keeper; large size.....	05	15	40	1 25
8730	" Large Globe (Southport Strain). The finest large red sort.....	05	20	60	2 00
8740	" Early Globe. Like above, but earlier and not so large.....	05	20	55	1 75
8750	" Early Flat. Medium size; very early; deep red; mild flavor.....	05	20	55	1 75
8760	Chives Seed.....	10	50	1 50	5 00
8790	Yellow Potato Onion (Seed).....	10	35	1 00	3 50
8820	Shallot Seed.....	10	50		

## ONION SETS

Plant in drills about 12 inches apart and 4 inches in the rows. They must have high culture.

*These are the prices ruling in January; later on they may be higher*

	Qt.	½pk.	Pk.
Yellow Onion Sets.....	\$0 20	\$0 60	\$1 00
White Onion Sets.....	25	75	1 25
Red Onion Sets.....	20	60	1 00

# PEAS

Pois Chicharos o Guisantes 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. In this climate, the O'Rourke Pea, if planted from the 16th 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 larvæ, 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 transportation charges at the rate of 5 cts. per pint, 10 cts. per quart.

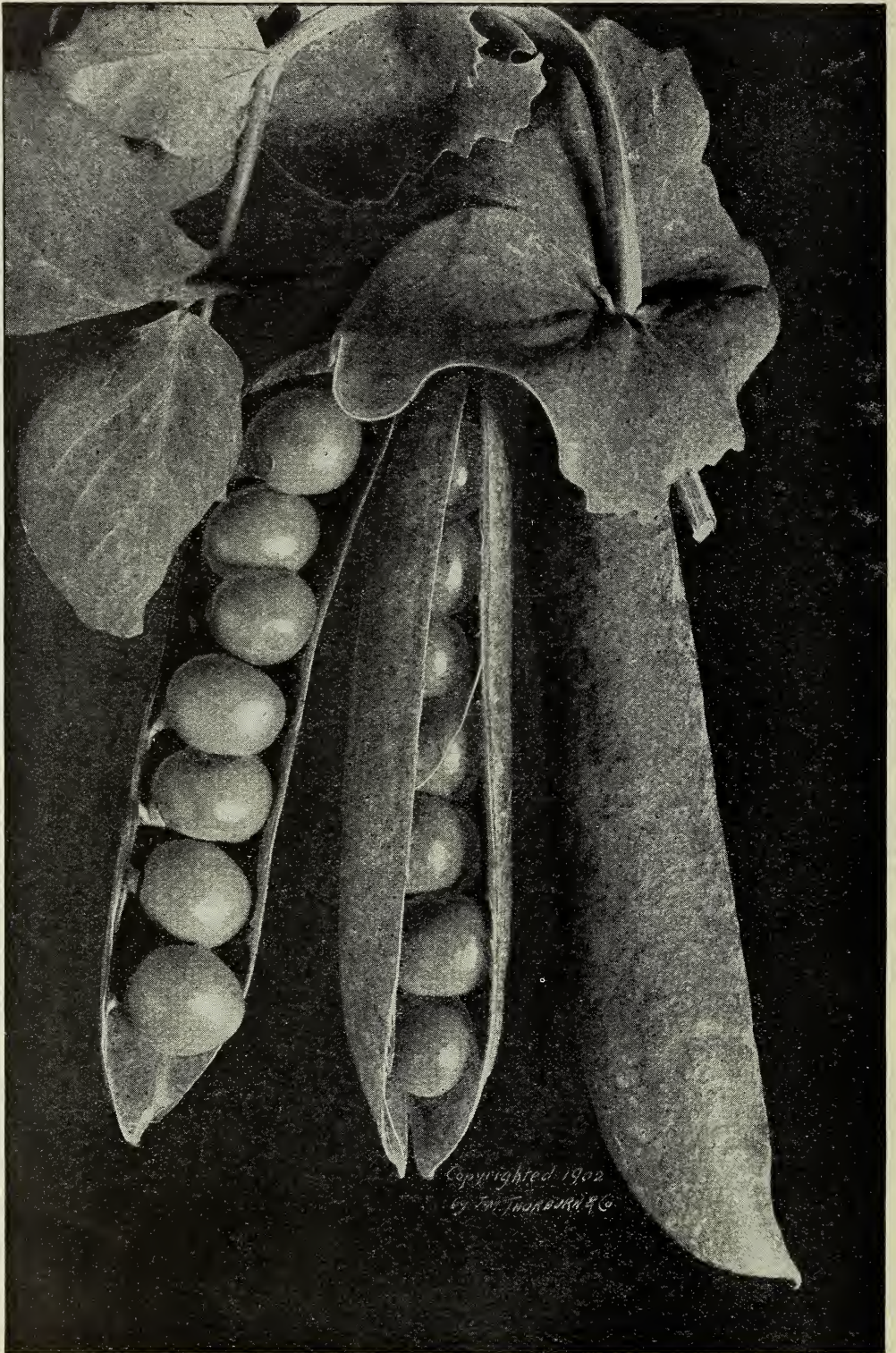
## EXTRA-EARLY PEAS

	Height in feet	Per pint	Per quart	Per ½pk.	Per pk.
8900 Thorburn Extra-Early Market. Our standard market-garden extra-early Pea; productive and profitable to grow.....	2½	\$0 20	\$0 35	\$1 25	\$2 00
8910 Daniel O'Rourke, Improved. Extra-early; favorite sort.....	2½	20	35	1 25	2 00
8920 First-of-All. First-class selected strain of extra-earlies.....	2½	20	35	1 25	2 00
8930 Alaska. One of the very earliest blue Peas; quite productive.....	2½	20	35	1 25	2 00
8940 †*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 7 or 8 large, wrinkled Peas of the finest flavor. pkt. 15 cts....	3	30	50	1 75	3 00
8950 †*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. pkt. 15 cts....	3	30	50	1 75	3 00
8970 Ameer (Claudit). Finest quality; exceedingly productive.....	2½	20	35	1 25	2 00
8980 *American Wonder. Early and productive; fine quality.....	1	20	35	1 25	2 00
8986 *English Wonder. Very prolific and early.....	1½	25	45	1 50	2 50
8990 *Sutton's Excelsior. Asearly as American Wonder, with much broader pods, filled with large Peas of finest flavor; very prolific.....	1	25	45	1 50	2 50
9000 *Nott's Excelsior. Splendid early wrinkled sort; very prolific.....	1	30	50	1 75	2 75
9004 Pedigree Extra-Early. One of the finest extra-early sorts.....	2½	20	35	1 25	2 00
9010 *Premium Gem. Early; straight pods, well filled.....	1	25	40	1 30	2 25
9020 *Little Gem. Early; straight pods.....	1½	25	40	1 30	2 25
9030 *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.....	2	25	45	1 50	2 50
9040 †*Laxtonian. Very large, dark green, curved pods and Peas of finest flavor; great yielder; very early.....	1½	35	60	2 25	4 00
9060 *PETER PAN. See <i>Novelties</i> .....pkt. 25 cts....	1½				
9080 †*Witham Wonder. A valuable and reliable early dwarf sort. Pods contain 8 to 10 large Peas of exceptionally sweet flavor.....	1	25	45	1 50	2 50

## EARLY AND MEDIUM PEAS

9130 *Advancer. A fine standard sort of excellent quality.....	2½	20	35	1 25	2 00
9160 *Abundance. Long, round, well-filled pods. Sow thinly.....	1½	20	35	1 25	2 00
9170 *Horsford's Market-Garden. On the style of Advancer; very prolific.....	2½	20	35	1 25	2 00
9180 *Everbearing. Long pods; large Pea. Sow thinly.....	2½	20	35	1 25	2 00
9190 †Pride of the Market. Very large pods; green Peas. Sow thinly....	2	25	40	1 30	2 25
9200 *Champion of England. A well-known standard sort. Sow thickly..	5	25	40	1 30	2 25
9210 *Dwarf Champion. A dwarf form of the popular Champion of England, with large pods; very productive; finest quality.....	2	25	45	1 50	2 50
9220 †*Duke of Albany (American Champion). Immense pods on style of Telephone; very superior.....	5	30	50	1 75	3 00
9230 Fillbasket. A standard productive sort of good quality.....	2	20	35	1 25	2 00
9260 †*Heroine. Large, full pods; enormously productive.....	2½	20	35	1 25	2 00
9270 †*Daisy. Dwarf wrinkled, with large pods and Peas.....	1½	30	50	1 75	3 00
9280 †*Sutton's Dwarf Defiance. Straight, long dark green pods, closely packed with large Peas of superior flavor. Very productive..	2½	25	45	1 50	2 50
9284 *The Lincoln. Long, curved deep green pods, well filled with Peas of finest flavor. Very productive.....	1½	25	45	1 50	2 50
9300 *Yorkshire Hero. A spreading variety; productive. Sow thinly.....	2½	25	40	1 30	2 00

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



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THORBURN'S GRADUS PEAS (see page 39)

MAIN- AND LATE-CROP PEAS

	Height in feet	Per pint	Per quart	Per ½pk.	Per pk.
9400 †*Admiral Dewey. Enormous pods; large, wrinkled Peas of fine flavor; very productive.....	3 ½	\$0 25	\$0 45	\$1 50	\$2 50
9406 †*Gladstone. About a week earlier than Telephone. Pods very long and curved a little. Light green and very prolific.....	3 to 3 ½	25	45	1 50	2 50
9410 †*Juno. Large, straight pods; fine quality; very productive.....	1 ½	25	45	1 50	2 50
9414 †*Queen. Very large, handsome pods, filled with large, dark green Peas of finest flavor; first class main-crop variety.....	2 ½	25	40	1 30	2 25
9420 †*Stratagem. Very large pods; Peas of finest quality.....	1 ½	25	45	1 50	2 50
9440 †Telegraph (L. I. Mammoth).....	Crop failed.				
9450 †*Telephone. Enormous pods and Peas of best quality.....	4	25	45	1 50	2 50
9460 White Marrowfat. A favorite; heavy yielder.....	4	15	25	85	1 50
9470 Black-eyed Marrowfat. Very hardy and prolific; for market.....	3	15	25	85	1 50

We supply packets of Peas at 10 cts. each, postpaid.

SUGAR PEAS (EDIBLE PODS)

Sugar Peas have edible pods which are eaten when young.

	Height in feet	Per pint	Per quart
9540 Mammoth Gray-seeded Sugar. Immense pods.....	pkt. 15c..	5	\$0 50
9550 Dwarf Sugar. Very early.....			35
9564 Luscious Sugar.....	pkt. 15c..		50

PARSLEY and PARSNIP. See page 42.

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.

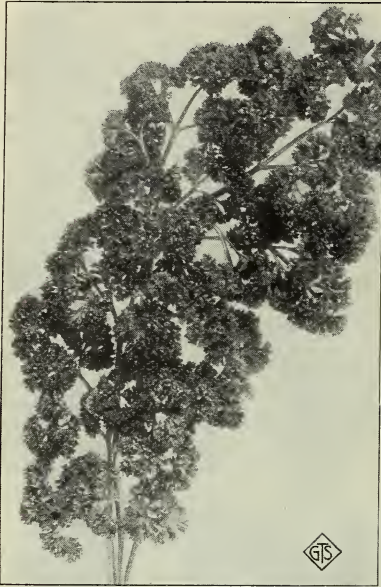
- 9650 Bell, Large. Large; bright red; largely used for pickling. It is of such mild flavor that it may be eaten as a vegetable. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.
- 9660 CHINESE GIANT. Very large; flesh very mild and thick; bright scarlet color. See *Novelties*. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.25, lb. \$4.
- 9670 Cayenne Long Red. Bright red slender pods, 3 inches long; pungent. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.
- 9680 Celestial. At first fruit is yellow, but when fully matured, a deep scarlet. Pkt. 5 cts., oz. 20 cts., ¼lb. 65 cts., lb. \$2.25.
- 9700 Golden Queen Mammoth. Very large fruits; rich golden yellow color; early. Pkt. 5 cts., oz. 20 cts., ¼lb. 65 cts., lb. \$2.25.
- 9710 Monstrous. Very large and of mild flavor; for use when green. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.
- 9720 Neapolitan. Very early and productive. Large and sweet. Pkt. 5 cts., oz. 20 cts., ¼lb. 65 cts., lb. \$2.25.
- 9750 Red Chili. Very productive; very small; red and very pungent. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.
- 9760 Red Cluster. A new type of Chili, with upright, bright red fruits.....
- 9764 RUBY GIANT. Quite large and of desirable shape for stuffing. Of mild and delicate flavor. See *Novelties*.....
- 9770 Ruby King. Bright red; 4 to 6 inches long; mild; best for stuffing.....
- 9780 Squash, Large. Productive; for pickles.....
- 9790 Sweet Mountain. Large size; regular, handsome shape; mild flavor.....
- 9800 Sweet Spanish. Large, mild; used for salad.....
- 9810 Tabasco. *True*. Bush 3 feet high; small, long, bright red fruit in clusters; very hot and the best for pepper-sauce and pickling.....
- 9840 UPRIGHT SWEET SALAD. Finest of all. See *Novelties*.....



LARGE BELL PEPPERS

	Pkt.	Oz.	¼lb.	Lb.
9760 Red Cluster.....	\$0 05	\$0 20	\$0 65	\$2 25
9764 RUBY GIANT.....	10	40	1 25	4 00
9770 Ruby King.....	10	30	85	3 00
9780 Squash, Large.....	05	20	65	2 25
9790 Sweet Mountain.....	05	25	75	2 50
9800 Sweet Spanish.....	05	20	65	2 25
9810 Tabasco.....	10	45	1 35	4 50
9840 UPRIGHT SWEET SALAD.....	10	35	1 00	3 00

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



THORBURN EXTRA CURLED PARSLEY

## PARSLEY

PERSIL *Perijil* Peterfilie

CULTURE.—Soak the seeds a few hours in lukewarm 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. 9970 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.

	Pkt.	Oz.	¼lb.	Lb.
9920 Thorburn's Extra Curled. Superior	\$0 05	\$0 20	\$0 50	\$1 50
9930 Thorburn's Moss Curled. Pretty	05	20	50	1 50
9940 Fern-leaved. Fine curled	05	20	60	2 00
9950 Plain. The ordinary form	05	20	50	1 50
9970 Hamburg, or Thick-rooted	05	20	50	1 50
9980 Glory of Erfurt. Turnip-rooted	05	20	60	2 00

## PARSNIP

PANAIS *Chirijia* Pastinate

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.

	Pkt.	Oz.	¼lb.	Lb.
10030 Thorburn Hollow Crown. A market-gardener's strain	\$0 05	\$0 10	\$0 20	\$0 70
10050 Early Round	05	15	35	90

## 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 or 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.

	Pkt.	Oz.	¼lb.	Lb.
10150 Large Cheese. Flat; one of the best varieties for family use	\$0 05	\$0 10	\$0 20	\$0 60
10160 " Kentucky. Flat; fine for pies, etc.	05	10	20	50
10170 Early Sugar. Fine-grained, sweet and prolific; small; yellow	05	10	20	50
10200 Golden Oblong. Orange skin; light yellow flesh; fine quality; good keeper	05	10	20	65
10210 Cushaw Golden. Fine yellow crookneck sort	05	10	25	75
10220 " Striped. A splendid striped crookneck variety	05	10	25	75
10224 " White, or Jonathan. A white crookneck variety of excellent quality; fine for pies	05	10	25	75
10230 Tennessee Sweet Potato. Bell-shaped; thick, white flesh; fine for pies	05	10	25	75
10244 Japan Crookneck. Fine keeper. Quality excellent	05	10	25	75
10250 Red Etampes. Medium size; flat; very productive	05	15	40	1 25
10260 Mammoth King. Grows to an enormous size	05	15	40	1 25
10270 Mammoth Tours. A very large French variety	05	10	25	75
10280 Quaker Pie. Very prolific and a good keeper; fine for pies	05	10	25	75
10290 Winter Luxury. A fine keeper and one of the best for pies	05	10	25	75
10300 Connecticut Field. Grown in corn-fields for stock	½lb. 25 cts.	05	10	15 40

## SEED 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.

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

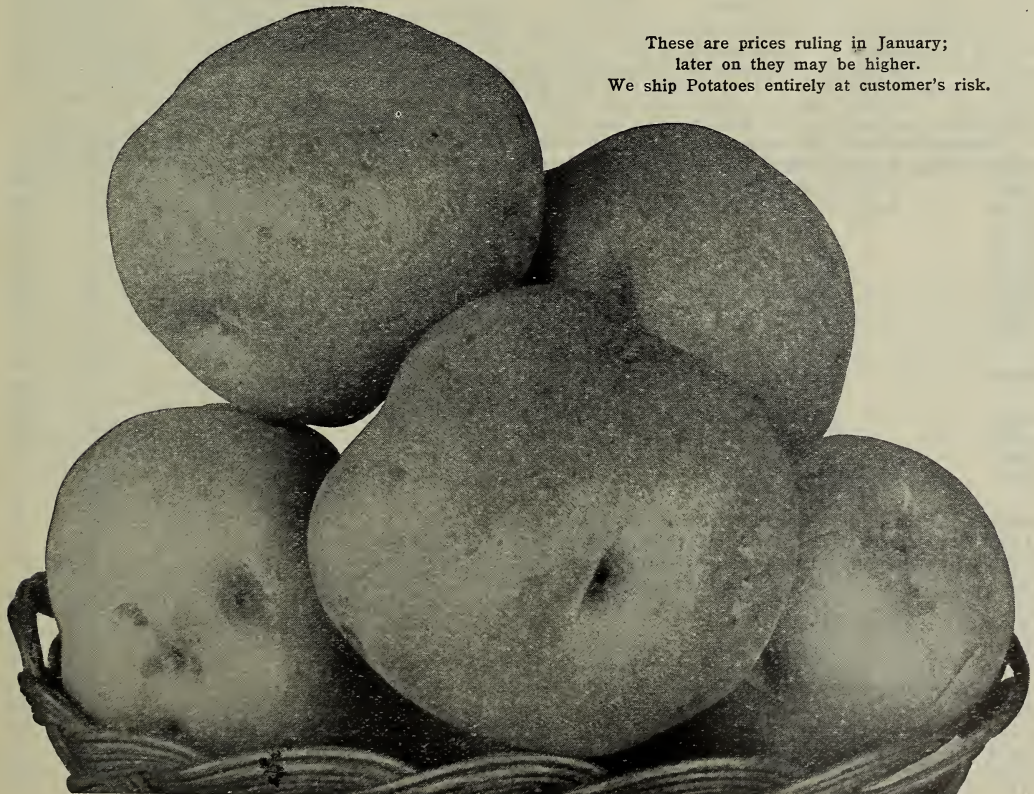
EARLY POTATOES

		½pk.	Pk.	Bus.	Bbl.
10400	<b>NOROTON BEAUTY.</b> The finest and most productive extra-early Potato	45	\$0 75	\$2 35	\$5 50
	grown. Handsomer in appearance and more uniform in shape than any other sort. Its table quality is superb. Original stock. ½bus. \$1.35..\$0				
10410	<b>The Thorburn.</b> We recommend it as one of the best for first crop. It is very early and of the finest quality; also very productive and of good size and form.....	40	65	2 00	4 75
10420	<b>Thorburn's Beauty of Hebron.</b> Slightly flesh-colored skin, with pure white flesh. Very productive and of the finest quality; a first-class early variety.....	40	65	2 00	4 50
10430	<b>Irish Cobbler.</b> Fine white; vigorous grower.....	40	65	2 00	4 75
10440	<b>Bovee.</b> Extra early; very productive; of fine quality; flesh white.....	40	65	2 00	4 75
10460	<b>Early Rose.</b> Popular market sort; very early; fine quality; very productive.	40	65	2 00	4 50
10500	<b>Bliss' Triumph.</b> Very early and very productive; handsome color; resists disease well. Good sort for the South.....	40	65	2 00	4 50

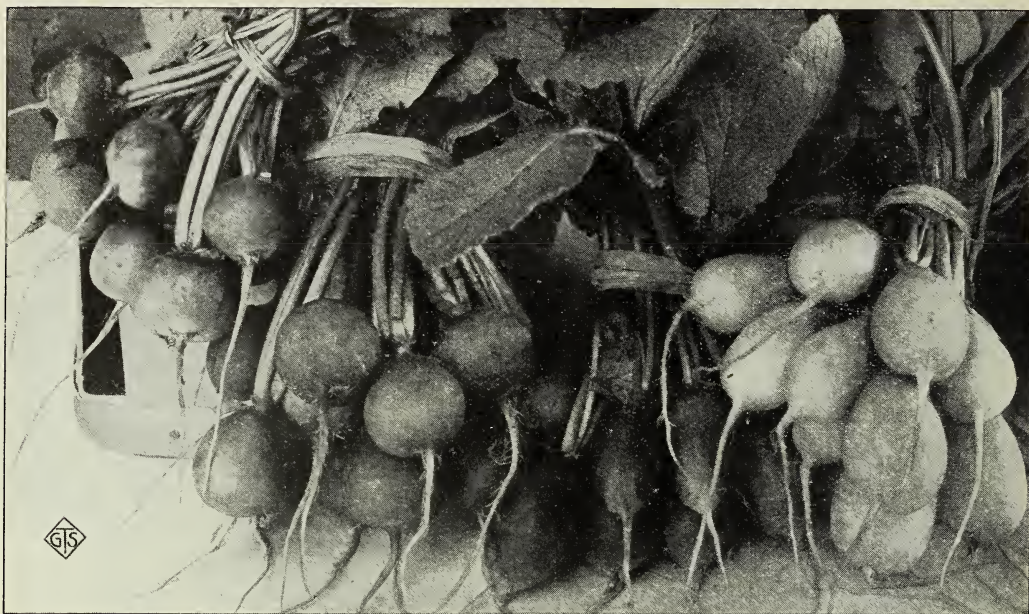
INTERMEDIATE AND LATE POTATOES

10520	<b>Gold Coin.</b> 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.....	40	65	2 00	4 50
10530	<b>Carman No. 1.</b> 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.....	40	65	2 00	4 50
10540	<b>Uncle Sam.</b> Handsome shape, good size, fine quality.....	40	65	2 00	4 75
10560	<b>Sir Walter Raleigh.</b> Very productive; white flesh of best quality.....	40	65	2 00	4 75
10580	<b>Rural New Yorker.</b> Very few and shallow eyes; pure white skin and flesh; immense yielder; fine table quality.....	40	65	2 00	4 50
10590	<b>Green Mountain.</b> Oval shape, white skin and flesh; excellent; heavy yielder.	40	65	2 00	4 50

These are prices ruling in January;  
later on they may be higher.  
We ship Potatoes entirely at customer's risk.



THORBURN'S NOROTON BEAUTY POTATOES



TYPES OF THORBURN RADISHES

## 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 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.

		Pkt.	Oz.	¼lb.	Lb.
10680*	Turnip, Early Scarlet. Very early. The French favorite.....	\$0 05	\$0 10	\$0 20	\$0 50
10690*	Early Scarlet Forcing. Crisp; very early.....	05	10	20	60
10710*	Early Scarlet White-tipped. Very early; for frames or outdoors.....	05	10	20	50
10720	“ “ Forcing.....	05	10	20	60
10740	“ “ Deep Scarlet. Very early; crisp.....	05	10	20	60
10760	“ “ DEEP SCARLET FORCING. See <i>Novelties</i> .....	05	10	25	75
10764	“ “ Deep Blood-Red. Fine deep color.....	05	10	20	60
10770*	“ “ Scarlet Gem, White-tipped Forcing.....	05	10	20	50
10800	“ “ Triumph (Speckled Beauty). Very prettily striped or mottled scarlet and white; fine forcer.....	05	10	25	80
10810*	“ “ SCARLET GLOBE-SHAPED. Fine for forcing or open ground. See <i>Novelties</i> .....	05	10	20	65
10820	“ “ CRIMSON GIANT, or Giant Butter. See <i>Novelties</i> .....	05	10	25	75
10840*	“ “ Non Plus Ultra. Extra-early scarlet forcing.....	05	10	20	50
10860	“ “ White, or Box. For forcing; flesh pure white and sweet.....	05	10	25	75
10870	“ Sparkler. Half brilliant scarlet, half white; short-leaved. Excellent variety.....	05	10	35	I 00
10900*	“ Golden Summer. Smooth and bright skin.....	05	10	25	75
11000*	French Breakfast. Pink and white; early.....	05	10	25	75
11060*	Olive-shaped White Forcing (White Rocket). A forcing strain of above....	05	10	25	75
11080*	“ Deep Scarlet Forcing (Red Rocket). A forcing strain of the above.....	05	10	25	75
11094	“ Scarlet.....	05	10	20	60
11100	“ Brightest Scarlet Forcing.....	05	10	25	75
11110	“ White-Tip Forcing (White-Tip Rocket).....	05	10	25	75
11140	Half-Long Deep Scarlet (Paris Beauty). Flesh bright and crisp.....	05	10	25	75
11144	“ “ Forcing. Fine.....	05	10	25	75
11150	“ Delicacy. Half-long, smooth, snow-white; fine forcer.....	05	10	20	50
11154	“ Scarlet, White-tipped. Solid and crisp.....	05	10	25	75
11160	“ White Forcing. Splendid, pure white; fine forcer.....	05	10	25	75
11180*	Long Scarlet Short Top. Very long, crisp; for frames or outdoors.....	05	10	20	60

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



RADISH, continued

	Pkt.	Oz.	¼lb.	Lb.
	\$0 05	\$0 10	\$0 20	\$0 60
11190 Long Brightest Scarlet White-tipped.....				
11200* " Scarlet Chartier, White-tipped.....	05	10	20	60
11210 " White Naples. Slender; for summer use.....	05	10	20	60
11220* " White Vienna, or Lady Finger. Crisp and tender in summer.....	05	10	20	60
11230 " Icicle. Pure white, of fine flavor; suitable for forcing.....	05	10	20	60
11240 " Long Cincinnati Market. An improved strain of Long Scarlet.....	05	10	20	50
11250* " Wood's Frame. Long, red, crisp and good forcer.....	05	10	20	50
11290 Round Scarlet China. Fine for winter or summer. Matures in 6 to 8 weeks.	05	10	25	75
11320*White Strasburg Summer. Very large; the German's favorite.....	05	10	20	65
11330* " Stuttgart Summer. Very early and very large.....	05	10	20	65
11380*Winter Scarlet Chinese. Oblong. Very handsome and distinct and keeps well.....	05	10	25	75
11390 " Long Black Spanish. The popular winter sort.....	05	10	20	65
11400 " Half-Long Black Spanish. Very fine strain.....	05	10	25	75
11410 " Oval Black Spanish. Shorter and more oval than the above.....	05	10	25	75
11420 " Round Coal-Black Spanish. Fine for winter.....	05	15	35	1 00
11440 " Celestial. Very large; white; solid and crisp. Fine winter sort.....	05	10	25	75
11480 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....	05	15	40	1 25

RAMPION

RAIPONCE      *Raponche*      Rapunzel-Rübe

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 out too thickly, and water frequently during hot weather. The roots may be gathered for use from October onward throughout the winter.

	Pkt.	Oz.	¼lb.	Lb.
	\$0 10	\$0 25	\$0 75	\$2 50
11550 Rampion. The roots and leaves are excellent as salad.....				

11590 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. Pkt. 5 cts., oz. 15 cts., ¼lb. 35 cts., lb. \$1.

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.	¼lb.	Lb.
	\$0 05	\$0 15	\$0 40	\$1 25
11640 Victoria.....				
11660 Crimson Winter.....	10	35	1 00	3 50
11700 ROOTS, of Victoria only. Strong. 15 cts. each, \$1.50 per doz. Transportation charges extra.				

11740 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. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.

11780 SCORZONERA

CORZONERE      *Escorzonera*      Scorzionwurzel

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. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.

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

## SALSIFY, or VEGETABLE OYSTER

SALSIFIS *Ostion Vegetal* Hafertwurz

**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 them 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.

11850 Mammoth Sandwich Island. Large. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.25.

11880 Thorburn's Improved Thick-rooted. Thick and smooth. Pkt. 10 cts., oz. 30 cts., ¼lb. 85 cts., lb. \$3.

SKIRRET. See page 50.

## 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.

11930 Garden, Large French. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.

	Pkt.	Oz.	¼lb.	Lb.
11934 " Large Belleville. Very large .....	\$0 10	\$0 30	\$0 85	\$3 00
11940 " Mammoth Lyons. Extra-large improved strain .....	10	30	85	3 00
11944 " Golden-leaved Lyons .....	10	30	85	3 00
11950 " Large-leaved German .....	10	25	75	2 50



THORBURN'S IMPROVED THICK-ROOTED SALSIFY

## 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



GIANT LUCULLUS SWISS CHARD (see page 47)

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.

12000 Round Viroflay (Thick-leaved). Has very large, thick, dark green leaves; the favorite market-gardeners' sort for fall or spring sowing. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 35 cts.

12010 Long Season, Thorburn's. Stands longer before running to seed than any other sort except New Zealand. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 35 cts.

12020 Round-leaved Flanders. A standard sort. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 35 cts.

12040 Lettuce-leaved. Popular French sort. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 35 cts.

12050 Curled-leaved Savoy, or Bloomsdale. Large curled and wrinkled leaves; tender and of finest flavor. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 35 cts.

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

SPINACH, continued

	Pkt.	Oz.	¼lb.	Lb.
12060 Long-standing (Round Thick-leaved). Dark green; leaves large and thick; very long-standing. Best for spring growing.....	\$0 05	\$0 10	\$0 15	\$0 35
12070 Victoria. Extra-dark, black-green color. Two or three weeks later than the ordinary "Long-standing." A fine variety for spring sowing.....	05	10	15	35
12080 Prickly, or Winter. Vigorous and hardy; recommended for fall sowing.....	05	10	15	35
12090 Eskimo Giant. Dark green; large leaves.....	05	10	30	80
12100 Triumph. An improved long-standing sort.....	05	10	15	35
12120 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 using.....	05	10	30	80

1690 SWISS CHARD, or SILVER BEET

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 greatly increase the delicacy and tenderness of the leaves. Pkt. 5 cts., oz. 10 cts., ¼lb. 35 cts., lb. \$1.

	Pkt.	Oz.	¼lb.	Lb.
1700 Giant Lucullus. Large, crinkled leaves; tender and of fine flavor.....	\$0 05	\$0 15	\$0 50	\$1 50



THORBURN'S EARLY WHITE SCALLOP BUSH SQUASH

SQUASH

COURGE Calabaza Speiße Kürbiß

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

	Pkt.	Oz.	¼lb.	Lb.
12200 Early Golden Bush. Fine for summer; not so early as the White Bush...	\$0 05	\$0 10	\$0 25	\$0 75
12210 Golden Custard. Mammoth strain of the Golden Bush. A valuable variety; golden yellow flesh; fine quality.....	05	10	25	80
12220 Early White Scallop Bush. A good early shipping variety.....	05	10	25	75

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

## BUSH SQUASH, continued

	Pkt.	Oz.	¼lb.	Lb.
12224 Mammoth White Scallop Bush. Not so early as the former but it produces larger fruits.....	\$0 05	\$0 10	\$0 25	\$0 75
12230 Long Island White Bush. An improved strain of Early White Scallop Bush; very prolific.....	05	10	25	75
12250 Silver Custard. A mammoth strain of Early White Bush. Very large.....	05	10	25	75
12270 Summer Crookneck. Yellow fruit; distinct, best for summer.....	05	10	25	75
12280 Giant Summer Crookneck. Double the size of the above.....	05	10	25	80
12300 Cocozell Bush. A fine variety; oblong shape; skin smooth; dark green, marbled yellow or pale green.....	05	15	35	1 00

## RUNNING VARIETIES

12400 Bay State. Hard, blue shell; for fall or winter.....	05	15	40	1 25
12410 Boston Marrow. Oval; bright orange; flesh yellow and fine.....	05	10	30	1 00
12440 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...	05	15	40	1 25
12450 Delicious. Green skin; orange flesh, fine-grained, sweet and dry.....	05	15	40	1 25
12460 Essex Hybrid. A good fall and winter sort; fine-grained; rich flavor; very prolific.....	05	15	40	1 25
12470 Fordhook. One of the best winter sorts; fine quality.....	05	15	40	1 25
12490 Golden Bronze. Skin green; flesh yellow, fine-grained and sweet.....	05	15	40	1 25
12500 Hubbard. Well known and liked for late use; an excellent sort for pies....	05	15	40	1 25
12510 " Golden. Same as above, but with orange-red skin.....	05	15	40	1 25
12520 " Red. Same as Hubbard, but with bright red skin.....	05	15	40	1 25
12530 " Mammoth Warded. Immense size, covered with warts.....	05	15	40	1 25
12540 Mammoth Chili. Rich orange flesh; grows to an enormous size.....	05	15	40	1 25
12550 Mammoth Whale. Enormous size; solid; bright orange flesh of fine quality.	05	20	50	1 50
12560 Marblehead. Grey skin; very productive; fine keeper.....	05	15	40	1 25
12570 Orange Marrow. Quite distinct; very early, and of most delicate flavor; suitable for fall and winter.....	05	15	40	1 25
12580 Perfect Gem. Round; white; fine quality; good for fall or winter.....	05	20	50	1 50

## VEGETABLE MARROW

12680 English. The true English strain; cream color, merging into deep yellow; white flesh; about 9 inches long.....	05	15	40	1 25
12700 Italian ( <i>Cocozelle di Napoli</i> ). Grows about 20 inches long, with a diameter of 3 or 4 inches. Skin smooth, dark green, marbled yellow or paler green. In Italy it is eaten when quite young.....	05	15	35	1 00

## TOMATO

TOMATO *Tomates* *Liebesäpfel*

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.

	Pkt.	Oz.	¼lb.	Lb.
12740 Acme. Medium size; smooth and good; purplish pink.....	\$0 05	\$0 25	\$0 75	\$2 50
12750 Atlantic Prize. Extra early; smooth, bright red, good size.....	05	25	75	2 50
12770 Beauty. Large, smooth, dark pinkish red; thick flesh; regular form.....	05	25	75	2 50
12780 Buckeye State. Very large and productive; smooth, uniform, good quality.	15	30	85	3 00
12794 Carter's Sunrise. Early and productive; medium-sized, bright scarlet fruits; smooth and solid. For forcing or for outdoors.....	15	40	1 25	4 00
12800 Chalk's Early Jewel. Fine, large, solid, smooth, bright red; similar to Stone; early.....	10	30	85	3 00
12804 Comet. Fine, rich scarlet-red; of perfect form. Great producer; finest quality. Forcing or outdoors.....	15	40	1 25	4 00

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



THORBURN'S STONE TOMATO

TOMATO, continued

	Pkt.	Oz.	¼lb.	Lb.
12810 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.....	\$o 10	\$o 30	\$o 85	\$3 00
12830 Crimson Cushion. Extra large; handsome; bright crimson .....	10	30	85	3 00
12840 Dwarf Champion. Quite distinct; early; fruit like the Acme.....	10	30	85	3 00
12844 Dwarf Giant. Largest-fruited of all dwarf sorts. Rich purplish crimson; firm flesh of delicious flavor. Compact and vigorous grower .....	10	35	1 00	3 50
12850 Earliana. Extra early; bright red; smooth.....	10	30	85	3 00
12870 Earlibell. One of the earliest and most prolific red sorts; vigorous grower...	10	35	1 00	3 50
12880 Enormous. Extra large; very solid; bright red.....	10	35	1 00	3 50
12900 Favorite. Large; smooth; productive and a good shipper.....	05	25	75	2 50
12910 Fordhook First. Smooth; solid; deep pink; medium size; early.....	05	25	75	2 50
12920 Frogmore Selected. Medium size; bright deep red; smooth; very solid and fine-flavored. An excellent sort for forcing under glass.....	10	40	1 25	4 00
12930 Freedom. Early; regular and uniform; bright scarlet.....	05	25	75	2 50
12940 Globe, Livingston's. Glossy rose-color, tinged with purple; very early, smooth and of large size; very productive and a good keeper.....	10	35	1 00	3 50
12950 Golden Queen. Smooth, golden yellow; about size and form of Beauty....	05	25	75	2 50
12960 Ignotum. Early for so large a sort; deep red; smooth; very prolific.....	05	25	75	2 50
12970 Imperial. Early; large; smooth; solid; fine quality; color of Beauty .....	05	25	75	2 50
12980 June Pink. A very early market sort; smooth and of a bright pink color; medium size.....	10	30	85	3 00
12990 Lemon Queen, Thorburn's. Skin and flesh lemon with a faint rose blush.	05	25	75	2 50
13000 Lorillard. Bright glossy red; smooth; of fine flavor and very early.....	10	30	85	3 00
13020 Magnus. Purplish pink, firm flesh; large; uniform; early; productive.....	05	25	75	2 50
13030 Matchless. Extra large, smooth and handsome; bright red; very solid.....	10	30	85	3 00
13060 Paragon. Bright red; round; very productive.....	05	25	75	2 50
13070 Perfection. Early, regular and productive; reddish scarlet.....	05	25	75	2 50
13080 Ponderosa. The largest variety in cultivation.....	10	40	1 25	4 00

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THORBURN'S RED CHERRY TOMATOES

		Pkt.	Oz.	¼lb.	Lb.
TOMATOES, continued					
13084	RED ROCK. <i>See Novelties</i> .....	\$0 05	\$0 25	\$0 75	\$2 50
13110	Ruby Early. Very early; large size; color bright scarlet.....	05	25	75	2 50
13114	Station Dwarf. For pots.....	10	45	1 35	4 50
13120	Stirling Castle. Small size; very solid; finest flavor; enormously productive; for forcing under glass.....	10	40	1 25	4 00
13130	Stone. Very large; perfectly smooth; fine bright scarlet.....	05	25	75	2 50
13140	Stone, Dwarf. In growth resembling Dwarf Champion, but with much larger fruits. Color bright scarlet; perfect shape; very solid and of the best quality.....	10	35	1 00	3 50
13170	Table Queen. Large; smooth; round; solid.....	10	30	85	3 00
13180	TERRA-COTTA, THORBURN'S IMPROVED. Distinct in color and flesh; pure <i>terra-cotta</i> . <i>See Novelties</i> .....	15	60		
13190	Thorburn's Earliest. Smooth; uniform grower; immense yielder.....	10	40	1 25	4 00
13194	Thorburn's Long-keeper. Bright red; early and productive; fine keeper....	05	25	75	2 50
13200	Trophy. Very solid; standard late; fine canner; dark scarlet.....	05	20	65	2 25
13210	Trucker's Favorite. Large, smooth and very regular in form. Purplish red; solid.....	05	25	75	2 50

## SMALL-FRUITED VARIETIES

For pickling and preserving. Also invaluable for garnishing.

13300	Red Cherry. Small fruits, used for pickles; very handsome.....	10	30	85	3 00
13320	Red Peach. Resembling a peach; for preserves, pickles and exhibition.....	10	30	85	3 00
13330	Red Pear. Fruit handsome and solid; fine for preserves.....	10	30	85	3 00
13340	Red Plum. Bright red; round; regular; for pickles.....	05	25	75	2 50
13350	Strawberry (Winter Cherry, or Husk Tomato). Makes fine sauce.....	05	25	75	2 50
13360	Yellow Cherry. For pickles and preserves.....	05	25	75	2 50
13370	Yellow Peach. Beautiful clear yellow; perfectly resembles a peach.....	05	25	75	2 50
13380	Yellow Pear. Handsome, yellow, pear-shaped fruits.....	10	30	85	3 00
13390	Yellow Plum. Round and regular; bright yellow; used for pickles.....	10	30	85	3 00

## SKIRRET

CHERVIS      Zuckerwurzjel

CULTURE.—Sow in drills ½ inch deep, a foot apart; thin out to 8 inches in the row; keep down the weeds. Take up the roots before winter, and store in sand or earth. It is a plump, fleshy root, containing a quantity of sugar and is eaten like scorzonera or salsify.

13440	Skirret.....	\$0 10	\$0 30	\$0 85	\$3 00
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WITLOOF. *See Chicory*, page 27.

*We pay postage or express charges on all 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. 13850 to 13890 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

	Pkt.	Oz.	¼lb.	Lb.
13500 Cow Horn. Long white, in shape resembling a cow's horn.....	\$0 05	\$0 10	\$0 25	\$0 75
13510 Early Snowball. Small, and of rapid growth; pure white.....	05	10	20	60
13520 German Teltow. Smallest of all; early; distinct flavor; best for pickling....	05	10	25	80
13530 Globe-shaped Red-Top. A standard sort in the New York Market.....	05	10	20	60
13540 Globe, Pomeranian White. Good either for table or stock.....	05	10	20	60
13560 Half-Long White. For frames or outdoors; tender when young; fine.....	05	10	25	80
13570 Jersey Lily (White Model). Snow-white; globular.....	05	10	20	60
13580 Kashmir Scarlet. Small; flat; extra early; pure white flesh of finest quality	05	10	25	75
13590 Milan, Early Purple-Crown. Earliest of all; white, with purple top.....	05	20	60	2 00
13600 Milan, Early Pure White. Very handsome; pure white; as early as above..	05	20	60	2 00
13610 MONTESSON WHITE WINTER. Valuable new sort. <i>See Novelties</i> .....	10	20	60	2 00
13620 Norfolk White. Globular; late; solid.....	05	10	20	60
13630 Stone, Thorburn Grey. Solid and sweet; good keeper.....	05	10	25	75
13640 Strap-Leaf, White. A good early, white, flat sort.....	05	10	20	60
13650 Strap-Leaf Red-Top. The popular fall flat sort.....	05	10	20	60
13680 White Egg. Oval; handsome and sweet.....	05	10	20	60
13690 White French, or Rock. Very productive and a fine keeper.....	05	10	20	60
13710 White Tankard. Fine keeper; long shape.....	05	10	25	75

## YELLOW VARIETIES

13750 Aberdeen Yellow. Hardy, productive and a good keeper.....	05	10	20	60
13770 Globe, Yellow. Fine, sweet, light yellow sort.....	05	10	25	75
13780 Golden Ball. Very handsome; keeps fairly well.....	05	10	25	75
13800 Stone, Thorburn Yellow. Fine, hard winter sort.....	05	10	20	60
13840 Tankard Yellow. Long-shaped; good keeper; fine quality.....	05	10	20	60

## RUTABAGA

13850 Thorburn Family. A fine strain for family use; finest quality.....	05	10	25	75
13860 Thorburn Purple-Top Improved (L. I. strain).....	05	10	20	60
13864 Bangholm Swede. Of large size; spherical roots of regular form.....	05	10	20	60
13880 White-fleshed. Large and productive; of fine quality.....	05	10	20	50
13890 Laing's.....	05	10	20	60



THORBURN'S RED-TOP, WHITE GLOBE AND STRAP-LEAF TURNIPS

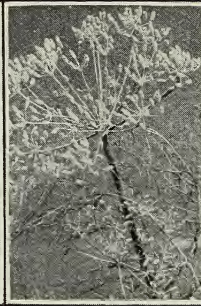
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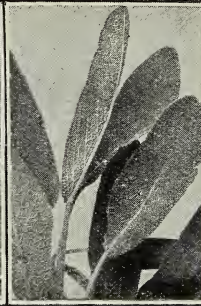
PEPPERMINT



LAVENDER



FENNEL



SAGE



SUMMER SAVORY

## Seeds of Pot, Sweet and Medicinal Herbs

		Per pkt.	Oz.	Lb.
14000	Agrimony. For medicinal purposes.....	<i>Agrimonia officinalis</i> ..	\$o 15	\$1 00
14010	Angelica. Garden. For flavoring wine and cakes.....	<i>Archangelica officinalis</i> ..	05	20 \$2 00
14020	Anise. Seeds aromatic and carminative.....	<i>Pimpinella anisum</i> .....	05	10 75
14030	Arnica. Tincture of Arnica is made from it.....	<i>Arnica montana</i> .....	15	2 00
14040	Balm. For culinary purposes.....	<i>Melissa officinalis</i> .....	05	25 2 50
14050	Basil, Sweet. Culinary herb used for flavoring soups, etc.....	<i>Ocimum Basilicum</i> .....	05	15 1 50
14060	“ Dwarf or Bush. Culinary herb.....	<i>Ocimum minimum</i> .....	05	15 1 50
14070	Belladonna. Is used for medicine.....	<i>Atropa Belladonna</i> .....	10	45 4 50
14080	Bene. The leaves used for dysentery.....	<i>Sesamum orientale</i> .....	05	10 75
240	Borage. Leaves used as a salad.....	<i>Borago officinalis</i> .....	05	10 90
14100	Caraway. For sowing. Used in flavoring liquors and bread.....	<i>Carum Carui</i> .....	05	10 60
14110	Catnip. Has medicinal qualities.....	<i>Nepeta cataria</i> .....	10	35 3 50
14120	Chamomile.....	<i>Matricaria Chamomilla</i> .....	15	2 00
14130	Coriander. Seeds aromatic. For sowing.....	<i>Coriandrum sativum</i> .....	05	10 40
14134	“ “ For flavoring.....	<i>Coriandrum sativum</i> .....	05	10 30
14140	Cumin.....	<i>Cuminum Cyminum</i> .....	05	10 60
14150	Dill. For sowing. Seeds used for flavoring vinegar.....	<i>Anethum graveolens</i> .....	05	10 80
14154	“ Mammoth. Much larger than above.....	<i>Anethum graveolens</i> .....	05	20 2 00
14160	Elecampane. Has tonic and expectorant qualities.....	<i>Inula Helenium</i> .....	05	15 1 25
14170	Fennel, Sweet. Seeds aromatic; for flavoring.....	<i>Anethum Foeniculum</i> .....	05	10 50
14180	“ Florence. In flavor resembling celery.....	<i>Anethum Foeniculum</i> .....	05	10 75
14190	Foxglove, Purple. Has medicinal qualities.....	<i>Digitalis purpurea</i> .....	05	15 1 25
14200	Fumitory. A medicinal herb.....	<i>Fumaria officinalis</i> .....	10	1 50
14210	Hemlock. Has medicinal qualities; poisonous.....	<i>Conium maculatum</i> .....	10	1 00
14220	Henbane. Has medicinal qualities; poisonous.....	<i>Hyoscyamus niger</i> .....	05	15 1 50
14230	Horehound. Has medicinal qualities.....	<i>Marrubium vulgare</i> .....	05	20 2 00
14240	Hyssop. Has medicinal qualities.....	<i>Hyssopus officinalis</i> .....	05	15 1 50
14250	Lavender. True. For oil and distilled water.....	<i>Lavandula vera</i> .....	10	60 6 00
14260	Lavender. Possessing qualities as above in a lesser degree.....	<i>Lavandula spica</i> .....	05	20 2 00
14270	Marshmallow. Has medicinal qualities.....	<i>Althaea officinalis</i> .....	10	30 3 00
14280	Marigold, Pot. Single. For medicinal purposes.....	<i>Calendula officinalis</i> .....	05	15 1 25
14290	Marjoram, Sweet. Is used in seasoning.....	<i>Origanum Majorana</i> .....	05	15 1 50
14294	“ Pot. Is used in seasoning.....	<i>Origanum Onites</i> .....	10	80
14300	Mint. Curled Mint..... Pkt. of 200 seeds, 25 cts.....	<i>Mentha crispa</i> .....		
14310	“ Peppermint..... Pkt. of 200 seeds, 25 cts.....	<i>Mentha piperita</i> .....		
14314	“ Spearmint..... Pkt. of 200 seeds, 25 cts.....	<i>Mentha viridis</i> .....		
14320	Pennyroyal. Has medicinal qualities.....	<i>Hedeoma pulegioides</i> .....	10	80 8 00
14330	Rosemary. Yields an aromatic oil and water.....	<i>Rosmarinus officinalis</i> .....	10	30 3 00
14340	Rue. Said to have medicinal qualities.....	<i>Ruta graveolens</i> .....	10	30 3 00
14350	Saffron. Is used in medicine, and also in dyeing.....	<i>Carthamus tinctorius</i> .....	05	10 75
14360	Sage, Broad-leaf. A culinary herb; also used in medicine.....	<i>Salvia officinalis</i> .....	05	15 1 25
14370	“ Red. Is used as a culinary herb; also in medicine.....	<i>Salvia Horminum</i> .....	05	10 75
14380	“ Purple. Is used as a culinary herb; also in medicine.....	<i>Salvia Horminum</i> .....	05	10 75
14390	Savory, Summer. Is used as a culinary herb.....	<i>Satureja hortensis</i> .....	10	35 3 50
14400	“ Winter. Is used as a culinary herb.....	<i>Satureja montana</i> .....	10	30 3 00
14410	Tansy. Generally used in bitters.....	<i>Tanacetum vulgare</i> .....	10	35 3 50
14420	Tarragon. True. Does not produce seed. Roots in fall and spring.....	<i>Artemisia Dracunculus</i> ..	35 cts. each, \$3.50 doz.	
14430	Thyme, Broad-leaved English. Is used as a seasoning.....	<i>Thymus vulgaris</i> .....	10	45 4 50
14440	“ French.....	<i>Thymus vulgaris</i> .....	10	45 4 50
14450	Woodruff (Waldmeister, or Maitrank).....	<i>Asperula odorata</i> .....	10	60
14460	Wormwood. Has medicinal qualities.....	<i>Artemisia absinthium</i> .....	05	25 2 50

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TOBACCO SEED

All 10 cts. per pkt. Not less than 10 cts. worth sold

	Per oz.	Lb.
14610 Climax. A cross between Burley and Sterling; fine bright variety.....	\$0 30	\$3 00
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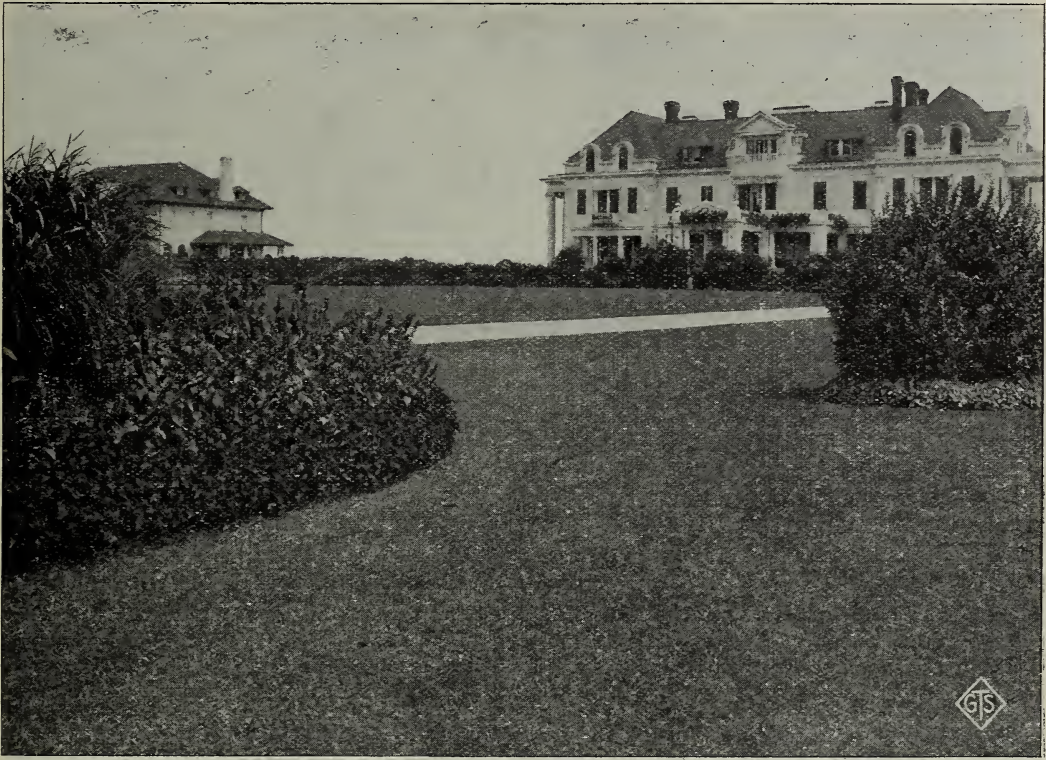
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LAWNS LIKE THIS CAN BE PROCURED BY SOWING THORBURN'S LAWN GRASS SEED

## About Lawns and Lawn Grass Seed

### FORMATION OF LAWNS FROM SEED

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 best time to apply this is just before a rain, the idea being to have the fertilizer washed into the roots. 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. This is the only sure way to rid lawns of these pests.

**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 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 *Agrostis stolonifera*, *Cynosurus cristatus* and *Poa pratensis*.



BY SOWING THORBURN'S LAWN GRASS SEED MIXTURE FOR SHADY SPOTS RESULTS LIKE THIS CAN BE OBTAINED

## Lawn Grass Seed Mixtures

### The Thorburn Lawn Grass Seed

Practically all 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 green sward in three or four weeks from the time of sowing. The ordinary Central Park Lawn Grass Seed, as usually sold, is not to be compared with this superior mixture. It should be sown at the rate of 4 to 5 bushels to the acre (15 pounds to the bushel). Per pt., 15 cts.; qt., 25 cts.; 2 qts., 45 cts.;  $\frac{1}{2}$ pk., 75 cts.; pk., \$1.20; bus., \$4.

### Thorburn's Lawn Grass Seed for the South

A mixture of grasses that stand extremes of heat and drought well and that are therefore peculiarly adapted for southern lawns. Per qt., 35 cts.; 2 qts., 60 cts.;  $\frac{1}{2}$ pk., \$1; pk., \$1.75; bus. of 20 pounds, \$6.50.

### Thorburn's Special Lawn Grass Mixture

This extra-choice mixture contains a large proportion of the finer and more expensive species, such as Rhode Island Bent, Crested Dog's-tail and Creeping Bent, in extra-heavy samples, bringing the weight up to 20 pounds per bushel, and producing a turf of the closest and finest texture possible. Per qt., 30 cts.; 2 qts., 55 cts.;  $\frac{1}{2}$ pk., 90 cts.; pk., \$1.60; bushel of 20 pounds, \$5.50.

### Thorburn's Grass Mixture for Shady Spots on Lawns

A mixture of grasses that thrive in shaded situations, under trees, or close to walls where there is little sun. Per qt., 40 cts.; 2 qts., 70 cts.;  $\frac{1}{2}$ pk., \$1.25; pk., \$2; bushel of 22 pounds, \$7.

### Thorburn's Lawn-Restoring Grass Seed

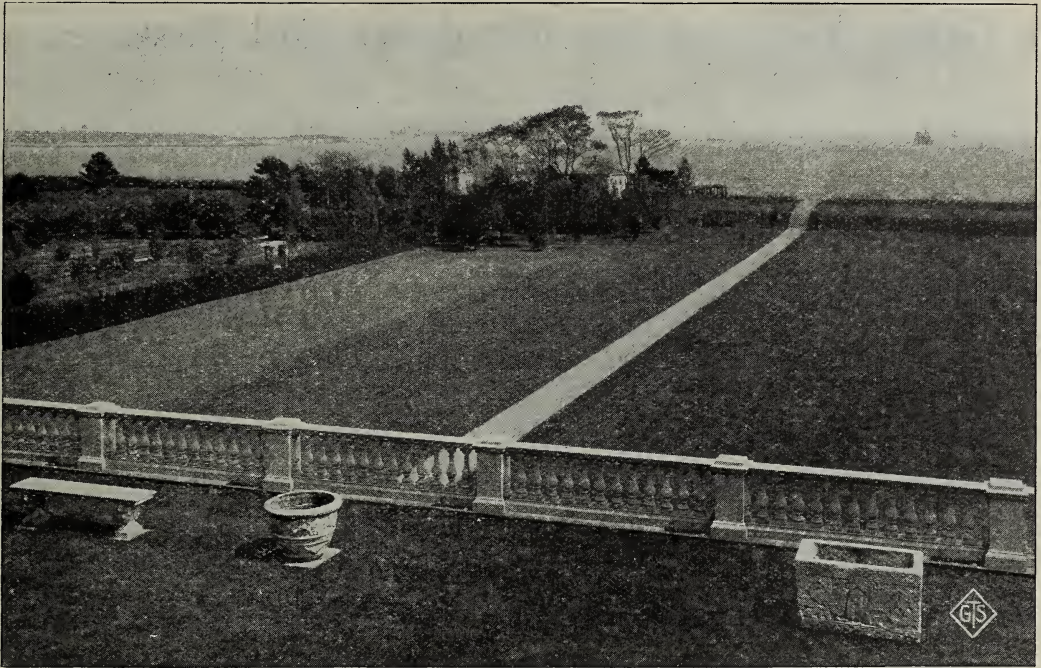
A mixture of grasses peculiarly suited to take firm hold and grow quickly on hard, worn-out or burned spots. The best time to re-sow them is very early in the spring; but seed may also be sown in the fall from first of September to first of October. Some Lawn-restoring Grass Seed should also be sown before every summer rain on thin places. Per qt., 35 cts.; 2 qts., 60 cts.;  $\frac{1}{2}$ pk., \$1; pk., \$1.75; bushel of 20 pounds, \$6.

### Thorburn's Lawn Grass Mixture for the Seashore

A mixture of fine grasses peculiarly suited to seaside lawns. Per qt., 30 cts.; 2 qts., 50 cts.;  $\frac{1}{2}$ pk., 85 cts.; pk., \$1.50; bushel of 18 pounds, \$5.

### Terrace Lawn Grass Seed

A mixture of fine stoloniferous grasses peculiarly adapted to terraces. Per qt., 35 cts.; 2 qts., 60 cts.;  $\frac{1}{2}$ pk., \$1; pk., \$1.75; bushel of 20 pounds, \$6.



## 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 most of the finest links, etc., in the country*, with very satisfactory results.

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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, \$4.

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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. Per qt., 35 cts.; 2 qts., 60 cts.;  $\frac{1}{2}$ pk., \$1; pk. \$1.75; bushel of 20 pounds, \$6.

### Fair-Green Mixture

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### Putting-Green Mixture

Far superior to any other similar mixture offered

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. Per qt., 40 cts.; 2 qts., 70 cts.;  $\frac{1}{2}$ pk., \$1.25; pk., \$2; bushel of 24 pounds, \$7.

## 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. Per qt., 30 cts.; 2 qts., 50 cts.;  $\frac{1}{2}$ pk., 80 cts.; pk, \$1.25.; bushel of 18 pounds, \$4.50.

### Ants in Lawns.

A good way to get rid of ants is by the use of bisulphid of carbon. Observe where the ant-hill is, then with a stick make several holes in the ground about 12 inches deep. Into each hole pour an ounce of the bisulphid and immediately press the earth down tight with the foot. The poisonous gas from the bisulphid spreads all through the ant-hill and is quickly fatal. It is rarely that more than one application is needed. Remember, in using this substance, that it is extremely inflammable.

*Dr. J. Louis White, of New Jersey, writes under date of July 10, 1912: "Your Shady Nook Grass Seed has grown grass where grass never was before."*

*The Southborough Golf Club writes under date of September 18, 1912: "Your Grass Seed has done finely on our course."*

## Grass 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 first of September to middle of October in this latitude.

For about 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

<b>No. 1. On Good Land, neither Too Dry nor Too Wet</b>	<b>No. 2. On High and Dry Land</b>	<b>No. 3. On Wet Late Land</b>
8 lbs. Red Top.	5 lbs. Red Top.	12 lbs. Red Top.
½ " Perennial Sweet Vernal.	4 " Tall Meadow Oat Grass.	6 " Orchard Grass.
2 " Tall Meadow Oat Grass.	2 " Meadow Brome Grass.	2 " Tall Meadow Oat Grass.
2 " Hard Fescue.	2½ " Crested Dog's-tail.	3 " Meadow Fescue.
2 " Sheep's Fescue.	2 " Orchard Grass.	½ " Tall Fescue.
10 " Perennial Rye Grass.	2 " Hard Fescue.	1 " Meadow Soft Grass.
13 " Timothy.	8 " Sheep's Fescue.	10 " Perennial Rye Grass.
2 " Red Clover.	1 " Meadow Soft Grass.	4 " Timothy.
½ " Alsike Clover.	10 " Timothy.	1 " Red Clover.
	1 " Canada Blue Grass.	½ " Alsike Clover.
	2 " Red Clover.	
	½ " Kentucky Blue Grass	
40 lbs. \$4 per bushel of 20 lbs. <i>Sow 2 bushels to the acre</i>	40 lbs. \$4.50 per bushel of 20 lbs. <i>Sow 2 bushels to the acre</i>	40 lbs. \$4 per bushel of 20 lbs. <i>Sow 2 bushels to the acre</i>

### PASTURE MIXTURES FOR ONE ACRE

<b>No. 4. On Good Land, neither Too Dry nor Too Wet</b>	<b>No. 5. On Dry Land</b>	<b>No. 6. On Wet Land</b>
2 lbs. Tall Meadow Oat Grass.	3 lbs. Red Top.	9 lbs. Red Top.
8 " Red Top.	2½ " Tall Meadow Oat Grass.	7 " Orchard Grass.
6 " Orchard Grass.	1 " Meadow Brome Grass.	2 " Meadow Fescue.
4 " Sheep's Fescue.	4 " Orchard Grass.	1 " Tall Fescue.
2 " Hard Fescue.	2 " Hard Fescue.	3 " Meadow Soft Grass.
1 " Meadow Soft Grass.	7 " Sheep's Fescue.	10 " Perennial Rye Grass.
9 " Perennial Rye Grass.	5 " Timothy.	1 " Meadow Foxtail.
1 " Meadow Foxtail.	10 " Perennial Rye Grass.	2 " Timothy.
3 " Kentucky Blue Grass.	1½ " Red Clover.	1 " Rough-stalked Meadow Grass.
2 " Timothy.	4 " Canada Blue Grass.	3 " Kentucky Blue Grass.
2 " Red Clover.		1 " Alsike Clover.
40 lbs. \$4.25 per bushel of 20 lbs. <i>Sow 2 bushels to the acre</i>	40 lbs. \$4.25 per bushel of 20 lbs. <i>Sow 2 bushels to the acre</i>	40 lbs. \$4.25 per bushel of 20 lbs. <i>Sow 2 bushels to the acre</i>

*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 climate conditions.

*Fairfax Harrison, Esq.,* writes under date of July 27, 1912: "We have again had a good hay crop from your seed this year on my farm in Virginia, the yield on thirty-seven acres being slightly over one hundred tons from the sowing last August, although the formula I use is drawn primarily for pastures and makes good sod."

# 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**.

25 lbs. and up of any one sort at the 100-lb. rate. Not less than one pound of any one sort sold.

*The prices are subject to change as the season advances. The weight per bushel is average actual weight.*

**AGROSTIS CANINA** (*Rhode Island Bent Grass*). Resembles Red Top (*A. vulgaris*, described below), but is of dwarfer 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. It is a native of Europe, but has been cultivated in the Eastern States for many years. 60 lbs. of seed to the acre is recommended for lawns. Height, 1 to 2 feet. (16 lbs. to the bushel.) Per lb., 37 cts.; 10 lbs., \$3.50; 100 lbs., \$32.

**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. (18 lbs. to the bushel.) Per lb., 40 cts.; 10 lbs., \$3.75; 100 lbs., \$35.

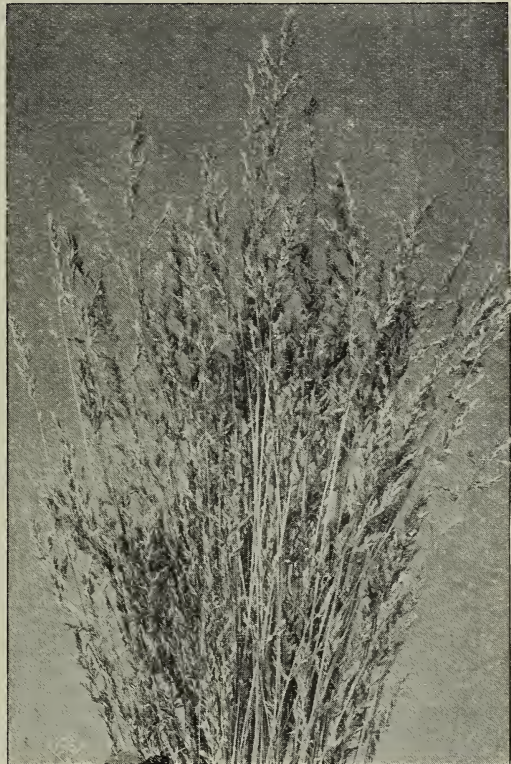
**AGROSTIS VULGARIS** (*Red Top; Herd's Grass*). A very hardy, native perennial grass, succeeding best on moist land. It accommodates itself to a variety of soils, however, even to dry situations, and stands our hot climate admirably. It is, perhaps, the most permanent grass we have, and it enters largely 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 the chaff, and 4 bushels of it is required to sow an acre. Per lb., 18 cts.; 10 lbs., \$1.60; 100 lbs., \$14. (*The absolutely clean or "fancy" seed offered weighs about 36 lbs. to the measured bushel; 36 lbs. of it is sufficient to sow an acre.*)

**Fancy Heavy Red Top Grass**. Absolutely clean and free from chaff. About 36 lbs. to the acre. (36 lbs. to the bushel.) Per lb., 26 cts.; 10 lbs., \$2.40; 100 lbs., \$22.

**AIRA CÆSPITOSA** (*Haddock Grass*). A coarse grass, preferring stiff and marshy bottoms and thriving in moist and shady woodlands. In England, door-mats are formed of it by the cottagers. 30 lbs. to the acre. (18 lbs. to the bushel.) Per lb., 23 cts.; 10 lbs., \$2; 100 lbs., \$18.

**AIRA FLEXUOSA** (*Wood Hair Grass*). Delights in high and rocky hills; it is of little agricultural value except for sheep pasture. 30 lbs. to the acre. Per lb., 22 cts.; 10 lbs., \$2; 100 lbs., \$18.

**ALOPECURUS PRATENSIS** (*Meadow Foxtail*). One of the best permanent pasture grasses for



RED TOP GRASS (*Agrostis vulgaris*)

rich, moist soil. Its chief characteristics are its earliness and its faculty of standing high summer heats without burning. It prefers moist, low 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. Height, 2 to 3 feet. Per lb., 35 cts.; 10 lbs., \$3.25; 100 lbs., \$30.

**AMMOPHILA ARUNDINACEA** (*Beach Grass*). Valuable on the sandy seashore, canal and railway banks, etc. Its strong, creeping, matting roots bind the drifting sand into natural embankments against the action of winds and waves. This grass is usually propagated by transplanting in the fall. Where it is necessary to use seed, it should be sown in spring, and ground covered with brush to hold the seed in place until it has taken firm hold. Height, 2 to 3 feet. Per lb., 70 cts.; 10 lbs., \$6.50; 100 lbs., \$60.

**ANTHOXANTHUM ODORATUM** (*True Perennial Sweet Vernal Grass*). For a mixture with pasture grasses, it is valuable on account of its vernal

**Anthoxanthum odoratum**, continued

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. Per lb., 80 cts.; 10 lbs., \$7.50.

**ANTHOXANTHUM ODORATUM PUELLI** (*Annual Sweet Vernal Grass*). Much smaller than the perennial, and of much less value, lasting one year only. 20 to 25 lbs. to the acre. Per lb., 28 cts.; 10 lbs., \$2.65; 100 lbs., \$25.

**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. Height, 2 to 4 feet. 50 lbs. to the acre. Per lb., 26 cts.; 10 lbs., \$2.40; 100 lbs., \$22.

**AVENA FLAVESCENS** (*True Golden Oat Grass*). Will not thrive well when sown alone, but with other species it becomes desirable for dry meadows and pastures. About 25 lbs. to the acre. Per lb., \$1.25.

**BEACH GRASS.** See *Ammophila arundinacea*.

**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. Crop doubtful. Per lb., \$1.25; 10 lbs., \$11; 100 lbs., \$100.

**BLUE GRASS, Canada.** See *Poa compressa*.

“ “ **English.** See *Festuca pratensis*.

“ “ **Kentucky.** See *Poa pratensis*.

**BROMUS INERMIS** (*Awnless, or Smooth Brome Grass*). An erect perennial, 3 to 5 feet high, native of Hungary, where it is considered one of the best hay grasses, yielding a good return in the arid and silicious soil. 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. Per lb., 22 cts.; 10 lbs., \$2; 100 lbs., \$18.

**BROMUS MOLLIS** (*Soft Chess*). This annual grass is so called because its stems and leaves are downy and soft to the touch. In good soil it rapidly produces an abundant forage, but of poor quality and little relished by cattle. It can be recom-

**Bromus mollis**, continued

mended only for the poorest kind of sandy soil, where grasses of better quality will not grow. 30 lbs. to the acre. Per lb., 20 cts.; 10 lbs., \$1.75; 100 lbs., \$15.

**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. Per lb., 22 cts.; 10 lbs., \$2; 100 lbs., \$18.

**BROMUS SCHRADERI** (*Rescue Grass*). In good, rich soil, several crops have been cut in a season. It cures into hay of fair nutritive quality, but it is more suitable for pasture, or for cutting and feeding green. It is a most valuable grass for growing in the South and for the tropics. Height, 1 to 2 feet. 30 lbs. to the acre. Per lb., 22 cts.; 10 lbs., \$2; 100 lbs., \$18.

**CALAMAGROSTIS ARENARIA.** See *Ammophila arundinacea*.

**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. Height 1 to 2 feet. Per lb., 35 cts.; 10 lbs., \$3.25; 100 lbs., \$30.

**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. Height 3 feet. (14 lbs. to bushel.) Sow 3 to 4 bushels to the acre. Per lb., 25 cts.; 10 lbs., \$2.25; 100 lbs., \$20.

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

**ELYMUS ARENARIUS** (*Lime Grass*). Valuable on the sandy seashore, canal and railroad banks, etc. It tends, with its tough, wide-spreading and thickly matting roots, to form natural and permanent embankments, thus serving to prevent the drifting of the sand and to protect an exposed shore from wind and waves. It is of no agricultural value. Per lb., 60 cts.; 10 lbs., \$5.65; 100 lbs., \$52.



**FESTUCA DURIUSCULA** (*Hard Fescue*). This is a variety of *F. ovina*, dwarfer 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. Height, 1 to 2 feet. 30 lbs. to the acre. Per lb., 27 cts.; 10 lbs., \$2.50; 100 lbs., \$23.

**FESTUCA ELATOR** (*Tall Fescue*). This grass is a native of Europe, but was long ago introduced in this country, and is now naturalized, and widely grown here. It 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 said to be very great. On rich, moist lands it yields a large amount of hay of excellent quality. It is not suitable for lawns. Height, 3 to 4 feet. 40 lbs. to the acre. Per lb., 40 cts.; 10 lbs., \$3.75; 100 lbs., \$35.

**FESTUCA FLUITANS** (*Floating Fescue*). A perennial with long, creeping roots, and preferring a rich, muddy or alluvial soil. It is found in ditches, shallow ponds, sides of rivers and lakes, and in boggy, and marshy ground. As trout and wild duck are very fond of the seeds and tender shoots, it is often introduced on the margins of ponds and rivers with the view of affording them nourishment. Per lb., 55 cts.

**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 said to be 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. Per lb., 35 cts.; 10 lbs., \$3.25; 100 lbs., \$30.

**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 or 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.  $\frac{1}{2}$  to  $1\frac{1}{2}$  feet. 35 lbs. to the acre. Per lb., 30 cts.; 10 lbs., \$2.75; 100 lbs., \$25.

**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

*Festuca pratensis*, continued

reach its full development till the second or third year, when it far exceeds most other sorts in the 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 it is cut young. Height, 2 feet. 40 lbs. to the acre. Per lb., 25 cts.; 10 lbs., \$2.25; 100 lbs., \$20.

**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. Per lb., 30 cts.; 10 lbs., \$2.85; 100 lbs., \$27.

**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.) Per lb., 50 cts.; 10 lbs., \$4.75; 100 lbs., \$44.

**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. Height, 1 to 2 feet. 35 lbs. to the acre. Per lb., 18 cts.; 10 lbs., \$1.60; 100 lbs., \$14.

**HUNGARIAN GRASS**. See *Panicum germanicum*.

**JOHNSON GRASS**. Doubtful.

**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. Height,  $1\frac{1}{2}$  to 2 feet. 60 lbs. to the acre. (28 lbs. to bushel.) Per lb., 13 cts.; 10 lbs., \$1; 100 lbs., \$8.

**LOLIUM PERENNE**. Fancy. A carefully selected, short-seeded, dwarf-growing turf, suitable for lawns. Makes a fine green turf in three weeks. Per lb., 20 cts.; 10 lbs., \$1.50; 100 lbs., \$12.

**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 dur-



FIELD OF TIMOTHY

**Lolium italicum**, continued

ing 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. Height,  $1\frac{1}{2}$  to  $2\frac{1}{2}$  feet. 50 lbs. to the acre. (22 lbs. to bushel.) Per lb., 15 cts.; 10 lbs., \$1.25; 100 lbs., \$10.

**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. Sow 1 to  $1\frac{1}{2}$  bushels to the acre. (50 lbs. to bushel.) Per lb., 13 cts.; 10 lbs., \$1.; 100 lbs., \$8.

**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. Per lb., 45 cts.; 10 lbs., \$4; 100 lbs., \$35.

**PHALARIS ARUNDINACEA** (*Reed Canary Grass*).

A hardy perennial, preferring stiff, wet land, but also doing fairly well in dry, sandy soils. It grows well in ditches and by riversides, where its strong, creeping root-stocks render it valuable for binding the banks. Its seed also affords food for trout and wild fowl. When young, it may be cut for green forage for cattle, but in its more mature state, it is too coarse for this purpose. (30 lbs. to bushel.) Per lb., 90 cts.

**PHELUM 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. It is often sown with Red Top Grass and Red Clover, and the nutritive value of the hay is greatly increased by this mixture. Height, 2 to 3 feet. If sown alone, at least 25 lbs. to the acre should be used. The seed weighs 45 lbs. to the bushel. Several grades are always on the market, differing in purity and vitality. It is always most economical to buy the highest grade, known as "Fancy." Per lb., 15 cts.; 10 lbs., \$1; 100 lbs., \$8.50.

**POA AQUATICA** (*Water Meadow Grass*). This is an excellent pasture grass for very wet situations. It also does well in bogs and marshes, and is useful in the same way as *Festuca fluitans*. 20 lbs. to the acre. Per lb., 65 cts.

**POA COMPRESSA** (*Canada Blue Grass*). Highest grade. A very hardy perennial grass, with creeping root-stocks, forming a close and durable turf of fine texture. 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 said to be 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. Height, 6 to 18 inches. 60 lbs. to the acre. Per lb., 22 cts.; 10 lbs., \$2; 100 lbs., \$18.

**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. It should be included in all putting-green mixtures. Excellent for pasture. 30 lbs. to the acre. (19 lbs. to bushel.) Per lb., 55 cts.; 10 lbs., \$5; 100 lbs., \$45.

**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*, 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. Per lb., 25 cts.; 10 lbs., \$2.25; 100 lbs., \$20.

**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. Height, 1 to 3 feet. 20 lbs. to the acre. (26 lbs. to bushel.) Per lb., 55 cts.; 10 lbs., \$5; 100 lbs., \$46.

**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 58, and for Forage, Economical and Miscellaneous Seeds and Field Corn and Cereals, see pages 65 to 69. Fertilizers are quoted on page 146.

The revised edition of our pamphlet on the seeding and preservation of Golf-links is now ready and will be mailed free to anyone desiring a copy.

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"I am well pleased with the Grass Seed I got of you last summer for my croquet-ground."—J. W. Bost, Indiana, writes under date of April 15, 1912.

"Kindly send me five bushels of your Lawn Mixture, same sort as that of May 18, to arrive here by August 15, at the latest. I am delighted with your seed, and it has excited the admiration of everyone in the neighborhood."—Mrs. B. A. HAGGIN writes under date of August 4, 1912.

## 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 pounds 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. Height, 1 to 3 feet. Per lb., 25 cts.; 10 lbs., \$2.25; 100 lbs., \$20.

**TURKESTAN ALFALFA.** From Turkestan. Said to be harder and more productive than the ordinary variety, and to withstand drought better. Per lb., 25 cts.; 10 lbs., \$2.25; 100 lbs., \$19.

**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. Per lb., 35 cts.; 10 lbs., \$3.25; 100 lbs., \$30.

**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. Per lb., 48c., 10 lbs., \$4.50; 100 lbs., \$40.

**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. Per lb., 30 cts.; 10 lbs., \$2.75; 100 lbs., \$25.

**BURR CLOVER (*Medicago maculata*).** An annual, making good winter grazing on rich soils. Excellent for the South on Bermuda grass land, taking the place of the latter when killed by frost. Sow in August. 20 lbs. to acre. Per lb., 25 cts.; 10 lbs., \$2.25; 100 lbs., \$19.

**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 en-

### Crimson Clover, continued

sure 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. Per lb., 15 cts.; 10 lbs., \$1.25; 100 lbs., \$11.

**JAPAN CLOVER (*Lespedeza striata*).** An annual valuable only in the South, where it thrives in any soil in the driest season. It makes fair hay; eaten readily by stock when green. Valuable for plowing under. Sow in spring broadcast 30 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. Per lb., 40 cts.; 10 lbs., \$3.75; 100 lbs., \$35.

**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. Per lb., 30 cts.; 10 lbs., \$2.80; 100 lbs., \$26.

**MAMMOTH RED or PEA-VINE CLOVER (*English Cow Grass*).** Grows larger and lasts longer than the common Red Clover; valuable for plowing under. 10 lbs. to the acre. Price variable.

**WHITE CLOVER (*Trifolium repens*).** Some White Clover is usually included in lawn grass mixtures. It makes an excellent turf that stands constant trampling. It is of dwarf habit, spreads rapidly and is very hardy. It is valuable in permanent pastures, being sweet and nutritious. Sow in spring. In mixtures, 1 or 2 lbs.; if alone, 8 or 10 lbs. to the acre. Per lb., 50 cts.; 10 lbs., \$4.80; 100 lbs., \$46.

**YELLOW SUCKLING CLOVER (*Trifolium filiforme*).** Native of northern Europe. Valuable for sheep pastures; recommended in grass mixtures for wet, sandy meadows. Per lb., 50 cts.

**YELLOW TREFOIL (*Medicago lupulina*).** An annual or biennial suitable for pastures in wet meadows, or for stiff, clayey soils too poor for Red Clover. It is very useful in some sections, and is sometimes used for hay. 15 lbs. to the acre. Per lb., 27 cts.; 10 lbs., \$2.50; 100 lbs., \$23.

N. B.—All prices are subject to market fluctuations. Prices quoted are those ruling January 1, 1913.



# Cereals

Customers will please add cost of bags when ordering, as follows: ½ bushel, 10 cents; 1 bushel, 14 cents; 2 bushels, 23 cents.

The prices of some varieties may change as the season advances. Customers pay transportation charges.

## FIELD CORN (56 lbs. to bushel)

All grown especially for seed

### FLINT VARIETIES

	Qt.	Pk.	Bus.
Angel of Midnight. Flint; 8-rowed; good-sized.....	\$0 20	\$0 85	\$2 50
Canada Smut-Nose. Yellow flint.....	20	85	2 50
Compton's Early Flint. Small grain; yellow; 12-rowed; large; white cob.....	20	90	2 75
King Philip. Early; reddish yellow flint.....	20	85	2 50
North Dakota Flint. White; 8-rowed; very early.....	20	85	2 50
Canada Early Yellow. Very early; yellow flint..... Ears 5 cts. each, \$3.50 per 100..	20	85	2 50
Sanford, or Long White Flint. Large; 8-rowed.....	20	85	2 50
Large Yellow Flint. Deep yellow grains; medium early.....	20	85	2 50
Large White Flint. Long, slim ears; pure white grain.....	20	85	2 50
Longfellow (Yellow Flint). Small cob and large grain.....	20	85	2 50
White Australian. Early; white flint.....	20	80	2 25

### DENT VARIETIES

Champion White Pearl. Large grain; 14 to 18 rows; ripens in 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	85	2 50
Golden Dent Early. Bright yellow grain.....	20	80	2 25
Hickory King. Large grain; small cob; white dent; ripens in about 120 days.....	20	95	3 00
Iowa Gold Mine. Dent; deep grain; ripens in about 90 days.....	15	75	2 00
Iowa Silver Mine. Large grain, dent; white cob; ripens in 100 days.....	15	75	2 00
King of the Earlies Yellow Dent.....	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-growing; large ears and grains; very productive.....	20	80	2 25
Minnesota King. Yellow; one-half dent and one-half flint; 8-rowed; medium-sized ears; very early.....	20	85	2 50
Pride of the North. Very large ears; deep grains; earliest of all.....	20	80	2 25
White Cap Yellow Dent. Good-sized ears; early.....	20	80	2 25
Wisconsin White Dent. Very early; deep-rooted; stands drought well.....	20	80	2 25

### FODDER AND ENSILAGE VARIETIES

Red-Cob Ensilage. Abundant herbage; tall growth; fine.....	20	85	2 50
Thoroughbred White Flint. Spreading habit; leave only one kernel to grow in a hill. Broad blade and small stalk; valuable for fodder and ensilage; also for grain.....	20	80	2 25
Virginia Horse Tooth. For fodder and ensilage.....	20	80	2 25

### POP CORN (Shelled)

White Rice, White Pearl, Golden Queen. Each, qt. 25 cts., ½pk. 75 cts., pk. \$1.25.

### MISCELLANEOUS CEREALS

All subject to change in price

<b>BARLEY</b> (48 lbs. to bushel). 2 bushels to acre.		Bus.
Champion.....	About	\$1 50
<b>BUCKWHEAT</b> (48 lbs. to bus.) 2 bus. to acre.		
American Silver Hull. Early.....	About	2 00
Japan. Productive; large grains.....	About	1 50
<b>MILLET</b> (50 lbs. to the bushel).		Lb. 100 lbs.
Japan Barnyard ( <i>Panicum Crus-galli</i> ). 30 to 40 lbs. to acre.....	\$0 12	\$6 00



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MAMMOTH WINTER RYE

## MISCELLANEOUS CEREALS, continued

Millet, Hungarian. 1 to 1½ bushels to acre.....	Lb. 100 lbs.	
		\$2.50 per bus...
White French. White grain.....	\$0 12	\$8 00
Golden. Extra-large seed-heads. 1½ bushels to the acre.....	10	5 00
Pearl. Southern fodder-plant.....	15	9 00
Siberian.....	12	6 00
OATS (32 lbs. to the bushel). 2 to 3 bushels to the acre.		
Sensation.....	\$0 15	\$1 50
White Tartar.....	15	1 25
RYE (56 lbs. to the bushel). 1½ to 2 bushels to the acre.		
Spring Rye.....	20	1 75
Winter Excelsior. Long, stiff straw. Sow 1½ bushels to the acre.....	15	1 50
Mammoth Winter. Maximum crop, 50 bushels of grain and 3 tons of straw per acre.....	20	2 00
WHEAT, WINTER (60 lbs. to the bushel). 1½ bushels to the acre.		
Rupert's Giant. Bald; red grain.....	20	2 00
Durum. The best for macaroni.....	25	2 75
Red Wave. Beardless.....	20	2 25
Klondyke. White grain; bald.....	20	2 00
Spring Wheat.....	25	2 50

## 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

**ASPERULA odorata** (*Waldmeister*). Perennial, growing only about 6 inches high, with very fragrant flowers. In Germany it is thought much of as imparting a certain bouquet to Rhine wine, making the well-known *Maitrank*. Per pkt., 10 cts.; per oz., 60 cts.

**ASTRAGALUS sinicus** (Milk Vetch, or Chinese Clover). Largely grown in Japan for feeding cattle and as a fertilizer for rice fields. It is a vigorous-growing, clover-like plant, having a profusion of red and white flowers. Per oz., 10 cts.; per lb., 50 cts.

**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 live-stock. 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. Per oz., 15c.; per lb., \$1.25; per 100 lbs., \$90.

**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 vigorous in growth and rapidly cover the ground, bearing immense quantities of Beans. Per qt., 25 cts.; per bus., \$4.50.

**Common English Horse Bean**. Per qt., 25 cts.; per bus., \$5.

**Soja Bean** (*Glycine hispida*). Thrives well in hot and dry weather. Valuable for the South. Plant at the rate of ½ to ¾ bushel to the acre, in drills 2½ or 3 feet apart, and cultivate same as field corn. It does not make good hay, but is good as ensilage or green fodder.

**Yellow, Southern**. Per qt., 20 cts.; per bus., \$3.

**BEGGARWEED** (*Florida* or *Giant Beggarweed*; *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 pounds 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. Per lb., 35 cts.; per 100 lbs., \$30.

**BERSEEM**. See under Clover, page 64.

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

**Long-Brush Evergreen**. Per lb., 15 cts.; per 100 lbs., \$7.

**Improved Dwarf**. Per lb., 15 cts.; per 100 lbs., \$7.

**California Golden Long-Brush**. Grows from 12 to 14 feet high. Per lb., 15c.; 100 lbs., \$7.50.

**BROOM, Scotch** (*Genista scoparia*). The young growth of this shrub is chiefly valuable as food for sheep and other animals in winter. It is also employed for the making of coarse brooms. Per oz., 10 cts.; per lb., 60 cts.

**BURNET, Common Field** (*Poterium sanguisorba*).

Perennial; makes excellent pasture for sheep; grows on the poorest ground—on dry, sandy or calcareous soils; resists the extremes of heat and cold. Sow in April, and again in September, with sainfoin, clover, rye, grass, etc., 30 lbs. to the acre. Per lb., 50 cts.; per 100 lbs., \$45.

**CATERPILLARS** (*Scorpiurus*). A curious plant; of interest only on account of the peculiar fruits from which its name is derived. Amusement is caused by mixing them in salads. Per pkt., 5 cts.; per oz., 40 cts.

**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. Per oz., 15 cts.; per lb., \$1.50.

**COTTON** (*Gossypium*), **Upland Big Boll**. Very prolific. Per lb., 18 cts.; per 100 lbs., \$12.  
**Sea Island**. Per lb., 20 cts.; per 100 lbs., \$13.

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

**Black**. Per qt., 20 cts.; per bus., \$3.50.

**Black-eyed**. Per qt., 20 cts.; per bus., \$4.

**Clay**. Per qt., 20 cts.; per bus., \$3.50.

**New Era**. Per qt., 20 cts.; per bus., \$3.75.

**Whippoorwill**. Per qt., 20 cts.; per bus., \$3.50.

**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. Per lb., 15 cts.; per 100 lbs., \$8.

**ESPARTO GRASS** (*Stipa tenacissima*). This is the true Esparto Grass, extensively grown in Spain and other parts of the Mediterranean countries for making rope, etc. Per pkt., 15 cts.; per oz., \$1.

**ESPARSETTE**. See *Onobrychis sativa*.

**FENUGREEK** (*Trigonella fœnum-græcum*). Annual. This seed is often sought by hostlers to give temporary fire and vigor to their horses. It is frequently given to oxen and pigs when fattening, causing them to drink and digest their food. Considered to be good for soiling when green. Per oz., 10 cts.; per lb., 25 cts.

**FLAT PEAS**. See *Lathyrus sylvestris*, below.

**FURZE** (*Ulex europæa*). 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. Per oz., 20 cts.; per lb., \$1.50.

**HOP SEED** (*Humulus lupulus*). Per pkt., 10 cts.; per oz., 60 cts.

**JERSEY WINTER KALE**, or Cow Cabbage. For feeding cattle; very hardy. Per pkt., 5 cts.; per oz., 10 cts.; per ¼ lb., 25 cts.; per lb., 75 cts.



FIELD OF SOJA (SOY) BEANS

**JERUSALEM CORN.** See Sorghum, page 69

**JUTE** (*Corchorus*). Annual. Thrives in any good corn ground. Sow in drills, about 8 inches apart, 4 pounds to the acre. Requires no cultivation, as it will outstrip in growth all weeds. May be also sown broadcast, 6 or 7 pounds to the acre. Per oz., 10 cts.; per lb., 50 cts.

**KAFFIR CORN.** See Sorghum, page 69.

**KIDNEY VETCH**, or Sand Clover. See Clovers, page 64.

**LICUORICE** (*Glycyrrhiza glabra*). Seed in pods, per oz., 40 cts.

**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. Per lb., 75 cts.

**villosus**, or major (*Greater Bird's-foot Trefoil*). Per lb., 75 cts.

**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 warm, at rate of 90 lbs. to the acre. Per lb., 15 cts.; per 100 lbs., \$6.

**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. Per lb., 15 cts.; per 100 lbs., \$7.

**Blue.** Used for the same purpose as the white variety. Per lb., 15 cts.; per 100 lbs., \$6.

**MADDER** (*Rubia tinctoria*). A perennial, the roots of which, when dried and reduced to powder, furnish a red coloring matter. Per oz., 20 cts.; per lb., \$1.50.

**MILLETS.** See Cereals, page 65.

**MILLO MAIZE.** See Sorghum, Branching, page 69.

**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 rate of 80 lbs. to 100 lbs. to the acre. Per lb., 15 cts.; per 100 lbs., \$12.

**OSAGE ORANGE** (*Maclura aurantica*). Useful for hedges. Per oz., 10 cts.; per lb., 50 cts.; 25 lbs. and up at 40 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 pounds to the acre. Per lb., 15 cts.; per 100 lbs., \$9.

**PEAS, Canadian Field.** Valuable for northern climates, for cattle-feeding, especially for milch cows. It also makes fine ensilage. It is sown broadcast in the spring and harrowed in. If sown with oats, about 1½ bushels to the acre; in drills, 2 to 3 bushels to the acre. Per qt., 20 cts.; per bus., \$3.50.

**PENICILLARIA spicata.** See Pearl Millet above.

**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. Per pkt., 5 cts.; per oz., 20 cts.; per lb., 75 cts.

**POLYGONUM sachalinense** (*Sacaline*). Hardy perennial, native of the island of Saghalin, between Japan and Siberia. It grows well on the poorest soils, and endures the extremes of heat and cold. Reaches a height of 10 to 12 feet, and can be cut two or three times in the season. The stems and leaves, which are very nutritious, are eaten either green or dry by cattle and sheep, and much relished. Clean seed, per oz., 25 cts.; per lb., \$2.50.

**RAMIE, Silver China Grass** (*Urtica nivea*). Extensively cultivated for its fiber. The seed should be germinated on cotton floating in lukewarm water, and transferred to a bed, screened from the hot sun. When the plants are 4 inches high, transplant to a field in rows 4 feet apart each way; when 3 feet high, turn them over and peg down, covering with earth, and they will start in every direction. Per pkt., 15 cts.; per oz., 85 cts.; per lb., \$10.

**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 pounds to the acre; sown broadcast, 10 pounds to the acre. Per lb., 10 cts.; per 100 lbs., \$8.

**REANA luxurians** (*Teosinte*). Short crop. A valuable fodder-plant from Central America, in growth resembling Indian corn. Well adapted to our Southern States. Per oz., 15 cts.; per lb., 75 cts.

**RICE SEED**, for sowing. Best Carolina. Per lb., 10 cts.; per 100 lbs., \$8.

**SAINFOIN.** See *Onobrychis*.

**SALT BUSH.** See Australian Salt Bush, page 66.

**SACALINE.** See *Polygonum sachalinense*, above.

**SERADELLA** (*Ornithopus sativus*). A valuable forage-plant, admitting of one, and sometimes two cuttings, in one season. It succeeds well in a dry, sandy soil and furnishes a good pasture for sheep. It may also be cured for hay. Can be sown with winter rye. About 50 pounds to the acre. Per lb., 18 cts.; per 100 lbs., \$12.

**SNAILS** (*Medicago scutellata*). Used in the same way as Caterpillars. Per pkt., 5 cts.; per oz., 40c.

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

**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. Per lb., 15 cts.; per 100 lbs., \$9.

**Early Amber Sugar Cane.** Ripens wherever Indian corn matures. Grows 10 to 12 feet high. Per lb., 15 cts.; per 100 lbs., \$8.

**Early Orange Sugar Cane.** Ripens about ten days after Early Amber, and is said to produce a larger crop. Per lb., 15c.; per 100 lbs., \$8.





WINTER OR HAIRY VETCH

**Sorghum, 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. Per lb., 15 cts.; per 100 lbs., \$7.50.

**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. Per lb., 15c.; per 100 lbs., \$8.

**White Kaffir Corn.** Per lb., 15 cts.; 100 lbs., \$8.

**Jerusalem Corn** (White Dhoura). Per lb., 18 cts.; 100 lbs., \$12.

**White Dhoura Corn.** See Jerusalem Corn above.

**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 pounds to the acre. Per lb., 20 cts.; per 100 lbs., \$18.

**SPELTZ.** See Emmer, page 67.

**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 pounds to the acre. Per lb., 15 cts.; per 100 lbs., \$8.

**Giant Spurry.** Per lb., 15 cts.; per 100 lbs., \$8.50.

**TEOSINTE.** See *Reana luxurians*, page 68.

**TOBACCO SEED.** See page 53.

**ULEX europæa.** See Furze, page 67.

**VELVET BEAN.** See page 66.

**VETCHES, Spring Tares** (*Vicia sativa*). Sown broadcast at rate of 60 to 100 pounds 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, per lb., 10 cts.; per 100 lbs., \$5.50.

**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, per lb., 15c.; per 100 lbs., \$12.

**WALDMEISTER.** See *Asperula odorata*, page 66.

**WORMS** (*Astragalus hamosus*). Used the same as Snails and Caterpillars. Per pkt., 5 cts.; per oz., 40 cts.

**FARMOGERM.** Nitro-gathering bacteria for Cow-peas, Soja Beans, Vetches, etc. Acre bottle, \$2; 5-acre bottle, \$9.

Clark's Cutaway Disc Harrows, and Grading and Smoothing Harrows, on page . . . . .	154
Planet Jr. Garden Tools, on page . . . . .	155
Fertilizers, Insecticides, Implements, etc., will be found on pages . . . . .	145 to 158

# 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 or 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. 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.
<b>Abies alba</b> (White Spruce).....	\$0 45	\$4 50	<b>Fir Tree.</b> See <i>Abies</i> and <i>Picea</i> .		
<b>abilis</b> (Silver Fir).....	50	5 00	<b>Juniperus</b>		
<b>arizonica</b> (Silver Cork Fir).....	1 25	15 00	<b>bermudiana</b> (Pencil-wood Cedar)....	\$0 15	\$1 25
<b>brachyphylla</b> (Short-leaved Japan Fir) .	30	3 00	<b>communis</b> (European Juniper).....	10	75
<b>canadensis</b> (Hemlock Spruce).....	70	7 00	<b>oxycedrus</b> (Sharp-leaved Cedar).....	20	2 00
<b>cephalonica</b> (Greek Silver Fir).....	25	2 50	<b>virginiana</b> (Red Cedar).....	10	75
<b>concolor</b> (Calif. White Silver Fir).....	35	3 50	<b>Libocedrus decurrens</b> (California White Cedar).....	40	4 00
<b>firma</b> (Japan Silver Fir).....	20	2 00	<b>Norway Spruce.</b> See <i>Picea excelsa</i> .		
<b>grandis</b> (Great Silver Fir of Oregon)...	50	5 00	<b>Picea ajanensis.</b> From Japan .....	60	6 00
<b>magnifica</b> (Superb Silver Fir).....	45	4 50	<b>Alcockiana</b> (Japan Fir).....	60	6 00
<b>Mertensiana</b> (Calif. Hemlock Spruce)...	80	10 00	<b>Douglasii</b> (Douglas' Spruce).....	40	4 00
<b>nobilis</b> (Noble Fir).....	40	4 00	<b>excelsa</b> (Norway Spruce).....	20	2 00
<b>Nordmanniana</b> (Nordmann's Fir).....	20	2 00	<b>Glehni.</b> From Japan .....	75	9 00
<b>pectinata</b> (European Silver Fir).....	10	75	<b>Menziesii</b> (Menzie's Fir).....	50	5 00
<b>pinsapo</b> (Spanish Fir).....	25	2 50	<b>nigra</b> (Black Spruce).....	50	5 00
<b>sibirica</b> (Siberian Silver Fir).....	30	2 75	<b>polita</b> (Tiger's Tail Fir).....	60	6 00
<b>subalpina</b> (Dwarf Mountain Spruce)...	70	7 00	<b>pungens</b> (Colorado Blue Spruce).....	50	5 00
<b>Veitchii.</b> From Japan.....	35	3 50	<b>rubra</b> (Red Spruce).....	45	4 50
<b>Arborvitæ.</b> See <i>Thuja</i> .			<b>Williamsonii</b> (Williamson's Spruce)....	1 00	
<b>Arctostaphylos glauca</b> (Great-berried Manzanita).....	20	2 00	<b>Pinus austriaca</b> (Austrian Pine).....	15	1 50
<b>tomentosa</b> (Woolly-branched Strawberry Tree).....	30	3 00	<b>australis</b> or <b>palustris</b> (Southern Pine)....	45	4 50
<b>Buxus sempervirens</b> (Evergreen Box)...	30	3 00	<b>Banksiana</b> (Northern Scrub Pine).....	65	6 50
<b>Castanopsis chrysophylla</b> (Western Chinquapin).....	30	3 00	<b>Benthamiana</b> (Foot Hills Yellow Pine)...	45	4 50
<b>Cedrus</b>			<b>canariensis</b> (Canary Island Pine).....	45	4 50
<b>atlantica argentea</b> (Mt. Atlas Cedar)...	35	3 50	<b>cembra</b> (Cembran Stone Pine).....	15	1 25
<b>deodara</b> (Himalayan Cedar).....	35	3 50	<b>contorta</b> (Twisted Branch Pine).....	75	7 50
<b>libani</b> (Cedar of Lebanon).....	35	3 50	<b>Coulteri</b> (Coulter's Pine).....	50	5 00
<b>Chamæcyparis obtusa</b> (Hinoki Cypress)...	30	3 00	<b>densiflora</b> (Japan Pine).....	20	2 00
<b>pisifera</b> (Sawara Cypress).....	45	4 50	<b>edulis</b> (American Nut Pine).....	35	3 50
<b>Cryptomeria japonica</b> (Japan Cedar)....	25	2 50	<b>halepensis</b> (Jerusalem Pine Tree).....	20	2 00
<b>Cupressus</b>			<b>inops</b> (New Jersey Scrub Pine).....	65	6 50
<b>arizonica</b> (Arizona Cypress).....	55	5 50	<b>insignis</b> (Oregon Pitch Pine).....	25	2 50
<b>Goveniana</b> (Goven's Cypress).....	50	5 00	<b>Jeffreyana</b> (Jeffrey's Pine).....	45	4 50
<b>horizontalis</b> (Horizontal Cypress).....	10	1 00	<b>koraiensis.</b> From Japan .....	35	3 25
<b>Lawsoniana</b> (Lawson's Cypress).....	50	5 00	<b>Lambertiana</b> (Sugar Pine).....	30	3 00
<b>macrocarpa</b> (Monterey Cypress).....	25	2 50	<b>laricio</b> (Corsican Pine).....	35	3 50
<b>pyramidalis.</b> .....	10	1 00	<b>maritima</b> (Seaside Pine) .....	10	1 00
<b>sempervirens</b> (Evergreen Cypress).....	10	1 00	<b>monticola</b> (Mountain White Pine)....	60	6 00
			<b>mitis</b> (Short-leaved Pine) .....	50	5 00
			<b>montana</b> (mughus) .....	25	2 50

EVERGREEN TREE AND SHRUB SEEDS, continued

	Per oz.	Per lb.		Per oz.	Per lb.
<i>Pinus muricata</i> (Bishop's Pine).....	\$0 65	\$6 50	<i>Sequoia gigantea</i> .....	\$0 80	\$10 00
<i>Murrayana</i> (Tamarack Pine).....	I 00	12 00	<i>sempervirens</i> (California Redwood)...	45	4 50
<i>parviflora</i> . From Japan.....	30	3 00	<b>Spruce Tree.</b> See <i>Abies</i> and <i>Picea</i> .		
<i>pentaphylla</i> .....	45	4 50	<i>Taxus baccata</i> (English or European Yew)	25	2 50
<i>pinæ</i> (Stone Pine, or Nut Pine).....	10	80	<i>brevifolia</i> (California Yew).....	I 25	16 00
<i>ponderosa</i> (Heavy Pine).....	35	3 50	<i>Thuja aurea</i> (Golden Arborvitæ).....	25	2 50
<i>resinosa</i> (Red Pine).....	I 00	12 00	<i>compacta</i> (Compact Arborvitæ).....	25	2 50
<i>rigida</i> (Northern Pitch Pine).....	40	4 00	<i>gigantea</i> (Giant Oregon Arborvitæ)...	60	6 00
<i>Sabiniana</i> (Sabine's Nut Pine).....	25	2 50	<i>orientalis</i> (Chinese Arborvitæ).....	15	I 25
<i>Strobis</i> (White Pine).....	25	2 50	<i>occidentalis</i> (American Arborvitæ)...	40	4 00
<i>sylvestris</i> (Scotch Pine).....	30	3 00	<i>Torreya Californica</i> (California Nutmeg).	25	2 25
<i>tæda</i> (Loblolly).....	55	5 50	<i>nucifera</i> . From Japan.....	15	I 25
<i>Torreyana</i> (Torrey's Pine).....	45	4 50	<i>Tsuga Sieboldii</i> (Siebold's Japan Spruce).	45	4 50
<i>tuberculata</i> (Tuberculated Pine).....	70	7 00	<i>Yucca filamentosa</i> (Adam's Needle)...	30	3 00
<b>Sciadopitys</b>			<i>glauca</i> , or <i>angustifolia</i> (Narrow-leaved		
<i>verticillatus</i> (Umbrella Pine of Japan).	35	3 50	<i>Adam's Needle</i> ).....	50	5 00
<b>Schinus molle</b> (False Pepper).....	15	I 50	<i>gloriosa</i> (Mound Lily).....	50	5 00

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.
<b>Acer</b>			<i>Betula alba</i> (White European Birch).....	\$0 10	\$0 65
<i>campestre</i> (European Field Maple).....	\$0 10	\$0 60	<i>alba laciniata</i> (Fern-leaved Birch).....	15	I 25
<i>circinatum</i> (Vine Maple).....	50	5 00	<i>alba pendula</i> (Common Weeping Birch)...	10	I 00
<i>glabrum</i> (Oregon Maple).....	20	2 00	<i>americana alba</i> (White Amer. Birch)...	15	I 25
<i>macrophyllum</i> (Large-leaved Maple)...	15	I 50	<i>lenta</i> (Mountain Mahogany).....	25	2 50
<i>Negundo</i> (Box Elder).....	10	I 00	<i>lutea</i> (Yellow or Grey Birch).....	20	2 00
<i>pennsylvanicum</i> (Striped Maple).....	30	3 00	<i>nigra</i> (Red Birch).....	25	2 25
<i>platanoides</i> (Norway Maple).....	10	75	<i>papyracea</i> (Paper Birch).....	25	2 25
<i>pseudo-platanus</i> (Sycamore Maple) ...	10	I 00	<i>populifolia</i> (Poplar-leaved Birch).....	15	I 25
<i>rubrum</i> (Swamp Maple).....	15	I 50	<b>Bignonia Kämpferi</b> .....	20	2 00
<i>saccharum</i> (Sugar Maple).....	10	75	<b>Boston Ivy.</b> See <i>Ampelopsis Veitchii</i> .		
<b>Æsculus flava</b> (Sweet or Yellow Buckeye).	35		<b>Broom.</b> See <i>Genista</i> .		
<i>glabra</i> (Fetid or Ohio Buckeye).....	35		<b>Broussonetia papyrifera</b> (Paper Mul-		
<i>rubricundo</i> (Red-flow'd Horse-chestnut).	35		<i>berry</i> ).....	25	2 50
<b>Ailanthus glandulosus</b> (Tree of Heaven) ..	10	I 00	<b>Callicarpa</b>		
<b>Almond.</b> See <i>Amygdalus</i> .			<i>americana</i> (French Mulberry).....	10	I 00
<i>Alnus glutinosa</i> (Common Alder).....	10	75	<b>Calycanthus floridus</b> (Common Carolina		
<i>incana</i> (Smooth White Alder).....	15	I 25	<i>Allspice</i> ).....	15	I 50
<i>oregona</i> (Oregon Alder).....	30	3 00	<i>occidentalis</i> (Western Allspice).....	40	4 00
<i>rugosa</i> .....	20	2 00	<b>Camellia japonica.</b> From Japan.....	20	2 00
<b>Amorpha angustifolia</b> .....	10	80	<b>Camphor.</b> See <i>Cinnamomum</i> .		
<i>fruticosa</i> (False Indigo).....	10	80	<b>Carpenteria californica</b> .....	I 60	
<i>montana</i> .....	10	80	<b>Carpinus Betulus</b> (European Hornbeam)..	10	50
<i>tennesseensis</i> .....	10	80	<b>Carya amara</b> (Bitternut) .. 100 lbs., \$10.		20
<i>variegata</i> .....	10	80	<i>alba</i> (Shellbark Hickory)..... 100 lbs., \$10.		20
<b>Ampelopsis hederacea</b> (Woodbine).....	10	I 00	<i>porcina</i> (Pignut)..... 100 lbs., \$10.		20
<i>quinquefolia</i> (Virginia Creeper).....	15	I 25	<i>sulcata</i> (Big Shellbark Hickory)...		
<i>Veitchii</i> (Boston Ivy). Clean seed.....	35	3 50	100 lbs., \$10.....		20
<b>Amygdalus</b>			<i>tomentosa</i> (Mockernut) .. 100 lbs., \$9..		20
<i>vulgaris dulcis</i> (Sweet Almond).....	10	I 00	<b>Castanea americana</b> (Am. Chestnut).....	10	35
<i>vulgaris amara</i> (Bitter Almond).....	10	I 00	<i>japonica</i> (Japan Chestnut).....	10	75
<b>Andromeda</b>			<b>Catalpa speciosa.</b> True Hardy <i>Catalpa</i> .....	25	2 50
<i>ligustrina</i> (Privet Andromeda).....	50	5 00	<b>Ceanothus</b>		
<b>Aralia cordata</b> (Udo Salad).....	45	4 50	<i>americanus</i> (New Jersey Tea).....	20	2 00
<i>Sieboldii</i> (Chinese Angelica Tree).....	45	4 50	<i>integerrimus</i> (Beauty of the Sierras)...	25	2 50
<i>spinosa</i> (Virginia Angelica Tree).....	20	2 00	<i>thyrsiflorus</i> (California Lilac).....	30	3 00
<b>Arbutus Menziesii</b> (Madrona Tree).....	30	3 00	<b>Celastrus</b>		
<i>Unedo</i> (Strawberry Bush).....	30	3 00	<i>scandens</i> (Climbing Bittersweet).....	20	2 00
<b>Aristolochia Sippo</b> (Dutchman's Pipe).....	I 00	12 00	<b>Celtis australis</b> (European Nettle Tree) ..	10	I 00
<b>Ash.</b> See <i>Fraxinus</i> .			<i>occidentalis</i> (Am. False Elm).....	15	I 50
<b>Asimina triloba</b> (Paw Paw).....	10	I 00	<b>Celphalanthus occidentalis</b> (Button-bush)	15	I 25
<b>Azalea</b>			<b>Cercidiphyllum japonicum</b> .....	25	2 50
<i>calendulacea</i> (Flame-colored Azalea)...	60	6 00	<b>Cercis</b>		
<i>Vaseyi</i> .....	60	6 00	<i>canadensis</i> (Am. Judas Tree).....	10	I 00
<b>Berberis</b>			<i>occidentalis</i> (California Judas Tree)...	40	4 00
<i>nervosa</i> (Nerve-leaved Barberry).....	60	6 00	<i>Siliquastrum</i> (European Judas Tree)...	10	I 00
<i>Thunbergi.</i> Fine for hedges.....	20	2 00	<b>Chionanthus virginica</b> (Fringe Tree).....	15	I 50
<i>vulgaris</i> (Common). Clean seed.....	15	I 25	<b>Cinnamomum Camphora</b> (Camphor).....	25	2 50
<i>vulgaris purpurea</i> (Purple-leaved).			<b>Citrus trifoliata</b> (Hardy Japan Orange)...	15	I 50
Clean seed.....	25	2 50	<b>Cladrastis lutea</b> (Yellow-wood Tree).....	45	4 50

## DECIDUOUS TREE AND SHRUB SEEDS, continued

	Per oz.	Per lb.		Per oz.	Per lb.
<b>Clematis</b>					
flammula (White Virgin's Bower).....	\$0 25	\$2 50	<b>Genista scoparia</b> (Scotch Broom).....	\$0 10	\$0 60
paniculata (Panicked Virgin's Bower)...	45	4 50	juncea (Fragrant Spanish Broom).....	10	80
vitalba (Traveler's Joy).....	10	1 00	tinctoria (Dyer's Broom).....	20	2 00
viticella (Purple Virgin's Bower).....	15	1 50	<b>Gleditschia horrida</b> (Horrid Thorn).....	15	1 50
virginica (American Virgin's Bower)...	60	6 00	triacanthos (Honey Locust).....		
<b>Clethra alnifolia</b> (Sweet Pepper Bush)...	15	1 50		100 lbs., \$35..	10 45
<b>Colutea</b>			<b>Gymnocladus</b>		
arborescens (Shrubby Bladder Senna)...	10	1 00	canadensis (Kentucky Coffee Tree)....	10	75
<b>Cornus</b>			<b>Halesia tetraptera</b> (Silver Bell).....	15	1 50
canadensis (Dwarf Cornel).....	30	3 00	<b>Hamamelis virginica</b> (Witch Hazel)....	15	1 50
circinata (Round-leaved Dogwood)....	30	3 00	<b>Hedera Helix</b> (English Ivy).....	10	75
florida (Flowering Dogwood).....	10	65	<b>Hibiscus syriacus fl. pl.</b> (Double Rose		
Nuttalli (Nuttall's Dogwood Box)....	25	2 50	of Sharon).....	15	1 25
mascula (Cornelian Cherry).....	10	65	<b>Holly.</b> See <i>Ilex</i> and <i>Mahonia</i> .		
sanguinea (Scarlet Dogwood).....	10	65	<b>Ilex aquifolium</b> (Common Holly).....	10	75
sericea (Silky Cornel).....	15	1 50	opaca (American Holly).....	15	1 25
stolonifera (Osier Dogwood).....	10	1 00	verticillata (Deciduous Holly).....	15	1 25
<b>Coronilla Emerus</b> (Scorpion Senna)....	40	4 00	<b>Indigofera Dosua</b> (Indigo Tree).....	30	3 00
<b>Corylus avellana</b> (German Hazel).....	10	75	<b>Juglans</b>		
americana (American Hazel).....	10	1 00	californica.....	10	65
rostrata (Beaked Hazel).....	10	1 00	cinerea (Butternut).....		
<b>Crataegus</b>			qt., 25 cts.; bus., \$3.50..		
coccinea (Scarlet-fruited Thorn).....	10	75	cordiformis. From Japan.....	10	60
Crus-galli (Cockspur Thorn).....	10	75	mandschurica. From Japan.....	10	65
monogyna.....	10	1 00	nigra (Black Walnut).....		
oxyacantha (Hawthorne).....	10	50	qt., 25 cts.; bus., \$3.50..		
<b>Cytisus alpinus</b> (Scotch Laburnum).....	15	1 50	regia (English Walnut).....	10	60
Laburnum (Laburnum, or Golden			Sieboldii. From Japan.....	10	50
Chain).....	15	1 25	<b>Kalmia latifolia</b> (Mountain Laurel)....	75	
<b>Daphne Mezereum</b> (Mezereon).....	40	4 00	<b>Koeleria</b>		
<b>Deutzia crenata</b> .....	20	2 00	paniculata (Chinese Bladder Nut)....	10	75
scabra (White Deutzia).....	20	2 00	<b>Larix europæa</b> (European Larch).....	30	3 00
<b>Diospyros virginiana</b> (American Per-			<b>Laurus nobilis</b> (Sweet Bay).....	10	65
simmon).....	10	80	<b>Ligustrum</b>		
<b>Dirca palustris</b> (Leather-wood).....	35	3 50	ibota (Chinese Privet).....	20	1 75
<b>Dogwood.</b> See <i>Cornus</i> .			japonicum (Japan or Calif. Privet)....	10	75
<b>Edgeworthia papyrifera</b> (Indian Paper			ovalifolium (Oval-leaved Privet).....	15	1 25
Tree).....	25	2 50	vulgare (Common Privet).....	15	1 25
<b>Elæagnus angustifolia</b> (Narrow-leaved			<b>Liquidambar styraciflua</b> (Sweet Gum)...	35	3 50
Oleaster).....	15	1 25	<b>Liriodendron tulipifera</b> (Tulip Tree)....	10	65
longipes (Long-stalked Oleaster).....	20	2 00	<b>Locust.</b> See <i>Gleditschia</i> and <i>Robinia</i> .		
<b>Eucalyptus</b>			<b>Lonicera tatarica</b> (Tartarian Honey-		
amygdalina (Peppermint Gum).....	40	4 00	suckle).....	30	3 00
gigantea (Stringy-bark Tree).....	45	4 50	<b>Maclura aurantiaca</b> (Osage Orange)....		
globulus (Tasmania Blue Gum).....	55	5 50	25 lbs. and up at 40 cts. per lb....	10	50
Gunni (Cider Tree of Tasmania).....	55	5 50	<b>Magnolia acuminata</b> (Cucumber Tree)...	15	1 50
leucoxylon (Australian Iron Bush)....	45	4 50	glauca (Sweet Bay).....	25	2 50
obliqua (Stringy-bark Tree).....	35	3 50	grandiflora (Large-flowered Magnolia)...	25	2 50
pauciflora (White Gum).....	45	4 50	macrophylla (Great-leaved Magnolia)...	25	2 50
robusta (Brown Gum).....	50	5 00	tripetala (Umbrella Tree).....	15	1 50
rostrata (Red Gum).....	40	4 00	<b>Mahonia aquifolia</b> (European Holly).		
Stuartiana (Apple-scented Gum Tree)..	55	5 50	Berries.....	10	1 00
viminalis (Blue Gum).....	50	5 00	<b>Maple.</b> See <i>Acer</i> .		
<b>Euonymus americana</b> (Strawberry Bush)...	25	2 50	<b>Morus alba</b> (White Mulberry).....	30	3 00
europæus (Spindle Tree).....	15	1 25	alba fructa nigra.....	25	2 50
<b>Fagus</b>			<b>Myrtle.</b> See <i>Morus</i> .		
americana (American Beech).....	10	80	<b>Myrica californica</b> (Calif. Wax Myrtle)...	40	4 00
sylvatica (European Beech).....	10	60	carolinensis.....	15	1 50
sylvatica purpurea (Purple Beech)....	25	2 50	cerifera (Candleberry Myrtle).....	15	1 50
<b>Fraxinus</b>			<b>Nuttallia cerasiformis</b> (Oso Berry Tree)...	50	5 00
excelsior (European Ash).....	10	50	<b>Nyssa sylvatica</b> (multiflora) (Sour Gum)...	10	1 00
excelsior pendula (Weeping Ash).....	10	60	<b>Oreodaphne californica</b> (Calif. Laurel)...	15	1 50
nigra (Black Ash).....	15	1 50	<b>Osage Orange.</b> See <i>Maclura</i> .		
oregona (Oregon Ash).....	30	3 00	<b>Paliurus aculeata</b> (Christ's Thorn)....	10	1 00
Ornus (Flowering Ash).....	10	60	<b>Paulownia imperialis</b> (Empress Tree)....	15	1 25
pubescens (American Red Ash).....	15	1 50	<b>Platanus orientalis</b> (Oriental Plane)....	10	65
viridis (Green Ash).....	10	1 00	occidentalis (Button-ball).....	10	65
<b>Fremontia californica</b> (Slippery Elm of			<b>Plum.</b> See <i>Prunus</i> .		
California).....	10	13 00	<b>Populus tremula</b> (Haps Tree).....	15	1 50
<b>Gaultheria procumbens</b> (Wintergreen)...	30	3 00	<b>Prunus americana</b> (Wild Plum).....	15	1 50
<b>Gaylussacia frondosa</b> (Blue Huckle-			maritima (Beach Plum).....	35	3 50
berry).....	45	4 50	pennsylvanica (Wild Red Cherry)....	25	2 50
resinosa (Black Huckleberry).....	30	3 00			

DECIDUOUS TREE AND SHRUB SEEDS, continued

	Per oz.	Per lb.		Per oz.	Per lb.
<i>Prunus serotina</i> (Wild Black Cherry)...	\$0 10	\$0 60	<i>Spartium scoparia</i> . See <i>Genista</i> .		
<i>virginiana</i> (American Choke-cherry)...	10	1 00	<i>Spiræa</i>		
<i>Ptelea trifoliata</i> (Hop Tree).....	15	1 50	<i>salicifolia</i> (American Meadow Sweet)...	\$0 10	\$0 85
<i>Quercus Catesbæi</i> (Barren Scrub Oak)...		30	<i>tomentosa</i> (Hardhack).....	10	85
<i>Cerris</i> (Turkey Oak).....		45	<i>Staphylea pinnata</i> (Eu. Bladder Nut)....	15	1 25
<i>Michauxii</i> (Basket Oak).....		30	<i>Styrax japonica</i> .....	15	1 50
<i>nigra</i> (Barren Oak).....		30	<i>Syringa vulgaris</i> (Lilac). Clean seed.....	35	3 50
<i>tinctoria</i> (Yellow-barked Oak).....		30	<i>Taxodium distichum</i> (Deciduous Cy-		
<b>Rhamnus</b>			<i>press</i> ).....	15	1 25
<i>Alaternus</i> (Barren Privet).....	15	1 25	<i>Tecoma radicans</i> (Trumpet Creeper) ....	20	2 00
<i>californica</i> (California Coffee Tree)....	30	3 00	<i>Thea chinensis</i> (Chinese Tea).....	10	85
<i>carolina</i> (Indian Cherry).....	10	1 00	<i>Tilia argentea</i> (Silver-leaved Linden)....	15	1 50
<i>carthartica</i> (Buckthorn).....	10	1 00	<i>americana</i> (American Basswood).....	10	75
<i>Purshiana</i> (California Bearberry).....	30	3 00	<i>europæa</i> (European Linden).....	10	1 00
<b>Rhododendron</b>			<i>grandiflora</i> (Large-leaved Linden)....	10	1 00
<i>californicum</i> (Californica Rhododen-			<i>Ulex europæa</i> (Furze, Gorse or Whin)....	20	2 00
<i>dron</i> ).....	I	50	<i>Ulmus campestris</i> (Common Elm).....	10	75
<i>californicum maximum</i> .....	I	50	<i>americana</i> (American White Elm)....	10	1 00
<i>maximum</i> (Great Laurel).....	70		<i>montana</i> (Large-leaved Elm).....	10	1 00
<b>Rhus copallina</b> (Dwarf Sumach).....	10	90	<i>fulva</i> (Slippery Elm).....	25	2 50
<i>cotinus</i> (Smoke Tree).....	30	3 00	<i>Vaccinium arboreum</i> (Sparkleberry)....	20	2 00
<i>glabra</i> (Scarlet Sumach).....	10	50	<i>atrococcum</i> (Black High Blueberry) ...	30	3 00
<i>typhina</i> (Staghorn Sumach).....	15	1 25	<i>corymbosum</i> (Swamp Blueberry).....	30	3 00
<b>Ribes sanguineum</b> (Red-flowered Cur-			<i>pallidum</i> (Pale-flowered Whortle-ber-	30	3 00
<i>rant</i> ).....	40	4 00	<i>pennsylvanicum</i> (Low Early Blueberry)	30	3 00
<b>Robinia pseudacacia</b> (Yellow, or Black			<i>vacillans</i> (Low Blueberry).....	30	3 00
<i>Locust</i> ).....	100 lbs.,	\$55 10	<i>Viburnum acerifolium</i> (Dockmackie)....	15	1 25
<b>Rosa</b>			<i>cassinoides</i> (Appalachian Tea Tree)....	15	1 25
<i>canina</i> (Briar Rose). Clean seed.....	10	80	<i>dentatum</i> (American Arrow-wood)....	10	80
<i>carolina</i> (Swamp Rose).....	15	1 25	<i>lantana</i> (Wayfaring Tree).....	10	85
<i>humilis</i> (Low Rose).....	15	1 25	<i>Lentago</i> (Sheepberry).....	15	1 50
<i>lucida</i> (Dwarf Wild Rose).....	15	1 25	<i>Opulus</i> (Snowball).....	10	85
<i>nitida</i> .....	15	1 25	<i>prunifolium</i> (Black Haw).....	10	85
<i>rubiginosa</i> (Sweetbriar). Clean seed....	10	1 00	<i>Tinus</i> (Laurestinus).....	15	1 25
<i>rugosa</i> <i>Regeliana rubra</i> (Dr. Regel's			<i>Vitex Agnus-castus</i> (Chaste Tree).....	10	1 00
<i>Rose</i> ).....	30	3 00	<b>Walnuts</b> . See <i>Juglans</i> .		
<b>Salisburia adiantifolia</b> (Maidenhair Tree).	10	80	<b>Wistaria</b>		
<b>Sambucus canadensis</b> (American Elder)...	10	90	<i>chinensis</i> (Chinese Wistaria).....	40	4 00
<i>glauca</i> (California Elder).....	15	1 50	<i>chinensis alba</i> (White Chinese Wistaria)	70	7 00
<b>Sassafras officinale</b> (Sassafras Tree).....	15	1 25	<b>Zizyphus sativa</b> (Cultivated Jujube)....	20	2 00
<b>Sophora japonica</b> (Japan Pagoda Tree)...	10	85			

FRUIT SEEDS

	Per oz.	Lb.	100 lbs.		Per oz.	Lb.	100 lbs.
<b>Apple Seed</b> , American.....	\$0 10	\$0 40		<b>Pear Seed</b> . From Japan.....	\$0 40	\$4 00	
<b>Apple, Paradise</b> ( <i>Pyrus para-</i>				<b>Plum Pits</b> , Green Gage.....	40	\$35 00	
<i>disiaca</i> ).....	10	60		<i>Damson</i> . For grafting.....	50	45 00	
<b>Apricot Pits</b> .....	35	\$30 00		<i>Myrobolan</i> .....	70	65 00	
<b>Cherry Pits</b> , Mahaleb.....	60	55 00		<i>St. Julien</i> .....	50	45 00	
<i>Black Mazzard</i> .....	30	25 00		<i>Domestic</i> .....	35	30 00	
<i>Domestic</i> .....	35	30 00		<b>Quince Seed</b> .....	25	2 50	
<b>Currant</b> , Black.....	25	2 50		<b>Raspberry</b> , Red...pkt., 10c... ..	25	2 50	
<i>Red Dutch</i> .....	5c.	20 2 00		<b>Strawberry</b> , Mixed " 10c... ..	75		
<i>White Dutch</i> .....	5c.	20 2 00		<i>Red Alpine</i> .....	I 25		
<b>Gooseberry</b> , Green				<b>Vitis æstivalis</b> (Summer Grape).....	25	2 25	
<i>and Yellow</i> .....	10c.	30		<i>arborea</i> .....	25	2 50	
<i>Large Red</i> .....	10c.	30		<i>cordifolia</i> (Frost Grape)....	25	2 50	
<b>Peach Pits</b> , Natural.....				<i>labrusca</i> (Northern Fox			
<i>qt., 15 cts.; bus., \$2.50</i> ..				<i>Grape</i> ).....	25	2 50	
<b>Pear Seed</b> .....	25	2 50		<i>riparia</i> .....	25	2 50	

SEEDS OF HEDGE PLANTS

For prices, see under head of Tree Seeds

<b>Barberry</b> , Common.....	<i>Berberis vulgaris</i> .	<b>Locust</b> , Honey.....	<i>Gleditschia triacanthos</i> .
<i>Purple-leaved</i> .....	<i>Berberis folio-purpurea</i> .	<i>Yellow</i> .....	<i>Robinia pseudacacia</i> .
<i>Japanese</i> .....	<i>Berberis Thunbergi</i> .	<b>Norway Spruce</b> .....	<i>Picea excelsa</i> .
<b>Broom</b> , Scotch.....	<i>Genista scoparia</i> .	<b>Osage Orange</b> .....	<i>Maclura aurantiaca</i> .
<b>Buckthorn</b> .....	<i>Rhamnus carthartica</i> .	<b>Privet</b> , Japan or Calif.....	<i>Ligustrum japonicum</i> .
<b>Furze</b> , or <b>Gorse</b> .....	<i>Ulex europæa</i> .	<i>Common Evergreen</i> ...	<i>Ligustrum vulgare</i> .
<b>Hawthorn</b> .....	<i>Cratægus oxyacantha</i> .	<b>Sheepberry</b> (Black Haw).	<i>Viburnum prunifolium</i> .

# 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. 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.

**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; for, if not sown until spring, the seeds of many Perennials require several months, and some even as long as two years, before they germinate. In this case, it is a good plan, at the commencement of frost, to cover them 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 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. The seeds of some species of Hardy Perennials often lie in the ground for six or eight months before germinating, so that patience with them is often unexpectedly rewarded.

**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. By this method the difficulty of starting fine seeds will be removed. As soon as the young plants have two leaves, they should be transplanted into similar compost in another pan or box. To do this, do not pull them out of the seed-pan, but break up the soil by running a stick or trowel under it, when the plants can be taken out with good roots. After transplanting, they should be kept in a shady part of the greenhouse for a few days, and watered very sparingly.

There are many minute plants from the finer seeds killed by drenching with water while very young. One way to avoid this is to give it to them by dipping a clothes-brush in water, shaking off the greater part from the brush, and then (holding the brush over the seed-pan) drawing the hand over the bristles several times; this will cause the water to be thrown on the young plants almost like dew. 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.

**Primula Sinensis.**—Sow the seeds in drills in a light, rich soil, in shallow boxes, at any time from the middle of March to the middle of May; the earliest-sown seed will naturally produce the earliest bloom. Cover the seeds 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, and keep the young plants away from drip. The boxes may be placed in the greenhouse or out-of-doors in a frame. As soon as the plants are well out of the seed-leaf, transplant them singly into 2- or 2½-inch pots, using a light, rich soil. The object now is to make good stocky plants, and they must, therefore, be repotted as often as the pots become tolerably filled with roots, until they are in 5- or 6-inch pots, when they may be allowed to flower. Previous to this, any flower-stalks that appear must be pinched out. In a suitable place, the plants will do better out-of-doors during summer. The plants will bloom continuously during the winter in either the greenhouse or a well-lighted room, not too warm; they should not be moved about often.

**Cineraria.**—This is a rather 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, but be free from drip; water moderately and carefully. The treatment of seedlings should be similar to that given to *Primula Sinensis*. As soon as the plants are out of the seed-leaf, transplant singly into small pots, in a rich soil with some vegetable mold in it. Repot as often as the pots become moderately filled with roots, or sufficiently often to prevent the roots from becoming pot-bound. If specimen plants are wanted, the repottings should be continued until the plants are in pots from 8 to 10 inches in diameter. The last two pottings should be liberal ones, and drainage well provided for, as the plants will need copious watering. When the flower-stalks appear, manure-water may be used once or twice a week. Aphid and red spider are to be guarded against; this is best done by frequent syringings or sprinklings overhead. The plants will do best during the summer out-of-doors, in some place where they will not get too much sun, and be free from the drip of trees. In the fall they should be placed in a *cool* greenhouse, where the temperature can be kept low and the air moist.

**Calceolaria.**—The seeds are very small, and should be sown on the surface of shallow 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, cocoanut waste, or very light soil. Press the soil firmly on the seed. The watering should be done carefully; an atomizer or brush is best. To retain the moisture, the box may be covered with panes of glass, which must be removed as soon as the plants appear, however. The box should have plenty of light, but not much sun. As soon as the plants can be handled, transplant singly into pots 2 to 2½ inches in diameter. The soil should be light and rich, and vegetable mold is an excellent addition. Repot as often as the pots are fairly filled with roots, and continue the repotting, if fine flowers are wanted, till the plants are in 8-inch pots. If the plants become root-bound, they are apt to run prematurely into flower. Water regularly and abundantly to prevent drooping. As larger pots are used, drainage must be supplied to carry off the surplus water. Place in a *cool* greenhouse in the winter, and keep the pots apart to prevent the leaves from touching.

**Pansy.**—For spring blooming, the seed should be sown in August, September and October, in a cold-frame with a southern aspect. Plenty of air and light is essential. During mild weather the sashes should be removed; when it is frosty, coverings are preferable to artificial heat. If wanted for winter bloom, sow in July and transplant in beds or benches near the glass in the greenhouse in a low and even temperature. *The more expensive sorts and mixtures produce the largest and finest flowers.*

**Petunias.**—Fill shallow boxes with fine, light soil, say an even mixture of leaf-mold and sand, and wet thoroughly by pouring on boiling water, which kills insects and heats the soil. When the soil has cooled sufficiently, but is still warm, sow the seeds very thinly in the boxes, so that the plants may be 1 inch apart; cover the seeds very slightly with sifted sand, and place slate or glass on top of the boxes. If the white root-points of germination appear before the leaves, sift on more sand, replace the slate, and watch closely. When the small leaves appear, remove slate and give plenty of light, to produce stocky plants. The soil may now need water, which should be applied very gently. Later the larger plants may be transplanted into other boxes or pots. As the weakest plants frequently give the finest blossoms, every plant should be preserved until the blossoms appear. *For the magnificent large flowers the more expensive sorts should be ordered.*

# Selected List of Flower Seeds

OUR COMPLETE LIST OF FLOWER SEEDS BEGINS ON PAGE 113

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.

## ASTER *(Half-hardy Annual)* One of the 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.

### DWARF CHRYSANTHEMUM-FLOWERED.

Grows 10 to 12 inches high; large, chrysanthemum-like flowers.

- 50100 White.....pkt., 10
- 50110 Scarlet..... 10
- 50120 Dark Blue..... 10
- 50124 Light Blue..... 10
- 50130 Carmine..... 10
- 50134 Rose..... 10
- 50140 Mixed..... $\frac{1}{4}$ oz., 75c., oz. \$2.50.. 10

### TRUFFAUT'S PÆONY PERFECTION.

Grows stiffly erect and about 18 inches tall. Remarkable for the brilliant colors of its great, incurved flowers.

- 50180 Amethyst.....pkt., 10
- 50184 Sunbeam. Sulphur-yellow..... 10
- 50190 Snow-White..... 10
- 50194 Apple Blossom..... 10
- 50200 Crimson..... 10
- 50204 Scarlet..... 10
- 50206 Rose..... 10
- 50210 Light Blue..... 10
- 50212 Dark Blue..... 10
- 50214 Blood-Red..... 10
- 50220 Mixed..... $\frac{1}{4}$ oz., 75c., oz. \$2.50.. 10

### DWARF NON PLUS ULTRA. Beautiful class; 6 inches high; fine for borders.

- 50260 White.....pkt., 10
- 50264 Rose..... 10
- 50270 Crimson..... 10
- 50274 Dark Blue..... 10
- 50280 Mixed..... $\frac{1}{4}$ oz. 60c., oz. \$2.. 10

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

- 50320 White.....pkt., 10
- 50324 Rose..... 10
- 50328 Peach Blossom..... 10
- 50330 Light Blue..... 10
- 50334 Dark Blue..... 10
- 50340 Dark Scarlet..... 10
- 50344 Mixed..... $\frac{1}{4}$ oz. 75c., oz. \$2.50.. 10

### VICTORIA, Tall. Large flowers, imbricated petals.

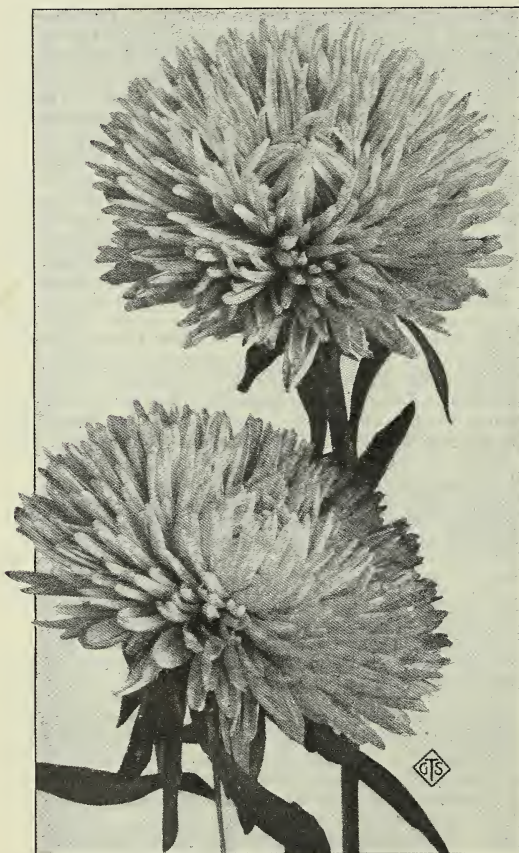
- 50380 White.....pkt., 10
- 50390 Rose..... 10
- 50394 Dark Scarlet..... 10
- 50400 Light Blue..... 10
- 50404 Peach Blossom..... 10
- 50410 Dark Blue..... 10
- 50414 Mixed..... $\frac{1}{4}$ oz. 85c., oz. \$3.. 10

### COMET, Half Dwarf. Petals wavyly reflexed, curled and twisted; form flowers of extraordinary size and beauty.

- 50450 Rose.....pkt., 10
- 50454 Carmine..... 10
- 50458 Brick-Color..... 10
- 50460 Light Blue..... 10
- 50464 Dark Blue..... 10
- 50470 Snow-White..... 10
- 50474 Peach Blossom..... 10
- 50480 Crimson..... 10
- 50484 Mixed..... $\frac{1}{4}$ oz. 75c., oz. \$2.50.. 10

### GOMET, Giant. Very large flowers.

- 50490 White..... 10
- 50494 Rose..... 10
- 50500 Light Blue..... 10



BRANCHING ASTERS (See page 77)



ASTER, continued

Comet, Giant, continued

50504 Dark Blue.....	pkt., 10
50510 Crimson.....	10
50514 Sulphur-Yellow.....	10
50520 Mixed.....	1/4oz. 85c., oz. \$3.. 10

QUEEN OF THE MARKET. The best early Aster; of graceful, spreading habit. Height, 1 1/2 ft.

50560 White.....	pkt., 10
50564 Violet-Red.....	10
50570 Crimson.....	10
50574 Scarlet.....	10
50580 Rose.....	10
50584 Dark Blue.....	10
50590 Light Blue.....	10
50600 Mixed.....	1/4oz. 40c., oz. \$1.25.. 10

BALL, or JEWEL. Flowers long stemmed, quite round; desirable for cutting; dwarf; free flowering.

50640 White.....	pkt., 10
50644 Apple Blossom.....	10
50650 Crimson.....	10
50654 Dark Blue.....	10
50660 Light Blue.....	10
50664 Mixed.....	1/4oz. 85c., oz. \$3.. 10

BRANCHING. Forms broad bushes, with large, long-petaled flowers, graceful and feathery in effect.

50700 Rose.....	pkt., 10
50704 Crimson.....	10
50706 Indigo-Blue.....	10
50714 White.....	10
50716 Pink.....	10
50720 Dark Blue.....	10
50724 Lavender.....	10
50726 Lilac.....	10
50730 Mixed.....	1/4oz. 45c., oz. \$1.50.. 10

OSTRICH PLUME. Splendid class; fine for cutting.

50810 Brick-Red.....	pkt., 10
50820 Dark Blue.....	10
50830 White.....	10
50840 Rose.....	10
50850 Mixed.....	1/4oz. 60c., oz. \$2.. 10

HOENZOLLERN. Valuable for cutting.

50900 White.....	10
50910 Rose.....	10



GIANT COMET ASTER

Hohenzollern, continued

50920 Azure-Blue.....	pkt., 10
50930 Mixed.....	1/4oz. 75c., oz. \$2.50.. 10

RAY. Fine for cutting.

51010 White; 51020 Rose; 51030 Blue....	each, pkt., 10
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CHRISTMAS TREE. Very fine class.

51040 White.....	pkt., 10
51044 Crimson.....	10
51050 Rose.....	10
51060 Blue.....	10

VARIOUS ASTERS

51100 CREGO, Pure White.....		51170 TRIUMPH. Scarlet.....	pkt., 10
	1/4oz. 50c., oz. \$1.50, pkt. 10	51190 " White.....	10
51110 " Delicate Shell-Pink.....		51200 SNOWBALL. Pure white.....	10
	1/4oz. 50c., oz. \$1.50. 10	51210 VICK'S BRANCHING CARMINE KING.	
Very early; on style of Queen of the Market			1/4oz. 45c., oz. \$1.50.. 10
but with larger flowers.		51214 WALDERSEE. Rose.....	10
51130 MIGNON. Pure white. Similar to	10	51220 Mixed German Quilled.....	oz. 60c... 5
51140 " Dark blue } Victoria. Very	10	51240 Mixed All Sorts.....	" 60c... 10
51150 " Crimson... } floriferous.	10	51230 Mixed Globe-flowered.....	" 60c... 10
51160 LADYASTER (Lady in White). Pure white. 10		51270 Single Annual, Mixed.....	" 30c... 05

Collections of Choice Asters

These collections are put up by the famous German Aster-growers, and they contain only seed saved from the very finest plants. In each collection the colors are separate, the collection of 24 Victoria Prize, for instance, containing one packet each of 24 separate and distinct colors of that class.

51300 24 Victoria Prize.....	\$1 50	51480 6 Pyramidal Dwarf Bouquet.....	\$0 40
51310 18 " " ".....	I 25	51490 6 Comet.....	45
51320 12 " " ".....	90	51494 12 " " ".....	80
51330 6 " " ".....	50	51500 12 Giant Comet.....	I 00
51340 24 Truffaut's Perfection.....	I 25	51510 8 " " ".....	75
51350 18 " " ".....	I 00	51520 6 " " ".....	50
51360 12 " " ".....	75	51540 6 Princess.....	60
51370 6 " " ".....	45	51550 12 Large Rose-flowered.....	75
51380 6 Branching.....	40	51560 6 " " ".....	45
51420 18 Dwarf Chrysanthemum-flowered.....	I 00	51570 6 Dwarf Queen.....	50
51430 12 " " ".....	75	51580 12 Imbricated Pompon.....	75
51440 6 " " ".....	50	51590 6 " " ".....	50
51460 12 Pyramidal Dwarf Bouquet.....	75	51610 6 Ball, or Jewel.....	50
51470 8 " " ".....	50		

## 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. 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.

		1/4oz.	Pkt.
52200	<b>conspicuum.</b> This and the next are tender perennials; sow early; flowers white; 1 ft..		\$0 10
52210	<b>Lasseauxi.</b> Rose-colored clusters; 1 ft.....		10
52220	<b>mexicanum</b> (hA). Blue. Parent stock of the hardy annuals below; 1 1/2 ft.....	\$0	15 5
52230	" <b>album.</b> White; 1 1/2 ft.....	15	5
52240	" <b>Dwarf Blue.</b> 9 in., fine for edgings.....	15	5
52250	" " <b>White.</b> Pretty for contrasts; 9 in.; fine for edgings.....	15	5
52254	" " <b>White, Large-flowered.</b> Splendid.....	20	10
52260	" <b>Imperial Dwarf Blue.</b> Excellent for edgings; 9 in.....	15	5
52270	" " <b>White.</b> Excellent for edgings; 9 in.....	15	5
52280	" <b>Little Dorrit.</b> Azure-blue. Plants 6 inches high, 1 foot across.....	15	5
52284	" " <b>Yellow.</b> Distinct.....	15	5
52290	" <b>Little Blue Star.</b> Bright blue flowers; fine for carpet-bedding; 5 in.....		25
52300	" <b>Swanley Blue.</b> A fine, large-flowered sort; 1 ft.....	15	5
52310	" <b>Blue Perfection.</b> A very fine dwarf; 9 in.; splendid.....	25	10
52320	" <b>Princess Victoria Louise.</b> Dwarf; light blue, white center.....	20	10
52330	" <b>Mixed.</b> All annual varieties.....oz., 25c...		5

## ALYSSUM

For borders, baskets, pots, rockwork and for cutting. In borders, 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-sized basket. Cut back after the first flowers fade and others will come.

		Oz.	Pkt.
52500	<b>maritimum</b> ( <i>Sweet Alyssum</i> ). (hA). Fragrant white flowers all summer.....	\$0 30	\$0 05
52510	" <b>compactum, Little Gem.</b> Grows erect; 6 in.....	1/4oz. 20c...	10



LONG-SPURRED AQUILEGIA

52520	" <b>Thorburn's Bouquet.</b> Very dwarf and compact; for pots 1/4oz. and borders; 3 in. \$0 50	15
52530	" <b>procumbens, White Carpet.</b> Of trailing habit; flowers profusely.....	15 5
52540	<b>saxatile compactum</b> ( <i>Gold Dust</i> ). (hP). Single plants cover a square foot in a year and produce hundreds of yellow flower-heads. Grayish foliage; 1 ft... 15	5
52550	<b>argenteum.</b> Similar to the above, but dwarfer; 6 in..... 20	10

## AQUILEGIA (Columbine)

(Hardy Perennial)

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. caerulea* and *A. chrysantha* do best in partially shaded, well-drained nooks. Few hardy perennials are so easily grown from seed.

52850	<b>californica hybrida.</b> Orange-red and yellow.....pkt., 25
52900	<b>canadensis.</b> Scarlet and yellow; for shade. pkt., 10
52910	<b>caryophylloides fl. pl.</b> Double. Oddly striped with red and white; 1 1/2 ft.... 25
52920	<b>chrysantha.</b> Golden yellow; flowers large, long spurred; 3 ft..... 10

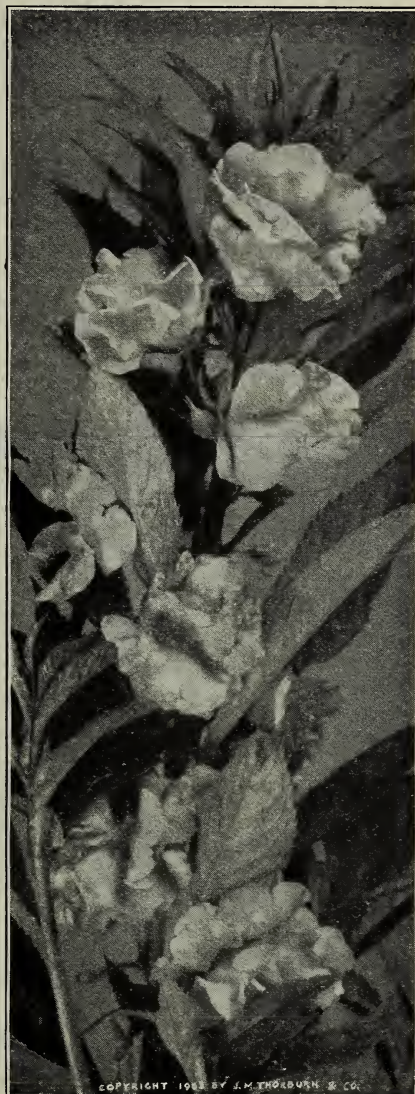
AQUILEGIA, continued

- 52930 *cœrulea* (*Rocky Mountain Blue Columbine*). One of the most beautiful of our native flowers. Sepals deep blue, petals white; 3 ft. pkt., 15
- 52940 " *hybrida*. Large-flowered, long-spurred hybrids. . . . . 15
- 52960 *Jætschui*. Large flowered, yellow; long, red spurs. 10
- 52970 *flabellata nana alba*. White flowers; early; 1 ft. . . . 15
- 52980 *glandulosa vera*. One of the handsomest hardy perennials; stems 2 feet high, with sometimes 50 to 80 blossoms 3 inches in diameter, of the deepest blue, with white corolla; a splendid flower. . . . . 25
- 52990 *truncata*. Dwarf; scarlet and yellow; 1 ft. . . . . 15
- 53000 *Skinneri* (*Mexican Columbine*). Very handsome and quite distinct; spurs and sepals long, crimson and light green; 3 ft. . . . . 25
- 53010 *Long-spurred Hybrids, Mrs. Scott Elliott's Strain*. Magnificent hybrids. . . . . 25
- 53020 *vulgaris, Double White*. Showy and lasting; 2 ft.  $\frac{1}{4}$ oz. 20c. . . 10
- 53030 " " *Mixed*. Best colors. . .oz. 30c. . . 5
- 53040 " *Single Mixed*. Many good sorts. .oz. 30c. . . 5
- 53070 *Collection of Aquilegia, including 12 choice varieties*. 50

**BALSAM** (*Impatiens Balsamina*)  
hhA

A native of India, the garden Balsam loves 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 inches of space each way. For the finest flowers, choice seed is more than usually essential. We offer only the finest *double* sorts.

	$\frac{1}{4}$ oz.	Pkt.
53400 <i>Double White</i> . . . . .	\$0 25	\$0 10
53410 " <i>Peach Blossom</i> . . . . .	25	10
53420 " <i>Carmine</i> . . . . .	25	10
53430 " <i>Lavender</i> . . . . .	25	10
53440 " <i>Rose</i> . . . . .	25	10
53450 " <i>Bright Scarlet</i> . . . . .	25	10
53460 " <i>Red, Spotted White</i> . . . . .	25	10
53480 " <i>Pale Yellow</i> . . . . .	25	10
53490 <i>Camellia-flowered White</i> . Flowers of extra size, double and full centered, with reflexed petals. . . . .	30	10
53500 <i>Camellia-flowered Mixed</i> . Best colors . . . . .	25	10
53510 <i>Finest Double Mixed</i> . . . . .	20	10
Collections of Balsams, including—		
53550 6 varieties Improved Camellia-flowered . . . . .	40	
53560 12 varieties Double Rose-flowered. . . . .	60	
53570 6 " " . . . . .		35



DOUBLE BALSAM

**CALENDULA**

Hardy annuals about a foot high. The seed may be sown in the open ground early in spring, and the plants will bloom early in summer, and continue until late in autumn. The flowers exhibit every shade of yellow from ivory to deep orange, are produced in great profusion, and are strongly effective in beds, borders or backgrounds. The dried flowers are sometimes used for flavoring soups and stews.

	Oz.	Pkt.
54200 <i>officinalis</i> ( <i>Pot Marigold</i> ). Rich orange. . . . .	\$0 20	\$0 05
54210 " <i>fl. pl. grandiflora</i> . Double; large flowered; deep orange. . . . .	25	5
54220 " " <i>sulphurea</i> . Double; light yellow; large flowered. . . . .	25	5
54230 " <i>Nankeen</i> . A rich, soft shade. . . . .	25	5
54240 " <i>Meteor</i> . Creamy center, edged with orange. . . . .	25	5
54250 " <i>Prince of Orange</i> . Glittering orange and yellow. . . . .	25	5
54260 " <i>ranunculoides</i> ( <i>Garden Marigold</i> ). Orange; double flowers. . . . .	25	5
54270 " <i>pluvialis</i> ( <i>Cape Marigold</i> ). White or ivory . . . . .	25	5
54280 " <i>Pongeii fl. pl.</i> Handsome, double, white flowers. . . . .	30	5
54290 <i>Mixed, All Sorts</i> . . . . .	20	5

See also Marigold, pages 93 and 94

## CALLIOPSIS

This 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.

	Oz.	Pkt.
54310 bicolor (tinctoria). Yellow-brown. 2 feet.....	\$0 25	\$0 05
54320 " nana radiata (Ray of Gold). 6 to 8 in. Golden yellow flowers with dark purplish brown centers. Profuse bloomer.....	25	5
54330 " marmorata. Maroon and gold; 1½ ft.....	25	5
54350 hybrida superba. Very showy hybrids in great variety.....	¼oz., 20c...	10
54360 coronata. Yellow; very fine; 1½ ft.....	30	5
54370 cardaminifolia hybrida. Red and yellow; 1½ ft.....	25	5
54380 Drummondii (Golden Wave). Gold and brown; 1 ft.....	25	5
54400 bicolor hybrida fl. pl. Double; mixed; 1 ft.....	25	5
54410 Mixed Annual Sorts.....	20	5
54450 Collection of Calliopsis, including 10 varieties.....		40



CAMPANULA (CANTERBURY BELLS)

## COREOPSIS

- 54560 grandiflora (hP). Large flowers of rich yellow; 2 ft. ¼oz. 25 cts., pkt. 10 cts.
- 54570 lanceolata grandiflora (hP). Large, golden yellow flowers; fine for cutting. ¼oz. 25 cts., pkt. 10 cts.
- 54580 lanceolata, California Sunbeams (hP). Flowers very large, in a great variety of beautiful forms and various shades of yellow and brown; 1 ft. ¼oz. 25 cts., pkt. 10 cts.

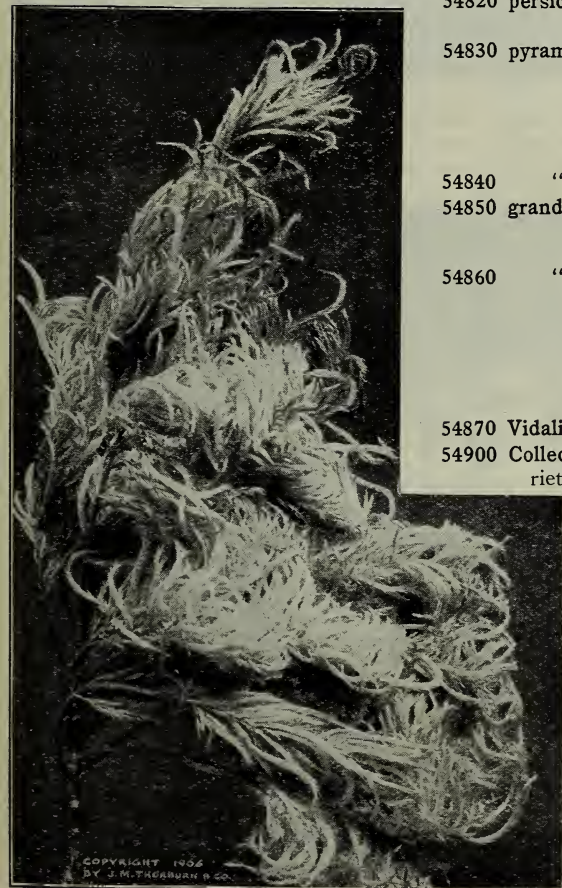
## CAMPANULA

(Canterbury Bells)

These fine old plants are rich in color, profuse in bloom, and of easy culture. For outdoor effects, when planted in quantity, they are glorious, and finest full-bloom specimens of such varieties as *C. calycanthema* can be transplanted to pots for house decoration by soaking the soil about them with water and lifting with a ball of earth. Sow seeds of biennials outdoors early in July and thin or transplant to temporary quarters until October. Transplant, then, 6 or 8 inches apart, in a cold-frame, where they will make large plants by spring. They are as easily cared for as pansies. The old practice of covering Canterbury Bells with leaves through winter is not satisfactory. Transplant in spring, 18 to 20 inches apart, in beds where they are to bloom. In June and July they flower most profusely, and are in fine form a long time. They also make beautiful pot-plants for Easter. If sown early in good soil, the hardy perennials will bloom early the next year. All the varieties like a rich, sandy soil with good drainage.

CAMPANULA, continued

		Oz.	Pkt.
54600	carpatica (hP). Deep blue; 6 in. For rockeries, beds and edgings.....	\$0 40	\$0 10
54610	“ alba. Flowers white; 6 in.....	40	10
54630	Medium Blue ( <i>Canterbury Bells</i> ) (hB). Blooms first year if sown early; 2 ft.....	40	10
54640	“ White. Pretty for contrasts.....	40	10
54650	“ Rose.....	60	10
54660	“ Striped. Very fine.....	50	10
54670	“ Mixed.....	30	5
54680	“ Double Blue. Rich, heavy, curious flowers through summer and fall. 1/4oz. 40c...	1/4oz. 40c...	10
54690	“ Double White. Waxy appearance.....	1/4oz. 40c...	10
54700	“ Double Rose.....	1/4oz. 50c...	15
54710	“ Double Mixed.....	1/4oz. 30c...	10
54720	“ calycanthemum ( <i>Cup and Saucer</i> ) (hB). Blue; symmetrical; often has 35 to 40 flowers open at the same time on a single plant. For pots or borders. 2 ft.....		10
54730	“ “ alba. A white-flowered variety of the above.....		15
54740	“ “ Mixed. Shades of blue and white.....		10
54750	“ Prize Mixture of all colors, Single and Double and Calycanthemums; unequaled.....		15
54760	amabilis (hP). Light blue flowers, nearly 2 inches in diameter, on stems 2 to 3 feet high.....		25
54770	macrostyli. Large, lovely violet flowers; 3 ft. Hardy annual.....		15
54780	Loreyi, Blue. Very pretty hardy annual.....		10
54790	nobilis alba. White; semi-double; 2 1/2 ft. June. Hardy biennial.....		25
54800	persicifolia grandiflora, Blue (hP). Hardy perennials, with superb, large flowers. For finest effects plant the blue and white varieties together; 2 to 4 ft.; June and July.....	1/4oz. 60c...	25
54810	“ “ alba. A white-flowered variety of the above.....	1/4oz. 60c...	25
	54820 persicifolia grandiflora, Fine Mixed.....	1/4oz. 60c...	25
	54830 pyramidalis ( <i>Chimney Bellflower</i> ) (hhP). Spikes 3 to 4 ft. tall, erect, pyramidal; flowers large and of a beautiful blue; blooms in late summer and autumn.....	1/4oz. 25c...	10
	54840 “ alba. White.....	1/4oz. 25c...	10
	54850 grandiflora Mariesii (hP). A fine, dwarf, dark blue variety, growing 1 foot high.....		10
	54860 “ “ macranthum (hP). Dwarf habit; rarely exceeds 3 feet in height; bright blue flowers 3 to 5 inches across; lives eight to ten years.....		10
	54870 Vidali (gP). White; very floriferous. 2 ft.....		15
	54900 Collection of Campanulas, including 12 varieties, choicest perennial sorts.....		65



CELOSIA, OSTRICH FEATHER

CELOSIA PLUMOSA

(1A)

Beautiful foliage plants blooming in late summer and autumn, and producing large, showy plumes, curled and curved, much resembling ostrich feathers. See illustration.

54950 Ostrich Feather, Crimson....pkt., 10

54960 “ “ Orange..... 10

54980 PRIDE OF CASTLE GOULD.

Of upright, compact growth, 2 to 3 feet high, with large, fine-feathered heads in many variations of shades and self-colors; blood-red, carmine, deep scarlet, wine-red, salmon, yellow and orange. Valuable either as a pot-plant or for bedding in sunny situations..... 25

For other Celosia, see page 117, and for Cockscomb (*Celosia cristata*), see page 87

## CANDYTUFT *(Iberis)*

The Candytufts are among our best flowers 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.

	Oz.	Pkt.
55000 <i>affinis</i> , Dwarf (hA). Neat and pretty bedder; 6 in.....	\$0 25	\$0 05
55010 <i>amara</i> (hA). White; 1 ft.....	25	5
55020 <i>coronaria</i> ( <i>Rocket Candytuft</i> ) (hA). Of candelabra form; flowers in upright spikes.....	25	5
55030 " <i>Empress</i> . White. 1 ft.....	25	5
55040 " <i>Little Prince</i> . Very large heads of pure white flowers. Fine for border and pots; 6 in.....	50	10
55050 " <i>Giant Hyacinth-flowered</i> . White.....	40	10
55060 <i>odorata</i> (hA). Small, white, fragrant flowers.....	20	5
55070 <i>umbellata</i> (hA). Purple; 1 ft.....	25	5
55080 " <i>carnea</i> . Flesh-colored; 1 ft.....	50	10
55090 " <i>Dunnetti</i> . Dark crimson; 1 ft.....	25	5
55100 " <i>lilacina</i> . Lilac; 1 ft.....	25	5
55110 " <i>carminea</i> . Bright carmine; 1 ft.....	40	10
55120 " <i>Queen of Italy</i> . Dwarf; erect; fine pink flowers; 6 in.....	40	10
55130 " <i>Dwarf Hybrids</i> . Mixed colors; 6 in.....	50	10
55140 <i>Mixed Annual Sorts</i> .....	20	5
55160 <i>Collection of Candytuft</i> . 6 varieties choicest annual sorts.....		30

**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.

55170 *sempervirens*. White flowers remain fresh nearly a month; 1 ft..... pkt., 15

55180 *gibraltarica*. Beautiful blush-white; 1 ft..... 15

55190 *semperflorens*. A handsome but somewhat delicate evergreen perennial, with large, pure white, sweet-scented flowers. Not suitable for border culture, though hardy enough to stand our winters when grown at the foot of a south wall or in a very sunny corner of the rock-garden... 15



CANDYTUFT



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THORBURN'S MARGARET CARNATIONS

# 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. For masses of bloom, few plants are finer; they are also very suitable for pots. 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.

- 55310 Margaret, Double White. Large, perfect flowers; 1 1/2 ft. ....pkt., 10
- 55320 " " Yellow. A clear, soft shade; 1 1/2 ft. .... 25
- 55330 " " Mixed. 1 1/2 to 2 ft. ....oz. \$1. .... 10
- 55350 Giant Margaret. Extra large and perfect flowering, in a rich variety of colors, including yellow; 80 per cent of the flowers generally come double; 1 ft. .... 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."

- 55380 Chabaud Perpetual Double. Mixed—yellow, red, white, etc.; 1 1/2 ft. Blooms in 6 mos. .... 25
- 55400 Dwarf Perpetual (*Tige de Fer*). Real iron-stem. 1 ft. .... 50
- 55410 Marie Chabaud. Pure canary-yellow; the most beautiful and most fragrant yellow. .... 50
- 55420 Comtesse de Paris. Very dwarf; yellow; comes true from seed. .... 50
- 55430 Jeanne Dionis. Enormous flowers of the purest white and most perfect form. .... 50
- 55440 Sparkling (*Etincelant*). Bright, glittering red of surpassing richness. .... 50
- 55450 Giant Perpetual White. Very large, perfectly double; flowers in seven months after sowing. .... 50
- 55460 " " Yellow. Eighty per cent comes true to color; creamy to golden yellow. .... 50
- 55480 " " Fine Mixed. Enormous flowers, perfectly double; splendid colors. .... 50



CENTAUREA CYANUS

**HARDY ANNUALS.** Flower finest in full sun and thin soil.

55840	<i>Americana</i> .	Large, lilac-purple flowers; bushy plants; very fine.		10
55850	<i>imperialis</i> , White.	} Very large { } flowered; { } hardy. {	25	10
55860	" Lilac.		25	10
55880	" Mixed.		25	10
55890	<i>odorata</i> , Chameleon.	Yellow and rose; fragrant; superb.		10
55900	" <i>Margaritæ</i> .	Pure white; 2½ inches across; lacinated and scented; forms stocky, well-budded little bushes. 1½ ft.	1/4oz. 30c.	Oz. 10
55910	<i>moschata atropurpurea</i>	( <i>Purple Sweet Sultan</i> ).	\$0 30	5
55920	"	<i>alba</i> ( <i>White Sweet Sultan</i> ).	40	5
55930	"	Mixed. ( <i>Mixed Sweet Sultan</i> ).	30	5
55940	<i>suaveolens</i> ( <i>Yellow Sweet Sultan</i> ).	Fine	40	5
55950	<i>Cyanus</i> ( <i>Cornflower</i> ).	Blue.	25	5
55960	"	<i>Emperor William</i> . Blue; 1½ ft.	25	5
55970	"	<i>Rose</i> . Distinct shade; 1½ ft.	25	5
55980	"	<i>Victoria, Dwarf Compact</i> . 9 in.; for pots and edgings; azure-blue.	40	10
55990	"	<i>Pure White</i> . Very fine.	30	5
56000	"	Mixed.	25	5
56010	"	Double Mixed.	30	5
56020	"	Mixed Dwarf Hybrids. Fine.	50	10
56060	Collection of 6 varieties of <i>C. Cyanus</i> ( <i>Cornflower</i> ).			25

CARNATIONS, continued

**BORDER CARNATIONS, ETC.** We invite attention to the splendid collection below:

55510	<i>Red Grenadine, Double</i> .	Brilliant scarlet; 2 ft.	pkt., 25
55520	<i>Enfant de Nice</i> ( <i>Improved Giant-flowered</i> ).	All colors. Flowers in six months from seed.	25
55530	<i>Early Dwarf Vienna, Double Mixed</i> .	Fine for garden culture and for cutting; 1 ft.	15
55540	<i>Early Dwarf Vienna, Double White</i> .	Very fine; always comes true white.	15
55544	<i>Fine Double Mixed Variegated</i> .	Splendid mixture.	15
55546	<i>Fine Double Mixed</i> .	Self-colored.	15
55550	<i>Fine Double Mixed</i> .	Many colors. 2 ft.	10
55560	<i>Double Mixed</i> .	oz. \$1	5

Choice Collections of Carnations

55620	50 varieties.	\$3 00
55630	25 varieties.	1 50
55640	18 varieties.	1 25
55650	12 varieties.	85
55660	6 varieties.	60

CENTAUREA

*C. Cyanus*, the popular Cornflower, is also known as "Blue Bottle," "Ragged Sailor," "Kaiser-blume," and, sometimes, as "Bachelor's Button." These are bright-flowered plants of the hardiest nature and simplest culture, yet among the most attractive and graceful of all the old-fashioned flowers.

**PERENNIAL FLOWERING.** A dry, sandy soil of moderate fertility seems to suit them best.

55800	<i>macrocephala</i> .	Flower-heads large, showy, ¼oz.	Pkt.
		bright yellow; 3 ft.	\$0 25 \$0 10

**PERENNIAL SILVER-LEAVED.**

These are used for borders or edgings, and thrive anywhere. Flowers white, leaves grayish; height 1 ft.; half-hardy. ¼oz.

55810	<i>candidissima</i> .	\$0 30	10
55820	<i>Clementei</i> .	25	10
55830	<i>gymnocarpa</i> .	25	10



# 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 afterwards transplanting to the garden; or seed may be sown where the plants are to flower, if the seedlings are thinned to 8 or 10 inches apart. A little pinching back in early growth makes the plants bushy and shapely. All are fine for cut-flowers. Average height, 1 to 1½ ft. For the magnificent large-flowered sorts, the more expensive packets should be ordered.

	Oz.	Pkt.
56200 coronarium, Double White.....	\$0 30	\$0 05
56210 " " Yellow. The flowers are perfect bosses of gold.....	30	5
56220 " " sulphureum. Pale yellow.....	30	5
56230 " " imbricatum, Yellow.....	¼oz. 20c...	10
56240 " " Mixed. Yellow, white, etc.....	25	5
56250 tricolor, White. Tricolor sorts have beautiful rings and eyes of color.....	30	5
56260 " Yellow.....	30	5
56270 " Scarlet. Dark and rich.....	30	5
56280 " Golden Feather. Foliage rich yellow; flowers bright red and white.....	30	5
56290 " Eclipse. Yellow, with velvety brown band.....	¼oz. 20c...	10
56300 " Burridgeanum. Crimson-maroon, with white edge and inner circle.....	30	5
56310 " Northern Star. Giant white flowers, with black centers.....		10
56320 " Mixed, Single. All colors.....	30	5
56330 " Double Golden (Dunnetti). Fine.....	¼oz. 25c...	10
56340 " " White (Dunnetti).....	¼oz. 25c...	10
56350 " " hybridum, Mixed (Dunnetti).....	¼oz. 25c...	10
56360 " " Golden-leaved Sorts. A mixture of beautiful yellow-leaved sorts; flowers of various bright, vivid colors.....	¼oz. 25c...	10

56370 " Single and Double Mixed.oz.30c., pkt.	5
56380 " Double Mixed.....	10
56384 " " Dwarf Mixed...¼oz. 25c...	10
56390 multicaule. An exceptionally fine little bedder; flowers yellow; 3 in.....	5
56400 segetum, Morning Star. Large, yellow flowers; excellent for cutting. oz. 25c...	5
56410 " Helios, Evening Star. Fine for cutting; pure golden yellow flowers of gigantic size.....oz. 25c...	5
56420 inodorum, Double. Pretty white flowers, fine for cutting; 1 ft.....	10
56440 frutescens (Paris Daisy, or Marguerite) (hP). Beautiful for cutting and pot culture; long-stemmed, single, white flowers, with golden centers.....¼oz. 20c...	10
56450 leucanthemum (Shasta Daisy).....	10
56480 Collections, including 12 varieties Chrysanthemum tricolor, Annual.....	45
56490 Collections, including 6 varieties Chrysanthemum tricolor, Annual.....	25

**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 feet.

56550 indicum, Double. Will produce superb flowers of different types and colors. .pkt., 25	
56560 " Pompon. The pretty hardy dwarfs, with bright, clustered flowers; 1½ ft. 25	
56570 japonicum fl. pl. From Finest Flowers. Double. An extra-choice mixture.....	25



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ANNUAL CHRYSANTHEMUMS



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EXTRA-EARLY FLOWERING COSMOS

## CLARKIA

One of the prettiest and showiest of hardy annuals. The plants bloom so freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight. They are useful, too, for hanging baskets, for vases and as edging plants. Sow outdoors in early spring and grow in partial shade. They bloom through midsummer to late autumn. Average height, 1½ ft.

elegans—			pulchella—				
	¼oz.	Pkt.		Oz.	Pkt.		
56800	rosea. Rose.....	\$0 15	\$0 05	56860	rosea. Rose.....	\$0 25	\$0 05
56810	“ Double. Rose.....	20	10	56870	alba. White.....	25	5
56820	alba, Double. White.....	20	10	56880	marginata. White-edged.....	25	5
56830	Single Mixed.....	15	5	56890	White Tom Thumb.....	25	5
56840	Double Mixed.....	15	5	56900	Single Mixed.....	25	5
56850	Double and Single Mixed.....	15	5	56920	Double and Single Mixed.....	30	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. From seed started early in the house or frame, the plants will flower profusely in late June or early July. If topped when half grown, they will bloom quicker, the check seeming to induce earlier flowering. 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.*

**57680 EXTRA-EARLY FLOWERING, MIXED.** Earliest of all. This new strain will produce Oz. Pkt.  
flowers in July from seed sown in the open ground in May. Grows 4 ft. tall.....\$0 60 \$0 15

SEE GENERAL LIST OF FLOWER SEEDS ON PAGES 113 TO 133

COSMOS, continued

	Oz.	Pkt.
57700 Lady Lenox. Lovely, large, shell-pink flowers of great substance.....	\$0 40	\$0 10
57742 Mammoth Perfection, Conchita. Crimson.....	40	10
57744 " " Erlinda. White.....	40	10
57746 " " Rosita. Pink.....	40	10
57748 " " Mixed.....	30	10
57750 Klondyke. Orange-colored.....	1/4oz. 35c.	15
57760 Tints of Dawn. Handsome white flowers, slightly tinged with rose.....	75	10
57770 Marguerite. Petals deeply and irregularly fringed; in various bright colors.....	75	10
57780 Striped. Charming and distinct; large white centers, and petals deeply striped white... 75	75	10

COCKSCOMB (*Celosia cristata*. hA)

We prize and plant the Cockscomb as an odd and picturesque decorative feature of the garden. The bright red and crimson varieties are most effective, both in gardens and in winter bouquets, for which they are cut before fully ripe and dried in the house. The dwarf varieties make novel and attractive borders; the tall ones form striking groups. Transplanting into rich soil about the time the combs begin to form makes the flower-heads much larger. They are bright from midsummer until frost.

57820 All Aglow. Large, fiery scarlet combs; quite dwarf.....	pkt.,	10
57850 Glasgow Prize. Dark leaves and crimson combs; 1 ft.....		10
57860 Dwarf Bright Red. A miniature plant, with enormous combs of intense bright red.....		10
57870 " Dark Yellow. Yellow combs.....	pkt.,	10
57874 " Light Yellow.....		10
57880 " White. White combs.....		10
57890 " Crimson.....		10
57900 Mixed. Extra-large combs.....		10

For *Celosia plumosa*, see page 81, and for other sorts, see page 117

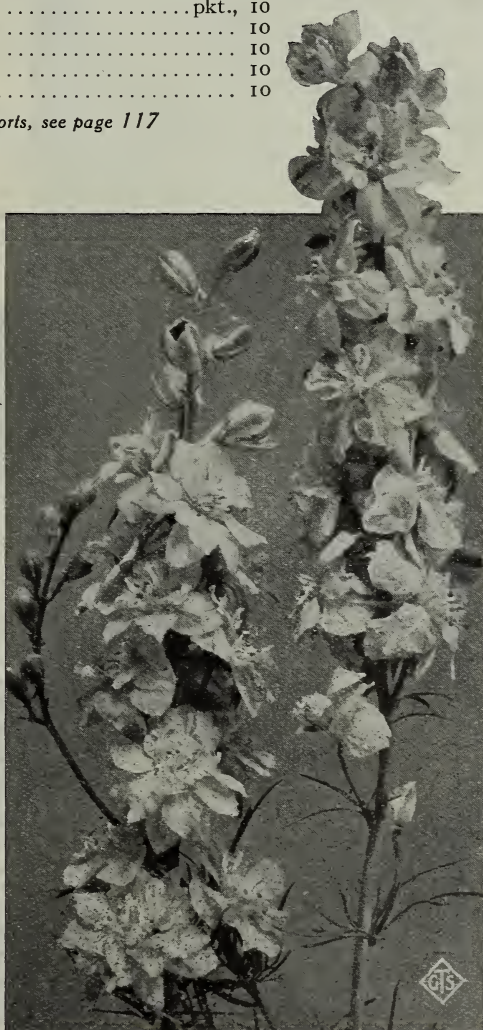
DAISY (*Bellis perennis*, etc. hP)

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.

	1/4oz.	Pkt.
58400 Double White (Snowball).....	\$0 65	\$0 10
58410 " Red.....	65	10
58420 " Rose (Longfellow).....	65	10
58440 " Mixed. Very fine.....	65	10
58444 " maxima alba. Extra large.		
White.....		15
58448 " " rubra. Extra large.		
Red.....		15
58450 " " Mixed. Extra large.	75	15
58480 Shasta Daisy. Very large; white, single flowers on long stems.....	50	10
58490 Single Paris Daisy ( <i>Chrysanthemum frutescens</i> ).....	20	10

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. Ordinarily, the tall sorts are planted among shrubbery, or as a background for dwarfs, which are favorites for bedding. Improvements are continually being made in the size of the flowers, as well as in the length and fullness 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. They are sometimes increased by division, but are much more robust when



THORBURN EMPEROR BRANCHING DELPHINIUM



# ESCHSCHOLTZIA

(Commonly called California Poppy)

The state flower of California. An annual, 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.

- 59350 **THORBURNI.** Coppery orange; very large flowers; finest of all . . . . . 1/4oz. 40c. . . . . pkt., 10
- 59360 **californica.** Rich yellow . . . . . oz. 25c. . . . . 5
- 59370 " **alba.** Creamy white. oz. 30c. . . . . 5
- 59372 " " **fl. pl.** Fine sort, with double, creamy white flowers. . . . . oz. 40c. . . . . 10
- 59374 " **Burbank's Crimson-flowering.** Crimson. . . . . 1/4oz. 25c. . . . . 10
- 59380 " **Carmine King.** Carmine-rose; beautiful. . . . . 1/4oz. 25c. . . . . 10
- 59384 " **Rose-Cardinal.** Carmine-rose. 1/4oz. 20c. . . . . 10
- 59400 **crocea.** Pure, deep orange. . . . . oz. 25c. . . . . 5
- 59410 " **Double Orange.** . . . . . oz. 35c. . . . . 5
- 59424 **aurantiaca fl. pl.** Double; orange. . . . . oz. 35c. . . . . 5
- 59430 " **Single Orange.** . . . . . oz. 25c. . . . . 5
- 59444 **maritima.** Canary-yellow, with orange center; leaves grayish. . . . . oz. 30c. . . . . 5
- 59450 " **Golden West.** A superb variety with very large flowers of deep yellow; 2 ft. . . . . oz. 40c. . . . . 5
- 59460 **Douglasii.** Very pretty yellow variety from California. . . . . 5
- 59470 **tenuifolia.** Bright yellow; leaves dense and finely cut; 1 ft. . . . . 10
- 59490 **Mandarin.** Red-gold flowers, orange within and scarlet without. . . . . oz. 30c. . . . . 10
- 59500 **Mixed.** Many sorts. . . . . oz. 20c. . . . . 5



FOXGLOVE, GLOXINIA-FLOWERED (See p. 90)

# FORGET-ME-NOT (*Myosotis*. HP)

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 ins.

- |   | 1/4oz. | Pkt.   |
|---|--------|--------|
| 59700 <b>Myosotis alpestris.</b> A pretty trailer, with blue flowers. . . . .   | \$0 20 | \$0 10 |
| 59710 " " <b>Indigo-Blue.</b> Like the above, but with indigo-blue flowers. . . . .   | 30     | 10     |
| 59720 " " <b>rosea.</b> Rosy flowers; pretty contrast with blues and whites. . . . .  | 25     | 10     |
| 59730 " " <b>alba.</b> White; pretty. . . . .   | 25     | 10     |
| 59740 " " <b>elegantissima.</b> Blue; leaves white-edged; very attractive. . . . .  | 35     | 10     |
| 59744 " " <b>elegantissima cœrulea fl. pl.</b> See <i>Novelties</i> . . . . .   |        | 25     |
| 59750 " " <b>nana cœrulea.</b> Very dwarf; compact; sky-blue. . . . .   |        | 15     |
| 59760 " " <b>robusta grandiflora (Eliza Fonrobert).</b> Grown extensively for cutting. Large, sky-blue florets with yellow eye, in large clusters. . . . .  | 25     | 10     |
| 59770 " " <b>Victoria.</b> Strong growing; dwarf habit; flowers large, globular, sky-blue, abundant; fine for pots and for cutting. . . . .   |        | 15     |
| 59780 " " <b>Mixed.</b> . . . . .   | 20     | 10     |
| 59790 <b>hybridus, Star of Love.</b> A distinct dwarf variety, with large, beautiful blue flowers. . . . .  | 90     | 25     |
| 59794 " <b>Ruth Fischer.</b> 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. . . . . |        | 25     |
| 59800 <b>azorica.</b> Dark blue, with white eye; 1 ft. . . . .  |        | 25     |
| 59810 " <b>cœlestina.</b> Beautiful light blue; 1 ft. . . . .   |        | 25     |
| 59820 <b>dissitiflora.</b> Blooms very early; flowers blue. . . . .   |        | 25     |
| 59830 <b>palustris (True Forget-me-not).</b> Blooms the second year abundantly all season. . . . .  |        | 10     |
| 59834 " <b>semperflorens.</b> Dwarf; blooming from spring until autumn. . . . .   |        | 25     |
| 59840 <b>sylvatica.</b> Blue, with yellow eye; likes dry soil; 1 to 2 ft. . . . .   |        | 10     |



GAILLARDIA GRANDIFLORA MAXIMA

### FOXGLOVE (*Digitalis*)

The tall flower-spikes of the Foxgloves, often 2 to 3 feet long, are particularly handsome when grown among shrubbery, or in bold masses. Used as a background for lower plants, they are very fine. Seed may be sown outdoors in spring and the seedlings transplanted where they are to grow, or, preferably, to a coldframe, where they make extra-strong plants that will flower in magnificent spikes the next season. They are most satisfactory when treated as biennials, sowing the seed every year in rich, deep soil and partial shade. Average height, 2 to 3 feet. When the center spike begins to fade, it should be cut out and the side shoots will grow more vigorously.

- 60000 *purpurea*, Purple. Best known..oz. 25c., pkt. 5
- 60010 " White. Fine and attractive..... oz. 30c... 5
- 60030 " Rose.....oz. 50c... 10
- 60040 " Mixed.....oz. 25c... 5
- 60050 *gloxinioides*, White. Very handsome, gloxinia-like flowers; robust; beautiful for cutting..... 10
- 60060 " Purple..... 10
- 60070 " Rose. Bright and showy..... 10
- 60080 " Mixed. All the choice colors. oz. 40c... 10
- 60090 *maculata superba*. Splendid spotted strain. 1/4oz. 20c... 10
- 60094 *grandiflora*, Yellow. Large flowered; long racemes of bell-shaped blossoms; dwarf... 10
- 60100 *monstrosa*, Splendid Mixed. Very large, bell-shaped flowers of exquisite beauty, borne on long spikes; 4 ft. .... 10
- 60140 Collection including 12 varieties of Foxglove.. 45

### GAILLARDIA

(*Blanket Flower*)

Showy and free bloomers, flowering profusely all summer. They are good bedders; fine for bouquets and for house decoration. They do best in a good, light soil and in an open, sunny situation.

- 60250 *amblyodon* (hA). Fine red.....pkt., 5
- 60260 *grandiflora maxima* (hP). Golden yellow. Flowers first season if sown early; 2 1/2 ft.. 1/4oz. 25c... 10
- 60264 " *oculata*. New light shades with red centers; very fine, large-flowering hybrids..... 10
- 60280 " Extra-Fine Mixed (hP).....oz. 40c... 10
- 60284 " *semi-plena* Mixed (hP). Superb; very large-flowering, semi-double varieties ..... 15
- 60290 *picta* (hA). Red and yellow.....oz. 25c... 5
- 60300 " *Lorenziana*. Double mixed.....oz. 30c... 5
- 60310 " *Salmonea*. Salmon-red; fine.....oz. 25c... 5
- 60320 " Mixed.....oz. 25c... 5
- 60350 Collection, including best 6 annual varieties..... 25

### GODETIA

Choice, free-blooming annuals, with widely opened flowers of satiny texture, and of the most delicate and lovely colors. They are beautiful for solid beds, border lines, for 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 1/2 ft.

- 60780 CRIMSON GLOW. New. Intense, dazzling crimson; fine, compact grower; very floriferous. pkt., 15
- 60800 Rosamund. Large; glossy pink..... 10
- 60810 Princess of Wales. Brilliant carmine..... 5
- 60820 Lady Satin Rose. (*G. Whitneyi compacta, Brilliant*). Bright carmine..... 5
- 60830 Fairy Queen. Large, white flowers, with carmine spots..... 10
- 60840 *gloriosa* (Lord Roberts). Darkest red; dwarf..... 10
- 60850 *grandiflora maculata*. Great, white flowers, blotched with carmine ..... 5
- 60854 *rubicunda splendens*. Brilliant red; fine..... 5
- 60860 White Pearl. Beautiful glossy white..... 5
- 60870 The Bride. White and crimson..... 5
- 60880 Duchess of Albany. Satiny white..... 10

GODETIA, continued

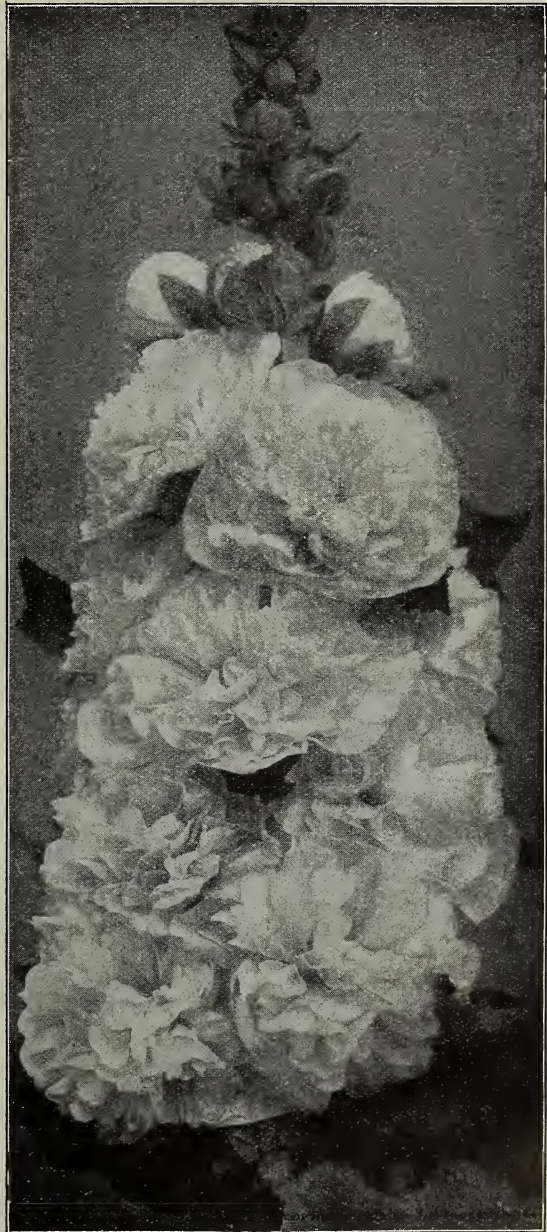
60890 Lady Albemarle. Dark crimson.....	pkt.,	10
60900 " " compacta (General Gordon). Dark crimson; dwarf.....		10
60910 Lindleyana. White and red.....		5
60920 Bijou. Of dwarf, bushy habit; lovely blush-white.....		5
60930 Whitneyi. Superb, rosy flowers, blotched crimson; elegant pot-plant.....		5
60940 " Brilliant. Carmine; very showy.....		5
60950 Mixed, Tall Varieties.....	oz. 30c...	5
60960 " Dwarf Varieties.....	oz. 40c...	5
60990 Collection of Godetias, including 6 choice varieties.....		25

DOUBLE HOLLYHOCKS

(*Althæa rosea*)

These stately, old-fashioned perennials are most striking when seen in groups or long rows against evergreen hedges, shrubbery, etc., and, in their turn, form a very fine background for plants of lower growth. Their color variety is wonderful, ranging from pure white through almost every conceivable shade of yellow, red and rose to ashen gray and almost black. Although Hollyhocks are very permanent and hardy for the first winter, it is advisable to sow seed every year, 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. Average height, 4 feet. Our seed is of magnificent, double varieties, grown from Chater's celebrated collection, which has revolutionized the popular estimation of the Hollyhock.

	1/4oz.	Pkt.
61850 Apricot.....	\$0 60	\$0 10
61860 Bright Pink.....	60	10
61880 Bright Rose.....	60	10
61900 Cherry.....	60	10
61910 Canary-Yellow.....	60	10
61918 Chamois-Rose.....	60	10
61924 Cinnamon.....	60	10
61930 Sulphur-Yellow.....	60	10
61940 Lilac.....	60	10
61960 Light Rose.....	60	10
61980 Maroon.....	60	10
61990 Salmon.....	60	10
62000 Bright Scarlet.....	60	10
62010 Snow-White.....	60	10
62014 White and Sulphur.....	60	10
62018 White, Brown center.....	60	10
62020 Mixed Allegheny Fringed....	50	10
62030 Hybrid Annual Everblooming Double and Semi-double Mixed. Flowers the first season from seed.....	50	10
62034 rosea nigra, Single-flowered. Color almost black. oz. 30c..		5
62040 Mixed Double.....	50	10
62050 " Single..... oz. 50c...		5
Choice Collections, including—		
62090 12 varieties Double Holly- hocks, Chater's Superb....		80
62100 8 varieties Double Holly- hocks, Chater's Superb....		60
62110 6 varieties Double Holly- hocks, Chater's Superb....		45



DOUBLE HOLLYHOCKS

# IPOMOEA

(Moonflower. Morning-Glory. Cypress Vine)

Of all our climbers for garden and greenhouse these are the quickest 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, horny 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 in June and July, and are full of beautiful flowers all the season, often blooming freely until cut down by frost.

- 62350 *coccinea*. Scarlet flowers; 10 ft.....oz. 25c., pkt., 5
  - 62360 " *lutea*. A yellow-flowered variety.....oz. 25c... 5
  - Imperial Japanese. See Japanese Morning-Glory, page 94.
  - 62370 *hederacea grandiflora superba*. Rich sky-blue flowers with white margins; 15 ft.....oz. 25c... 5
  - 62380 " " *fol. marmoratis, Mixed, Variegated*.....oz. 25c... 5
  - 62390 \**Nil grandiflora*. Light blue; 15 ft.....oz. 25c... 5
  - 62400 *limbata*. Violet and white; 5 ft.....oz. 25c... 5
  - 62402 " *hybrid, Mixed*.....oz. 25c... 5
  - 62410 \**mexicana grandiflora alba*. The great white Moonflower; 15 ft..... $\frac{1}{4}$ oz. 25c... 10
  - 62420 " " *hybrida alba*. Flowers very large and numerous; 15 ft..... $\frac{1}{4}$ oz. 25c... 10
  - 62430 \**bona nox* (*Good Night, or Evening-Glory*). Large, blue flowers open in the evening; 15 ft.....oz. 25c... 5
  - 62440 *Heavenly Blue* (*rubro-cœrulea*). The very large, clustered flowers of beautiful sky-blue, open early in the morning. Unusually distinct and handsome; 10 ft. Sow early..... $\frac{1}{4}$ oz. 20c... 10
  - 62444 *rubro-cœrulea alba*. White; 8 ft..... $\frac{1}{4}$ oz. 25c... 10
  - 62446 " " *grandiflora*. *Early flowering*. 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 flower from end of June until frost. Flowers remain open all day. 15 to 18 ft..... 15
  - 62450 *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.....oz. 30c... 5
  - 62460 " *White*.....oz. 30c... 5
  - 62470 " *Kerberi*. Fine scarlet flower; blooms late.....oz. 40c... 10
  - 62480 " *Mixed Cypress Vine*.....oz. 30c... 5
  - 62490 *Ivy-leaved Cypress Vine*. Pretty leaves, deeply lobed; fiery orange-scarlet flowers....oz. 40c... 10
  - 62530 *Collection*, including 12 varieties. Annual sorts..... 50
- 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 greenhouse beds, they flower grandly between October and spring.
- 62550 *Horsfalliæ*. A superb West Indian species of vigorous growth. The rich, thick leafage is beautiful; the flowers a deep, glossy rose-purple; 15 ft.....pkt., 25
  - 62560 *Learii*. Quick, strong grower, sometimes succeeding well outdoors. Flowers violet-blue; 15 ft.... 10
  - 62590 *setosa* (*Brazilian Morning-Glory*). This vine makes an immense, thick growth of great, lobed leaves lighted by a profusion of large, rosy flowers, with a satiny pink star in the centers. The red pubescent stems and seed-pods add to its attractiveness. 10 to 20 ft..... 10

## KOCHIA (Summer Cypress)

A splendid ornamental annual, growing 2 to 2½ feet high. The slender-leaved plants are of a cypress-like appearance during summer, changing their light green foliage to carmine and fiery red colorings toward autumn. Forms beautifully decorative bushes on the lawn.

- 62650 *trichophylla*. An improved strain of *K. scoparia*.....oz. 25c...pkt., 5

## LOBELIA

The *Erinus* varieties are charming little plants that bloom very quickly from seed and continue gay with flowers 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)—**

- 62950 *gracilis*. Blue; trailing; beautiful for baskets.....pkt., 5
- 62960 *speciosa*, *Crystal Palace*. A favorite blue-flowered edging plant; 6 in..... 10
- 62970 *alba*. White flowers..... 10
- 62980 *kermesina*. Crimson..... 10



LOBELIA, continued

62990	Lindleyana. Rose; white eye.....	pkt.,	10
63000	Paxtoniana. Blue and white.....		10
63010	Barnard's Perpetual. Deep blue, with white eye; very fine.....		10
63020	Royal Purple. Deep blue, with a distinct white eye.....		10
63030	Mixed (gracilis).....	1/4oz. 20c.	5
63040	erecta, Crystal Palace compacta. Dark blue; for bedding; 6 in.....		20
63050	" Emperor William. Light blue; very fine.....		20
63060	" Golden Queen. Dwarf; blue flowers; yellow leaves; very fine sort.....		25
63070	" White Lady. Splendid large-flowered white.....		10
63100	Collections, including 12 varieties Lobelia.....		60
63110	" " 6 " ".....		35
<b>PERENNIAL or TALL VARIETIES—</b>			
63140	cardinalis (Cardinal Flower). Long spikes of richest cardinal-red.....		10
63150	" (fulgens), Queen Victoria. Brilliant scarlet; dark leaves; striking and beautiful.....		30
63160	ramosa. Blue; flowers profusely in fall; height 1 ft.....		10
63300	tupa (Devil's Tobacco). A splendid perennial plant producing in great abundance curious, beaked, scarlet flowers about 2 1/2 inches long. It resembles in some respects a gigantic <i>L. cardinalis</i> . It grows to a height of 8 to 10 ft.....		10

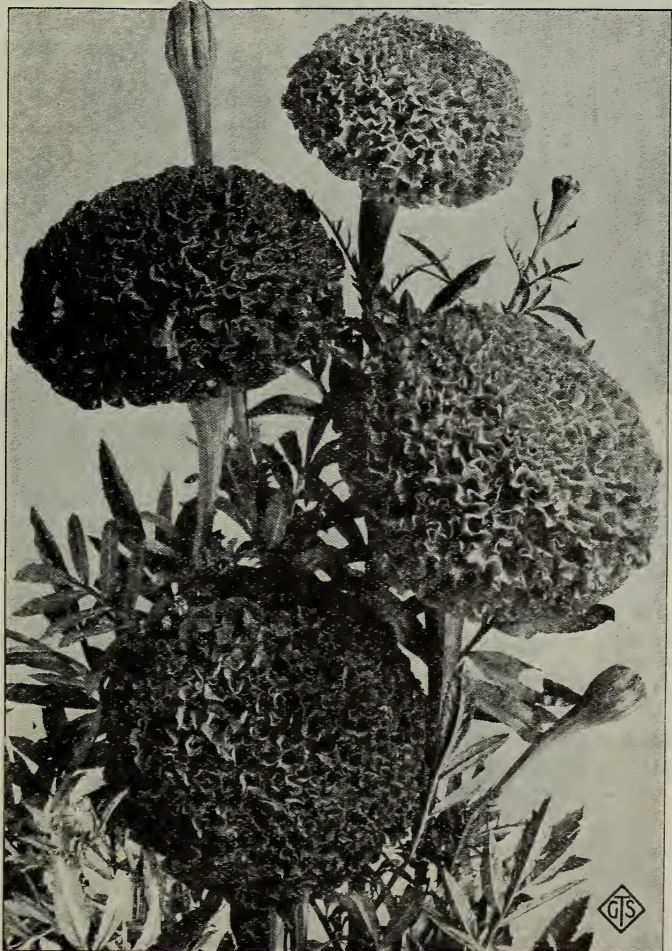
# MARIGOLD

(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 1/2 to 2 ft. All our own special strains, vastly different from the ordinary sorts commonly sold.

**African—**

63500	Orange. Rich orange-color..oz. 40c..pkt.,	5
63510	Eldorado. Large, quilled, perfectly double; brilliant shades of yellow. oz. 30c...	5
63520	Pride of the Garden. Extra-large, double flowers of richest yellow; dwarf and neat. 1/4oz. 20c...	10
63530	Delight of the Garden. Dwarf; large flowered; lemon-yellow; double. oz. 40c...	10
63540	Lemon Queen. Very rich lemon-yellow.... oz. 30c...	5
63550	Prince of Orange. Beautiful orange-color.... oz. 30c...	5
63560	Mixed Double..oz. 30c...	5
63570	French, Tall Dark Brown. Reddish brown; extremely floriferous; 1 ft. oz. 40c...	10
63580	French, Dwarf Striped. Flowers handsomely marked; 1 1/2 ft. oz. 40c..	10
63600	French, Dwarf Dark Brown. Beautiful reddish brown.. oz. 40c...	10
63610	French, Dwarf Legion of Honor (Little Brownie). Single, golden yellow blooms, marked with velvety red.. oz. 40c...	10



PRIDE OF THE GARDEN MARIGOLD



ALLEN'S DEFIANCE MIGNONETTE

MARIGOLD, continued

- 63620 French Tall Mixed, Double.....oz. 30c... pkt., 5
- 63630 " Dwarf Mixed, Double.....oz. 30c... 5
- Collections, including—
- 63670 12 varieties Double French Marigold..... 50
- 63680 6 " " " " ..... 30
- 63690 6 " " African " ..... 35

See also *Calendula*, page 79

MIGNONETTE

(*Reseda odorata*, hA.)

Seed of this popular 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 1, 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.

- |   | Oz.           | Pkt.   |
|---|---------------|--------|
| 63850 <i>Reseda odorata grandiflora</i> . Sweet.....  | \$0 20        | \$0 05 |
| 63860 Crimson Giant ( <i>ameliorata</i> ). Red-flowered...  | 25            | 5      |
| 63870 Golden Queen. Golden yellow.....  | 45            | 10     |
| 63880 Paris Market (Crimson Queen). Crimson....   | 60            | 10     |
| 63890 Machet Dwarf. Deep red.....   | 60            | 10     |
| 63900 Machet, Golden.....   | 65            | 10     |
| 63910 Bismarck. Improved Machet.....  | 70            | 10     |
| 63920 Gabrielle. Large; red; 9 in.....  | 50            | 10     |
| 63930 Goliath. Red; enormous spikes; striking.....  | 1/4oz. 35c... | 15     |
| 63940 Victoria. Compact; brilliant red; 6 in.....   | 50            | 10     |
| 63950 Miles' Spiral. 1 ft.....  | 25            | 5      |
| 63960 Giant Pyramidal. 1 1/2 ft.....  | 40            | 10     |
| 63970 Diamond. Pure white flowers; extra fine....   | 50            | 10     |
| 63980 Allen's Defiance. Spikes of great length; very fragrant and fine for cutting; 1 1/2 ft..... | 80            | 10     |
| 63990 Ruby (Rubin). Very fine strain of the Machet, with coppery scarlet flowers... 1/4oz. 25c... |               | 10     |
| 64000 Parsons' White. White and buff; 9 in.....   | 40            | 10     |
| 64010 White Pearl (Machet). The best white variety .....  | 1/4oz. 35c... | 15     |
| 64040 Collection, including 12 varieties Mignonette .....   |               | 60     |

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 to almost black. Vines vigorous, growing rapidly to a height of 10 or 20 feet, and their foliage is spangled with hundreds of large and lovely flowers.

- 64100 Finest Single Mixed. Large flowered; all colors.....oz. 20c...pkt., 5
- 64110 Fringed Single Mixed. All beautifully fringed.....oz. 30c... 5
- 64120 Double-flowered Mixed. Superb mixture of double sorts.....1/4oz. 30c... 15
- 64130 Giant "Mikado." The largest flowered.....1/4oz. 20c... 10

MRS. JAS. L. STATEN, of North Carolina, writes under date of September 18, 1912: "Have never seen such wonderful Pansies and China Asters as I raised from your seed last year. Have given your name to several friends."

MRS. G. A. SCRIBNER, of Long Island, writes under date of September 9, 1912: "The Flower Seeds I bought from you in the early spring gave me a beautiful garden under the most trying conditions of poor soil, long absences and many other drawbacks, and I am most anxious to get the full benefit of an early start next year."

# NASTURTIUM

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 annual will produce such a lavish profusion of flowers for so long time with the same small outlay of time and labor. The maximum of bloom is produced in 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 Climbing varieties and the celebrated Lobb's, see next page

## DWARF, or TOM THUMB

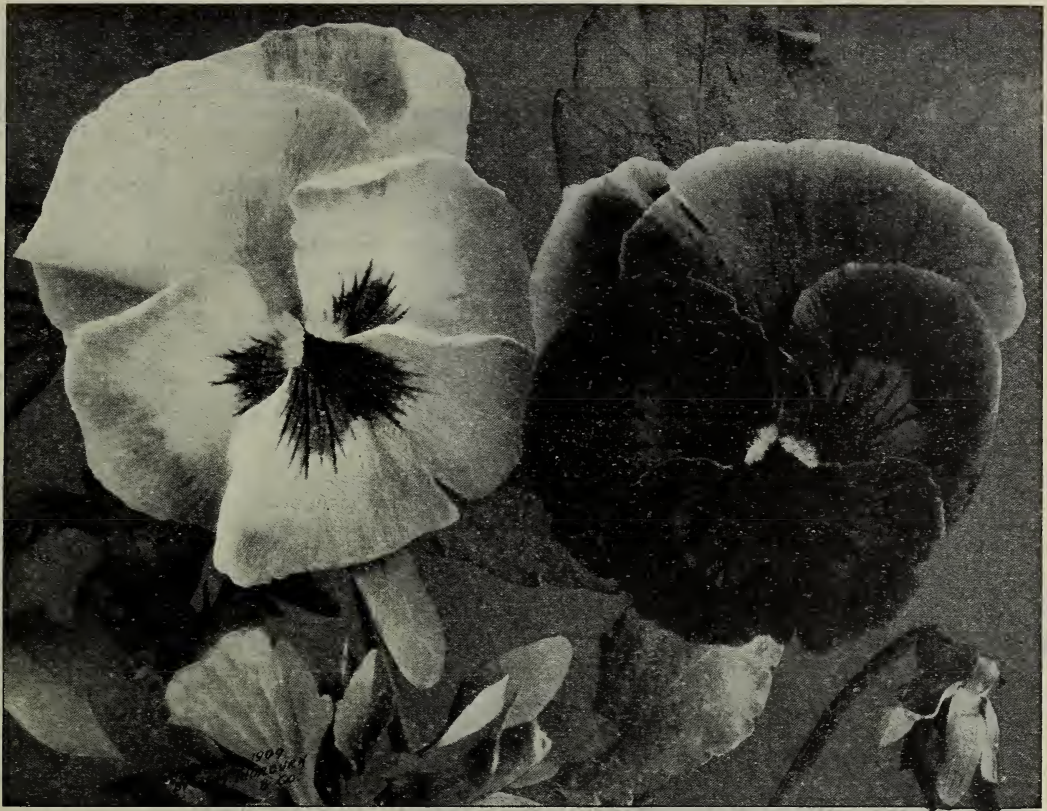
(*Tropaeolum nanum*)

These have a neat, compact habit and attractive foliage, are not disturbed by insects, bloom in two months from sowing, and most profusely the whole season.

- 6460 atrococcineum. Brilliant scarlet; fine...oz. 20c... pkt. 5
- 64610 Aurora (*Terra-cotta*). Fine. oz. 20c... 5
- 64620 Beauty. Yellow and scarlet....oz. 20c... 5
- 64624 Bronze-Color. Distinct. oz. 20c... 5
- 64630 Chameleon. Mottled crimson, bronze and yellow; very fine.... oz. 20c... 5
- 64640 cœruleo-roseum. Bluish rose.....oz. 20c... 5
- 64660 Crystal Palace Gem. Yellow and carmine. oz. 20c... 5
- 64670 Empress of India. Deep crimson; fine, dark foliage..... oz. 20c... 5
- 64680 Golden Cloth. Golden yellow leaves; scarlet flowers..... oz. 20c... 5
- 64690 Golden Dream (*Reve d'Or*). Bright yellow; intense green foliage..oz. 20c... 5
- 64700 Golden King. Golden yellow.....oz. 20c... 5
- 64710 King of Tom Thumbs. Scarlet; fine color..... oz. 20c... 5
- 64720 King Theodore. Black, velvety; darkest of all. oz. 20c... 5
- 64730 Lady Bird (*Spotted King*). Yellow and red.oz. 20c... 5
- 64740 Prince Henry. Light yellow, marbled scarlet.....\$0 20 \$0 05
- 64760 Ruby King. Ruby-red; dark-leaved; fine..... 20 5
- 64780 Spotted..... 20 5
- 64790 Vesuvius. Salmon-rose; fine..... 20 5







THORBURN'S SUPERB PANSIES (Finest in cultivation, see No. 66000)

**PANSY** (*Viola tricolor. Heartsease. hA*)

*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 inches 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. 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. *The higher-priced sorts produce the largest flowers. This should be borne in mind when ordering.*

		Oz.	Pkt.
66000 Thorburn Superb.	The richest and most choicely varied mixture possible. It produces only the finest colors, largest flowers and most beautiful forms..	1/4oz. \$1 50	Oz. \$5 00
66010 Bugnot Superb Blotched.	An exceedingly large, three-blotched strain, with upper petals finely lined; great diversity of finest colors.	1 25	4 00 25
66020 Cassier, Finest Mixed.	Flowers of grand size, beautifully spotted.	1 25	4 00 25
66030 Masterpiece.	Curled, wavy petals; splendid colors; distinct.	50	1 75 15
66040 Madame Perret.	A splendid giant-flowered strain, comprising all shades of red from light rose to dark purple, some of them finely striped.	35	1 25 10
66044 Odier, Cassier and Bugnot, Mixed.	An extremely rich, large-flowered mixture.	1 25	4 00 25
66050 Giant Orchid-flowered Mixed.	A splendid, distinct race showing remarkable combinations of colors, including shades of chamois, terra-cotta, orange, etc.	60	2 00 15
66054 Non Plus Ultra.	A very rich mixture largely made up of Cassier and Trimardeau varieties.	1 25	4 00 25

		PANSY, continued		
		¼oz.	Oz.	Pkt.
66060	Parisienne Mixed. Handsome, large-flowering strain.....	\$0 60	\$2 00	\$0 15
66070	Fine Large English. All colors mixed.....	45	1 50	10
66080	Mixed. Ordinary strain.....	20	1 75	5
66090	Azure-Blue. Very fine color.....	35	1 25	10
66100	Black-Blue. Dark velvety.....	35	1 25	10
66110	Black ( <i>Faust; King of the Blacks</i> ). Almost coal-black.....	35	1 25	10
66120	Bronze. Golden bronze.....	45	1 50	10
66124	Brunot. Beautiful sky-blue. Fine pure shade.....	45	1 50	10
66130	Cardinal. Brilliant red; very fine.....	85	3 00	25
66140	Coquette de Poissy. Distinct mauve, shading to white on the petals.....	35	1 25	10
66150	Dark Purple.....	35	1 25	10
66160	" " Silver-edged. Margins pure white.....	45	1 50	10
66170	Emperor William. Splendid; ultramarine-blue; very showy.....	35	1 25	10
66180	Fairy Queen. Light blue, with white border.....	35	1 25	10
66190	Fawn Color ( <i>Prince Bismarck</i> ). Quaint and pretty.....	35	1 25	10
66200	Fire King. Golden yellow, upper petals purple.....	35	1 25	10
66210	Gold-margined. Splendid bright color.....	45	1 50	10
66220	Golden Queen. Pure yellow.....	45	1 50	10
66230	Light Blue. Lovely sky-blue.....	45	1 50	10
66240	Lord Beaconsfield. Deep purple-violet, shading to light blue.....	35	1 25	10
66250	Meteor. Bright yellow and brown, attractively blotched and margined.....	35	1 25	10
66294	Odier, Five Blotched Improved. Extra-choice strain.....	1 00	3 50	25
66296	Orange ( <i>New</i> ). Very fine.....	60	2 00	15
66300	Peacock. Large, peacock-blue flowers, edged with white.....	35	1 25	10
66310	President Carnot. Pure white petals, each with a deep blotch.....	75	2 50	25
66320	Rainbow, or Pheasant's Eye ( <i>Quadricolor</i> ). Very fine strain.....	45	1 50	10
66330	Red Riding Hood. Brilliant shades of red.....	35	1 25	10
66350	Snow Queen ( <i>candidissima</i> ). Pure satiny white.....	45	1 50	10
66360	Tiger. Curiously striped and mottled.....	45	1 50	10
66380	White, with Black Center. Very showy.....	35	1 25	10
66390	Yellow, with Black Center. Splendid.....	45	1 50	10
66394	Yellow, Maroon Eye. Large flowers of distinct coloring.....	45	1 50	10
66410	Tufted Pansies. A splendid strain; small, but very fragrant flowers.....	45	1 50	10
<b>TRIMARDEAU GIANT.</b> This strain has remarkably large flowers, carried well above their leaves, and generally marked with large blotches; plants are extra vigorous and compact.				
66460	Giant White.....	45	1 50	15
66470	" Pure Yellow ( <i>Golden Crest</i> ).....	45	1 50	15
66480	" Bridesmaid. Most beautiful rosy white ground, with dark center blotches.....	75	2 50	25
66490	" Ruby King. Richest shades of red, scarlet, orange-scarlet and wine-red.....	60	2 00	20
66500	" Lord Beaconsfield. Lavender and purple.....	60	2 00	20
66504	" Prince Henry. Darkest blue; splendid.....	75	2 50	25
66510	" Striped.....	60	2 00	20
66514	" Adonis. Light blue. Splendid.....	75	2 50	25
66520	" Azure-Blue ( <i>Light Blue</i> ). Pure color.....	60	2 00	20
66534	" Fire King. Very showy.....	45	1 50	15
66540	" Hortensia, Red. Splendid.....	60	2 00	20
66550	" Indigo-Blue. Very rich color.....	75	2 50	25
66560	" auriculæflora. Beautiful shades.....	45	1 50	15
66564	" Yellow. Dark center.....	45	1 50	15
66570	" White, with Dark Eye.....	60	2 00	20
66580	" Mixed.....	35	1 25	10

Choice Collections of Pansies, or Heartsease—

66620	24 varieties.....	\$1 25	66650	8 varieties.....	\$0 60
66630	18 ".....	1 00	66660	6 ".....	50
66640	12 ".....	75	66700	10 " ( <i>Pictorial Pkts.</i> ).....	60

## PETUNIA HYBRIDA (hhA)

Once fairly started, the 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 hot-bed, coldframe or in boxes of fine soil in the sunny windows of a warm room in April or May and transplant about 1 foot 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

PETUNIA HYBRIDA, continued

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.

**SINGLE LARGE - FLOWERED.** These have flowers 4 or more inches across. Our strains are superb, and the collections offered contain only the finest varieties. Average height, 1½ ft.

- 66900 White. Clear paper-white flowers of unusual size. . . . . pkt., 25
- 66910 *intus aurea*. Large, yellow-throated crimson flowers. . . . . 25
- 66920 **Crimson Giant "Midnight."** Great flowers of deepest crimson. . . . . 25
- 66930 **Purple King.** Royal in color and size. . . . . 25
- 66940 **Rose.** A charming shade. . . . . 25
- 66950 **Rainbow.** Of richest colors, with yellow-penciled throats. . . . . 50
- 66960 **superbissima.** Grand flowers of various colors with richly tigered throats. . . . . 50
- 66970 **Thorburn Superb Giant.** A strain of surpassing beauty, with extremely large, deep-throated flowers; some exquisitely penciled and elegantly fringed. . . . . 25
- 66980 **Emperor, grandiflora, Mixed.** Very large, wide-open flowers, with distinct colorings and markings. Some of the blossoms have pink stars, some white stars, others are striped. . . . . 25
- 66990 **Superb Single Mixed.** Offers a grand variety of colors. . . . . 25

**FRINGED LARGE-FLOWERING.**

These have deeply cut and fluted margins.—

- 67010 White, "Snow Storm." Finest white. . . . . 25
- 67020 **Crimson.** A very rich color. . . . . 25
- 67040 **Ruffled Giants.** Extra-large flowers, beautifully ruffled, fluted and fringed. . . . . pkt., 50
- 67050 **Thorburn's Century Prize.** An unrivaled strain of fringed, ruffled, giant-flowered sorts in most beautiful colors. Very valuable. . . . . 50
- 67060 **Perfection Mixed.** Choicest fringed sorts. . . . . 25

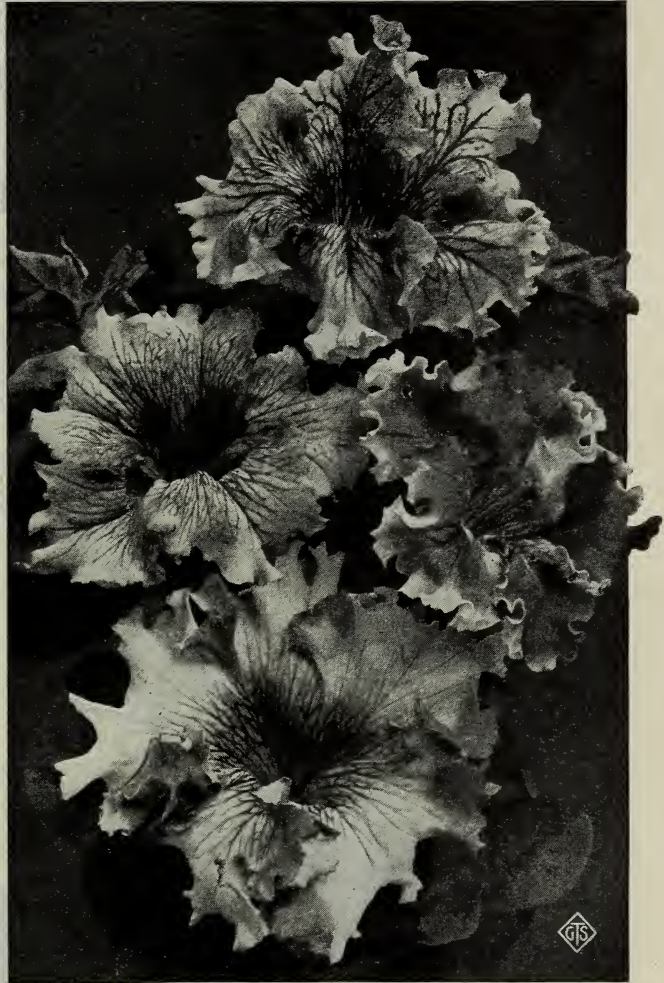
**DOUBLE LARGE-FLOWERING.**

Our seed will produce flowers large, fragrant, elegantly formed and beautiful either for house, garden, or conservatory. The Double Petunias are great favorites for pot culture in ordinary windows. 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.

- 67070 **Double Mixed Large-flowering.** (250 seeds in pkt.) . . . . . pkt., 50
- 67080 " **Fringed Mixed Perfection.** Flowers large and much beruffled. . . . . 75
- 67090 " **Lady of the Lake.** Exquisite flowers of finest size and purest white. . . . . 75
- 67100 " **Heliotrope.** Mauve and heliotrope colorings. . . . . 75
- 67110 " **Snowball.** A grand pure white; extremely double; extra-large flowers. . . . . 75
- 67120 " **Crimson.** Gorgeous colors; extra-large flowers. . . . . 75

**SINGLE BEDDING VARIETIES.**

- 67140 **Countess of Ellesmere.** Dark rose, with fine white throat. . . . . ¼oz. 20c. . . . . 10
- 67150 **Howard's Star.** Rich crimson; distinct white star in center. . . . . ¼oz. 30c. . . . . 10



THORBURN'S RUFFLED GIANT PETUNIAS





PHLOX DRUMMONDII, continued

**DWARF VARIETIES.** Plants of this charming section grow only 6 or 8 inches high, and form dense masses of bloom all summer. They are especially useful for beds, edgings, pots, etc.

- |   |   |
|---|---|
| 67670 Surprise. Brilliant vermilion, with white star center; for groups and edgings. pkt., 15 | 67724 nana compacta hortensifolia. Rose. .pkt., 15  |
| 67680 Snowball. Pure white; fine for pots. . . . . 15   | 67730 Fancy Mixed. . . . . 1/4oz. 40c. . . 10   |
| 67690 Fireball. Bright flame-red; fine for pots. 15   | <b>STAR PHLOX—</b>  |
| 67710 Chamois-Rose. Very fine. . . . . 15   | 67740 cuspidata (Star of Quedlinburg). Star-shaped; many colors. . . . . 1/4oz. 30c. . . 10 |
| 67720 grandiflora nana compacta. Cecily Phlox. Mixed. . . . . 10                              | Collection, including—  |
|   | 67800 12 varieties Phlox Drummondii. . . . . 60   |

**PERENNIAL PHLOX**

These hardy sorts make bushes about 3 feet high and bear large heads of finely colored flowers.

- |   |
|---|
| 67840 decussata, Mixed. . . . . pkt., 10        |
| 67860 Large-flowered Hybrids, Mixed. . . . . 15 |

**PINKS (Dianthus)**

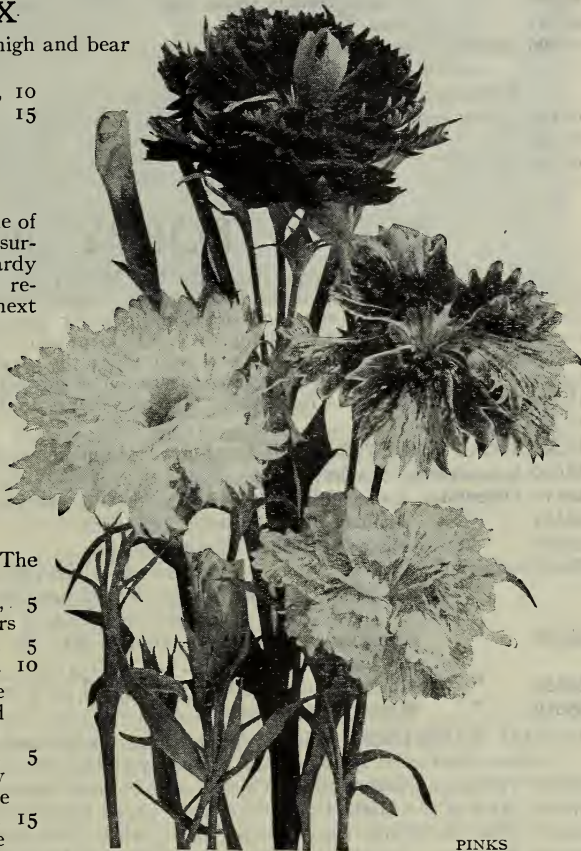
In this large and greatly varied genus are some of our most beautiful and best-loved flowers, unsurpassed for color and fragrance. They are hardy biennials that bloom finely the first season, remaining green all winter and blooming the next year also, if lightly protected. Old plants flower the earliest, 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 inches apart; dwarf ones about 6 inches. If specially 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 foot.

**CHINENSIS** (China, or Indian Pinks). The flowers of all are double and showy.

- |  |
|--|
| 68000 Double White China Pink. . . . . pkt., 5           |
| 68010 " Mixed China Pink. All best colors oz. 40c. . . 5 |
| 68020 " Very Dwarf, Mixed (Narcisse) . . 10              |

**HEDEWIGII** (Japan Pinks). Unusually large and brilliant; often oddly edged, striped and ringed.

- |  |
|--|
| 68030 Single Mixed. . . . . oz. 50c. . . 5   |
| 68034 " nobilis (Royal Pink). New strain producing very large flowers. See Novelties. . . . . 15 |
| 68040 " Queen of Holland. Splendid pure white. . . . . 10  |

- |  |   |
|--|---|
| 68050 " Eastern Queen. Rose-colored flowers, 2 to 4 ins. across; finely striped and stained. .pkt., 10 |  |
| 68060 " Crimson Belle. Flowers large and handsome; dark red. . . . . 10                                |   |
| 68070 " The Bride (Little Gem). White, with purple center. . . . . 10                                  |   |
| 68080 Double Mixed. . . . . oz. 75c. . . 10  |   |
| 68090 " "Mourning Pink." Very large, double flowers of blackish crimson, fringed white. . . . . 10     |   |
| 68100 " Fireball. Brilliant scarlet; very compact and floriferous. . . . . 10                          |   |
| 68110 diadematus fl. pl. (Diadem Pink). Double; magnificent in color and variety. . . . . 10           |   |
| 68120 laciniatus, Salmon Queen. Beautiful rosy salmon; single. . . . . 10                              |   |
| 68130 " Oriental Beauty. Petals wide, crinkled, richly marked with pink, white, etc. . . . . 10        |   |
| 68140 " mirabilis, Single Mixed. Quite distinct narrow foliage; fine for cutting. . . . . 10           |   |
| 68144 " Snowflake. Pure white; fine. . . . . 10  |   |
| 68150 " Single Mixed. Fringed flowers of all colors. . . . . oz. 50c. . . 10                           |   |
| 68160 " Double Mixed. . . . . 1/4oz. 25c. . . 10   |   |

- |   |
|---|
| <b>IMPERIALIS FL. PL.</b> (Double Imperial Pink). Robust, bushy grower, with large, double flowers. |
| 68170 Double Mixed. . . . . 1/4oz. 20c. . . 10  |
| 68180 " Dark Red. A deep, rich color. . . . . 10  |
| 68190 " Dwarf White. Great snowy flowers. Grows 9 inches high. . . . . 15                           |

PINKS

## PINKS, continued

PLUMARIUS (*Sweet May Pinks*). These are fine, fragrant, perennials of old-time gardens, still reckoned among the most beautiful for massing and cutting.

68240	Pheasant's Eye.	Pretty fringed flowers.....	oz. 30c...	pkt., 5
68250	scoticus ( <i>Double Scotch Pink</i> ).	A series of exquisite colors; <i>ours is the finest strain</i> .....	oz. 75c...	50
68260	semperflorens ( <i>Perpetual Pink</i> ).	Double, semi-double and single; of various colors.....	oz. 40c...	15
68270	Single Pinks, Mixed.	.....	oz. 40c...	10
68280	Double Dwarf, Mixed.	Extra fine.....	oz. 40c...	10
68284	"	Perfection ( <i>English Feathered Pink</i> ). Produces enormous, perfectly double flowers, clear white in the center of the petal but bordered deep crimson. See <i>Novelties</i> ... pkt. of 20 seeds,	oz. 40c...	25
68290	"	and Semi-Double Grass Pinks. Pretty flowers of delicate colors.....	oz. 40c...	15
68294	"	Mixed. Extra fine.....	oz. 40c...	15
68300	Hybrid Dianthus.	A cross between Sweet William and China Pink. Very hardy; beautifully colored and marked; very fragrant.....	oz. 40c...	10
Collection of Pinks, including—				
68350	12 varieties Fine China.....		oz. 40c...	50
68360	8 " " ".....		oz. 40c...	40
68370	6 " " ".....		oz. 40c...	30

## 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 earth is cool and moist.

PERENNIAL VARIETIES. Tall, large-flowered and showy; average height, 2 to 4 feet.

68600	bracteatum.	Scarlet; 3 feet.....	oz. 30c...	pkt., 5
68610	Orientele.	Enormous flowers of deep, flashing scarlet; entirely hardy anywhere; 3 ft. ....	oz. 75c...	10
68614	"	Brilliant. Vivid scarlet; beautiful.....	oz. 75c...	10
68620	"	Mixed Hybrids. Finest shades.....	oz. 75c...	10
68630	nudicaule ( <i>Iceland Poppy</i> ).	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; 1 ft. ....	oz. 75c...	10
68640	"	aurantiacum coccineum. Orange-red. All of this class have crimped petals and peculiar grace.....	oz. 75c...	10
68650	"	album. Pure white.....	oz. 75c...	10
68660	"	Mixed Iceland Poppies.....	oz. 75c...	10

ANNUAL VARIETIES. This section includes double and single flowers of greatly varying sizes, self-colored and daintily edged. All are easily cultivated and greatly admired. Average height, 3 feet.

68670	Thorburn Giant White.	White flowers of grand form and size; 3 to 4 ft. ....	oz. 30c...	pkt., 5
68680	Maid of the Mist.	Pure white, single, very large, deeply fringed; 3 to 4 ft. ....	oz. 25c...	5
68690	Miss Sherwood.	Large; single; satiny white, with upper half of petals chamois-rose. ....	oz. 25c...	5
68700	Mephisto.	Beautifully fringed; varies from red and black to rose and white.....	oz. 25c...	5
68710	Flag of Truce.	Pure white; large and showy flowers.....	oz. 25c...	5
68720	Shirley.	Indescribably bright, dainty and gauzy; a favorite for cutting.....	oz. 40c...	5
68730	Shirley, Santa Rosa Hybrids.	Beautifully crimped petals; wonderful shades of blue, lavender, salmon, etc.....	oz. 75c...	10
68740	glaucum ( <i>Tulip Poppy</i> ).	Striking, tulip-shaped flowers of intensely brilliant scarlet; dwarf.....	oz. 25c...	10
68750	pavonium ( <i>Peacock Poppy</i> ).	Intense scarlet, with broad bands of purplish black.....	oz. 25c...	10
68760	umbrosum.	Rich crimson, spotted with black.....	oz. 25c...	5
68770	laevigatum.	Scarlet, with white marks at petal bases; very showy.....	oz. 25c...	5
68780	Danebrog.	Large, single; scarlet with white cross at base of petals.....	oz. 25c...	5
68790	Mixed Single.	All colors.....	oz. 20c...	5
68830	Double White.....		oz. 25c...	5
68840	"	Scarlet.....	oz. 25c...	5
68850	"	Mikado. Large, white flowers, attractively fringed with rose.....	oz. 25c...	5
68860	"	Cardinal. The immense, scarlet flowers last unusually well.....	oz. 25c...	5
68866	"	Newest Hybrids, Mixed.....	oz. 25c...	5
68870	"	American Flag. White, bordered with scarlet.....	oz. 25c...	5
68874	"	Carnation-flowered Dwarf cardinale. Cardinal; fine.....	oz. 25c...	5



SHIRLEY POPPIES

POPPY, continued

68876	Double Carnation-flowered Dwarf	cardinal hybridum, White Swan.	Pure white..oz. 25c...pkt.,	5
68880	"	"	Mixed. Very double, fringed, colors dazzling.....oz. 20c...	5
68890	"	Pæony-flowered Dwarf Fireball.	Deep scarlet; very large flowering.....oz. 20c...	5
68900	"	"	Snowball. Pure white; very large flowering.....oz. 20c...	5
68906	"	"	Mixed Hybrids. Hybrids of compact growth; splendid.....oz. 25c...	5
68910	"	"	Mixed. Large, handsome flowers of many colors.....oz. 20c...	5
68920	"	Ranunculus-flowered, Mixed.	Flowers small, finely formed, double.....oz. 20c...	5
68926	"	Mixed, all sorts.....	oz. 20c...	5
68930	Pæony-flowered, Single	White ( <i>Opium Poppy</i> ).	Used for opium.....	5
Collections of Poppies, including—				Pkt.
68980	12 varieties	Double Carnation-flowered.	\$0 40	69000 6 var. Double Pæony-flowered.....\$0 25
68990	12	" Pæony-flowered...	40	69010 6 " Ranunculus-flowered..... 25

PORTULACA

This charming little 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 inches.

SINGLE VARIETIES. Each strong plant will cover a space of about 2 feet in diameter.

69100	splendens. Crimson.....	pkt.,	5	69140	aurea. Deep golden yellow.....	pkt.,	5
69110	Carnation-striped Rose.....	5		69150	Thorburni. Beautiful bright yellow.....	5	
69120	Thellussoni. Scarlet.....	5		69160	rosea. Rich rose.....	5	
69130	albiflora. Pure white.....	5		69170	Mixed.....	oz. 60c...	5

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.*

69200	Double Rose-striped.....	pkt.,	20	69264	Double Orange.....	pkt.,	20
69206	" Carnation-striped.....	20		69280	" Golden, Red-striped.....	20	
69210	" Scarlet.....	20		69284	" Sulphur-Yellow.....	20	
69220	" Yellow.....	20		69290	" White.....	20	
69240	" Bright Red.....	20		69300	" French White.....	20	
69250	" Salmon.....	20		69310	" Mixed. Grown from cuttings...		
69260	" Rose.....	20				1/4oz. \$1.25, oz. \$4.50..	20

Collections, including—							
69340	8 varieties	Portulaca, Single.....	35	69350	6 varieties	Portulaca, Double.....	60



SALVIA, continued

- 70610 *farinacea* (hA). Light blue flowers in great abundance; forms a neat bush; 3 ft...pkt., 10
- 70620 *patens*. A handsome, tender perennial, with erect spikes of rich blue flowers in summer. 25
- 70630 *Rœmeriana* (hA). Crimson-flowered; very dwarf and of neat habit..... 10

**SPLENDENS.** 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.

- 70640 *splendens grandiflora*, **Scarlet**. A rich-flowered bedder; long spikes; 3 ft. 1/4oz. 50c., oz. \$1.75, pkt., 10
- 70644 " **Thorburn's Best of All**. Intense, bright scarlet spikes, slightly curved upward and borne well above the leaves. The flowers are very large and produced abundantly. The plant grows about 3 1/2 feet high..... 25
- 70650 " **Burning Bush**. Intense scarlet spikes, very large, sometimes as much as 18 inches long; compact bushes, 2 to 3 feet high..... 10
- 70660 " **Bonfire**. Our well-known compact *Salvia*—the freest blooming of all, seemingly on fire all the time with dense, flaming scarlet spikes; 2 1/2 feet.... 1/4oz. 75c... 10
- 70710 " **Ball of Fire**. Very dwarf and compact, ball-shaped variety, especially suitable for pot culture. The plants are about 2 feet high to the top of the flower-spikes and about the same in diameter. Color dull red; large spikes, similar to No. 70730.... 25
- 70720 " **Lord Fauntleroy**. Only 18 inches high; very compact, with 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.. 25
- 70730 " **Early Dwarf Zurich**. Grows only 12 to 15 inches high, with many fine, erect slender spikes to each plant borne well above its handsome foliage. Color brilliant scarlet. Earliest of all..... pkt., 25
- 70740 " **Silverspot**. Rich green leaves elegantly spotted with yellow. The intense, bright scarlet flowers are large and lavishly borne; neat and compact; 2 1/2 feet..... 25

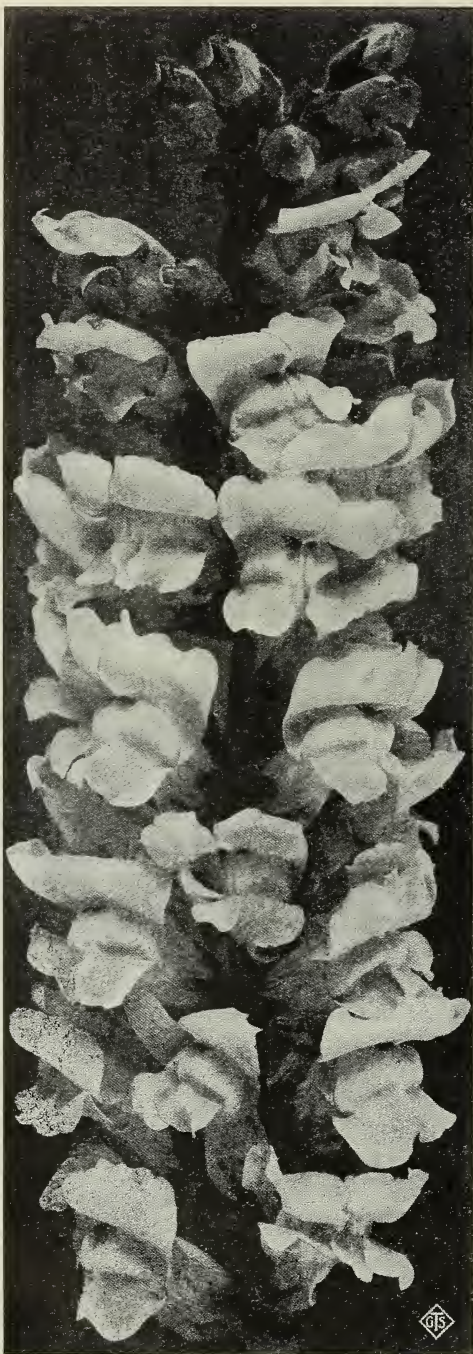


THORBURN'S DOUBLE-FLOWERED MIXED SCABIOSA

**SCABIOSA** (*Mourning Bride, Scabious, etc.*)

Well-established garden favorites. They grow about 2 feet high and commence to flower early in July, continuing until frost. The flowers are borne on long stems and last a long time when cut. Fine for beds or for borders. Sow seed outdoors in spring when danger from frost is past.

- 70810 *candidissima* fl. pl. (Snowball). Double; white ..... pkt., 5
- 70830 *Black-Purple* ..... 5
- 70840 *minor aurea* fl. pl. Double; beautiful golden yellow..... 5
- 70850 *caucasica* (Blue Bonnet) (hP). Lilac; very valuable for cutting..... 10
- 70856 *atropurpurea maxima*. Double mixed..... 10
- 70860 *Mixed Tall*..... oz. 30c... 5
- 70870 *Dwarf Double Mixed*..... oz. 40c... 5
- Collections, including—
- 70900 10 varieties *Dwarf Double*..... 45
- 70910 6 " " " ..... 30
- 70920 8 " Tall, large-flowered..... 40
- 70930 6 " " " ..... 30



THORBURN'S WHITE, TALL, LARGE-FLOWERING  
SNAPDRAGON

## 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. Among the newer sorts are flowers of a great variety of colors and markings. Their rich spikes are beautiful for cutting, and keep fresh a long time. From seed sown in the open ground, plants will bloom in July and August. 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, 1½ feet.

### TALL VARIETIES—

71000 album. White.....	pkt.,	5
71010 luteum. Yellow.....		5
71020 Delicate Rose.....		10
71030 Delicate Rose with White Throat.....		10
71200 atrococcineum. Dark scarlet.....		5
71210 Coral-Red. Light scarlet; white throat....		5
71220 Fairy Queen (Firefly). Orange, white throat..		5
71230 Romeo. Violet-rose, with pale lip.....		5
71240 picturatum, Mixed. Blotched varieties....		5
71244 Mixed.....	oz. 35c.	5

### TALL, LARGE-FLOWERING VARIETIES—

71250 Delilah. White and carmine.....	10
71252 Blood-Red. Fine color.....	10
71260 Galathee. Crimson and white.....	10
71270 Striped. Odd and pretty.....	10
71280 Firefly. Scarlet and white.....	10
71290 White. Beautiful for cutting.....	10
71310 Yellow. A pure soft color.....	10
71320 Queen Victoria. Pure white; superb.....	10
71330 Large-flowered Mixed. Fine.....	oz. 50c. 10
71332 Double White. See <i>Novelties</i> .....	25

**SEMI-DWARF VARIETIES.** Plants of this section make elegant bedders, as they bloom extra profusely and are only about 6 inches high.

71336 BONFIRE. <i>New.</i> Lovely orange-pink, pkt.,	15
71338 COTTAGE MAID. <i>New.</i> Pale coral-pink, white throat.....	15
71340 Black Prince. Nearly black.....	10
71360 picturatum. Blotched varieties.....	10
71370 Grandiflora, Golden Queen. Yellow.....	10
71376 Pink Empress. Beautiful dark rose.....	10
71380 Queen of the North. Pure white; small leaved.	10
71390 Fine Dwarf Mixed.....	oz. 50c. 10
71400 Tom Thumb, Finest Mixed. Very dwarf strain.....	¼oz. 40c. 10

Collections, including—

71440 12 varieties Snapdragon, Finest Tall.....	45
71450 6 " " " ".....	25

## STOCKS (*Mathiola*)

From the general make-up of the great Stock family no desirable quality has been omitted. The plants 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, edgings, pot culture, and for cutting. For bouquets, etc., the double white sorts are especially useful. 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 about a foot apart. Transplanting 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 feet.

STOCKS, continued

GERMAN TEN WEEKS. These are the favorite half-hardy annuals. Our seeds are pot-grown from the choicest double varieties.

- Large-flowering Dwarf Pyramidal Earliest of All. For greenhouses in pots or for the open ground. Very large flowers.
- 71500 Snowflake. Pure white..... pkt., 25
  - 71520 Delicate Light Rose..... 25
  - 71540 Porcelain-Blue. Striking color..... 25
  - 71560 Salmon. Soft, delicate shade..... 25
  - 71580 Ruby. Fiery red; splendid color..... 25
  - 71590 Finest Mixture..... 25
  - 71660 Large-flowering Perpetual, "Empress Augusta Victoria." Delicate silvery lilac flowers. Of true pyramidal growth; height, 24 inches..... 25
  - 71690 Dresden Perpetual Mixed..... 25
  - 71694 " " White..... 25
  - 71700 "Cut-and-Come-Again." Profuse and perpetual-blooming double white..... 25
  - 71704 Dwarf Large-flowering Perpetual, "Princess Alice." Pure white..... 25
- Dwarf Large-flowering. Long, splendid spikes; large, double.
- 71720 Snow-White..... 10
  - 71730 Bright Red..... 10
  - 71734 Brilliant Yellow. Rose border..... 10
  - 71744 Brick-Red..... 10
  - 71750 Crimson..... 10
  - 71760 Blood-Red. Very rich..... 10
  - 71770 Carmine..... 10
  - 71774 Rosy Lilac..... 10
  - 71780 Rose. Very dainty; light color..... 10
  - 71784 Lavender..... 10
  - 71790 Light Blue. Exquisite..... 10
  - 71800 Dark Blue. Beautiful..... 10
  - 71804 Salmon..... 10
  - 71806 Yellow, tinted Rose..... 10
  - 71810 Violet..... 10
  - 71814 Violet-Purple..... 10
  - 71870 Mixed..... 1/4oz. \$1. 10
  - 71876 Giant Pyramidal Perfection Large-flowered Mixed..... 25
  - 71910 Good Mixed Stock.....oz. \$1. 5

AUTUMNAL and LATE-FLOWERING SORTS. From seed sown in spring and summer, these half-hardy biennials begin to bloom in fall, flowering all winter and late into spring if transferred to cool, airy quarters indoors. Usually the plants are wintered over in a frame. Nos. 72030 to 72100, if started in frames or boxes in early spring, will make a brilliant show in late summer and autumn.

- 72000 Intermediate (Autumnal), Crimson; 72010, White; 72020, Mixed.... each, 25
- Large-flowering Pyramidal Perfection. about 35 inches high, the tallest and latest-flowering Stock, suitable for shrubberies, borders and cut-flowers.
- 72022 Pure White; 72028, Mixed. each, pkt., 25
  - 72030 Winter, Crimson..... 25
  - 72040 " White..... 25
  - 72050 " Empress Elizabeth. Carmine... 25



THORBURN'S DWARF GERMAN TEN WEEKS STOCKS

- Wallflower-leaved. The popular cut-flower variety; dark glossy leaves.
- 71920 White; 71930, Crimson; 71940, Mixed. Each, pkt., 25
- 71950 Dwarf German Bouquet Mixed..... 25
- Emperor, Large-flowering. Sow in spring for autumn and winter flowers; sow in midsummer for spring blooming.
- 71960 White; 71970, Crimson; 71980, Mixed. Each, pkt., 25
- 72054 Winter, Large-flowering, White Lady. Snowy white; splendid... pkt., 25
- 72064 " Dwarf Bouquet. Crimson..... 25
- 72070 " Mixed..... 25
- Winter "Nice" Varieties, Large-flowering.
- 72076 Queen Alexandra. Rosy lilac..... 25
- 72080 Abundance. Carmine-rose; profuse... 25
- 72090 Beauty of Nice. Flesh-color..... 25
- 72092 Monte Carlo. Pure yellow..... 25
- 72094 Pure White; 72100, Mixed.. each, pkt., 25

Choice Collections of Stocks.

- GERMAN TEN WEEKS
- 72110 24 varieties Dwarf Large-flowering ..... \$1 00
  - 72120 18 " " " ..... 75
  - 72130 12 " " " ..... 50
  - 72140 6 " " " ..... 30
  - 72150 12 " Pyramidal, Dwf. Large-flg... 65
  - 72160 6 " " " ..... 40
  - 72170 12 " Large-flowering Emperor.... 1 00
  - 72180 6 " " " ..... 60
  - 72190 12 " Dwarf Bouquet..... 60
  - 72200 6 " " " ..... 35

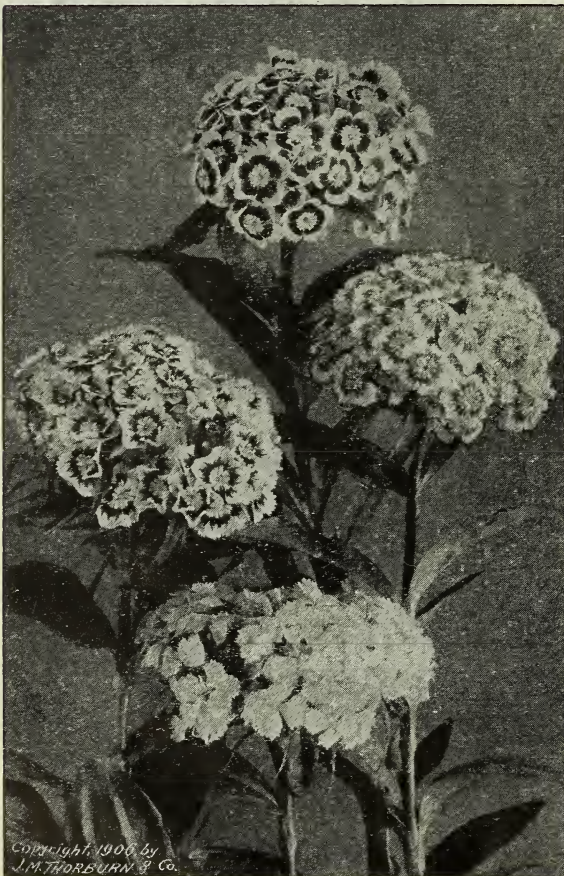
Containing Only the Finest Varieties

- 72210 6 varieties Dwarf Victoria Bouquet ... \$0 30
  - 72220 12 " Giant Perfection..... 65
  - 72230 6 " " " ..... 40
  - 72240 6 " Wallflower-leaved..... 35
- AUTUMNAL, WINTER, ETC.
- 72270 8 varieties Intermediate German..... 60
  - 72280 6 " " " ..... 50
  - 72290 6 " East Lothian Autumn..... 65
  - 72300 12 " Fine Winter, or Brompton .. 80
  - 72310 6 " " " ..... 40
  - 72340 6 " Winter, Dwarf Bouquet..... 50

## SUNFLOWER (*Helianthus. hA*)

Very stately, decorative plants with great masses of yellow flowers. Among shrubbery, 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 feet apart.

	Oz.	Pkt.
72400 <i>argyrophyllus</i> ( <i>Texas Silver Queen</i> ). Has handsome silvery foliage and a profusion of small, elegant, single flowers. 4 ft.....	\$0 25	\$0 05
72410 Henry Wilde. Tall, small-flowered, graceful single.....	20	5
72420 Primrose-colored. Graceful flowers of a lovely color; beautiful for cutting.....	20	5
72430 <i>macrophyllus giganteus</i> . Huge leaves and yellow flowers; 5 ft.....	20	5
72440 <i>cucumerifolius</i> . Of pyramidal growth; small, bright orange, single flowers; 3 feet.....		5
72444 " <i>Diadem</i> . Light citron-yellow with black center; large flowered.....	40	10
72450 " <i>Stella</i> . Handsome; large flowered; primrose-yellow.....	40	10
72460 " <i>Orion</i> . A very handsome variety, with petals twisted like those of the best cactus dahlias; excellent for cutting.....	50	10
72470 " <i>hybridus fl. pl.</i> A splendid mixture of double and semi-double sorts....	70	10
72478 " <i>Single Fine Mixed</i> .....	40	10
72480 Double <i>Chrysanthemum</i> -flowered. Very double; golden yellow; 6 feet.....		5
72490 " <i>California</i> . Dark yellow; 2 to 5 ft.....	20	5
72500 " <i>Globe</i> -flowered. Ball-shaped; blooms late; 3 ft.....	20	5
72510 " <i>Green-centered</i> . Odd and attractive; 3 ft.....	20	5
72520 " <i>Dwarf</i> . Beautiful, dahlia-like flowers, 3 inches across.....	20	5
72530 " <i>Dwarf Variegated-leaved</i> . Foliage spotted with yellow.....	25	5
72540 <i>Single Russian</i> . Giant-flowered; 5 to 8 ft.....	lb. 25c	5



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SWEET WILLIAMS

## SWEET WILLIAM

(*Dianthus barbatus. hB*)

A splendid, old-fashioned plant, producing large heads of beautifully colored, sweet-scented flowers in abundance. Hardy, easily grown, flowering the second year from seed.

	Oz.	Pkt.
72650 White, Single.....	\$0 30	\$0 05
72660 " Double.....		10
72670 Dark Crimson, Single.....	30	5
72680 " Double.....		10
72690 <i>Auricula</i> -flowered <i>oculatus marginatus</i> ( <i>Hunt's Perfection</i> ).....	25	5
72700 <i>Auricula</i> -flowered <i>oculatus marginatus</i> , Double.....		10
72704 Pink Beauty ( <i>roseus</i> ). Single. Rosy chamois... ..		15
72710 Mixed Single.....	25	5
72720 " Double. 1/4oz. 30c... ..		10
72750 Collection of 6 varieties... ..		25

## VERBENA (*hA*)

In rich soil, single plants of this pretty annual creeper will carpet a space 3 to 4 feet 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 inches apart each way in May in a sunny situation. The plants bloom from early summer until frost. Nos. 73076 and 73140 require no pegging down.



VERBENAS, continued

73000	hybrida, Scarlet. Different shades.....	pkt.,	10
73010	" Defiance. Intensely brilliant scarlet; fine for bedding.....		10
73020	" Black-Blue, White Eye.....		10
73030	" Yellow. Primrose-color.....		10
73040	" candidissima. Large trusses of purest white flowers.....		10
73050	" auriculæflora. Brilliantly colored flowers of fine size, each with a large white eye.....		10
73060	" italica striata. Brightly striped.....		10
73070	" cœrulea. Bright blue in various shades.....		10
73076	" nana compacta Vesta. Large; carmine-scarlet flowers with white centers; very showy; dwarf. Forms pretty, round bushes of upright growth.....		15
73080	" Mixed.....	¼oz. 20c.	5
73090	" Finest Mixed. Extra choice.....	¼oz. 30c.	10
73094	" Mammoth Rose Queen. Brilliant rose-colored flowers, 1 to 1¼ inches across when well grown, produced in magnificent large umbels.....		25
73100	" Mammoth Mixed. Plants and flowers are unusually large; extremely floriferous.....		10
73110	" Improved Mammoth Mixed Auricula-flowered. Best of all.....		25
73120	" gigantea (Giant-flowered). Enormously large with brilliant white eyes; very striking. A splendid mixture of rich colors, with a large percentage of reds in various shades, such as Tyrian-rose, purple-garnet, turkey-red, geranium-red, etc.....		25
73140	compacta erecta, Mixed. Finest collection.....		10
73150	Collection, including 6 varieties Verbena hybrida.....		50
73200	Verbena erinoides. Small, violet; large bloomer; pretty.....		10
73210	" " alba. Dazzling white; large, profuse bloomer; excellent.....		10
73214	" venosa. Blue; fine for groups and for edgings.....		10
73220	" citriodora (Lemon-scented Verbena). An attractive greenhouse shrub, grown for the delightful citron scent of its light green leaves.....		10

ZINNIA (Youth and Old Age)

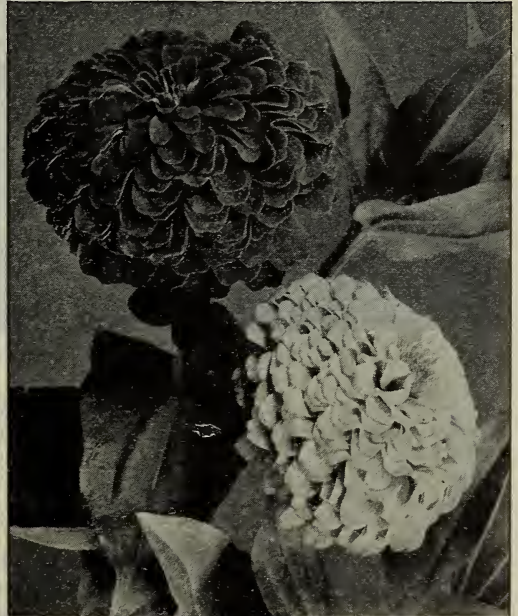
Few flowers are so easily grown from seed sown in the open ground, or bloom so abundantly and continuously, as this hardy annual. During the month of August, Zinnias are almost incomparably bright. Sow seed in the open ground early in spring. The separate colors and collections offered below are very choice. They produce very large flowers and are far superior to the sorts generally sold as Giant-flowering. Average height, 1½ to 2 feet.

TALL DOUBLE. For borders and groups; 2 feet.

	Oz.	Pkt.	
73510 Carmine.....	\$0 40	\$0 05	
73520 Crimson.....	40	5	
73530 Flesh-colored.....	40	5	
73540 Lilac.....	40	5	
73550 Purple.....	40	5	
73560 Rose.....	40	5	
73570 Scarlet.....	40	5	
73580 Striped.....	40	5	
73600 White.....	40	5	
73610 Yellow, Sulphur.....	40	5	
73620 " Golden.....	40	5	
73622 Giant Sul.-Yellow.....		15	
73624 " Crimson.....	} Superb flow- ers. See Novelties.	15	
73626 " Violet.....		15	
73628 " Flesh-color.....		15	
73632 " Mixed.....		15	
73636 Mixed.....		40	5
73640 " Large Robust.....	50	10	

DWARF DOUBLE. More compact and of neater habit than tall varieties.

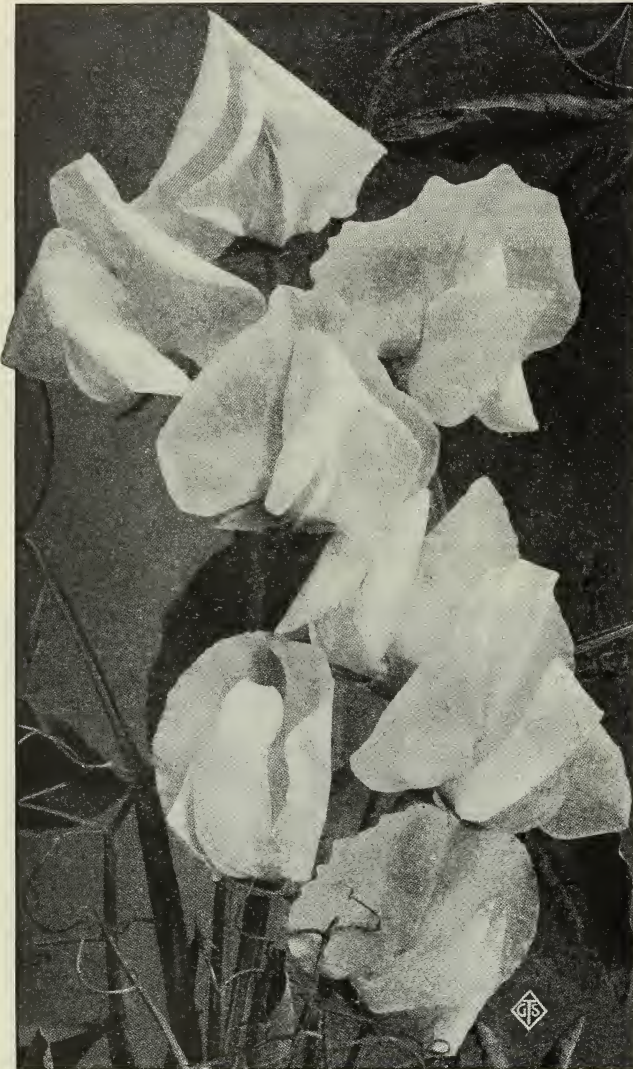
	Oz.	Pkt.	
73680 Purple.....	\$0 60	\$0 10	
73690 Salmon.....	60	10	
73700 Crimson.....	60	10	
73710 Bright Scarlet.....	60	10	
73714 Violet.....	60	10	
73720 White "Snowball".....	60	10	
73740 Yellow, Golden.....	60	10	
73750 Mixed.....	50	5	
73760 Tom Thumb, Mixed.....	60	10	
73770 Lilliput, Scarlet Gem.....		10	
73780 " White.....		10	
73790 " Mixed.....		10	
73800 Mixed Pompon.....	10	10	
73810 Haageana. Double mixed; 1 ft....	10	10	
73820 Curled and Crested. Mixed.....	10	10	



THORBURN'S DOUBLE ZINNIAS

Collections of Zinnia

73860	10 varieties Tall Double.....	\$0 45
73870	6 " " ".....	25
73880	6 " Dwarf Double.....	40
73890	8 " " ".....	60



THORBURN'S SPENCER SWEET PEAS

# Sweet Peas

(*Lathyrus odoratus. hA.*)

*N. B.*—Sweet Peas, owing to the extremely short crops last year, are very scarce, and, whilst the prices quoted are not firm, we shall endeavor to adhere to them as long as we can. Intending purchasers are strongly advised to order as soon as possible after receipt of catalogue. It will be difficult to replace the seed when our supply is sold.

Through the skill of specialists, the Sweet Pea has become much larger and lovelier than before it became so popular. There are flowers of quite distinct shapes, some of which are a great improvement upon the Sweet Pea of the old type. For garden decoration it is now grown in clumps, and in separate colors. The plants are more robust, dwarf, branching and bloom more freely, some varieties showing three to four blooms on a stem.

A deep, rich, moist soil is best suited to Sweet Peas, hence a trench should be dug 1½ feet deep and filled with very best loam mixed with bone meal or well-rotted stable manure. The vines are usually grown in double rows, with a wire trellis or a row of brush between. For each double row make the drills about 6 inches deep, and 9 or 10 inches apart. Sow plentifully, covering about 2 inches deep, and, by degrees, as the vines grow up, fill the trenches with soil, and thin out to about 2 or 3 inches apart. Spring sowings should be made just as early as the ground can be prepared. The earliest flowers are from seed sown in fall, preferably in a dry situation, and 6 or 8 inches deep, giving them level culture. Sweet Peas should not be grown on the same soil year after year. If the location cannot be changed, the soil to the depth and width of a foot or so should be removed and replaced by soil from another part of the garden or grounds. If the soil is in good, rich condition, bone meal is the best fertilizer.

## Thorburn's Selected Sweet Peas

74000	Assortment, containing	1	pkt. each of	60	named varieties,	OUR SELECTION	.....	\$2 00
74010	"	1	"	40	"	"	.....	1 50
74020	"	1	"	20	"	"	.....	85
74030	"	1	"	10	"	"	.....	45

## NAMED LARGE-FLOWERED (GRANDIFLORA) VARIETIES

Free by mail or express

All five cents per packet, except where quoted otherwise

		Per oz.	¼lb.	½lb.	Lb.
74070	Admiration. Self-colored in a delicate shade of mauve.....	\$0 15	\$0 40	\$0 65	\$1 00
74080	Agnes Johnston. Rose-pink, shaded cream.....	10	30	50	80
74130	Apple Blossom. Bright pink and blush, beautifully shaded.....	10	30	50	80
74140	Aurora. Flowers extra large; flaked bright orange-salmon on white ground. 15		40	65	1 00
74150	Black Knight. Deep maroon, self-colored.....pkt. 10c.	25			
74160	Blanche Burpee. Superb; pure white; immense size; perfect form.....	15	40	65	1 00

SWEET PEAS, continued

All five cents per packet, except where quoted otherwise

	Per oz.	1/4lb.	1/2lb.	Lb.
74170 Blanche Ferry. Standard carmine-rose, wings white, tinged pink.....	\$0 15	\$0 40	\$0 65	\$1 00
74180 Bolton's Pink. Rich salmon-pink.....	10	25	45	75
74200 Captain of the Blues. Bright purple and pale blue.....	20	65	1 00	1 50
74210 Captivation. Standard pure magenta, wings almost self-colored, distinct shade.	10	30	50	80
74240 Countess of Cadogan. Reddish mauve standard, violet-blue wings.....	10	25	45	75
74250 Countess of Lathom. Very pretty cream-pink.....	15	40	65	1 00
74254 Countess of Powis. Orange; fine.....	15	40	65	1 00
74270 Crown Jewel. Primrose, veined violet-rose.....	10	20	35	60
74280 Dainty. White, edged pink.....	10	20	35	60
74284 David R. Williamson. Bright indigo; wings lighter.....	15	40	65	1 00
74288 Dora Breadmore. Primrose and buff.....	pkt. 15c... 30			
74290 Dorothy Eckford. Fine pure white; large flowers.....	10	25	45	75
74300 Dorothy Tennant. Standard rosy mauve; wings bluish mauve.....	15	40	65	1 00
74310 Duke of Clarence. Rosy claret, self-colored flowers; extra early.....	10	25	45	75
74320 Duke of Westminster. Rosy maroon standard; violet-purple wings; fine....	15	40	65	1 00
74360 Emily Henderson. Splendid pure white; good for forcing.....	10	25	45	75
74380 Firefly. Brilliant fiery scarlet.....	10	20	35	60
74404 George Gordon. Reddish maroon.....	10	20	35	60
74420 Golden Rose. Light primrose-yellow, striped rosy pink.....	10	25	45	75
74436 Gray Friar. Heliotrope-marbled on white.....	10	25	45	75
74440 Helen Pierce. Bright blue-mottled on pure white; perfect, shell-shaped, gloxinia-like flowers; beautiful.....	10	25	45	75
74454 Her Majesty. Rose-crimson; fine.....	10	25	45	75
74460 Hon. F. Bouverie. Standard flesh-pink; wings rosy buff.....	10	20	35	60
74500 Jeannie Gordon. Beautiful bright rose, shaded cream.....	10	25	45	75
74510 Jessie Cuthbertson. Rose and primrose striped.....	pkt. 10c... 25			
74520 Katherine Tracy. Soft, brilliant pink.....	15	40	65	1 00
74530 King Edward VII. Bright crimson; very large flowers. Splendid sort.....	10	25	45	75
74540 Lady Grisel Hamilton. Light lavender standard, sky-blue wings; splendid.	10	25	45	75
74556 Lady Skelmersdale. Light magenta standard, edged lilac; wings white though sometimes tinged pink.....	10	25	45	75
74560 Lord Nelson (Brilliant Blue). Deeper and richer shade than Navy-Blue....	15	45	75	1 25
74564 Lord Roseberry. Bright magenta-rose; large size.....	10	25	40	65
74570 Lottie Eckford. Rose and white, edged with blue.....	10	20	35	60
74590 Maid of Honor. Almost white, with light bluish lavender edge.....	10	20	35	60
74600 Majestic. Deep pink, self-colored; very large flowers of finest form.....	10	20	35	60
74610 Marchioness of Cholmondeley. Light salmon, buff standards and wings....	pkt. 10c... 25	65		
74620 Mars. Bright red, self-colored; hooded form.....	15	40	65	1 00
74630 Miss Willmott. Large; orange-pink.....	10	25	45	75
74640 Modesty. White, tinted pink.....	10	25	45	75
74680 Mrs. Jos. Chamberlain. White, striped and flaked with bright rose.....	10	20	35	60
74690 Mont Blanc. Pure white, of finest form; for forcing; very dwarf.....	10	25	45	75
74700 Navy-Blue. Bluish purple standard; navy-blue wings.....	pkt. 10c... 25	65		
74746 Prima Donna. Pure light pink, self-colored.....	pkt. 10c... 25	65		
74760 Prince of Wales. Rose-crimson, self-colored.....	10	25	45	75
74770 Princess of Wales. Striped mauve on white ground.....	10	25	45	75
74802 Royal Robe. Pure pink, self-colored.....	pkt. 10c... 20	65	1 00	1 50
74810 Royal Rose. Fine deep rose-color.....	10	25	45	75
74820 Sadie Burpee, White Seed. One of the largest pure white Sweet Peas.....	10	20	35	60
74830 Sadie Burpee, Black Seed. Pure white; hardier than the white-seeded....	10	20	35	60
74850 Senator. Maroon and violet, striped white.....	10	25	45	75
74854 Sensation. Standard light pink and buff; wings pure white.....	10	25	45	75
74860 Shahzada. Dark maroon, shaded purple.....	15	40	65	1 00
74864 Shasta. Pure white; very large, open form.....	10	25	45	75
74880 Stella Morse. Primrose, flushed pink; very beautiful.....	10	25	40	65
74900 Sibyl Eckford. Standard light salmon and buff, wings buff; open form....	15	40	65	1 00
74908 Wawona. Lavender-striped.....	10	25	40	65
74910 White Wonder. Double-stemmed; many-flowered; pure white.....	10	25	45	75

UNWIN VARIETIES

This type has waved and fluted standards, much resembling the Spencers, though entirely distinct.

	Per oz.	1/4lb.	1/2lb.	Lb.
74920 E. J. Castle. Carmine-rose; standard shaded salmon.....	\$0 15	\$0 40	\$0 65	\$1 00
74924 Frank Dolby. Lavender-blue.....	15	45	75	1 25
74950 Mrs. Alfred Watkins. Standard pink, shading to buff; wings bluish, shading to rose.....	15	40	65	1 00
74960 Nora Unwin. Pure white; large, open, wavy form.....	pkt. 10c... 25	65	1 00	1 50
74970 Phyllis Unwin. Light magenta-rose and carmine; large.....	15	40	65	1 00

## 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."

		<i>All ten cents per packet, except where quoted otherwise</i>			
		Per oz.	¼lb.	½lb.	Lb.
74990	Apple Blossom. Crimson, buff and light pink.....	\$0 30	\$1 00	\$1 75	\$3 00
74996	Asta Ohn. Lavender, tinted mauve; delicate coloring; very large.....	35	I 20	2 00	3 50
75004	Aurora. Orange, pink-and-white striped; enormous flowers.....	35	I 25	2 25	4 00
75006	Black Knight. Shining deep maroon.....	30	I 00	1 50	2 50
75008	Beatrice Spencer. Deep pink, blush and buff; splendid.....	35	I 25	2 25	4 00
75012	Captain of the Blues. Standard purple; wings blue.....	35	I 25	2 25	4 00
75018	Clara Curtis. Beautiful pale primrose.....	25	75	1 25	2 00
75020	Countess Spencer. Soft rose-pink, a little deeper at edges.....	35	I 25	2 25	4 00
75022	Elsie Herbert. Large; creamy white, with pink edge.....	25	75	1 25	2 00
75024	Enchantress. Deep pink, darker toward edges.....	25	75	1 25	2 00
75026	Etta Dyke. Pure white; exquisite.....	30	I 00	1 50	2 50
75028	Florence Morse. Blush, pink margin.....	35	I 20	2 00	3 50
75034	George Herbert. Standard rosy magenta; wings deep carmine.....	30	I 00	1 50	2 50
75040	Helen Lewis. Crimson-orange standard; wings orange-rose.....	35	I 25	2 25	4 00
75050	John Ingman. Rose-carmine; fluted flowers; profuse bloomer.....	30	I 00	1 50	2 50
75052	King Edward VII. Rich carmine-scarlet; sun-proof.....	35	I 25	2 25	4 00
75054	Marjorie Willis. Glowing rose, with a little white at base.....	35	I 25	2 25	4 00
75056	Mrs. C. W. Breadmore. Buff ground, with rosy picotee edge.....	35	I 20	2 00	3 50
75058	Mrs. Charles Foster. Lavender, flushed pale rose.....	35	I 25	2 25	4 00
75060	Mrs. Hardcastle Sykes. Salmon-pink.....	35	I 25	2 25	4 00
75064	Mrs. Henry Bell. Rich apricot-pink on cream ground.....	35	I 20	2 00	3 50
75068	Othello. Rich, deep maroon; profuse bloomer.....	pkt. 15c... 50			
75072	Paradise Ivory. Ivory-white with a slight tinge of buff on the standard.....	35	I 25	2 25	4 00
75076	Primrose Spencer. Pronounced primrose- or creamy yellow.....	30	I 00	1 75	3 00
75080	Tennant. Purplish mauve, self; long, stiff stems.....	pkt. 15c... 45	I 65	3 00	5 50
75084	The Marquis. Rosy mauve, self.....	30	I 00	1 75	3 00
75088	White Spencer. Pure white; waved, crinkled and fluted standards. pkt. 15c... 50	I 75	3 25	6 00	
75090	Mixed Spencers.....	30	I 00	1 50	2 50

## CHRISTMAS SWEET PEAS

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.

		Per oz.	¼lb.	½lb.	Lb.
75100	Angeleno. Self-pink.....	pkt. 10c... \$0 25	\$0 65	\$1 00	\$1 50
75104	Earliest White. Pure white; on long stems; early.....	pkt. 5c... 15	45	75	1 25
75112	Christmas Pink.....	pkt. 10c... 30	I 00	1 50	2 50
75116	Christmas White.....	pkt. 5c... 15	45	75	1 25
75120	Christmas Lavender (Mrs. Alex. Wallace).....	pkt. 10c... 30	I 00	1 50	2 50
75124	Earliest of All. Pink and white, resembling Blanche Ferry.....	pkt. 5c... 15	45	75	1 25
75128	Mrs. Wm. Sim. Salmon-pink.....	pkt. 10c... 30	I 00	1 75	3 00
75136	Flamingo. Crimson.....	pkt. 10c... 25	65	1 00	1 50

## SWEET PEAS IN MIXTURE

75150	THORBURN'S SPECIAL MIXED. Comprising the finest Eckford and other newest and best large-flowering varieties.....	pkt. 5c... 10	30	55	90
75160	Eckford's Mixed. Composed of Eckford varieties only.....	pkt. 5c... 10	25	45	75
75180	Ordinary Mixed. Good assortment.....	pkt. 5c... 10	20	35	60

## DWARF CUPID SWEET PEAS

A distinct race of Sweet Peas, growing only about 6 inches high. Of compact, bushy habit, and with flowers as large and fragrant as those of some of the tall sorts. Excellent for pots, borders or masses.

		Per oz.	¼lb.	½lb.	Lb.
75264	Blanche Ferry. Pink and white.....	pkt. 5c... \$0 15	\$0 45	\$0 75	\$1 25
75300	Pink.....	pkt. 5c... 15	45	75	1 25
75330	White. Large, pure white flowers; very floriferous.....	pkt. 5c... 15	45	75	1 25
75340	Mixed.....	pkt. 5c... 15	45	75	1 25

PERENNIAL PEAS (*Lathyrus latifolius*)

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. Height, 2 to 8 feet. Pkt. Oz.

75420	latifolius Crimson (hP). Beautiful shade.....	\$0 10	\$0 40		
75450	" Pink Beauty (hP). Blossoms white, veined, edged and shaded rose-pink.....	10	40		
75460	" White (hP). Valuable for cut-flowers in midsummer.....	10	40		

LORD ANSON'S PEAS (*Lathyrus magellanicus*, hA)

Said to have been originally introduced by the cook of H. M. S. *Centurion*, commanded by Lord Anson in 1744. Medium-sized flowers produced in bunches from June until end of July. Pkt. Oz.

75470	Blue. Strong growing; dark purple-blue. 3 to 5 feet.....	\$0 05	\$0 20		
75480	White. A pretty white form of above.....	05	20		

# Continuation of Flower Seeds, General List

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 one ounce at ounce rate, on the cheaper articles quoted

## Explanation of Signs Employed in this List

The asterisk (\*) designates *ornamental-leaved* plants. This mark (‡) prefixed indicates the *climbers*.  
The third column presents in figures the COMPARATIVE TIME OF FLOWERING, thus:  
1 designates early—blooming in spring and early summer. 2 designates intermediate—blooming in midsummer.  
3 designates late—blooming in late summer and autumn.  
The fourth column gives the DURATION OR CHARACTER, and HARDINESS.  
A represents Annual—lasting but one year. S represents Shrubs—plants of bushy habit.  
B " Biennial—lasting two years. g " greenhouse plants.  
P " Perennial—lasting three or more years. Bu " bulbous plants.  
E " Evergreen—retains foliage the entire year. . . designates, in every case, repetition.

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.

Customers will find it more convenient to order by number. This will facilitate the filling of their orders and will insure prompt shipment.

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
75600 <i>Abobra viridiflora</i> . . . . .	2 3	tA	green	6	cts. 10	Bears pretty scarlet fruits.
75620 <i>Abronia umbellata</i> . . . . .	2	hA	rose	trail.	5	{ (Sand Verbena.) Fine trailers. Do best in light, sandy soil. Sow in open ground in May.
75630 — <i>grandiflora</i> . . . . .	.	.	.	.	5	
75650 † <i>Abrus precatorius</i> . . . . .	.	gP	purple	12	5	(Prayer Bean.) Pretty climber.
75670 <b>ABUTILON</b> —						Free-growing, decorative shrubs; bright, bell-shaped flowers. Suitable for house, greenhouse or garden.
compactum, "Fireball" . . . . .	2 3	gS	d. red	4	25	
75680 Edouard Lagueillon . . . . .	.	.	.	.	25	}
75690 Mixed . . . . .	.	.	mixed	.	25	
75710 <i>Acacia dealbata</i> . . . . .	1	.	yellow	6	10	} (Tassel Tree.) Greenhouse shrubs; graceful branches and fine racemes of yellow flowers, richly scented. Soak seeds in hot water before sowing, then plant in sandy peat in a temperature of 55° to 60°. 75780 is a very charming, floriferous shrub.
75714 <i>armata</i> . . . . .	.	.	.	.	10	
75720 <i>cultriformis</i> . . . . .	.	.	.	.	10	
75730 <i>decurrens</i> . . . . .	.	.	.	.	5	
75740 <i>Farnesiana</i> . . . . .	.	.	.	10	5	
75750 <i>Baileyana</i> . . . . .	.	.	.	6-10	10	
75760 <i>lophantha</i> . . . . .	.	.	.	6	5	
75770 <i>Melanoxyton</i> . . . . .	.	.	.	.	10	
75780 <i>mollissima floribunda</i> . . . . .	.	.	.	7	10	
75790 <i>pycnantha</i> . . . . .	.	.	.	.	10	
75800 Fine Mixed . . . . .	.	.	mixed	.	5	
75840 <i>Acanthus mollis</i> . . . . .	3	hP	white	3	10	} (Bear's Breech.) Leaves are ornamental and valuable for decorative purposes.
75850 <i>spinosus</i> . . . . .	2	.	purple	.	10	
75870 <b>ACHILLEA</b> <i>Ptarmica</i> , Double, "The Pearl" . . . . .	2 3	.	white	1½	25	{ Free bloomer; fine for florists for cut-flowers.
75890 <i>Achimenes</i> , Best Mixed . . . . .	2	gP	mixed	.	25	Saved from finest collection.
<b>Aconitum</b> —						} Hardy, popular plants, with panicles of helmet-shaped flowers.
75920 <i>Napellus</i> (Monk's Hood) . . . . .	.	hP	blue	4	10	
75930 <i>pyramidatum</i> . . . . .	.	.	.	.	10	
75950 <i>Acroclinium roseum</i> . . . . .	.	hhA	v. & ro.	1	5	} Graceful plants, with everlasting flowers, much used for winter decorations. Flower-heads should be gathered when young, to be preserved.
75960 — <i>album</i> . . . . .	.	.	white	.	5	
75970 — <i>Mixed</i> . . . . .	.	.	mixed	.	5	
75980 — <i>Double Rose</i> . . . . .	.	.	rose	.	5	
75990 — <i>White</i> . . . . .	.	.	white	.	5	
76000 — <i>Mixed</i> . . . . .	.	.	mixed	.	5	
76010 <i>Adenophora Potanini</i> . . . . .	2 3	hP	l. blue	.	15	(Gland Bellflower.) Fine.
76030 † <i>Adlumia cirrhosa</i> . . . . .	2	hB	pink	15	10	(Climbing Fumitory.) Fine.

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>		Time of Flowering	Hardness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
76050	Adonis autumnalis . . . . .oz., 25c.	2 3	hA	scarlet	1	5	} Attractive, bright flowers. 76070 is a very fine hardy perennial. (African Lily.) Beautiful. (Blue Daisy.) Winter bloom. See page 78.
76060	æstivalis . . . . .oz., 25c.	1	hP	crim.	1	5	
76070	vernalis (ox-eye) . . . . .oz., 30c.	1	hP	yellow	1½	5	
76080	Agapanthus umbellatus . . . . .	1	tP	blue	1	10	
76100	Agathæa cœlestis . . . . .	1	hP	blue	1	25	
<b>AGROSTEMMA—</b>							
76130	Cœli-rosa (Rose of Heaven). . . . .	2 3	hA	rose	1	5	} The Rose of Heaven is very free-flowering and easily grown. Fine for beds. The Rose Champion is a perennial species, free-blooming and very pretty. Excellent for naturalizing in dry situations.
76140	—alba . . . . .	1	hP	white	1	5	
76150	—coronaria (Rose Champion) . . . . .	1	hP	rose	1-2	5	
76160	—Dark Blood-Red . . . . .	1	hP	d. red	1	10	
76170	—White . . . . .	1	hP	white	1	5	
76180	—Mixed . . . . .oz., 30c.	1	hP	mixed	1	5	
76190	flos Jovis . . . . .	1	hP	rose	1	10	
76210	Alonsoa grandiflora . . . . .	1 3	hhA	scarlet	2	5	} (Mask Flower.) Bright little annuals of fine habit; re- quire some protection in cold weather. Sow in hotbed, and plant out early in May.
76220	albiflora . . . . .	1	hhA	white	1	5	
76230	linifolia . . . . .	1	hhA	scarlet	1½	5	
76250	Warszewiczii . . . . .	1	hhA	scarlet	2	5	
76260	Alsine pinifolia . . . . .	2 3	hP	white	½	10	Very pretty for edgings.
76270	Alstroemeria pulchella . . . . .	1 2	gP	yel. & r.	3	10	} (Peruvian Lily.) 76270 is bril- liant yellow, with red streaks.
76280	Mixed . . . . .	1	gP	mixed	1	10	
Althæa rosea . . . . .							See Hollyhocks, page 91.
Alyssum . . . . .							See page 78.
76290	*AMARANTUS abyssinicus . . . . .	2 3	tA	d. red	1	5	} Strong-growing, highly orna- mental plants. The <i>tricolor</i> varieties are very valuable for bedding, having elegant ornamental foliage, varie- gated crimson, yellow and green; also well adapted for growing in pots. Of easy cul- ture, doing best in rich, loam soil. For best results, sow in hotbed in April and plant out the end of May. <i>Please</i> <i>note that seed saved from the</i> <i>finest sorts frequently pro-</i> <i>duces inferior plants.</i> See Browallia.
76300	*bicolor ruber . . . . .	1	tA	red	2	5	
76310	*cruentus (Prince's Feather) . . . . .	1	tA	d. red	3	5	
76320	*caudatus (Love-Lies-Bleed- ing) . . . . .oz., 25c.	1	tA	red	1	5	
76330	*coleifolius (superbus) . . . . .	1	tA	red	1	5	
76340	*Henderi . . . . .	1	tA	cr. & y.	4	5	
76350	*melancholicus ruber . . . . .	1	tA	red	2½	5	
76360	*salicifolius (Fountain Plant) . . . . .	1	tA	purple	1	10	
76370	*tricolor (Joseph's Coat) . . . . .oz., 25c.	1	tA	var.	1	5	
76380	*—giganteus . . . . .	1	tA	red	6	5	
76390	*—splendens . . . . .	1	tA	red	3	10	
76400	*Fine Mixed . . . . .oz., 20c.	1	tA	mixed	1	5	
Amethyst . . . . .							
76440	Ammobium alatum . . . . .	2	hhP	white	3	5	} Pretty Everlastings of easy cul- tivation.
76450	—grandiflorum . . . . .	1	hhP	white	1	5	
76470	Anagallis grandiflora, mixed . . . . .	1 3	hhA	mixed	1-2	10	} For sunny situation. Fine bor- der plant.
76480	Anchusa capensis . . . . .	2	hhA	purple	1½	10	
76490	Barrelieri . . . . .	1	hP	d. blue	2	10	} Very attractive. Fine for cut- flowers and bouquets.
<b>ANEMONE—</b>							
76510	coronaria (St. Brigid Poppy- flowered) . . . . .	1	hP	mixed	1	10	} Beautiful spring flowers, re- quiring rich, deep soil. 76530 has large, pure white flowers, invaluable for cutting.
76514	—Caen, Mixed . . . . .	1	hP	mixed	1½	10	
76520	japonica rosea . . . . .	3	hP	rose	2	25	
76530	—alba . . . . .	1	hP	white	1	25	
76570	sylvestris . . . . .	1	hP	red	1½	10	
76630	Angelonia grandiflora . . . . .	1	gP	purple	1	25	} Fine, sweet-scented; for pots.
76650	Anthemis arabica (Rock Camo- mile) . . . . .	1	hA	yellow	1	5	
76660	Kelwayi tinctoria . . . . .	1 2	hP	yellow	2-3	10	} Pretty golden yellow flowers 76660 is very fine.
76680	†Antigonon leptopus . . . . .	3	gP	pink	diff.	5	
Antirrhinum . . . . .							See Snapdragon, page 106.
Aquilegia . . . . .							See page 78.
76700	Arabis alpina . . . . .	1 3	hP	white	¾	10	} 76700 is "Rock Cress;" 76710 is a rare species.
76710	rosea . . . . .	1	hP	rose	½	25	
76740	Arctotis grandis . . . . .	2	hA	w. & y.	2	10	Fine for cutting.
76760	Ardisia crenulata . . . . .	2 3	gS	red	5	25	} Fine decorative plant, bearing bright coral berries.

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS	
76790 Argemone grandiflora . . . . . ¼oz., 20c.	2	3	hA	white	2	} In a large garden the foliage and flowers are effective.	
76800 —lutea . . . . . ¼oz., 20c.	2	3	hA	yellow	2		
76840 †Aristolochia elegans . . . . .	2	gP	pu. & w.	20	25	} <i>A. Siphon</i> is the "Dutchman's Pipe," a hardy climber.	
76850 Siphon . . . . .	2	hP	br. & y.	30	25		
76890 Arnebia cornuta . . . . .	3	hhA	yellow	1	25	Rich yellow, spotted maroon.	
76930 Asclepias Curassavica . . . . .	1	3	gP	orange	3	10	Swallow-wort; free-bloomer.
76940 —atrosanguinea . . . . .	2	hP	dk. red	1	10		
76950 incarnata . . . . .	2	hP	rose-p.	1	10		
76960 tuberosa . . . . .	2	hP	orange	2	10	(Swamp Milkweed.)	
77000 ASPARAGUS Sprengeri . . . . .	1	gP	white	4	10	} Beautiful fern-like foliage; fine for bouquets. <i>A. plumosus nanus</i> is the dwarf variety, with finely cut foliage, now so largely used by florists.	
77010 †plumosus nanus . . . . . 100 seeds, 50c.	1	gP	white	4	10		
77030 scandens deflexus. 15 seeds in packet . . . . .	2	3	hhA	l. blue	1	5	} Sweet-scented, long bloomers; for borders or rockwork.
77060 Asperula azurea setosa . . . . .	2	3	hhA	l. blue	1	5	
77070 odorata (Waldmeister) . . . . .	2	3	hP	white	1½	10	
Asters . . . . .							See pages 76 and 77.
Astilbe Davidii . . . . .							See Spiræa, page 129.
77100 Aubrietia deltoidea . . . . .	1	3	hA	white	1	5	} Resembling Alyssum in character; fine for rockwork or bedding. <i>A. Eyrii</i> has lovely large, violet flowers.
77110 Eyrii . . . . .	1	3	hA	violet	1	5	
77120 græca . . . . .	1	3	hA	blue	1	10	
77130 Leichtlinii. Rosy carmine . . . . .	1	3	hA	carmine	1	25	
77150 Auricula, Finest Mixed . . . . .	1	3	hA	mixed	½	25	{ ( <i>Primula auricula</i> ). Beautiful shades of color.
77170 Azalea hybrida indica . . . . .	2	hS			2	25	Seeds from finest varieties.
Bachelor's Button . . . . .							See Gomphrena, page 122.
Balsam Apple and Pear . . . . .							See Momordica, page 125.
Balsams . . . . .							See page 79.
77190 †Balloon Vine . . . . . oz., 25c.	2	3	hhA	w. & gr.	10	5	( <i>Cardiospermum</i> .) Pretty.
Banana . . . . .							See <i>Musa Ensete</i> , page 125.
77210 Baptisia australis . . . . .	2	hP	blue	2	5	{ (False Indigo.) It has beautiful light blue flowers.	
77230 Bartonia aurea . . . . . ¼oz., 20c.	1	3	hA	yellow	3	10	{ Golden yellow flowers; very fragrant in the evening.
*Beet, Ornamental—							
77270 *Brazilian, Golden-veined . . . . . oz., 20c.					1½	5	} Beets, having no tubers, but with handsome ornamental foliage of very beautiful, rich colors. Very effective in center of beds, or anywhere in contrast with other plants.
77280 *—Scarlet-veined . . . . . oz., 20c.					1½	5	
77290 *—Crimson-veined . . . . . oz., 20c.					1½	5	
77300 *Chilian Scarlet-rib'd . . . . . oz., 20c.					1½	5	
77310 *—Yellow-ribbed . . . . . oz., 20c.					1½	5	
77320 *Victoria . . . . . oz., 20c.					1½	5	
77330 *Dracæna-leaved . . . . . oz., 20c.					1½	5	
77370 Begonia, Single Tuberos-root'd . . . . .	2	gP	mixed	1	25	} Fine for growing in pots, being perfect in habit, with handsome foliage. 77410 has dark scarlet flowers and reddish brown foliage. No. 77490 has scarlet flowers and beautiful golden yellow leaves; excellent for edging. <i>B. Erfordii</i> is a free-blooming, rosy carmine variety; fine for groups. Zulu King is a splendid sort, with leaves almost black. 77430 has metallic foliage and rose flowers; for winter blooming.	
77380 Double Tuberos-rooted . . . . .	2	gP	mixed	1	75		
77390 Fringed Single Tuberos . . . . .	2	gP	mixed	1	50		
77400 Erfordii . . . . .	2	gP	carmine	1	50		
77410 gracilis luminosa . . . . .	2	gP	d. scar.	1½-2	25		
77430 metallica . . . . .	2	gP	rose	3	75		
77440 *Rex. Ornamental-leaved . . . . .	2	gP	mixed	1	25		
77450 semperflorens . . . . .	2	gP	rose	1	25		
77460 —alba . . . . .	2	gP	white	1	25		
77470 —Vernon. Red, for borders . . . . .	2	gP	red	1	25		
77480 ——Bijou. Bright scarlet . . . . .	2	gP	scarlet	½	25		
77490 —fol. aureis. Yellow-leaved . . . . .	2	gP	rose	1	25		
77500 —Zulu King. Black-leaved . . . . .	2	gP	black	1	25		
77510 —Mixed . . . . .	2	gP	mixed	1	25		
77530 hybrida crispa fimbriata, M'xd . . . . .	2	gP	mixed	1½	25		
77540 COLLECTIONS, including 12 varieties Tuberos-rooted . . . . .					\$1 50		
77550 6 vars. Tuberos-rooted . . . . .					85		
Bellis perennis . . . . .							See Daisy, page 87.
77590 Benincasa cerifera . . . . .	2	3	tA	yellow	6	10	Black, wax-like gourd.
77610 Bidens atrosanguinea . . . . .	2	3	hA	d. red	2	10	Showy, like the Calliopsis.

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
Blazing Star .....						See <i>Liatris</i> , No. 83530.
Blue Bottle .....						See <i>Centaurea Cyanus</i> , p. 84.
77640 * <i>Bocconia japonica</i> .....	2 3	hP	white	4	10	Ornamental habit and foliage.
77660 <i>Boltonia asteroides</i> .....	3	.	flesh	3	25	Tall and leafy plants for hardy border. Profuse bloomers; easily grown.
77670 <i>latisquama</i> .....	.	.	pink	.	10	
77680 <i>Bouvardia Jacquini</i> .....	2 3	gP	scarlet	2	25	Fine greenhouse evergreen.
77700 <i>Brachycome iberidifolia</i> .....	3	hhA	purple	1	10	(Swan River Daisy.) For edg- ing. Should be started in hotbed No. 77716 is a magnificent pure white va- riety.
77710 — <i>alba</i> .....	.	.	white	.	10	
77712 — <i>rosea</i> .....	.	.	rose	.	10	
77716 — <i>Snow Star</i> .....	.	.	white	.	15	
77720 — <i>Mixed</i> .....	.	.	mixed	.	10	
77740 <i>Brickellia grandiflora</i> .....	2 3	hP	buff	2-3	25	(Great Tasselwort.)
77770 <i>Browallia elata</i> .....	2	gA	blue	2	10	(Amethyst.) Elegant green- house annuals; fine for cut- ting. 77800 has large, lovely flowers, some white, some pale blue.
77780 — <i>alba</i> .....	.	.	white	.	10	
77790 — <i>Mixed</i> .....	.	.	mixed	.	10	
77800 <i>Rœzlii</i> . Fine for pots .....	.	.	var.	.	25	
77810 <i>speciosa major</i> .....	.	.	blue	.	25	
77830 <i>Bryonopsis laciniosa erythro- carpa</i> .....	.	tA	red	5	5	Very pretty ornamental gourd.
77850 <i>Buphthalmum cordifolium</i> .....	.	hP	yellow	1	5	Ornamental hardy perennial.
77870 <i>Cacalia coccinea</i> .....	.	hA	scarlet	2	5	(Tassel Flower.) Very pretty annuals; easily grown.
77880 — <i>lutea</i> .....	.	.	orange	.	5	
77890 <i>aurea</i> .....	.	.	yellow	.	5	
77900 <i>Cactus, Mixed</i> .....	.	hhP	mixed	diff.	25	Start in greenhouse in moist sand.
77920 † <i>Calampelis scabra</i> .....	3	†hP	orange	6	10	Fine climber for trellises.
77940 <i>Calandrinia Burridgi</i> .....	2 3	hA	red	$\frac{1}{2}$	5	Brightly colored little plants; fine for edgings; plant in sunny situations.
77950 <i>speciosa</i> .....	$\frac{1}{4}$ oz., 15c.	.	purple	$\frac{1}{4}$	5	
77960 <i>umbellata</i> .....	.	hhP	violet	$\frac{1}{2}$	10	
<i>Calceolaria hybrida</i> —						Splendid greenhouse plants, with flowers beautifully striped, blotched and varie- gated. Our seeds are saved from the finest varieties. Special cultural directions are given on page 75.
77980 Large-flowered, Self-colored..	.	gP	mixed	2	25	
77990 — <i>Tigered, or Spotted</i> .....	.	.	.	.	25	
78000 — <i>Dwarf Tigered</i> .....	.	.	.	1	25	
78010 — <i>Tigered and Self-colored</i> ..	.	.	.	2	25	
78020 <i>rugosa</i> . Shrubby .....	.	.	.	1	50	
78040 <i>Calceolaria pinnata</i> .....	.	hA	yellow	.	15	Excellent bedding varieties.
78050 <i>scabiosæfolia (californica)</i> ..	.	.	.	.	10	
<i>Calendula</i> .....						See page 79.
78070 <i>Calla æthiopica</i> .....	2	gP	white	2	10	78070 is the White Calla. 78080 is deep yellow with spotted leaves; very desirable.
78080 <i>Elliotiana</i> (20 seeds in pkt.) ..	.	.	yellow	.	25	
<i>Calliopsis</i> .....						See page 80.
78090 <i>Callirhoe involucrata</i> .....	1 3	hP	c. & w.	trail.	10	Free-flowering, of pretty col- ors. Start in frame early.
78100 <i>pedata</i> .....	.	hA	v. & w.	2	5	
78120 <i>Camellia japonica</i> . 1 oz. in pkt. <i>Campanula</i> .....	.	gP	mixed	3	15	Grand greenhouse plant. See page 80.
78140 † <i>Canary-Bird Flower</i> ... oz., 30c <i>Candytuft</i> .....	2 3	hhA	yellow	10	10	( <i>Tropæolum Canariense</i> ). See page 82.
78160 * <i>Canna</i> , Dark-leaved, Crozy's... $\frac{1}{4}$ oz., 15c.	1 3	gP	mixed	4	5	Cannas, or Indian Shot, are or- namental; much employed in subtropical gardening for groups and masses.
78170 * <i>Queen Charlotte</i> .....	.	.	sc. & yl.	10	10	
78180 <i>Finest Mixed</i> ... $\frac{1}{4}$ oz., 20c.	.	.	mixed	3½	10	
78200 <i>Cannabis gigantea</i> .....	oz., 25c.	hhA	.	10	5	(Giant Hemp.) For back- grounds.
<i>Canterbury Bells</i> .....						See <i>Campanula</i> , page 80.
78220 <i>Carduus benedictus</i> ... oz., 30c.	2	hA	yellow	2	5	(Blessed Thistle.) Large, varie- gated leaves; fine for edging. 78230 is Ornamental Thistle.
78230 <i>Marianus</i> .....	oz., 30c.	.	purple	2-4	5	
<i>Carnation</i> .....						See page 83.
78240 <i>Castilleja indivisa</i> .....	2 3	†hhP	b. crim.	1½	25	Ornamental plants, with beauti- ful bracts. Brilliant crimson.



NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
					cts.	
Castor Oil Plant.....						See Ricinus, page 104.
78260 <i>Catananche cœrulea alba</i> (bicol.)	2 3	†hP	bl.&wh.	2	10	} Everlasting flowers. Bright colors and free-flowering.
78270 <i>cœrulea</i> .....	. .	. .	blue	. .	10	
Catchfly.....						See <i>Silene</i> , page 129.
78310 * <i>Celosia Huttoni</i> . Dark foliage.	3	tA	claret	3	15	} Fine for vases; splendid foliage plants.
78320 * <i>Thompsonii magnifica</i> .....	. .	. .	var.	. .	15	
78330 * <i>spicata</i> .....	. .	. .	r. & wh.	1	10	
<i>Celosia</i> , Ostrich Feather.....						See page 81.
<i>Celosia cristata</i> .....						See Cockscomb, page 87.
<i>Centaurea</i> .....						See page 84.
78350 <i>Centaureidrum Drummondii</i> ....	2	hA	yellow	1½	10	Pretty little Composite.
<i>Centranthus</i> —						
78380 <i>macrosiphon</i> .....oz., 30c.	1 3	. .	red	1	5	} Very pretty free-flowering annuals, suitable for rockeries and vases.
78400 — <i>nanus</i> .....oz., 30c.	. .	. .	. .	½	5	
78404 — <i>—albus</i> .....oz., 30c.	. .	. .	white	. .	5	
78410 — <i>Mixed</i> .....oz., 30c.	. .	. .	mixed	1	5	
78460 <i>Cephalaria tatarica</i> .....	1 2	hP	yellow	6	10	Fine for backgrounds and bees.
78480 <i>Cerastium tomentosum</i> .....	2 3	. .	white	trail.	25	} Fine edging plants; pretty.
78490 <i>Biebersteini</i> .....	1	. .	. .	. .	10	
78510 <i>Cerintho retorta</i> .....¼oz., 15c.	. .	hA	yellow	1½	10	} Valuable for bees. Decorative.
78520 <i>Mixed</i> .....	. .	. .	mixed	. .	5	
78540 <i>Chamaepeuce Casabonæ</i> .....	. .	hP	. .	2	10	(Fishbone Thistle.)
78550 <i>diacantha</i> .....	. .	. .	. .	. .	10	(Ivory Thistle.)
78558 <i>Chelone barbata</i> .....	3	†hhP	red	3	10	} Very pretty.
78560 — <i>coccinea</i> .....	. .	. .	purple	2	10	
78570 — <i>hybrida</i> , <i>Mixed</i> ..¼oz., 25c.	. .	. .	mixed	. .	10	
78600 <i>Chorizema ilicifolium</i> .....	2	gS	y. & r.	2	25	Fine greenhouse plant.
<i>Christmas Rose</i> .....						See <i>Helleborus niger</i> , page 122.
<i>Chrysanthemum</i> .....						See page 85.
<i>Cineraria hybrida</i> —						
78640 <i>White</i> . Large-flowered.....	1	†gB	white	2	25	} Among the most ornamental and useful of greenhouse plants; very beautiful and showy, the colors being distinct and bright. 78664 has twisted and fluted petals, and the colors are very rich. No. 78676 is a new mixture of large-flowered flesh-colored varieties. Nos. 78690 and 78700 are magnificent large-flowered prize strains. (Dusty Miller.) No. 78750 has silvery and 78760, pure white foliage.
78650 <i>Azure-Blue Dwarf</i> .....	. .	. .	blue	. .	25	
78660 <i>Crimson</i> . Large-flowered....	. .	. .	crim.	. .	25	
78664 <i>Stella</i> . Large-flowered.....	. .	. .	mixed	. .	50	
78670 <i>Blood-Red</i> . Large-flowered . .	. .	. .	d. red	. .	25	
78676 <i>Flesh vars.</i> Large-flowered..	. .	. .	mixed	. .	50	
78680 <i>Splendid Mixed</i> .....	. .	. .	. .	. .	25	
78690 — <i>—Large-flow'd Half-Dwarf</i>	. .	. .	. .	. .	60	
Prize.....	. .	. .	. .	1	60	
78700 — <i>—Large-flowered Prize</i> .....	. .	. .	. .	2	60	
78710 — <i>—Double</i> .....	2	. .	. .	. .	75	
78720 <i>stellata</i> (polyantha).....	. .	. .	. .	. .	25	
78740 <i>Cineraria maritima</i> ...¼oz., 15c.	. .	hhP	yellow	. .	5	
78750 — <i>candidissima</i> .....	. .	. .	. .	. .	5	
78760 — <i>“Diamond”</i> .....	. .	. .	. .	. .	10	
<i>Clarkia</i> .....						See page 86.
78780 <i>Clary</i> , Purple-Top.....oz., 25c.	1 2	hA	purple	. .	5	} ( <i>Salvia Horminum</i> .) Odd but pretty flowers.
78790 <i>Red-Top</i> .....oz., 25c.	. .	. .	red	. .	5	
78800 <i>White-Top</i> .....oz., 25c.	. .	. .	white	1½	5	
† <i>Clematis</i> —						
78840 <i>flammula</i> .....	2 3	hP	. .	. .	5	} (Virgin's Bower.) Excellent for trellises, verandas, etc. <i>C. paniculata</i> is fragrant, rapid-growing, free-blooming. For other sorts, see <i>Tree Seeds</i> .
78860 <i>paniculata</i> .....	. .	. .	. .	10-40	10	
78880 * <i>Cleome pungens</i> .....	1 3	tB	pink	2	10	} Curious; very ornamental, on Castor Oil Plant style. Sandy soil suits them best.
78890 * <i>speciosa</i> .....	. .	hA	purple	. .	10	
78910 <i>Clianthus Dampieri</i> .....	1 2	gS	scarlet	3	15	} Greenhouse plants, with pea-shaped flowers. Soak seeds in hot water before sowing.
78920 <i>punicicus</i> .....	. .	. .	crim.	6	15	
78940 <i>Clintonia</i> ( <i>Downingia</i> ) <i>pulchella</i>	2	hA	tricolor	½	25	Very pretty for edgings.
78960 † <i>Clitoria Ternatea</i> .....	2 3	hB	blue	15	10	} Beautiful greenhouse and conservatory climber.
78970 — <i>alba</i> .....	. .	. .	white	. .	10	

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78990 †COBÆA scandens... ¼ oz., 25c.	2 3	†tP	purple	20	cts. 10	} Rapid-growing; start in the house.	
79000 —alba..... ¼ oz., 35c.	. . .	. . .	white	. . .	15		
79010 macrostemma.....	. . .	. . .	violet	. . .	25		
79030 †Coccinea indica.....	. . .	tA	red	6	10	} Ornamental gourd marked with white lines, turning scarlet. See page 87.	
Cockscomb.....	. . .	. . .	. . .	. . .	. . .		
79050 Coffea arabica.....	. . .	gS	white	5	25	} (Coffee Tree.) Very ornamental. White fl'rs, scarlet berries.	
79070 *Coleus, Fine Hybrids.....	. . .	gP	mixed	2	25		
79072 Finest Mixed Large-leaved..	. . .	. . .	. . .	. . .	50	} Splendid bedding plants, with beautifully colored foliage. Very useful for decorative purposes.	
COLLECTIONS, including—					\$1 25		
79090 12 varieties Coleus.....					75		
79100 6 varieties Coleus.....							
79130 Collinsia bartsiaefolia . . oz., 25c.	2	hA	lilac	1	5		
79140 bicolor.....	1 2	. . .	p. & w.	1½	5	} 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.	
79150 —alca.....	. . .	. . .	white	. . .	5		
79160 —candidissima.....	2	. . .	. . .	1	5		
79170 grandiflora.....	. . .	. . .	blue	. . .	5		
79180 multicolor.....	. . .	. . .	w. & ro.	. . .	5		
79190 —marmorata.....	2 3	. . .	. . .	. . .	5		
79200 verna.....	1 3	. . .	bl. & p.	½	5		
79210 Mixed.....	. . .	. . .	mixed	2	5		
79240 Collomia coccinea.....	2 3	. . .	s. & y.	. . .	5		} Fine for bees; suitable for massing.
79250 grandiflora.....	. . .	. . .	yellow	. . .	5		
Columbine.....						See Aquilegia, page 78.	
79270 Commelina cœlestis.....	1	hhP	blue	1	5	} Showy, favorite plants for pots and gardens.	
79280 —alba.....	. . .	. . .	white	. . .	10		
79290 *—variegata.....	. . .	. . .	var.	2	5		
†Convolvulus, Tall—						} Pretty; fine for baskets; good for screens. 79340 has large flowers in great variety of exquisite colorings and handsome foliage. For Japanese Morning-Glory, see page 94.	
79320 aureus superbus.....	2 3	hhA	gold	5	10		
79330 major, Morn'-g-Glory. oz., 20c.	. . .	hA	mixed	10	5		
79340 —Double Morning-Glory . . .	. . .	. . .	. . .	. . .	10		
79350 mauritanicus.....	. . .	hP	blue	tra.	10		
Convolvulus, Dwarf—						} These are fine Dwarf Morning-Glories for growing in clumps or beds, or for edging, also for hanging-baskets; bloom for a long time. Beautiful and of easy culture.	
79380 tricolor.....	1 3	hA	. . .	1	5		
79390 —White.....	. . .	. . .	white	. . .	5		
79400 —unicaulis.....	. . .	. . .	purple	. . .	5		
79410 —Crimson-Violet.....	. . .	. . .	crim.-v.	. . .	5		
79420 —Rose.....	. . .	. . .	rose	. . .	5		
79430 —Mixed.....	. . .	. . .	mixed	. . .	5		
COLLECTION, including—							
79460 8 vars. Convolvulus minor....					35		
79480 *Cordylina australis.....	3	gS	white	3	15	} Beautiful foliage plants for vases or decorations.	
79490 *indivisa lineata . 100 sds., 50c.	. . .	. . .	. . .	10	10		
Coreopsis.....						See Calliopsis, page 80.	
Cornflower.....						See Centaurea Cyanus, page 84.	
79520 Cosmidium Burridgeanum.....	2	hA	orange	2	5	Very showy.	
Cosmos.....						See page 86.	
79540 Cotton (Gossypium).....	2 3	tA	yellow	3	5	Curious; for pots and gardens.	
79560 Cowslip ( <i>Primula officinalis</i> <i>hybrida</i> ).....	1	hP	mixed	½	10	} Favorite spring flower. (Crosswort.)	
79580 Crucianella stylosa.....	2	. . .	cr. pink	. . .	5		
†Cucumis—						} Of extremely rapid growth, bearing curious fruits. 79610 is the Rag or Dish-cloth Gourd, the peculiar interior of which is useful in the kitchen when properly prepared.	
79600 erinaceus (Hedge-hog Gourd)	2 3	hhA	yellow	8	10		
79610 acutangulus (Rag Gourd)....	2	. . .	. . .	. . .	5		
79620 flexuosus (Snake Cucumber).	2 3	. . .	. . .	10	5		
79630 grossulariæformis (G o o s e- berry Gourd)	2	. . .	. . .	6	10		
79660 odoratissimus (Pomegranate Melon).....	. . .	. . .	. . .	. . .	5		
79680 perennis. Very fine.....	2 3	hhP	. . .	15	10		
Cucurbita.....						See Gourds, page 122.	

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79700	Cuphea miniata	3	†hhP	crim.	1	10	These are very pretty greenhouse plants, and are also good for the border, being continually in bloom. No. 79710 is well known as "Cigar Plant."
79710	platycentra	1 3	. . .	scarlet	. . .	25	
79720	purpurea, Mixed	3	. . .	mixed	. . .	5	
79730	eminens.	. . .	. . .	s. & y.	1½	10	
79740	Rœzlii	1 3	. . .	yel. & r.	1	25	
79750	strigulosa	. . .	. . .	violet	. . .	25	
<b>Cyclamen giganteum— 100 sds.</b>							Sow seed in small boxes or seed pans, in a compost of well-rotted manure, leaf-mould and sand. Cover lightly with moss, which remove after seed germinates. Prick out into small pots when the plants have two leaves. They flower in 10 or 12 months. 79800 is a beautiful sort, fringed white and pink. No. 79784 is a fine white sort with red eye.
79780	—album, "Mont Blanc" . . . \$1	1	gBu	white	¾	25	
79784	—albo-rubrum . . . \$1	. . .	. . .	w. & r.	. . .	25	
79790	—atropurpureum . . . \$1	. . .	. . .	d. red	. . .	25	
79800	—Aurora Borealis . . . \$1.25	. . .	. . .	w. & p.	. . .	25	
79820	—lilacinum . . . \$1	. . .	. . .	lilac	. . .	25	
79824	—Light Red . . . \$1	. . .	. . .	l. red	. . .	25	
79830	—roseum . . . \$1	. . .	. . .	rose	. . .	25	
79840	—Salmon Queen . . . \$1.25	. . .	. . .	salmon	. . .	25	
79850	—Mixed . . . \$1	. . .	. . .	mixed	. . .	25	
79860	Persicum . . . \$1.50	. . .	. . .	. . .	¼	10	
79870	—Papilio . . . \$1.50	. . .	. . .	. . .	¾	25	
79900	†Cyclanthera explodens	2	hhA	yellow	8	10	Beautiful climber.
79920	Cyperus alternifolius	1	tP	apricot	2	15	{(Umbrella Plant.) Elegant habit.
Cypress Vine							See <i>Ipomœa Quamoclit</i> , p. 92.
79940	Dahlia, Double Mixed. ¼oz., 35c.	3	†hhP	mixed	6	10	All the varieties are fine. "Jules Chretien" is a very dwarf, single strain, growing from 10 to 15 inches high, and flowering the first season from seed. Valuable bedding sort, flowering through the summer from June to October in great profusion. Also fine for pots.
79960	Single Mixed . . . ¼oz., 20c.	. . .	. . .	. . .	10	10	
79970	Cactus, Mixed . . . ¼oz. 40c.	. . .	. . .	. . .	3	10	
79980	"Lucifer." Single. Black foliage	3	. . .	dk. red	2½	10	
80010	Jules Chretien. Dwarf. ¼oz., 30c.	2 3	. . .	scarlet	1	10	
80020	Single Collar (Collarette)	. . .	. . .	varies	3-4	10	
80040	"Fiery Star." Fine single	1 2	. . .	scarlet	1	10	
80050	variabilis, Giant Hybrids	. . .	. . .	mixed	6	10	
80070	COLLECTIONS, including— 6 vars. Single Dahlia					60	
Daisy, English, Shasta, etc.							
Daisy, Paris							{See <i>Chrysanthemum frutescens</i> , page 87.
Daisy, Swan River							See Brachycome, page 116.
80100	Daphne Mezereum	. . .	hS	pink	3-4	25	Early-flowering and scented.
80110	Datura meteloides (Wrighti)	1 2	hhA	w. & li.	. . .	5	Very showy and large trumpet-shaped flowers. 80120 has immense flowers, beautifully colored. Golden Queen is a splendid double, bright yellow and showy variety.
80120	cornucopia	. . .	. . .	violet	. . .	5	
80130	Golden Queen fl. pl.	. . .	. . .	yellow	. . .	5	
80140	humilis flava fl. pl.	. . .	. . .	. . .	. . .	5	
80150	fastuosa, Double White	. . .	. . .	white	. . .	5	
80160	—Double Violet	. . .	. . .	violet	. . .	5	
Delphinium							See page 87.
Dianthus							See Pink, Carnation, Picotee.
80210	Dictamnus Fraxinella	. . .	hP	red	2	10	{(Gas Plant.) The leaves, when rubbed, have a lemon odor. Leave undisturbed for years.
80220	—albus	. . .	. . .	white	. . .	10	
80230	—Mixed	. . .	. . .	mixed	. . .	10	
Didiscus							See Trachymene, page 130.
Digitalis							See Foxglove, page 90.
80250	<b>DIMORPHOTHECA—</b>						{(African Orange Daisy.) Fine. Beautiful. See <i>Novelties</i> .
80254	aurantiaca	1	hA	orange	1-1½	10	
80254	—hybrida	. . .	. . .	mixed	. . .	15	
80260	†Dolichos Lablab. . . oz., 20c.	. . .	. . .	purple	10	5	{(Hyacinth Bean.) Rapid-growing and free-flowering; good for screens. No. 80300 is a most beautiful large white-flowered variety from Japan. In sunny situations 80310 is good in flower and foliage.
80270	—albus . . . oz., 20c.	. . .	. . .	white	. . .	5	
80280	—Mixed . . . oz., 20c.	. . .	. . .	mixed	. . .	5	
80290	giganteus	. . .	. . .	white	. . .	10	
80300	japonicus, "Daylight"	. . .	. . .	. . .	. . .	10	
80310	Purple Soudan	. . .	. . .	purple	. . .	10	

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80340 <i>Doronicum caucasicum</i> . . . . .	1 2	hP	yellow	2	cts. 25	Large yellow flowers.
80360 * <i>Dracæna Draco</i> . . . . .	2	gP	white	10	25	} See Cordyline. Ornamental greenhouse plants, with elegant leaves; very rich and desirable.
80380 * <i>indivisa lineata</i> . . . . . 100 seeds, 50c.	. . . . .	. . . . .	. . . . .	. . . . .	10	
80410 <i>Dracocephalum moldavicum</i> . . . . .	3	†hP	blue	2	5	(Balm.) Fine for bees.
80430 <i>Echeveria secunda</i> . . . . .	2	gP	yellow	1/4	25	} Interesting greenhouse succu- lents; largely used for "car- pet" bedding.
80440 <i>metallica</i> . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	25	
80450 <i>agavoides</i> . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	25	
80500 † <i>Echinocystis lobata</i> . . oz., 30c	. . . . .	hP	green	12	5	(Wild Cucumber.)
80520 <i>Echinops Ritro</i> . . . . .	. . . . .	. . . . .	blue	2	10	Fine for bees.
Edelweiss . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	} See <i>Leontopodium alpinum</i> , page 124.
80540 <i>Elsholtzia cristata</i> . . . . .	. . . . .	hA	lilac	1 1/2	10	Fine for bees.
80560 <i>Emmenanthe penduliflora</i> . . . . .	. . . . .	. . . . .	yellow	1	25	("California Golden Bells.")
80580 <i>Epacris hybrida superba</i> . . . . .	1 2	gS	mixed	div.	50	Free-blooming, like Heath.
80600 <i>Eremurus himalaicus</i> . . . . .	. . . . .	hhP	white	7	25	Strikingly handsome.
80620 <i>Erica</i> (Heath), Finest Mixed . . . . .	. . . . .	gS	mixed	2	25	Charming greenhouse shrubs.
80640 <i>Erigeron aurantiacum</i> . . . . .	. . . . .	hP	orange	1	10	(Double Orange Daisy.)
80660 <i>Erinus alpinus</i> . . . . .	2	. . . . .	blue	1/4	25	Beautiful for baskets.
80680 <i>Eryngium coelestinum</i> . . . . .	2 3	. . . . .	. . . . .	1 1/2	10	Beautiful sky-blue flowers.
80690 <i>giganteum</i> . . . . .	. . . . .	. . . . .	. . . . .	4	10	(Silver Thistle.)
80710 <i>Erysimum arkansanum</i> . oz., 25c.	1 2	hA	yellow	. . . . .	5	} Free-flowering; of bright col- ors and neat habit.
80720 <i>Perofskianum</i> . . . . . oz., 25c.	. . . . .	. . . . .	orange	. . . . .	5	
80740 <i>Erythrina Crista-galli</i> . . . . .	2 3	gS	scarlet	. . . . .	10	} ((Coral Tree.) Fine greenhouse shrub.
Eschscholtzia . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	See page 89.
80760 <i>Eucharidium grandiflorum</i> . . . . .	1 2	hA	rose	1	5	} Graceful little plant. Fine for edging and pots. Showy.
80790 <i>Eupatorium Fraseri</i> . . . . .	3	†hP	white	. . . . .	10	Fine for cutting.
80810 * <i>Euphorbia marginata</i> 1/4 oz., 15c.	. . . . .	hA	w. & gr.	2	5	} 80830 if started in frames and set out in the spring will make a beautiful showing. Most valuable for cutting.
80820 <i>heterophylla</i> . . . . .	2 3	. . . . .	carmine	. . . . .	10	
80830 <i>pulcherrima</i> ( <i>Poinsettia</i> ) . . . . .	. . . . .	gS	ver. red	2-6	25	
80860 <i>Eutoca multiflora</i> . . . . .	. . . . .	hB	pink	1	5	} Good serviceable flowering plants for bedding; free- blooming.
80870 <i>viscida</i> . . . . .	1 3	hA	blue	. . . . .	5	
80890 <i>Mixed</i> . . . . .	. . . . .	. . . . .	mixed	. . . . .	5	
80910 <i>Fenzlia dianthiflora</i> . . . . .	1 2	. . . . .	rose	1/4	25	} For ribbon gardening or pots.
80920 <i>—alba</i> . . . . .	. . . . .	. . . . .	white	. . . . .	25	
80930 Ferns, Mixed. For greenhouse . COLLECTION, including	. . . . .	gP	. . . . .	. . . . .	25	} Sow in fine, sifted, sandy, peaty loam, covering the pots with pieces of glass.
80940 12 of the finest sorts . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	\$1 25	
Feverfew . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	See <i>Matricaria</i> , page 125.
Flax . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	See <i>Linum</i> , page 124.
Forget-me-not ( <i>Myosotis</i> ) . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	See page 89.
80970 Four O'clock, Hybrid . oz., 20c.	2 3	hA	mixed	2	5	} (Mirabilis.) Called Four O'clocks because they open their blossoms at that hour in the afternoon. They are also known as "Marvel of Peru." Handsome, free- flowering, sweet-scented; blossoms variegated, striped and of various colors.
80980 <i>longiflora alba</i> . . . . . oz., 25c.	2	. . . . .	white	. . . . .	5	
80990 <i>Variegated-leaved</i> . . oz., 20c.	2 3	. . . . .	mixed	. . . . .	5	
81000 <i>Tom Thumb, White</i> , . oz., 30c.	. . . . .	. . . . .	white	1	5	
81010 " " Mixed . oz., 30c	. . . . .	. . . . .	mixed	. . . . .	5	
COLLECTIONS, including—	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	
81030 12 vars. Four O'clock . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	45	
81040 6 " " " " . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	30	
81050 6 " " " " Stripe-l'vd	. . . . .	. . . . .	. . . . .	. . . . .	25	
Foxglove . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	See page 90.
81070 <i>Fragaria indica</i> . . . . .	1 2	hP	yellow	traf.	10	Beautiful scarlet fruit.
81090 <i>Freesia refracta alba</i> . . . . .	3	gBu	white	2	5	} Very sweet-scented flowers.
81096 <i>Mixed</i> . . . . .	. . . . .	. . . . .	mixed	. . . . .	5	

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>		Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
81110	Fuchsia procumbens. For vases	1 3	gS	blue	trai.	cts. 25	("Ladies' Eardrop.") Well-known greenhouse plants. They require a firm, rich soil and a shady location.
81120	triphylla. Dark-leaved.....	. . .	. . .	scarlet	. . .	25	
81130	hybrida, Finest Mixed Single	. . .	. . .	mixed	div.	50	
81140	—Finest Mixed Double	. . .	. . .	. . .	. . .	50	
81150	Double and Single Mixed...	. . .	. . .	. . .	. . .	50	
81160	COLLECTIONS, including 12 best varieties, 10 seeds of each..					\$1 25	
Gaillardia .....							See page 90.
81180	Galega officinalis .....	1 2	hP	blue	3	5	} Tall, ornamental plants, suitable for borders or cutting.
81190	—alba .....	. . .	. . .	white	. . .	10	
81210	Gamolepis Tagetes .....	1	hhA	yellow	. . .	10	Fine for beds.
81230	Gardenia Thunbergii .....	. . .	. . .	white	2	25	Flowers very fragrant.
81260	Gaura Lindheimeri... ¼ oz., 20c.	1 2	hP	w. & r.	3	10	Very effective in clumps.
81290	Genista canariensis .....	2	tP	yellow	2	10	Ornamental and free-flowering
81310	Gentiana acaulis .....	1	hP	d. blue	¼	10	} Showy, hardy plants. Valued for their beautiful flowers. 81340 is "Bottle Gentian."
81330	cruciata .....	. . .	. . .	blue	1	10	
81340	Andrewsii .....	2 3	. . .	pur. bl.	. . .	50	
81360	Geranium (Zonale)... ¼ oz., 25c.	1 3	gP	scarlet	1½	10	} The most popular of bedding plants. See, also, Pelargonium, page 126.
81370	Double Scarlet (20 s'd in pkt.)	. . .	. . .	. . .	. . .	50	
81380	Apple-scented.....	. . .	. . .	pink	. . .	25	
81430	Gerbera Jamesoni (25 s'd in pkt.)	2	hhP	scarlet	2	25	} (Scarlet Transvaal Daisy.) No. 81440, fine new hybrids of G. Jamesoni, varying from pure white through shades of yellow, pale red and salmon to orange-rose, cherry-red, etc.
81440	—hybrida. New.....	. . .	. . .	mixed	. . .	30	
81450	Gesneria macrantha .....	1	gP	scarlet	½	25	} Beautiful greenhouse plants, with long-tubed flowers.
81460	Extra Mixed.....	2	. . .	mixed	. . .	25	
81480	Geum chiloense coccineum pl. . .	. . .	hP	scarlet	1½	15	} Blooms freely for a long time. Fine for bouquets.
81490	—atrosanguineum fl. pl.....	. . .	. . .	. . .	. . .	10	
81510	Gilia achilleifolia .....	1 2	hA	blue	1	5	} Free-blooming annuals; fine for beds. Will bloom in any situation, look well on lawns in beds, are good for rockeries, and can be planted at any season.
81520	—alba .....	. . .	. . .	white	. . .	5	
81530	—rosea .....	. . .	. . .	rose	. . .	5	
81540	capitata .....	. . .	. . .	blue	. . .	5	
81550	—alba .....	. . .	. . .	white	. . .	5	
81560	laciniata .....	. . .	. . .	. . .	½	5	
81570	liniflora. For borders .....	. . .	. . .	. . .	. . .	5	
81580	nivalis .....	. . .	. . .	. . .	1	5	
81590	tricolor .....	. . .	. . .	tricolor	. . .	5	
81600	—rosea splendens .....	. . .	. . .	rose	. . .	5	
81610	Mixed .....	. . .	. . .	mixed	. . .	5	
81630	Glaucium luteum .....	2 3	†hP	yellow	4	5	} (Horned Poppy.) Gray foliage. A fine mixture.
81640	Burbank's Hybrids. Fine...	. . .	. . .	vars.	. . .	15	
Globe Amaranth.....							See Gomphrena below.
81660	Globularia trichosantha .....	2	gP	blue	½	10	A very handsome plant.
81680	Gloxinia hybrida grandiflora, Mixed.....	1 3	†gP	mixed	. . .	50	} Greenhouse plants. They grow well in a light, rich soil. "Defiance" is of an intense, glowing scarlet. "Cyclops" and "Goliath" are fine varieties. If started inside in February, will bloom the same summer.
81690	—crassifolia erecta.....	. . .	. . .	. . .	. . .	50	
81700	—horizontalis.....	. . .	. . .	. . .	. . .	50	
81710	—"Defiance" .....	. . .	. . .	scarlet	. . .	50	
81720	—French Tigered and Spotted .....	. . .	. . .	. . .	. . .	50	
81730	—gigantea, "Cyclops".....	. . .	. . .	spotted car. & w	. . .	50	
81740	—"Goliath" .....	. . .	. . .	v. & w.	. . .	50	
Godetia .....							See page 90.
Golden Feather .....							See Pyrethrum, page 128.
81760	GOMPHRENA globosa.....	2 3	hA	red	1	5	} The Globe Amaranths are among the most popular of the Everlastings. Their round heads of flowers are also called "Bachelor's Buttons." An old favorite for
81770	—alba .....	. . .	. . .	white	. . .	5	
81780	—carnea .....	. . .	. . .	pink	. . .	5	
81790	—variegata .....	. . .	. . .	striped	. . .	5	
81800	—nana compacta rubra.....	. . .	. . .	v. red	½	5	
81810	— — — — — alba .....	. . .	. . .	white	. . .	5	

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS	
cts.							
<b>Gomphrena globosa</b> , continued							
81820 —Mixed . . . . .	2 3	hA	mixed	1	5	} winter bouquets. The best soil is a mixture of sandy loam, stable manure and some silver sand.	
81830 aurea superba (Haageana) . . . . .	. . .	. . .	orange	. . .	5		
81840 COLLECTION, including 6 varieties Globe Amaranth . . . . .	. . .	. . .	. . .	. . .	30		
81860 <b>GOURD</b> , Mock Orange . . . . .	2	tA	yellow	15	5	} Excellent for covering verandas or trellis-work, and for training over arbors, fences, etc. Of rapid growth, with curious fruits and highly ornamental foliage. Cultivate same as melons. No. 81920 is the Chinese Luffa; the interior is useful as a sponge. No. 81884 is the Pipe Gourd. No. 81894 produces ball-shaped fruits 3 to 4 in. diam. with handles 2 to 3 ft. long.	
81870 Apple-shaped . . . . .	. . .	. . .	. . .	10	5		
81874 Egg-shaped . . . . .	. . .	. . .	. . .	. . .	5		
81880 Pear-shaped . . . . .	. . .	. . .	. . .	. . .	5		
81884 Calabash . . . . .	. . .	. . .	. . .	10	5		
81890 Hercules' Club . . . . .	. . .	. . .	. . .	15	5		
81894 Knob-Kerrie Gourd . . . . .	. . .	. . .	gr. & yl.	. . .	10		
81900 Sugar Trough . . . . .	. . .	. . .	. . .	. . .	5		
81910 Bottle Gourd . . . . .	. . .	. . .	. . .	. . .	5		
81920 Dish-cloth . . . . .	. . .	. . .	. . .	8	5		
81924 Dipper . . . . .	. . .	. . .	yellow	15	5		
81930 Mixed . . . . .	. . .	. . .	. . .	10-15	5		
81940 COLLECTION, including 12 varieties Gourds, small . . . . .	. . .	. . .	. . .	. . .	50		
81960 <b>Grammanthes gentianoides</b> . . . . .	. . .	hhA	. . .	½	10	} For edging, pots, or baskets. (Silk Oak.) Graceful foliage.	
81980 <b>GREVILLEA</b> robusta. ¼oz., 25c. . . . .	1 2	gS	orange	5	10		
82000 <b>Gunnera manicata</b> . . . . .	. . .	hP	red	6	25	} Decorative lawn plants, with leaves 7 to 8 feet long.	
82010 scabra . . . . .	. . .	. . .	. . .	4	25		
82030 <b>GYPSOPHILA</b> elegans alba pura . . . . .oz., 30c.	. . .	hA	white	2	5	} Fine for bouquets. Free bloomers for rockwork or shrubbery; will grow in any soil. No. 82070 is known as "Baby's Breath." 82044 is a splendid free-flowering carmine-rose variety. 82074 is indispensable for cutting.	
82034 — —Large-flowering . . . . .	. . .	. . .	. . .	. . .	10		
82040 —rosea . . . . .oz., 30c.	. . .	. . .	rose	. . .	5		
82044 —carminea . . . . .	. . .	. . .	car. rose	1	10		
82050 cerastioides . . . . .	. . .	hP	white	½	10		
82060 muralis . . . . .¼oz., 20c.	. . .	hA	pink	. . .	10		
82070 paniculata . . . . .¼oz., 20c.	. . .	hP	white	2	10		
82074 —Double White . . . . .	. . .	. . .	. . .	. . .	25		
82090 <b>Hawkweed</b> , Golden . . . . .	3	hA	yellow	. . .	5	} (Crepis.) Showy plants, of free growth; varied colors.	
82100 Red . . . . .	. . .	. . .	. . .	. . .	5		
82110 White . . . . .	. . .	. . .	white	. . .	5		
82140 <b>Hedysarum coronarium</b> . . . . .	. . .	†hB	red	3	5	} So-called "French Honey-suckle," but no relation to that vine. Not a climber. (Sneezewort.) Fine for cutting.	
82150 —album . . . . .	. . .	. . .	white	. . .	5		
82170 <b>Helenium autumnale superbum</b> . . . . .	. . .	hP	gol. yel.	5-6	10	} ("Eternal Flowers.") The flowers are large and the colors bright. They are highly prized for winter bouquets. Flowers intended for drying should be gathered when partially unfolded, and suspended with heads downward in a cool shed. Succeed best in rich, loamy soil.	
82200 <b>HELICHRYSUM</b> bracteatum . . . . .	2 3	hA	yellow	2	5		
82210 —album . . . . .	. . .	. . .	white	. . .	5		
82220 —atrosanguineum nanum . . . . .	. . .	. . .	d. red	1	5		
82230 —atrococcineum nanum . . . . .	. . .	. . .	d. scar.	. . .	5		
82240 —Mixed . . . . .	. . .	. . .	mixed	2	5		
82250 monstrosum, Double . . . . .	. . .	. . .	. . .	. . .	10		
82260 —Dwarf Double . . . . .	. . .	. . .	. . .	½	10		
COLLECTIONS, including—							
82280 6 vars. Double . . . . .	. . .	. . .	. . .	. . .	30		
82290 6 vars. Dwarf . . . . .	. . .	. . .	. . .	. . .	30		
82310 <b>Heliopsis Pitcheriana</b> . . . . .	1 2	hhP	gol. yel.	2-3	10		} Early. Excellent for cutting.
82330 <b>HELIOTROPIUM</b> peruvianum . . . . .	1 3	gP	purple	2	10		
82340 Mad. de Blonay . . . . .	. . .	. . .	white	. . .	10	} (Heliotrope.) These well-known greenhouse and bedding favorites are highly valued for their scented flowers. Should have light, rich soil.	
82350 Lemoine's Giant, Mixed . . . . .	. . .	. . .	mixed	. . .	15		
82360 White Lady . . . . .	. . .	. . .	white	. . .	10		
82380 Voltaireanum . . . . .	. . .	. . .	d. pur.	. . .	10		
82390 Fine Mixed . . . . .¼oz., 50c.	. . .	. . .	. . .	. . .	10		
82400 Dark-leaved Sorts, Mixed . . . . .	. . .	. . .	. . .	. . .	10		
82406 L'ge-flow'd Hybrids (Solstice) . . . . .	. . .	. . .	. . .	. . .	10		
COLLECTIONS, including—							
82410 12 best varieties . . . . .	. . .	. . .	. . .	. . .	90		
82420 6 best varieties . . . . .	. . .	. . .	. . .	. . .	50		
82440 <b>Helipterum Sanfordii</b> . . . . .	2	tA	yellow	1	5	} Resemble Helichrysum, and are useful in the same way.	
82450 corymbiflorum . . . . .	. . .	. . .	white	. . .	5		
82470 <b>Helleborus niger</b> . . . . .	1 2	hP	pink	. . .	10	} (Christmas Rose.) Very desirable; spring-flowering.	
82480 Mixed Hybrids . . . . .	. . .	. . .	mixed	. . .	25		
<b>Hesperis</b> . . . . .	. . .	. . .	. . .	. . .	25	See Rocket, page 128.	

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
82500 <i>Heuchera sanguinea</i> . . . . .	2 3	hP	crim.	1	cts.	} Nothing more beautiful for cut-flowers.
82504 —hybrida, Mixed . . . . .	. . .	. . .	mixed	. . .	15	
82510 —splendens . . . . .	. . .	. . .	d. red	. . .	25	
82540 <b>HIBISCUS</b> <i>africanus</i> . . . . .	. . .	hA	yl. & br.	2	5	} No. 82550 is the Rose of Sharon. No. 82570 has very large flowers of sulphur color, with purple center. No. 82584 is Pink Marvel.
82550 <i>syriacus</i> , Double . . . . .	. . .	hS	w. & p.	6	5	
82560 Crimson Eye . . . . .	. . .	hA	w. & cr.	. . .	10	
82570 Golden Bowl . . . . .	. . .	. . .	l. yel.	4	10	
82580 <i>moscheutos roseus</i> . . . . .	. . .	hP	rose	3	5	
82584 Mammoth Pink . . . . .	3	. . .	pink	6	25	
Hollyhock . . . . .						See page 91.
82610 <i>Honesty (Lunaria biennis)</i> oz., 3oc	. . .	†hB	purple	2	5	Pretty. Curious silvery silicles. See <i>Glaucium luteum</i> , page 121.
Horned Poppy . . . . .						
82630 <i>Humea elegans</i> . . . . .	1 3	†hhP	rose	5	15	} Sweet-scented. Should be kept in pots the first season.
82640 —albida . . . . .	. . .	. . .	white	. . .	15	
82660 † <i>Humulus japonicus</i> . . . . .	3	tA	green	15-20	5	} (Climbing Hop.) No. 82670 has beautiful variegated foliage.
82670 —variegatus . . . . .	. . .	. . .	. . .	. . .	5	
82690 <i>Hunnemannia fumariæfolia</i> . . . . .	2 3	hA	yellow	1	10	Large, showy flowers; fine.
82710 <i>Hyacinthus candicans</i> . . . . .	. . .	hBu	white	2-3	5	A fine summer Hyacinth.
82730 <i>Hypericum elegans</i> . . . . .	3	hP	yellow	1½	10	Green leaves; large flowers.
Iberis . . . . .						See Candytuft, page 82.
82750 Ice Plant ( <i>Mesembryanthemum crystallinum</i> ) . . . . .	2 3	tA	white	½	5	} Covered with watery vesicles resembling pieces of ice. See also <i>Mesembryanthemum</i> .
82770 <b>IMPATIENS glanduligera</b> . . . . .	2	. . .	purple	. . .	10	
82780 <i>Holstii</i> . . . . .	. . .	. . .	v.-red	2	25	} (Touch-me-not.) Beautiful. 82780 resembles 82800 but grows quicker and flowers are larger. 82800 is good for house culture. 82790 a splendid mixture of finest colors.
82790 —hybrida . . . . .	. . .	. . .	mixed	. . .	25	
82800 <i>Sultani</i> . . . . .	2 3	gP	carmine	1	25	
82810 —Queen Carola, Chamois . . . . .	. . .	. . .	chamois	. . .	25	
82820 —hybrida, Mixed . . . . .	. . .	. . .	mixed	. . .	25	
82840 <b>*INCARVILLEA Delavayi</b> . . . . .	. . .	hP	r. car.	1-2	25	} Trumpet flowers. Very beautiful. Fine hardy perennials.
82850 <i>grandiflora</i> . . . . .	1 2	. . .	d. pur.	. . .	25	
82860 <i>variabilis</i> . . . . .	. . .	. . .	rose	. . .	20	
82880 <i>Inula glandulosa grandiflora</i> . . . . .	2 3	. . .	orange	2	25	Splendid hardy perennial.
82900 <i>Ionopsidium acaule</i> . . . . .	1 3	†hhP	lilac	¼	15	(Diamond Flower.) Pretty.
Ipomœa . . . . .						See page 92.
82920 <i>Ipomopsis elegans</i> . . . . .	2 3	tB	scarlet	3	10	} Showy and beautiful; colors very bright. Seeds should be started in the house.
82930 —aurantiaca . . . . .	3	. . .	orange	1½	10	
82940 —sanguinea . . . . .	1 3	hB	scarlet	. . .	10	
82950 —Mixed . . . . .	. . .	. . .	mixed	3	10	
82970 <i>Iris Kämpferi</i> . . . . .	1 2	hP	. . .	2	10	
83010 <i>Jacob's Ladder</i> . . . . .	1	. . .	blue	1	5	} (Polemonium.) Beautiful, hardy, old-fashioned flower.
83020 White . . . . .	. . .	. . .	white	. . .	5	
83040 <i>Jacobæa</i> , White <i>Senecio</i> . . . . .	. . .	hA	. . .	. . .	5	} The <i>Senecios</i> are all free-flowering plants, good for the border and for pots. 83056 for groups, etc.; perfectly double flowers.
83050 Purple <i>Senecio</i> . . . . .	. . .	. . .	purple	. . .	5	
83056 <i>elegans pomponicus citrinus</i> . . . . .	. . .	. . .	yellow	¾	20	
83060 Mixed . . . . .	. . .	. . .	mixed	. . .	5	
83070 COLLECTIONS, including 6 varieties Dwarf Double . . . . .					35	
Job's Tears . . . . .						See <i>Coix Lacryma</i> , page 132.
* <i>Joseph's Coat</i> . . . . .	3	tA	red	2½	5	See <i>Amarantus</i> , page 114.
83090 <i>Kaulfussia amelloides</i> . . . . .	2	hA	blue	1	10	} Fine for edging; good habit and color. The high colors are best for pots.
83100 —atroviolacea . . . . .	. . .	. . .	d. v.	. . .	10	
83110 —kermesina . . . . .	. . .	. . .	v. red	. . .	10	
83120 —Mixed . . . . .	. . .	. . .	mixed	. . .	10	
83140 † <i>Kennedyæa cœrulea</i> . . . . .	1 2	gP	blue	12	10	} These are fine, profuse bloomers for the greenhouse. Do best in sandy loam.
83170 <i>Comptoniana</i> . . . . .	. . .	. . .	purple	4	10	
83190 <i>Kochia trichophylla</i> . . . . .	. . .	hA	green	2½	10	(Improved Summer Cypress.)
83210 † <i>Kudzu Vine</i> . . . . .	2 3	hP	purple	40	10	} ( <i>Pueraria Thunbergiana</i> .) Japan climber.
83230 <i>Lantana</i> , Fine Mixed . . . . .	1 3	gS	mixed	2	5	

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS	
							cts.
83250 †Lapageria rosea . . . . .	1 2	gP	rose	15	50	Beautiful greenhouse climber. See Delphinium, page 87. See Sweet Peas, page 110.	
Larkspur . . . . .							
Lathyrus . . . . .							
83290 Lavatera trimestris . . . oz., 25c.	2	hA	red	2	5	Showy and free-flowering. <i>L. arborea variegata</i> has beautifully mottled foliage. Form decorative plants first season from seed started indoors.	
83300 —alba . . . . . oz., 25c.			white		5		
83310 arborea . . . . .		tA	purple	3-5	10		
83320 —variegata . . . . .			red	3	10		
83350 Layia elegans . . . . .		hA	y. & w.	1	10	Pretty yellow and white flower. See page 109.	
Lemon Verbena . . . . .							
83390 LEONTOPODIUM alpinum . . . . .	3	hP	white	½	15	(Edelweiss.) From the Alps.	
83410 Leptosyne maritima . . . . .		hhA		2	10	Beautifully formed flowers and elegant foliage. 83420 has large golden flowers.	
83420 Stillmani . . . . .			golden		10		
83440 Leptosiphon aureus . . . . .	2	hA	orange	½	10	Fine for edging or rockeries; blooms in masses. <i>L. carmineus</i> has very beautiful carmine flowers.	
83450 androsaceus . . . . .			blue	1	5		
83460 —albus . . . . .			white		5		
83470 carmineus . . . . .			carmine		10		
83480 densiflorus . . . . .			blue		10		
83490 —albus . . . . .			white		10		
83500 hybridus . . . . .	1 3		mixed		10		
83510 Mixed . . . . . ¼ oz., 15c.					5		
83530 Liatris pycnostachia . . . . .	3	hP	purple	3-4	15		(-Kansas Blazing Star.) Pretty.
83534 spicata . . . . .				2-5	15		
83550 Limnanthes Douglasi . . . . .	2 3		w. & y.	3-4	5	Free-flowering and fragrant. Snapdragon-shaped flowers; desirable for edging, and very good for rockwork. 83606 is strikingly handsome; blooms first year from seed if sown early. Fine for cutting.	
83566 Linaria bipartita (elegans) . . . . .	2	hA	purple	1	5		
83570 —alba . . . . .			white		5		
83580 —splendida . . . . .	2 3		purple	½	5		
83590 maroccana . . . . .				¾	5		
83594 —Mixed Hybrids . . . . .			mixed		5		
83600 cymbalaria (Kenilworth Ivy) . . . . .		hP	violet	tra.	10		
83606 macedonica speciosa . . . . .		thP	yellow	3	20		
83620 LINUM flavum . . . . .		†hhP		¾	5		(Flax.) Free-flowering plants, of easy cultivation.
83630 grandiflorum rubrum oz., 25c.		hhA	crim.		5		
83640 Lewisii variegatum ¼ oz., 20c.	1 2	†hP	li. & w.	3	10	Fine; like the Gentians.	
83650 Lisianthus Russellianus . . . . .	2 3	gA	blue	1½	25		
83660 Loasa aurantiaca (lateritia) . . . . .		hhA	orange	6	10	Elegant foliage, and flowers of curious structure.	
83670 tricolor . . . . .		hA	tricolor	2	10		
Lobelia . . . . .						See page 92.	
83690 Lophospermum scandens . . . . .		tP	d. rose	8	10	Trumpet-shaped flowers.	
83710 Lotus Jacobæus . . . . .	1	tA	d. & br.	2	10	Pretty and interesting bedder. Fine for hanging baskets.	
83720 peliorhynchus . . . . .	2 3	gP	red		15		
*Love-Lies-Bleeding . . . . .						See <i>Amarantus caudatus</i> , p. 114.	
83760 LOVE-IN-A-MIST, Double . . . . .							
oz., 25c.	1 2	hA	blue	1	5	(Nigella.) Curious and ornamental; fennel-leaved; easily grown and hardy. Also called "Devil-in-a-bush."	
83770 White Double . . . . . oz., 25c.			white		5		
83780 Miss Jekyll . . . . . oz., 50c.			blue		10		
83790 Blue Spanish . . . . . oz., 25c.					5		
83800 White Spanish . . . . . oz., 25c.			white		5		
83810 Mixed Spanish . . . . . oz., 25c.			mixed		5		
83820 —All Sorts . . . . . oz., 25c.					5		
83840 LUPINUS Cruikshanksi . . . . .	2 3		blue	3	5	A large genus of ornamental annual or perennial plants. 83920 grows 5 or 6 feet high; has immense racemes of lovely dark blue flowers. Some varieties are charming, having spikes of highly colored flowers, silver foliage and good habit. Rich loam will produce the finest plants and flowers. Dwarf species make best bedding plants. All are free-flowering, attractive, bright, easily grown. No. 83946 is the Yellow Tree Lupin.	
83850 Hartwegii . . . . .		hP			5		
83860 —albus . . . . .		hA	white		5		
83870 hirsutus . . . . .			blue	2	5		
83880 —albus . . . . .			white		5		
83890 —ruber . . . . .			rose		5		
83900 mutabilis . . . . .			var.	3	5		
83910 nanus . . . . .	1 3		blue	½	5		
83920 polyphyllus . . . . .	3	hP			5		
83930 —Mixed Perennial . . . oz., 35c.	1 3		mixed		5		
83940 tricolor elegans . . . . .			o. & ro.	3	5		
83946 arboreus . . . . .	2		yellow	6	10		
83950 —albus (Snow Queen) . . . . .			white		15		
83960 Mixed Annual . . . . . oz., 25c.		hA	mixed		5		
83970 COLLECTION, including 12 best varieties . . . . .					45		



NUMBER AND NAME		Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
							cts.
83990	LYCHNIS chalconica. oz., 25c.	1 2	hP	scarlet	2	5	Brilliantly colored border plants; 84030 is a superb variety, the original of the Haageana hybrids. Fine for rockeries or carpet bedding.
84000	—alba . . . . . ¼ oz., 15c.	.	.	white	.	5	
84030	fulgens . . . . .	1	tP	scarlet	1	10	
84040	Haageana hybrida. . . . .	.	hP	mixed	.	10	
84080	Madia elegans . . . . . oz., 30c.	2 3	hA	yellow	2	5	Handsome flowers; should be in a shady position.
84100	Malope grandiflora rosea . . . . .	.	.	rose	.	5	
84110	—alba . . . . .	.	.	white	.	5	Mallow-like flowers; very pretty. Sow early.
84120	—rubra . . . . .	.	.	red	.	5	
84130	—Mixed . . . . . oz., 25c.	.	.	mixed	.	5	
84150	Malva miniata . . . . .	.	tA	scarlet	4	5	(Sunset Plant.) 84160 and 84170 are fine, hardy perennials.
84160	moschata rosea . . . . .	.	†hP	rose	2	10	
84170	—alba . . . . .	.	.	white	.	10	
84190	†Mandevillea suaveolens . . . . . Marigold . . . . .	.	gP	.	10	10	Greenhouse climber, fragrant. See page 93.
84210	Martynia craniolaria . . . . .	.	hhA	w. & sp.	1½	5	Curious and very handsome plants for the border. Also used for pickling.
84220	proboscidea . . . . . oz., 30c	.	.	vio. sp.	.	5	
84230	lutea . . . . .	.	.	yellow	.	5	
84240	formosa . . . . .	.	.	.	.	5	
	Marvel of Peru . . . . .	.	.	.	.	.	See Four O'clock, page 120.
84260	Mathiola bicornis . . . . . oz., 30c.	.	.	white	½	5	Open and fragrant at night, but closing during the day.
84280	Matricaria eximia plena . . . . .	.	hA	.	2	5	
84290	capensis plena . . . . .	.	.	.	.	5	(Feverfew.) Pretty and neat; small double flowers.
84300	"Golden Ball." Beautiful. . . . .	.	.	yellow	1½	15	
84320	†Maurandya antirrhiniflora . . . . .	1 3	†gP	purple	10	10	Abundant bloomers, and very desirable climbers for the greenhouse and garden. Should be in every collection.
84330	Barclayana . . . . .	.	.	blue	.	10	
84340	—alba . . . . .	.	.	white	.	15	
84350	Emeryana rosea . . . . .	.	.	rose	.	10	
84360	purpurea grandiflora. . . . .	.	.	purple	.	10	
84370	Mixed . . . . .	.	.	mixed	.	10	
84410	*Melianthus major . . . . .	.	gP	brown	2	10	Has very ornamental foliage.
84430	Melilotus cœrulea . . . . . oz., 25c.	3	hP	blue	1½	5	Ornamental; like the Lotus.
84450	†Melothria scabra . . . . .	.	hhA	l. blue	10	10	Tropical vine.
84470	Mesembryanthemum tricolor. . . . .	1 2	tA	tricolor	½	5	Beautiful dwarf edging plants; flower profusely in dry and sunny situations. Fine for pots. 84500 is the "Ice Plant." See page 94.
84480	—album . . . . .	.	.	white	.	5	
84490	cordifolium variegatum . . . . .	.	tP	yellow	.	15	
84500	crystallinum . . . . . oz., 35c.	2 3	tA	white	.	5	
	Mignonette . . . . .	.	.	.	.	.	
84530	Mimosa pudica . . . . . ¼ oz., 15c.	.	.	pink	¾	5	(Sensitive Plant.) Very odd.
84540	MIMULUS cardinalis . . . . .	1 2	†hP	scarlet	1½	10	(Monkey Flower.) Showy, musk-scented and free-flowing. Hardy kinds are well suited for borders. Any soil suits. 84590 and 84594 are known as "Musk Plant."
84550	cupreus, Mixed . . . . .	1 3	hA	mixed	.	10	
84560	Rœzlii . . . . .	2 3	.	yellow	½	25	
84570	tigrinus . . . . .	1 3	.	spotted	1	10	
84580	—grandiflorus (Queen's Prize)	.	.	.	.	25	
84590	moschatus. . . . .	.	tA	yellow	½	10	
84594	—compactus . . . . .	.	.	.	¾	15	
84600	†Mina lobata . . . . .	.	.	wh. & r.	15	10	
84620	Molucella spinosa . . . . .	2 3	hA	rose	7	10	Curious; free bloomers. A splendid shell-flower, with very fine foliage.
84640	†MOMORDICA Balsamina . . . . .	.	hhA	yellow	10	5	Handsome ornamental gourds. 84640 is the Balsam Apple, 84650 the Balsam pear, 84660 is the Squirting Cucumber. See Aconitum, page 113. See Ipomœa mexicana, p. 92. See page 94, and Convolvulus, page 118. See Scabiosa, page 105.
84650	Charantia . . . . .	.	.	.	.	5	
84660	Elaterium . . . . .	.	.	.	.	5	
84670	involucrata . . . . .	.	.	.	.	10	
	Monk's-Hood . . . . . Moon-Flower . . . . . Morning-Glory . . . . . Mourning Bride . . . . .	.	.	.	.	.	
84710	Musa Ensete . . . 100 seeds, \$1.50	1 2	gP	y. & br.	.	25	(Abyssinian Banana.) Splendid tropical plant. See Mimulus moschatus above. See Forget-me-not, page 89. See page 95.
	Musk Plant. . . . . Myosotis . . . . . Nasturtium . . . . .	.	.	.	.	.	
84780	Nægelia hybrida . . . . .	.	.	var.	½	25	Beautiful greenhouse plant.

NUMBER AND NAME		Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
Not less than one ounce of the cheaper sorts at ounce rate							
84800	<i>Nemesia compacta alba</i> . . . . .	2 3	hA	white	1½	cts.	} Very pretty and neat-flowering plants for edging. 84820 is a very beautiful variety.
84810	— <i>cerulea</i> . . . . .	. .	. .	blue	. .	5	
84820	<i>strumosa grandiflora</i> Suttoni. . . . .	. .	. .	var.	. .	25	
84840	<b>NEMOPHILA</b> <i>atomaria</i> .oz., 20c.	1 3	. .	w. & pu.	1	5	
84850	<i>crambeoides</i> . . . . .oz., 20c.	. .	. .	p. blue	. .	5	
84860	<i>discoidalis</i> . . . . .oz., 20c.	. .	. .	purple	. .	5	
84870	<i>insignis</i> . . . . .oz., 20c.	. .	. .	blue	. .	5	
84880	— <i>alba</i> . . . . .oz., 20c.	. .	. .	white	. .	5	
84890	— <i>marginata</i> . . . . .oz., 20c.	. .	. .	bord.	. .	5	
84900	<i>maculata</i> . . . . .oz., 20c.	. .	. .	spotted	¾	5	
84910	Mixed . . . . .oz., 20c.	. .	. .	mixed	diff.	5	
84920	COLLECTION, including 6 varieties <i>Nemophila</i> . . . . .					30	} This genus consists of very pretty annuals of easy growth; they deserve extensive cultivation; are good in pots and for edgings, in rockeries, or in the garden.
84940	<i>Nerium Oleander</i> . . . . .	2 3	gS	red	10	10	
84960	<i>Nertera depressa</i> . . . . .	. .	gP	white	cr.	25	
84970	<b>NICOTIANA</b> <i>affinis</i> . Fragrant. . . . .	. .	hhA	. .	3	5	
84976	— <i>Hybrida</i> . . . . .	. .	. .	mixed	. .	10	
84980	<i>colossea</i> . . . . .	. .	. .	. .	10	25	
84990	<i>Sanderæ Hybrids</i> . . . . .	. .	hA	. .	3	10	
85000	<i>sylvestris</i> . . . . .	. .	. .	white	. .	5	
85020	<i>Nierembergia gracilis</i> . . . . .	. .	. .	w. & li.	1	10	
85030	<i>frutescens</i> . . . . .	. .	. .	. .	2	5	
	<i>Nigella</i> . . . . .						See Love-in-a-Mist, page 124.
85050	<i>Nolana atriplicifolia</i> . . . . .	2	. .	b.w.&y.	½	5	} Very showy when in flower, and should be planted in the border; fine trailing plants.
85060	— <i>alba</i> . . . . .	. .	. .	white	. .	5	
85070	<i>paradoxa violacea</i> . . . . .	. .	. .	b. & v.	1	5	
85080	Mixed . . . . .oz., 25c.	. .	. .	mixed	. .	5	
85100	<i>Nycteria selaginoides</i> . . . . .	2 3	hhA	lilac	¾	10	} Pretty dwarf plant.
85110	<i>capensis</i> . . . . .	. .	. .	white	. .	10	
	<b>Ænothera</b> . . . . .						See Evening Primrose, p. 128.
85130	Orchids, Mixed . . . . .	2	hP	mixed	diff.	25	Fine open-ground species.
85150	<i>Orobus lathyroides</i> . . . . .	2 3	. .	blue	1½	10	} This deserves a place in gardens; fine pea blossoms.
85180	<i>Oxalis Valdiviana</i> ( <i>Veitchii</i> ) . . . . .	2	tP	yellow	½	10	
85200	<i>Pæonia officinalis</i> . . . . .	. .	hP	red	2	5	} Beautiful hardy plants, with large, handsome flowers.
85210	<i>chinensis</i> . . . . .	. .	. .	mixed	. .	10	
85220	<i>arborea</i> ( <i>Tree Pæony</i> ) . . . . .	. .	. .	. .	3	10	
85240	<i>Palafoxia Hookeriana</i> . . . . .	. .	hA	blush	1½	10	Very good Everlasting.
85260	<i>Palava flexuosa</i> . . . . .	2 3	hhA	rose	. .	10	Pretty rose flowers.
	<b>Pansy</b> . . . . .						See page 97.
	<b>Paris Daisy</b> . . . . .						See <i>Chrysanthemum frutescens</i> .
85280	‡ <b>PASSIFLORA</b> <i>cœrulea</i> . . . . .	. .	hhP	blue	10	10	} Called "Passion Flower" on account of a resemblance in the flower to the appearance presented at Calvary.
	¼oz., 30c.	. .	. .	white	25	10	
85290	<i>edulis</i> . . . . .	. .	. .	. .	10	10	
85300	<i>gracilis</i> . . . . .	. .	hhA	. .	10	10	
85310	<i>incarnata</i> . . . . .¼oz., 20c.	. .	hhP	pink	25	10	
	<b>Peas, Sweet</b> . . . . .						See page 110. Perennial Peas, see page 112.
85330	<b>Pelargonium</b> , Large-flowered Show Varieties. . . . .	. .	gP	mixed	2	50	} Beautiful greenhouse plants.
85340	<i>Odier. Superb</i> . . . . .	. .	. .	. .	. .	50	
85360	<b>PENTSTEMON</b> <i>Murrayanus grandiflorus</i> . . . . .	. .	hP	scarlet	3	10	} Beautiful herbaceous perennials; very hardy and free-flowering; fine for bedding. 85390 is a fine large-flowered strain.
85370	<i>Cobæa</i> . . . . .	. .	. .	w. & b.	. .	10	
85380	<i>digitalis</i> . . . . .	2	. .	white	1½	5	
85390	† <i>Hartwegi grandiflorus</i> . . . . .	. .	. .	mixed	2	10	
85410	Mixed Large-flowered vars. . . . .	. .	. .	. .	. .	10	
85430	* <i>Perilla nankinensis</i> . . . . .oz., 25c.	. .	hhA	purple	1½	5	} Ornamental-leaved; for ribbon-gardening and beds.
85440	*— <i>laciniatis</i> . . . . .oz., 25c.	. .	. .	. .	. .	5	
85460	<i>Persicaria, Red</i> . . . . .	3	hA	red	. .	5	} Showy for backgrounds.
85470	<i>White</i> . . . . .	. .	. .	white	. .	5	
	<b>Petunia</b> . . . . .						See page 98.

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>		Time of Flowering	Hardness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
85490	<i>Phacelia congesta</i>	2	hA	pur. bl.	1½	5	} Excellent for bees. 85520 is a lovely, rich, deep blue.
85500	Parryi	.	.	d. blue	.	10	
85510	<i>tanacetifolia</i>	.	.	blue	.	5	
85520	<i>campanularia</i>	.	.	d. blue	.	10	
85540	† <i>Phaseolus Caracalla</i>	2	3	gA	5	10	} Curious fragrant flowers. (Butterfly Runner Bean.)
85550	<i>multiflorus Papilio</i>	.	.	hhA	15	10	
	<i>Phlox Drummondii</i>						See page 100.
85570	<i>Phormium tenax</i> .....¼oz., 15c.	.	.	gP	6	5	(New Zealand Flax.)
85590	<i>Phygellus capensis</i>	.	.	.	3	25	Showy greenhouse perennial.
85610	<i>Physalis Francheti</i>	.	.	†hP	.	2	} (Chinese Lantern Plant.) From Japan.
85630	<b>PHYSOSTEGIA</b> <i>virginica alba</i>	.	.	hP	3	25	
85640	— <i>rosea</i>	.	.	.	.	25	} (Obedient Plant.) Exquisite.
85660	Picotée, White Ground	.	.	hhP	.	50	
85670	Yellow Ground	.	.	.	.	50	} From show varieties. Rich and beautiful; finely perfumed; very attractive.
85680	Extra Fine Mixed	.	.	.	.	50	
	Pink ( <i>Dianthus</i> )						See page 101.
85700	<i>Pittosporum undulatum</i>	1	2	gP	.	10	Handsome greenhouse shrub.
85720	<i>Platystemon californicum</i>	2	3	hhA	1	5	(Cream Cup.)
	<b>PLATYCODON</b>						} (See also Campanula.) (Large Chinese Bellflower.) Very fine flowering plants. <i>P. Mariesi</i> is a fine dwarf, dark blue. 85770 blooms in a few weeks from seed.
85740	<i>grandiflorum</i>	2	.	hP	2	10	
85750	— <i>album</i>	.	.	.	.	10	} (See also Campanula.) (Large Chinese Bellflower.) Very fine flowering plants. <i>P. Mariesi</i> is a fine dwarf, dark blue. 85770 blooms in a few weeks from seed.
85760	<i>Mariesi</i>	.	.	.	1	10	
85770	†— <i>macranthum</i>	.	.	.	2-3	10	
85790	<i>Podolepis chrysantha</i>	2	3	hhA	½	5	} Curious and pretty. Does well exposed to the sun.
85800	<i>affinis</i>	.	.	.	.	5	
85810	<i>gracilis</i>	.	.	.	.	5	} See Jacob's Ladder, page 123.
	<i>Polemonium</i>						
85830	<i>Polyanthus</i>	1	3	†hP	.	10	} ( <i>Primula elatior</i> .) Fine varieties.
85840	Large-flowered, Finest Mixed	.	.	.	.	25	
85850	Gold-laced	.	.	.	.	25	
	Poppy						See page 102.
	Portulaca						See page 103.
85870	<i>Potentilla atrosanguinea</i>	.	.	hP	1½	10	} Showy, hardy border plants.
85880	Mixed	.	.	.	.	10	
85900	<i>Primula cortusoides</i>	.	3	.	.	10	} These are the hardy Primroses. <i>P. japonica</i> is called the "Queen of Primroses." <i>P. Forbesi</i> has pretty rosy lilac flowers, and is fine for pots. <i>P. obconica</i> , if started in frames, will begin to bloom in May. No. 85924 is very fine; colors range from pure white through all shades of pink to deep crimson. No. 86004 is giant-flowering; brilliant carmine-red.
85910	<i>cashmeriana</i>	.	.	.	¼	25	
85920	<i>japonica</i>	.	.	.	1	10	
85924	— <i>hybrida</i> , Mixed	.	.	.	2-3	25	
85930	<i>farinosa</i> (Bird's-Eye Primrose)	.	.	.	.	25	
85940	<i>Forbesi</i> (Baby Primrose)	.	.	†hP	.	25	
85950	English Yellow Primrose	.	.	hP	½	10	
85960	<i>obconica grandiflora alba</i>	2	.	†tP	.	25	
85970	— <i>rosea</i>	.	.	.	.	25	
85980	— <i>carminea</i>	.	.	.	.	25	
85990	— <i>hybrida</i> , Mixed	.	.	.	.	50	
85994	—Fringed White	.	.	.	.	25	
85996	—Rose	.	.	.	.	25	
86000	—Mixed	.	.	.	.	25	
86004	— <i>gigantea kermesina</i>	.	.	gP	.	25	
86020	— <i>verticillata</i>	.	.	hP	1	25	
	<i>Primula chinensis stellata</i> —						} (Star Primula.) House or conservatory plants; floriferous and long-blooming. Cut-flowers are valuable for table decoration; they keep fresh in water many days.
86030	Giant White Star	.	.	gP	.	50	
86040	King of the Star	.	.	.	.	50	
86050	Salmon-Pink Star	.	.	.	.	50	
86060	Improved Blue Star	.	.	.	.	50	
86080	Crimson Star	.	.	.	.	50	
86090	Purple Star	.	.	.	.	50	
86110	Rosy Star	.	.	.	.	50	
86114	Mixed Star	.	.	.	.	50	
86120	<i>Primula chinensis fimbriata rubra</i>	3	.	.	¾	25	} From <i>primus</i> (first) referring to their early-flowering. The Chinese Primroses ( <i>Primula chinensis</i> ) are fine for winter and spring blooming; are
86130	— <i>alba</i>	.	.	.	.	25	
86140	— <i>coccinea</i>	.	.	.	.	35	
86150	— <i>alba magnifica</i>	.	.	.	.	35	

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
					cts.	
PRIMULA chinensis fimbriata, con.						
86160 ———punctata atropurpurea . . . . .	3	gP	pur. sp.	$\frac{3}{4}$	25	free-flowering, and especially valuable for cut-flowers or for house and window culture; a cool place suits them best. The seed is saved from the finest colors and largest flowers. Seed should be sown in light soil, but for the final potting a richer soil is necessary, consisting of two parts loam to one each of well-decayed manure and leaf-mould. Must be well ventilated, well watered and slightly shaded in summer. Collections here offered contain finest varieties grown.
86170 ———cœrulea . . . . .			blue		25	
86174 ———Bright Rose . . . . .			b. rose		25	
86180 ———kermesina splendens . . . . .			crim.		25	
86196 ———Extra Fine Mixed . . . . .			mixed		25	
86210 ———filicifolia alba . . . . .			white		50	
86220 ————rubra . . . . .			red		50	
86230 ————Mixed . . . . .			mixed		40	
86240 ———globosa rubra . . . . .			red		35	
86250 ————alba . . . . .			white		35	
86260 ————Mixed . . . . .			mixed		35	
86280 ———plena rubra . . . . .			red		50	
86290 ————alba . . . . .			white		50	
86300 ————Mixed . . . . .			mixed		50	
COLLECTIONS, including—						
86310 12 vars. Chinese Fringed . . . . .					\$1 50	
86320 8 vars. Chinese Fringed . . . . .					1 00	
86330 6 vars. Chinese Fringed . . . . .					75	
86340 6 vars. Chinese Double . . . . .					1 25	
PRIMROSE, Evening—						
86360 Enothera bistorta Veitchii . . . . .	2 3	hA	purple	2	5	Enotheras are fine, free-flowering plants, best for backgrounds or shrubby borders; <i>Æ. acaulis</i> has large shining white flowers, quite transparent. <i>Æ. Drummondii</i> is of rich sulphur color; profuse-flowering.
86370 ———Drummondii . . . . .	1 3		yellow	1	5	
86380 ———Lamarckiana . . . . .	2 3	hB		4-5	5	
86390 ———rosea (mexicana) . . . . .	1 3	tA	rose	$\frac{1}{2}$	10	
86400 ———acaulis alba . . . . .	2 3	hA	white		10	
86410 ———tetraptera . . . . .					5	
86420 ———Mixed Annual . . . . .oz., 25c.			mixed	diff.	5	
86440 †PUERARIA Thunbergiana . . . . .		hP	purple	40	10	(Kudzu Vine.) Japan climber.
86460 PYRETHRUM atrosanguineum . . . . .			dk. sc.	1	10	No. 86490 for poor soils. 86500, Golden Feather, is fine for edging. 86510 is a beautiful fern-leaved sort. 86480 is a splendid variety, flowers often 4 inches in diameter on long stems; fine for cutting.
86464 ———roseum hybridum, Single . . . . .			mixed	2	10	
86470 ———Double . . . . .					25	
86474 ———Double and Semi-Double . . . . .					10	
86480 ———grandiflorum . . . . .				3	25	
86490 Tchiatchewii . . . . .	1 3		white	2	20	
86500 parthenifolium aureum . . . . .						
86510 ———selaginoides . . . . . $\frac{1}{4}$ oz., 20c.	2 3		yellow	$\frac{1}{2}$	10	
86520 ———Golden Gem . . . . . $\frac{1}{4}$ oz., 20c.					10	
86540 Rehmannia angulata . . . . .	1 3	hhP	rose-pu.	3	25	
86560 *Rheum palmatum tanguticum . . . . .	1	hP	white		5	(Ornamental Rhubarb.)
86570 Collinianum . . . . .					5	
86590 Rhodanthe maculata . . . . .	2 3	tA	r. & w.	1	10	Very beautiful, delicate-looking Everlastings, much prized for winter bouquets.
86600 ———alba . . . . .			white		10	
86610 ———Mixed . . . . .			mixed		10	
86620 Manglesii . . . . .			r. & w.	$\frac{1}{2}$	10	
86640 †Rhodochiton volubile . . . . .	1 2	gA	pu.-ro.	10	25	Superb climber.
86660 Rhododendron arboreum hyb. . . . .	1	hS	mixed		25	Grand evergreen shrub.
Ricinus . . . . .						See page 104.
86680 Rivina humilis . . . . .	3	gP	white	2	10	Ornamental in fruit.
86700 ROCKET, Sweet . . . . .oz., 30c.	2 3	†hP	purple		5	(Hesperis.) Free-blooming and very sweet-scented.
86710 White . . . . .oz., 20c.			white		5	
86720 nana candidissima . . . . .	2			$1\frac{1}{2}$	10	
86740 Romneya Coulteri . . . . .	2 3	hhP		2	15	California Tree Matilija Poppy.
86760 Rosa multiflora nana . . . . .		†hP	mixed		10	Flowers first season from seed.
Rose Champion . . . . .						See <i>Agrostemma coronaria</i> , p. 114
Rose of Heaven . . . . .						{ See <i>Agrostemma Cali-rosa</i> , page 114.
Rose of Sharon . . . . .						{ See <i>Hibiscus syriacus</i> , p. 123.
86780 RUDBECKIA amplexicaulis . . . . .	2	hP	yellow	3	5	(Coneflower.) Showy, large yellow flowers, with brown cones.
86790 bicolor superba . . . . .					10	
86800 fulgida variabilis . . . . .	2 3		mixed		10	
86810 Neumannii . . . . .			or.-yel.	$1\frac{1}{2}$	10	
86820 Saintpaulia ionantha . . . . .		†gP	blue	$\frac{1}{2}$	25	The Usambara Violet. Lovely.
Salpiglossis . . . . .						See page 104.

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
Salvia.....					cts.	See page 104.
86840 *Santolina Chamæcyparissus...	2	hP	yellow	1½-2	5	} For large specimens in shrub- beries or as a carpet-bedding plant; distinct foliage.
86860 maritima .....	. .	. .	white	. .	5	
86870 Sanvitalia procumbens fl. pl....	2 3	hA	yellow	½	10	} Beautiful. Fine for beds or bor- ders; flowers all summer.
86890 Saponaria calabrica....oz., 3oc.	. .	. .	red	1	5	
86900 —alba .....	. .	. .	white	. .	5	} Pretty dwarf bedding plants. Should be cultivated for their beauty and long blooming.
86910 —Scarlet Queen .....	. .	. .	scarlet	. .	5	
86920 ocymoides.....	1 2	hP	red	½	5	} Curious little plants; especially adapted for rockwork.
86940 Saxifraga, Mixed Perennial....	2	. .	mixed	¾	25	
Scabiosa .....						See page 105.
86960 SCHIZANTHUS Grahami.....	2 3	hhA	s. & o.	2	5	} Elegant free-blooming annuals. Large, beautiful flowers of many colors, fine for bedding. Grown in pots in early spring in greenhouse, become fine foliage plants with masses of blossoms. 87010 is long- flowering and light-colored. 87004 has flowers 1½ to 1¾ inches across; white ground with large, golden yellow, lighter veined spot. Effective for groups; fine pot-plant.
86970 pinnatus .....	. .	. .	p. v.	1½	5	
86980 papilionaceus .....	. .	. .	bk.eyd.	. .	5	
86990 retusus .....	. .	. .	r. & o.	2	5	
87000 —albus .....	. .	. .	white	1½	5	
87004 —trimauculatus albus .....	. .	hA	yel.& w.	1½-2	20	
87010 Wisetonensis. Fine pot-plant.	. .	hhA	vars.	1½	25	
87020 Mixed .....	. .	. .	mixed	diff.	5	
87030 COLLECTION, including 6 va- rieties Schizanthus.....					30	
87050 Schizopetalon Walkeri .....	2	hA	white	¾	15	
87090 Sedum acre.....	1 2	hP	yellow	¼	10	} (Stonecrop.) Showy little plants, excellent for carpet beds. Plant in sandy soil.
87100 cœruleum.....	3	hA	blue	¼	15	
87110 Maximowiczii .....	. .	hP	yellow	1	10	
87120 Mixed .....	. .	. .	mixed	¾	10	
Senecio .....						See Jacobæa, page 123.
87140 Sensitive Plant .....	2 3	tA	pink	. .	5	(Mimosa.) Pretty and curious.
87160 SILENE Armeria .....	1 2	hA	red	2-3	5	} (Catch fly.) Bright-colored, free-flowering annuals, suit- able for rockwork or open border. <i>S. pendula</i> is largely grown for spring flower gar- dening. They succeed in any light, loamy soil.
87170 —alba .....	. .	. .	white	. .	5	
87190 pendula.....	. .	. .	red	1	5	
87200 —Double Rose .....	. .	. .	rose	. .	5	
87210 —ruberrima .....	. .	. .	. .	. .	5	
87220 —Bonnetti, dark stems .....	. .	. .	dk. pur.	. .	5	
87230 —Mixed .....	. .	. .	mixed	. .	5	
87240 orientalis.....	. .	†hP	d. rose	2	5	
87280 †SMILAX ( <i>Myrsiphyllum as- paragoides</i> ).....	2 3	gP	white	6	10	} For table and house decora- tion. Fine for florists. See page 106.
Snapdragon						
87300 Solanum, White Eggplant .....	3	tA	. .	1	5	} The Solanums are very orna- mental fruit-bearing plants, and thrive best in light, rich soil. All are highly deco- rative and well worth cultivating. <i>S. giganteum</i> is the largest and handsomest of all, having flowers 3 inches in diameter. No. 87390 is a fine variety of climber with drooping ra- cemes of a delicate lilac color.
87310 Scarlet Eggplant .....	. .	. .	scarlet	. .	5	
87320 Striped Eggplant.....	. .	. .	striped	2	5	
87330 Weatherill's Hybrid .....	. .	. .	blue	. .	5	
87340 robustum .....	2 3	. .	purple	3	10	
87350 capsicastrum .....	. .	. .	yellow	2	5	
87360 giganteum.....	. .	. .	white	4	10	
87370 Hendersoni.....	. .	. .	purple	. .	10	
87380 Warscewiczoides.....	. .	. .	white	3	10	
87390 †Seafortianum .....	. .	†gP	lilac	5	15	
87400 COLLECTION, including 6 va- rieties Solanum .....					40	
87420 Sphenogyne speciosa.....	3	hA	yellow	1	5	
87430 Spiræa (Astilbe) Davidii.....	2	hP	rose-v.	6	25	} Beautiful. Easily raised from seed. Flowers in 18 months.
87460 Stackys lanata .....	3	. .	striped	2	5	
87480 Statice Bonduelli .....	2	hA	yellow	1½	5	} (Sea Lavender.) Beautiful for winter bouquets. Pretty lit- tle flowers which ought to be in all gardens.
87490 sinuata .....	2 3	. .	blue	1	5	
87500 —candidissima .....	. .	. .	white	. .	5	
87510 Suworowi. Bright rose.....	. .	. .	rose	. .	10	
87520 incana hybrida nana .....	. .	hP	mixed	1½	5	
87530 Perennial Sorts, Mixed .....	. .	. .	. .	. .	5	
87550 Stenactis speciosa .....	. .	. .	purple	2	10	

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					cts.	
87570 <i>Stephanophysum longifolium</i> ...	2 3	hhP	scarlet	1½	25	} An acanthaceous plant, with bright colored flowers.
87590 <i>Stevia serrata</i> .....	2	gP	flesh	. .	10	
Stocks, German Ten Weeks ..						See page 106.
87610 STOKESIA <i>Cyanea</i> .....	2 3	hP	blue	2	10	} ("Cornflower Aster.") Pretty.
<i>Streptocarpus</i> —						
87630 Veitch's Hybrids .....	1 2	gP	mixed	. .	50	See page 108.
Sunflower ( <i>Helianthus</i> ) .....						
87670 <i>Swainsonia alba grandiflora</i> ...	1 3	. .	white	. .	25	} Fine greenhouse plants, easily grown in sandy, peaty soil.
87680 <i>Ferrandi carminea</i> .....	. .	. .	carmine	. .	50	
87684 Mixed Species .....	. .	. .	mixed	. .	20	
Sweet Peas .....						See page 110.
Sweet Sultan .....						See Centaurea, page 84.
Sweet William .....						See page 108.
87720 <i>Tagetes lucida</i> . Sweet-scented.	2	hA	yellow	1	10	} Pretty, and fine for edging. See also Marigold, page 80.
87730 <i>signata pumila</i> .....	2 3	. .	. .	. .	10	
Tassel Flower .....						See <i>Cacalia</i> , page 116.
87750 <i>Tecoma Smithi</i> . Splendid .....	. .	gP	lemon	6	25	Flowers lemon, flushed orange.
87830 † <i>THUNBERGIA alata</i> , Mixed .	1 2	hhA	mixed	5	10	} Ornamental climber and abundant bloomer.
87850 <i>Torenia Fournieri</i> .....	. .	tA	purple	2	25	
87860 —"White Wings" .....	. .	. .	white	. .	25	} For borders and baskets. 87850 is fine for pots. 87870 is golden yellow, deep red throat.
87870 <i>Bailloni</i> .....	. .	. .	yellow	. .	25	
87890 <i>Trachelium cœruleum</i> .....	2	†hP	blue	½	10	Useful; border or greenhouse.
87910 <i>Trachymene cœrulea</i> ( <i>Didiscus</i> )	. .	hA	. .	. .	5	Fine, long-blooming annuals.
87930 † <i>Trichosanthes colubrina</i> .....	3	tA	white	10	10	} (Snake Gourd, or Serpent Cu- cumber.) So called from the shape of its fruit.
87940 <i>coccinea</i> .....	2	. .	yellow	. .	10	
87950 <i>palmata</i> .....	3	. .	white	15	10	
87970 <i>Trifolium suaveolens</i> .....	2	hP	purple	tra.	5	An ornamental clover.
87990 <i>Tritoma Uvaria grandiflora</i> ...	2 3	hhP	or.-red	3	10	} (Red-hot-poker Plant.) Has showy spikes of bloom.
88000 <i>MacOwani</i> .....	. .	. .	r. & yel.	1½	25	
88020 <i>Trollius</i> , Mixed Hybrids .....	1 2	hP	mixed	. .	10	} (Globe Flower.) For beds or borders.
88040 † <i>TROPÆOLUM canariense</i> ...						
88050 <i>pentaphyllum</i> .....	2 3	hhA	yellow	10	5	
88060 <i>tricolor grandiflorum</i> .....	. .	gP	or. & y.	. .	15	
88080 <i>Tunica Saxifraga</i> .....	. .	hP	or. & br.	. .	25	
88100 <i>Tydæa hybrida grandiflora</i> ...	. .	hhP	white	1	5	Pretty for rockwork.
88120 <i>Valeriana alba</i> .....	2	gP	mixed	. .	50	Popular greenhouse plant.
88130 <i>rubra</i> .....	1 2	†hB	white	3	5	} Fine border plants; sweet- scented flowers.
	. .	. .	red	. .	5	
88160 <i>Venidium calendulaceum</i> .....	2 3	hhA	orange	1	5	} Beautiful for borders or pots. Flowers the entire season.
88180 VENUS' LOOKING-GLASS ..						
88190 White .....	1 2	hA	blue	¾	5	} (Specularia.) Pretty edging plant. 88200 gives about 50 per cent of double flowers.
88200 Double Blue .....	1 2	hA	white	. .	5	
88210 Mixed .....	. .	. .	blue	. .	10	
88214 <i>grandiflora</i> , Mixed. Large- flowered .....	. .	. .	mixed	. .	5	
88220 <i>Venus' Navelwort</i> ( <i>Cynoglossum linifolium</i> ) .....	2	. .	. .	1	5	} A handsome border flower. Easily grown.
88240 <i>Verbascum pannosum</i> .....	. .	hP	yellow	5	10	
<i>Verbena hybrida</i> .....						Decorative plant. Woolly lvs. See page 109.
<i>Verbena</i> ( <i>Aloysia</i> ) <i>citriodora</i> ...						See page 109.
88280 <i>Veronica</i> , Mixed .....	. .	. .	mixed	½	10	Pretty for borders; fine colors.
88300 <i>Vicia Gerardii</i> .....	2 3	hA	violet	4	5	Pretty pea-shaped flowers.
88330 VINCA <i>alba</i> . Pure white .....	. .	tP	white	1	10	} Fine for conservatory, parlor windows and borders or beds; very pretty.
88340 <i>rosea</i> .....	. .	. .	rose	. .	10	
88350 — <i>alba</i> .....	. .	. .	ro. & w.	. .	10	
88360 —Mixed .....	. .	. .	mixed	. .	10	

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88380	VIOLET, Sweet-scented.....	1 2	tP	blue	½	10	} (Viola.) All have great beauty and fragrance. Seed takes a long time to germinate.
88390	The Czar .....	. . .	. . .	. . .	. . .	10	
88400	White .....	. . .	. . .	white	. . .	10	
88420	VIOLA cornuta, Purple Queen .	. . .	. . .	purple	. . .	10	
88430	—Mauve Queen .....	. . .	. . .	. . .	. . .	10	} Fine and early-flowering. See Violet above.
88434	—White Perfection.....	. . .	. . .	white	. . .	10	
88440	—alba .....	. . .	. . .	. . .	. . .	10	
88444	pedunculata (California Yellow Violet).....	. . .	. . .	yellow	. . .	25	
88460	VIRGINIAN STOCK ..oz., 25c.	. . .	hA	red	1	5	} ( <i>Malcolmia maritima</i> .) Early-flowering and fine.
88470	White .....	. . .	. . .	white	. . .	5	
88480	Crimson King .....	. . .	. . .	crim.	. . .	5	
88510	Viscaria elegans picta.....	2 3	. . .	sc. & w.	1½	5	} Abundant-blooming, hardy annuals, very effective in massing. They are easily grown, and succeed best in light, rich loam. 88544 is a very fine, pure white variety.
88520	oculata .....	. . .	. . .	rose	¾	5	
88530	—cœrulea .....	. . .	. . .	blue	. . .	5	
88540	—alba .....	. . .	. . .	white	. . .	5	
88544	—candida.....	. . .	. . .	p. wh.	. . .	20	
88550	—Mixed .....	. . .	. . .	mixed	. . .	5	
88570	WALLFLOWER, Brown.oz., 30c.	1 3	tP	brown	1½	5	
88580	Aurora.....	. . .	. . .	cham.	. . .	5	} ( <i>Cheiranthus Cheiri</i> .) Favorite sweet-scented flowers, of fine colors; useful as spring bedders. Nos. 88686 and 88690 are most valuable, flowering the first season from seed.
88590	White Gem .....	. . .	. . .	sul. wh.	. . .	5	
88600	Yellow.....	. . .	. . .	yellow	. . .	5	
88610	Harbinger, Early.....	. . .	. . .	golden	. . .	5	
88614	Vulcan. Half dwarf.....	. . .	. . .	red	1-1½	10	
88620	Mixed .....	. . .	. . .	mixed	. . .	5	
88630	—Tom Thumb .....	. . .	. . .	. . .	1	10	
88640	—Tall Double Branching....	. . .	. . .	. . .	1½	25	
88650	Double Dwarf Branching Golden Yellow ...	. . .	. . .	yellow	¾	25	
88660	— — —Dark Brown .....	. . .	. . .	brown	. . .	25	
88670	— — —Mixed .....	. . .	. . .	mixed	. . .	25	
88680	German Double .....	. . .	. . .	. . .	1½	25	
88686	Paris Single Light Brown...	3	†hA	lt. br.	. . .	5	
88690	—Single Annual .....	. . .	. . .	mixed	. . .	5	
COLLECTIONS, including—							
88700	12 vars. Double German....					\$1 00	
88710	8 vars. Double German....					80	
88720	6 vars. Double German....					65	
Wax Gourd.....							See <i>Benincasa cerifera</i> , p. 115.
88740	Whitlavia grandiflora .oz., 30c.	. . .	hA	purple	. . .	5	} Pretty bell-shaped flowers; free-flowering.
88750	—alba .....	. . .	. . .	white	. . .	5	
88760	gloxinioides.....½oz., 15c.	. . .	. . .	b. & w.	. . .	5	
88800	Wigandia Vigieri .....	2 3	†tP	red	4	10	} Fine tropical leaves.
88810	caracasana .....	. . .	. . .	violet	. . .	10	
88830	XERANTHEMUM annuum...	2	hA	purple	2	5	} One of the oldest Everlastings; the flowers retain their color and form longest of all.
88840	—album .....	. . .	. . .	white	. . .	5	
88850	—multiflorum .....	. . .	. . .	purple	. . .	10	
88860	— — —album.....	. . .	. . .	white	. . .	10	
88864	—imperiale fl. pl. ....	. . .	. . .	purple	. . .	10	
88870	COLLECTION including 6 vars....					35	
88890	Yucca filamentosa .....	2 3	hP	gr. & w.	3	10	} Very showy, attractive plants for the subtropical garden; many large white flowers.
88900	gloriosa .....	. . .	. . .	. . .	4	10	
Zinnia .....							See page 109.

MIXED ANNUALS FOR WILD GARDEN, ETC.

Bright-colored, summer-flowering, easily grown hardy annuals in the greatest variety for sowing broadcast.

- 88950 Mixed Tall. Per oz., 10 cts.; ¼lb., 30 cts.; ½lb. 55 cts.; lb., \$1, postpaid.
- 88960 Mixed Dwarf and Semi-dwarf. Per oz., 10 cts.; ¼lb. 30 cts.; ½lb. 55 cts.; lb., \$1, postpaid.
- 88980 Mixed Annuals for Bees. Per oz., 10 cts.; ¼lb., 30 cts.; ½lb., 55 cts.; lb., \$1, postpaid.

LIST OF EVERLASTING FLOWERS

- Acroclinium
- Catananche
- Helichrysum
- Palafoxia
- Xeranthemum
- Annobium
- Gomphrena
- Helipterum
- Rhodanthe
- Ornamental Grasses

## ORNAMENTAL GRASSES

Many of these Grasses, if cut before they are entirely ripe, will be found useful in the formation of winter bouquets, in connection with the Everlastings.

NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time of Flowering	Hardiness and Duration	Color of the Flower	Height in Feet	Price per Packet	GENERAL OBSERVATIONS
89000 * <i>Agrostis nebulosa</i> .....	2	hA	apet.	1	10	} Very fine for vases and bouquets. The plumes of <i>A. nebulosa</i> are very delicate.
89010 pulchella .....	.	.	.	1	10	
89020 minutiflora .....	.	.	.	1	10	
89040 * <i>Andropogon argenteus</i> .....	3	hP	.	3	10	Silky flowers, white hairs.
89060 <i>Arundo Donax</i> .....	.	.	.	10	10	} Subtropical plants of stately growth; ornamental habit.
89070 *—fol. variegatus .....	.	.	.	10	10	
89090 <i>Avena sterilis</i> .....	2 3	hA	.	3	5	(Animated Oats.) Curious.
89110 <i>Briza geniculata</i> .....	2	.	.	1	5	} (Quaking Grass.) No. 89130 is very pretty for bouquets.
89120 gracilis .....	.	.	.	5	5	
89130 maxima .....	.	.	.	1½	5	
89150 <i>Brizopyrum siculum</i> .....	.	.	.	¾	5	Dwarf species of Spike Grass.
89170 <i>Bromus brizæformis</i> ... oz., 25c.	.	.	.	3	5	} No. 89170 is very fine for winter bouquets. To this genus belongs the Cheat Grass.
89180 macrostachys ... oz., 25c.	.	.	.	5	5	
89190 madritensis .....	.	.	.	5	5	
89230 <i>Chloris barbata vera</i> .....	.	.	.	1	10	For groups and for baskets.
89250 <i>Chrysurus cynosuroides</i> .....	.	.	.	5	5	Pretty for edgings.
89270 <i>Coix Lacryma</i> oz., 15c., lb., 50c.	2 3	.	.	1½	5	} (Job's Tears.) Seed resembles a tear-drop.
89280 —aurea zebrina .....	.	.	.	5	5	
89300 <i>Cryptopyrum Richardsoni</i> .....	2	.	.	2	5	Very fine Grass.
89320 <i>Eleusine barcinonensis</i> .....	2 3	.	.	1	5	} (Crab, or Yard Grass.) <i>E. indica</i> is the Wire Grass.
89330 coracana .....	.	.	.	5	5	
89340 indica .....	.	.	.	5	5	
89350 <i>Elymus giganteus</i> .....	2	hP	.	5	5	
89360 <i>Eragrostis elegans</i> ... oz., 25c.	.	hA	.	1	5	} Pretty Grasses, growing about a foot high, and characterized by their beautiful, dancing spikelets; fine for bouquets. No. 89360 is Love Grass.
89370 amabilis .....	.	.	.	5	5	
89380 abyssinica .....	.	.	.	5	5	
89390 maxima .....	.	.	.	10	5	
89400 suaveolens .....	.	.	.	5	5	
89420 <i>Erianthus Ravennæ</i> ... ¼ oz., 15c.	2 3	hP	.	6-8	5	(Plume Grass.) Very stately.
89440 <i>EULALIA japonica</i> ... ¼ oz., 20c.	.	.	.	5	10	} Among the most beautiful of the tall-growing grasses.
89450 —zebrina .....	.	.	.	10	10	
89470 <i>Festuca glauca</i> .....	.	.	.	2	15	(Fescue Grass.) Ornamental.
89490 <i>Gymnothrix caudata</i> .....	.	.	.	5	5	} Grown chiefly as curious and ornamental grasses; very striking.
89500 japonica .....	.	.	.	2-3	10	
89510 latifolia .....	.	.	.	4	5	
89530 * <i>Gynerium argenteum</i> ¼ oz., 20c.	.	.	.	10	10	} (Pampas Grass.) This is the noblest of the tall-growing grasses, and bears magnificent plumes.
89550 *—roseum .....	.	.	.	10	10	
89560 jubatum .....	.	.	.	10	10	
89580 <i>Hordeum jubatum</i> .....	.	hA	.	2	5	(Squirrel-tail Grass.)
89600 <i>Isolepis gracilis</i> .....	.	tP	.	½	25	Very pretty rush-like grass.
Job's Tears .....	.	.	.	.	.	See <i>Coix Lacryma</i> , above, 89270
89620 <i>Lagurus ovatus</i> ... oz., 25c	.	hA	.	2	5	(Hare's-tail Grass.)
89640 <i>Lasiagrostis argentea</i> .....	.	hP	.	3	5	Fine for winter bouquets.
89660 <i>Panicum sulcatum</i> .....	.	hA	.	10	10	Very showy and hardy.
89680 <b>PENNISSETUM villosum</b> .....	.	.	.	1½	5	} Ornamental grass. 89690 has beautiful crimson plumes.
oz., 30c.	.	.	.	3	5	
89690 <i>Rueppelianum</i> ... oz., 30c.	.	.	crim.	3	5	
89710 <i>Poa amabilis</i> .....	.	.	apet.	2	10	Pretty for bouquets and edgings.
89730 <i>Setaria alopecuroides nigra</i> .....	.	.	.	5	5	Graceful black spikes.
89750 * <i>Stipa pennata</i> ... ¼ oz., 20c.	2	hP	.	10	10	} (Feather Grass.) Grown for its very graceful plumes.
89760 elegantissima .....	.	.	.	10	10	
89780 <i>Tricholæna atropurpurea</i> .....	2 3	hA	.	5	5	A very pretty grass.



NUMBER AND NAME <i>Not less than one ounce of the cheaper sorts at ounce rate</i>	Time	Hardness	Color of	Height	Price	GENERAL OBSERVATIONS
	of Flowering	and Duration	the Flower	in Feet	per Packet	
89800 <i>Zea japonica</i> fol. variegata . 2oc.	2	hA	apet.	3	5	Ornamental varieties of Corn. Nos. 89800 and 89810 have beautifully striped leaves. No. 89820 is the Miniature Maize.
89810 —quadricolor gigantea... 2oc.	.	.	.	.	5	
89820 <i>gracillima</i> (minima)..... 2oc.	.	.	.	.	5	
89830 <i>Caragua</i> ..... 2oc.	.	.	.	6	5	
89840 <i>tunicata</i> fol. variegata.....	.	.	.	.	5	
<b>Mixed Ornamental Grasses—</b>						
89880 Mixed Tall..... 2oc.	.	.	.	4	5	These mixtures contain all the standard sorts.
89900 Mixed Dwarf..... 3oc.	.	.	.	2	5	

**Collections of Ornamental Grasses**

89940	25 varieties Ornamental Grasses, one packet of each.....	\$0 80
90000	12 varieties Ornamental Grasses, one packet of each.....	50

**CHOICE COLLECTIONS OF FLOWER SEEDS (Free by mail)**

93000	12 Dwarf Annuals	50 cts.	93080	12 Dwarf Perennials	\$1
	1 packet each			1 packet each	
Asters, Mixed	Mignonette		<i>Alysine pinifolia</i>	<i>Gypsophila cerastoides</i>	
Candytuft, Mixed	Nasturtium, Dwarf, Mixed		<i>Alyssum saxatile compactum</i>	<i>Leontopodium</i> (Edelweiss)	
Convolvulus, Dwarf, Mixed	Phlox Drummondii, Mixed		<i>Arabis alpina</i>	<i>Lychnis Haageana</i> Hybrids	
Eschscholtzia, Mixed	Portulaca, Single, Mixed		<i>Campanula grand. Mariesii</i>	Pinks, Mixed	
Larkspur, Dwf. Rocket, Mixed	Sweet Alyssum		<i>Candytuft gibraltaria</i>	Primrose, Yellow	
Marigold, Dwf. French, Mixed	Zinnia, Dwarf, Mixed		<i>Daisy, Double, Mixed</i>	Snappedragon, Dwarf, Mixed	
93020	12 Tall Annuals	50 cts.	93120	12 Tall Perennials	85 cts.
	1 packet each			1 packet each	
<i>Centaurea cyanus</i> , Mixed	Marigold, African, Mixed		<i>Aquilegia</i> , Mixed	Galega	
Clarkia, Mixed	Malope, Mixed		<i>Centaurea candidissima</i>	<i>Lupinus polyphyllus</i>	
Collinsia, Mixed	Poppy, Mixed		Coreopsis	Phlox decussata	
Cosmos, Mixed	Scabiosa, Tall, Mixed		Delphinium, Mixed	Poppy orientale	
Larkspur, Tall Rocket, Mixed	Sunflower		Foxglove	Scabiosa caucasica	
Lupinus, Mixed	Zinnia, Tall, Mixed		Gaillardia	Sweet William	
93040	12 Annual Climbers	60 cts.	93140	12 Everlastings (1 pkt. ea.)	50 cts.
	1 packet each		93180	12 Varieties Greenhouse seeds	\$2
Canary-Bird Flower	Maurandya, Mixed			1 packet each	
Cypress Vine	Nasturtium, Tall, Mixed		<i>Asparagus plumosus nanus</i>	<i>Geranium zonale</i>	
Calamellis scabra	Sweet Peas, Mixed		<i>Begonias</i> , Single, Tuberosus-rooted	<i>Heliotropium</i> , Fine Mixed	
Dolichos Lablab, Mixed	Thunbergia, Mixed		<i>Calceolaria hybrida</i> , Large-flowered, Self-colored	<i>Primula obconica grandiflora</i>	
Gourds, Mixed	Vicia Gerardi		<i>Cineraria hybrida</i> , Mixed	<i>hybrida</i> , Mixed	
<i>Humulus japonicus</i>			<i>Coleus</i> , Fine Hybrids	<i>Primula chinensis</i> fimbriata, Extra-fine Mixed	
Imperial Japanese Morning-Glory			<i>Cyclamen giganteum</i> , Mixed	Smilax	
				<i>Stevia serrata</i>	
			93200	12 Annuals for Bees (1 pkt. ea.)	50c.

**PALM SEEDS**

Imported direct from approved sources in Australia, New Zealand, South America, West Indies, etc. Fresh seeds arrive as the various species mature, the greater number coming during the spring and summer. The seeds are slow in starting, and the germinating period varies, according to the variety, from three weeks to three months. The young plants should be potted in 3-inch pots in a compost of rotted sods, leaf-mold and sand, and well watered. They grow slowly. As soon as the roots begin to crowd, the plants should be lifted into larger pots, special attention being given to secure good drainage. They do well in partial shade, and to keep the soil cool and to prevent it from quickly drying out, it is well to cover the surface with sphagnum moss. They must be kept in an even temperature. Our friends are invited to let us book their orders, to be sent from time to time as fresh shipments arrive.

	Pkt.	100 seeds		Pkt.	100 seeds
<i>Areca lutescens</i> .....	15	seeds, \$0 25	<i>Geonoma gracilis</i> .....	15	seeds, \$0 25
<i>sapida</i> .....	10	" 10 75	<i>Kentia Belmoreana</i> .....	15	" 25 1 25
<i>Brahea filifera</i> (Washing-tonia).....	30	" 10 25	<i>Canterburyana</i> (Umbrella Palm).....	8	" 50
<i>robusta</i> .....	25	" 10 30	<i>Forsteriana</i> .....	15	" 25 1 50
<i>Chamærops elegans argentea</i> .....	15	" 10 50	<i>Latania borbonica</i> .....	25	" 10 30
<i>excelsa</i> .....	30	" 10 25	<i>Musa ensete</i> (Abyssinian Banana).....	15	" 25 1 50
<i>Cocos australis</i> .....	15	" 20 1 00	<i>Oreodoxa regia</i> (Royal Palm).....	15	" 20 1 00
<i>Bonnetii</i> .....	15	" 25 1 25	<i>Pandanus utilis</i> (Screw Pine)	8	" 15 1 50
<i>campestris</i> .....	15	" 20 1 00	<i>Phoenix canariensis</i> .....	15	" 10 40
<i>Weddelliana</i> .....	15	" 25 1 50	<i>dactylifera</i> (Date Palm).....	15	" 10 50
<i>Corypha</i> ( <i>Livistona</i> ) <i>australis</i> (Cabbage Palm).....	10	" 10 75	<i>reclinata</i> .....	8	" 10 80
<i>Dracæna australis</i> .....	20	" 15 50	<i>rupicola</i> .....	15	" 25 1 25
<i>indivisa</i> .....	25	" 10 25	<i>tenuis</i> .....	15	" 10 40
<i>indivisa lineata</i> .....	15	" 10 50	<i>Seaforthia elegans</i> .....	8	" 10 75
<i>Draco</i> .....	30	" 25 50			

Collection of 10 varieties of Palm seeds, by name, our selection, \$1

Throughout the year we have *Cycas revoluta* stems (Sago Palms) in various sizes direct from Japan. Lb. 15 cts.

# GLADIOLI

Gladioli are very easily grown. Any good soil suits them. Plant 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. Those marked with an asterisk (\*) are used extensively for forcing.

## NEW YELLOW GLADIOLI

**PRIMULINUS.** Scarce. Rare species from Victoria Falls, South Africa; grows 3 or 4 feet tall and is very vigorous. The flowers are of good size and are a clear primrose-yellow. Blooms late in July. 35 cts. each, \$3.50 per doz., \$22 per 100.

**PRIMULINUS Hybrids.** Hybrids of the above, with many related species and choice garden varieties. Extremely vigorous and healthy growers, blooming in July and August. Grows 3 to 5 feet high, with long spikes of richly colored blooms, varying in color from clear yellow to crimson, the latter with large, soft orange or golden throats. 20 cts. each, \$1.50 per doz., \$10 per 100.

## THORBURN'S EXTRA-FINE MIXED HYBRIDS

Containing only finest named sorts in a wide range of colors and markings. 65 cts. per doz., \$4.50 per 100, \$40 per 1,000.

### VARIOUS MIXED GLADIOLI

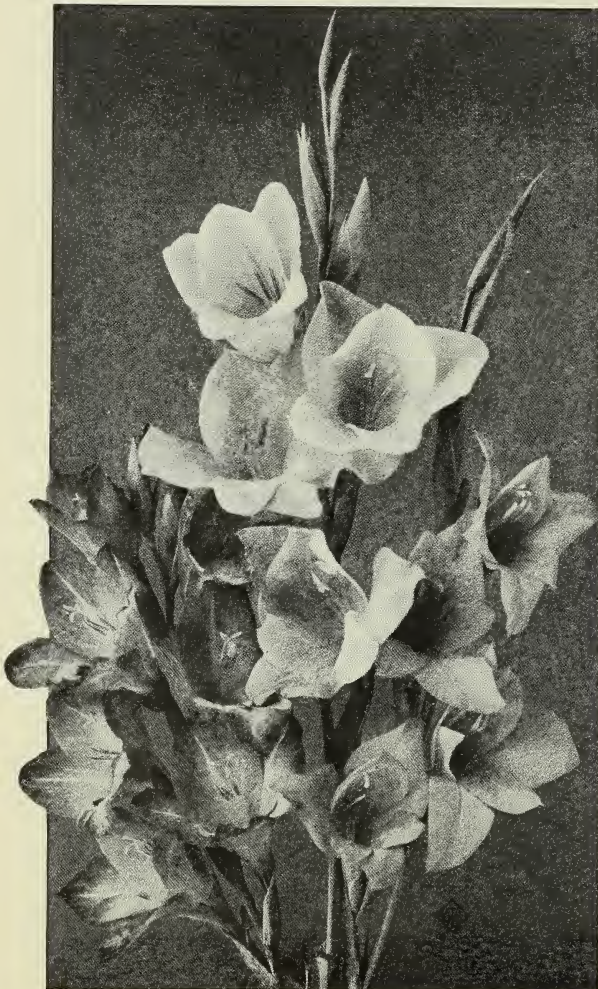
6 of a kind at dozen rates, 25 at 100 rates, 250 at 1,000 rates

Mixed Varieties of Red and Scarlet.	Doz.	100	1,000
Extra fine.....	\$0 30	\$2 00	\$16 00
" White and Light. Standard selection.....	35	2 25	18 00
" White and Light. Extra fine for florists' use.....	50	3 50	28 00
" Striped and Variegated.....	45	3 00	25 00
" Pink and Rose. Extra fine.....	35	2 25	18 00
" Yellow and Orange. Hybrids. All colors.	65	4 50	38 00
" Groff's Hybrid Seedlings.....	30	1 75	14 00
" Lemoine's. Fine, bright colorings and odd markings	30	2 00	16 00
" Childsii. Superb, large flowered ...	40	2 50	20 00

### FINE NAMED HYBRID GLADIOLI (Gandavensis)

6 of a kind at dozen rates

Amalthee. Pure white, large violet-red blotch; ground of the corolla velvety violet, lower petals slightly tinged lilac.....	Each	Doz.
.....	\$0 12	\$1 25
Angele. White; showy and effective.....	12	1 25
*Augusta. Beautiful pure white, with blue anthers. per 100, \$4..	06	60
Baron Hulot. Also called Blue Jay. Blue.....	15	1 50
Brenchleyensis. Bright vermilion-scarlet... per 100, \$2.50..	05	40
Carnation. Flesh-white, tinged carmine at the edges, the lower petals blotched purplish carmine.....	12	1 25
*Ceres. Pure white, spotted with purplish rose.. per 100, \$3.50..	06	60



GLADIOLUS PRIMULINUS

FINE NAMED HYBRID GLADIOLI (GANDAVENSIS), continued

	Each	Doz.		Each	Doz.
<b>Chicago.</b> Compact spike. Dark car- mine-red, with almost black stripes, large white blotch and center band.	\$0 12	\$1 25	<b>*May.</b> Fine pure white, flaked rosy crimson; superb spike. One of the best for forcing.	06	\$0 60
<b>Conquete.</b> Bright cherry-red, with pure white blotch; upper petals striped rose; large flowers.	12	1 25	<b>Mr. A. Brongniart.</b> Rose ground, slightly tinged with orange and flamed with red; large white blotch.	12	1 25
<b>Crepuscule.</b> Splendid spike; flowers lilac-rose, flushed carmine, with violet on the edges of the petals.	12	1 25	<b>Mr. Jansen.</b> Large; rosy carmine, edged and streaked violet-red, with cream-colored blotch.	12	1 25
<b>Demosthene.</b> Bright rose, flamed carmine, streaked white, bright center, blotched violet-carmine; dwarf habit.	12	1 25	<b>MRS. FRANCIS KING.</b> Light scarlet; lovely.	10	80
<b>DIAMANT.</b> Extra-large flowers, flesh-white, with ivory-white throats, blotched and streaked carmine.	20	1 75	<b>Neron.</b> Tall spike; dark crimson, suffused with dark blood-red and violet.	12	1 25
<b>Emma Thursby.</b> Carmine, striped on white ground.	06	60	<b>Octoroon.</b> Beautiful salmon-pink.	10	80
<b>Escarboucle.</b> Dark carmine-red, pure white band and blood-red.	12	1 25	<b>Pactole.</b> Yellow, tinged with rose at the edges; blotch of a darker shade.	12	1 25
<b>*Eugene Scribe.</b> Fine tender rose, blazed carmine; very large and wide flowers.	10	1 00	<b>POTENTAT.</b> Carmine-rose, blotched scarlet, edged yellow.	20	1 75
<b>Feu Follet.</b> Well-opened flowers with ivory-white throats, richly tinted and striped with carmine at the edges.	12	1 25	<b>PRINCEPS.</b> Glowing crimson, with white flakes on lower petals. Flowers are remarkable for size and brilliancy.	15	1 50
<b>Fra Diavolo.</b> Bright orange-rose, flushed violet-red at edges; pale yellow blotch.	12	1 25	<b>Proserpine.</b> Large, cherry-red flowers, banded with slate-color; tall spike.	12	1 25
<b>Grandesse.</b> Large, well-opened flower; petals flesh-white, slightly suffused with lilac. Carmine blotch.	12	1 25	<b>Rossini.</b> Dark amaranth-red, streaked and blotched white.	12	1 25
<b>*Isaac Buchanan.</b> Very fine yellow.	10	80	<b>SCEPTRE DE FLORE.</b> Large flowers of the richest rose-color, with white throat, spotted carmine; lower petals blotched carmine, with white band.	20	1 75
<b>*Lamarck (de).</b> Large flowers, cherry-tinted orange, blazed red, stained white.	05	50	<b>*Shakespeare.</b> White, slightly suffused carmine-rose; large rosy blotch.	12	1 25
<b>*Madame Monneret.</b> Delicate rose.	10	70	<b>Suffren.</b> Bright cherry-rose, blotched carmine and with violet center stripe.	12	1 25
<b>Matador.</b> Fine spike, flowers brilliant carmine, striped and blotched white.	20	2 00	<b>Surprise.</b> Rose-amaranth; very late-blooming variety.	10	75
<b>Madame Poret.</b> Large spikes of coppery rose-colored flowers, with slight golden blotch.	12	1 25	<b>Thermidor.</b> Large, salmon-red flowers, flushed and edged slaty gray.	12	1 25
<b>Magnificus.</b> Very large flowers, round and open; cinnabar-red with white blotch, edged violet.	20	2 00	<b>Tigridia.</b> Flowers salmon-yellow, flamed with rosy carmine.	12	1 25
			<b>Titania.</b> Beautiful, tall spike; flowers creamy salmon, flamed cherry.	12	1 25
			<b>Van Dael.</b> Large flowers of a delicate salmon-rose at the center, streaked with blood-red at the top of the petals.	12	1 25

FINE NAMED HYBRID GLADIOLI (LEMOINEI)

<b>LAFAYETTE.</b> A large, very fine flower, crimson-red blotch on a salmony white ground.	Each \$0 15	Doz. \$1 50	<b>Precurseur.</b> Bright rosy lilac with a brilliant carmine-red blotch on a white ground. Very early.	Each 15	Doz. 1 50
<b>Madrilene.</b> Bright salmony rose with velvety carmine blotch on a creamy white ground.	15	1 50	<b>Professor Le Monnier.</b> Large flowers, sharp petals; orange-scarlet; dark blotches edged golden yellow.	15	1 50

GIANT CHILDSII GLADIOLI

Very tall and erect, often 4 or 5 feet high, with spikes of bloom over 2 feet long. The flowers are of great substance and of gigantic size, frequently 7 to 9 inches across. Every color known among Gladioli.

<b>*AMERICA.</b> Soft flesh-pink, tinged lavender; erect spike. Strikingly beautiful.	Each \$0 10	Doz. \$1 00	<b>Irene.</b> Pink, freely flaked bright crimson.	Each \$0 10	Doz. \$1 00
<b>Attraction.</b> Deep, rich crimson, pure white throat.	10	1 00	<b>Little Blush.</b> Dwarf habit; compact spike of bluish-white flowers.	10	0 75
<b>Deborah.</b> Dark red, pure white throat.	10	1 00	<b>Oddity.</b> Amaranth-red, throat mottled red and white.	10	75
<b>Dr. Sellow.</b> Large spike; deep, rich, rosy crimson, penciled darker.	10	1 00	<b>Rosy Spray.</b> White, sprayed rose.	12	1 25
<b>F. L. Oakley.</b> Bright salmon, tinged scarlet, with pure white center. Very showy.	10	1 00	<b>Salem.</b> Fine salmon-pink, maroon blotches.	10	75
<b>Henry Gillman.</b> Deep salmon-scarlet, with pure white bands through each petal; throat peculiarly mottled.	10	75	<b>Sunlight.</b> Light crimson, canary-yellow throat.	10	75
			<b>Superb.</b> Pink, flaked and striped; enormous flower; immense spike.	10	1 00
			<b>Wm. Falconer.</b> Enormous size; beautiful clear light pink.	12	1 25

# DAHLIAS (Double)

6 of a kind at dozen rates



CACTUS DAHLIA, MRS. CHAS. TURNER

## CACTUS

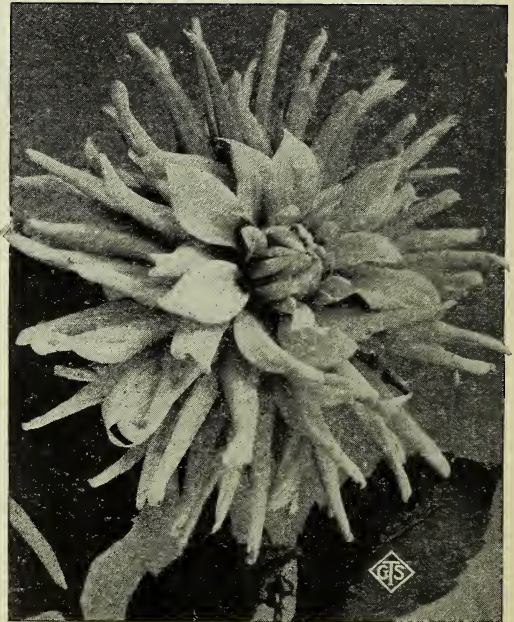
	Each	Doz.
<b>Brunhilde.</b> Dark, rich plum-color; fine flower.....	\$0 15	\$1 50
<b>CAPSTAN.</b> Soft brick-red, shaded apricot; profuse bloomer.....	15	1 50
<b>Cinderella.</b> Dark purple-maroon; petals long and pointed. Early and free.	15	1 50
<b>EARL OF PEMBROKE.</b> Bright plum, deeper toward center.....	15	1 50
<b>Elsa.</b> White, suffused and edged pink.	20	2 00
<b>Estrella.</b> Large, pure white flowers of fine shape.....	15	1 50
<b>Eva.</b> Beautiful dwarf white. Profuse bloomer; fine for cutting.....	20	2 00
<b>Gabriel.</b> Soft velvety crimson petals, tipped pure white; petals incurved..	15	1 50
<b>Genesta.</b> Amber, shading to golden yellow at center; long, stiff stems....	15	1 50
<b>Gloriosa.</b> Splendid crimson; true Cactus form.....	15	1 50
<b>J. H. Jackson.</b> Very large; rich, velvety maroon.....	20	2 00
<b>J. W. Wilkinson.</b> Deep reddish plum-color; petals very long and narrow..	15	1 50
<b>Kriemhilde.</b> Deep rosy pink, lighter toward center. Distinct; fine for cutting. <i>See illustration</i> .....	20	2 00
<b>MRS. CHAS. TURNER.</b> Bright lemon-yellow; long, pointed petals; perfect form. Exquisite. <i>See illustration</i> .....	15	1 50
<b>Mrs. J. P. Clark.</b> Long, incurving petals, with various combinations of color, from soft reddish apricot to pink and white.....	15	1 50
<b>Mrs. George Stevenson.</b> Very large; clear canary-yellow. The best yellow Cactus.....	20	2 00

## CACTUS DAHLIAS, continued

	Each	Doz.
<b>Ruby.</b> Bright ruby-red. Fine.....	\$0 20	\$2 00
<b>ST. CATHERINE.</b> Deep yellow, shaded red.....	15	1 50
<b>UNCLE TOM.</b> Jet-black, passing to maroon, with a satiny sheen.....	15	1 50
<b>White Swan.</b> Beautiful pure white....	20	2 00

## DECORATIVE

	Each	Doz.
<b>ADMIRAL DEWEY.</b> Brilliant purple; fine form; strong grower.....	\$0 15	\$1 50
<b>Black Prince.</b> Shaded deep maroon, almost black.....	15	1 50
<b>Blue Oban.</b> Lavender-blue; long stems	15	1 50
<b>Catherine Duer.</b> Crimson-scarlet; long, stiff stems. Very fine.....	15	1 50
<b>C. W. BRUTON.</b> Very large; clear canary-yellow; profuse bloomer; long stems.....	15	1 50
<b>Cyclops.</b> Rich crimson, flushed lighter; long, straight, stiff stems.....	15	1 50
<b>Eureka.</b> Deep rose blooms of good size. Valuable for cutting.....	15	1 50
<b>JACQUE ROSE.</b> Crimson, a shade darker and richer than the celebrated General Jacqueminot rose. Planted May 1, comes into bloom early in June and continues flowering until cut down by frost in October. Flowers are full to center and are borne on long stems. Fine for cutting. <i>See illustration, page 137..</i>	20	2 00
<b>Jumbo.</b> Deep crimson flowers, shaded maroon, on stout stems; elegant form.....	20	2 00



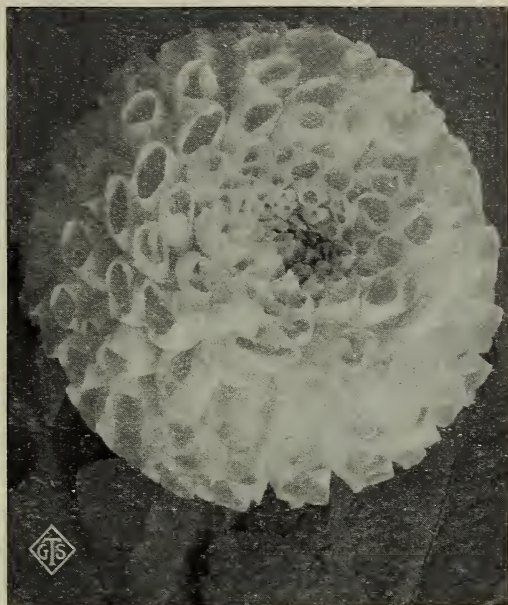
CACTUS DAHLIA, KRIEMHILDE

DECORATIVE DAHLIAS, continued

<b>LORD LYNDHURST.</b> Intense ver-	Each	Doz.
million-scarlet; fine grower; very		
prolific; long stems.....	\$0 15	\$1 50
<b>MAID OF KENT.</b> Rich cherry-red,		
tipped white; fine flower.....	15	1 50
<b>Nymphæa.</b> White, suffused light		
shrimp-pink. One of the most deli-		
cately beautiful sorts.....	15	1 50
<b>ORANGE KING.</b> Rich, glowing		
orange; very early; profuse bloomer.	15	1 50
<b>Prof. Mansfield.</b> Rich yellow, with		
clear white tips and a slight mark-		
ing of rosy red toward the center;		
immense flower.....	20	2 00
<b>Souvenir de Gustave Douzon.</b> At-		
tractive orange-red flowers of im-		
mense size.....	15	1 50
<b>SYLVIA.</b> Deep pink tinting to flesh-		
pink at center; large, perfectly		
formed flowers on long, stiff stems.		
One of the best for cutting.....	15	1 50
<b>Xanthia.</b> Dark purple, with crimson,		
reflexed center; very fine.....	15	1 50
<b>ZULU (The Black Dahlia).</b> Very dark		
maroon, almost black. Great favor-		
ite.....	15	1 50

SHOW AND FANCY

<b>A. D. LIVONI.</b> Soft pink; quilled	Each	Doz.
petals; profuse bloomer. One of the		
best of all Show Dahlias.....	\$0 15	\$1 50
<b>ARABELLA.</b> Pale primrose, tipped		
and shaded old-rose; profuse bloom-		
er; large flowers of perfect form....	15	1 50
<b>ENCHANTRESS.</b> Pure white; fine		
form; free bloomer. Fine for cut-		
ting.....	15	1 50



SHOW DAHLIA, GRAND DUKE ALEXIS

SHOW AND FANCY DAHLIAS, continued

<b>Camellia Flora.</b> Pure white flow-	Each	Doz.
ers of great substance. Dwarf		
grower.....	\$0 15	\$1 50
<b>GRAND DUKE ALEXIS.</b> Pure white,		
slightly shaded delicate lavender.		
<i>See illustration.</i> .....	15	1 50
<b>JOHN WALKER.</b> Pure white; round,		
full form.....	15	1 50
<b>La Favorite.</b> Beautiful white, tinted		
green at base of petals; very long,		
stiff stems.....	15	1 50
<b>Lemon Ball.</b> Canary-yellow, tinted		
lemon. Full round flowers of me-		
dium size.....	15	1 50
<b>Mrs. Dexter.</b> Beautiful rich salmon;		
very attractive.....	15	1 50
<b>Penelope.</b> Pure white, flaked soft		
lavender.....	15	1 50
<b>Queen Victoria.</b> Rich golden yellow..		
15	1 50	
<b>Red Hussar.</b> Rich cardinal-red;		
strong, vigorous grower and free		
bloomer. Fine for cutting.....	15	1 50
<b>Striped Banner.</b> Crimson-scarlet,		
tipped white; semi-dwarf. Very ef-		
fective and unique.....	15	1 50
<b>SUNSET.</b> Golden yellow, shaded		
deeper; large, full, perfect flowers, on		
long stems well above the foliage..	15	1 50

POMPON

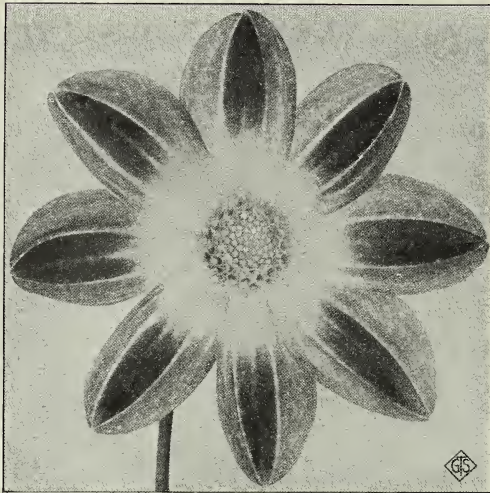
<b>Aillett's Imperial.</b> White, suffused	Each	Doz.
pink, tipped imperial purple.....	\$0 15	\$1 50
<b>COHANT.</b> Rose and white.....	15	1 50
<b>Guiding Star.</b> White; notched petals.	15	1 50
<b>Little Bessie.</b> Cream-white; quilled		
petals.....	15	1 50
<b>MARGUERITE.</b> Deep rose. Fine....	15	1 50
<b>ROSEBUD.</b> Rose, lilac and white....	15	1 50



DECORATIVE DAHLIA, JACQUE ROSE (see p. 136)

**NEW CENTURY DAHLIAS, SINGLE**

This new race of Single Dahlias was originated in the form of 20th Century varieties a few years ago, but the sorts here offered entirely outclass the original or 20th Century type. These newer varieties produce flowers of immense size, with exquisite blendings of shades and tints, borne on long stems, making them immensely valuable for cutting.



CENTURY DAHLIA, GLADYS

- |  |        |        |      |
|--|--------|--------|------|
| <b>Cardinal Century.</b> Very large; bright, rich cardinal-red; perfect color.....   | Each   | Doz.   |      |
|  | \$0 25 | \$2 50 |      |
| <b>FRINGED 20TH CENTURY.</b> A great improvement on the well-known 20th Century, but much larger. Color light rosy crimson, with lighter markings.....                       |        | 25     | 2 50 |
| <b>GLADYS CENTURY.</b> Distinct and beautiful. Center of petals rosy crimson, with rose-pink band on either side and white zone around the yellow center. See illustration.. |        | 20     | 2 00 |
| <b>MAROON CENTURY.</b> Deep maroon, shading to black; rich and effective..   |        | 20     | 2 00 |
| <b>Penciled Century.</b> Rose-pink, shaded cerise, penciled crimson. Distinct...   |        | 20     | 2 00 |
| <b>ROSE-PINK CENTURY.</b> Largest and best deep pink; enormous flowers on long stems (3 ft). Vigorous and continuous bloomer.....  |        | 20     | 2 00 |

**CANNAS, Dwarf Large-Flowering French**

Not less than 6 of a kind at dozen rate, 25 at the 100 rate

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-FOLIAGE VARIETIES**

**PINK-FLOWERING**

- |   |        |        |        |
|---|--------|--------|--------|
| <b>MARTHA WASHINGTON.</b> 3 feet. Extra-large, bright rose-pink flowers, often measuring over 5 inches across. Vigorous bloomer.....  | 3 Each | Doz.   | 100    |
|   | \$0 12 | \$1 20 | \$8 00 |
| <b>VENUS.</b> 4 feet. Splendid rosy pink flowers, with a mottled border of creamy yellow. Blooms splendidly, with heads erect and flowers bright, shedding the old ones as fast as the new ones appear..... | 12 I   | 20     | 8 00   |

**RED-FLOWERING**

- |   |        |        |        |
|---|--------|--------|--------|
| <b>Duke of Marlboro.</b> 4 feet. Dark, rich velvety crimson; fine, shapely flowers in large, well-filled trusses.....                                 | Each   | Doz.   | 100    |
|   | \$0 12 | \$1 00 | \$7 00 |
| <b>PILLAR OF FIRE.</b> 6 to 7 feet. The giant of its class; bright, crimson-scarlet flowers, borne in erect spikes. Continuous bloomer; striking..... | 12 I   | 00     | 7 00   |
| <b>President McKinley.</b> 2½ feet. Deep, rich crimson flowers; beautifully formed. Compact grower.....   | 12 I   | 00     | 7 00   |

**YELLOW-FLOWERING**

- |  |        |        |         |
|--|--------|--------|---------|
| <b>BUTTERCUP.</b> 3 feet. Finest pure, deep canary-yellow Canna in existence. Beautiful.....   | Each   | Doz.   | 100     |
|  | \$0 15 | \$1 50 | \$10 00 |
| <b>GLADIATOR.</b> 5 feet. Yellow flowers, spotted red. Strong and vigorous grower; its large flower-heads stand storms and hot sunshine better than any other variety. Continuous bloomer..... | 15 I   | 40     | 9 00    |

**VARIEGATED FLOWERS**

- |  |        |        |        |
|--|--------|--------|--------|
| <b>NIAGARA.</b> 3 feet. Rich, deep crimson flowers, with wide, irregular border of deep golden yellow..... | Each   | Doz.   | 100    |
|  | \$0 15 | \$1 40 | \$9 00 |
- One each of the above 8 sorts for 85 cts.

**BRONZE-FOLIAGE VARIETIES**

**PINK-FLOWERING**

- |  |        |        |        |
|--|--------|--------|--------|
| <b>EASTERN BEAUTY.</b> 4 feet. Fine shade of salmon and orange, changing, after a few days, to an attractive flesh-pink..... | Each   | Doz.   | 100    |
|  | \$0 12 | \$1 20 | \$8 00 |

**RED-FLOWERING BRONZE-FOL. CANNAS**  
**Brandywine.** 3½ feet. Magnificent, brilliant red flowers, with very dark foliage. . . . . \$0 12 \$1 20 \$8 00  
**Egandale.** 4 feet. Pretty cherry-red flowers, borne well above the foliage. . . . . 12 1 00 7 00  
**Mount Etna.** 4 feet. Brilliant crimson flowers; large erect trusses; dark purple foliage. . . . . 12 1 20 8 00  
 One each of the Pink- and Red-flowering Bronze-foliage Cannas (4 sorts) for 40 cts.

gigantic trusses. Foliage rich Each Doz. 100  
 coppersy bronze. A massive, sturdy grower, of stately habit. . . . . \$0 15 \$1 50 \$10 00  
**NEW YORK.** Foliage alone reaches 4 or 5 feet high; the leaves are large and broad and stand quite erect, thus showing their deep, rich, purple-plum-color on both sides. Has five or six flower-stalks at once on every well-fed plant, borne well above the foliage. The flowers measure 5 to 7 inches in diameter, have five petals, and are of a beautiful crimson-scarlet. . . . . 15 1 50 10 00  
**WYOMING.** 7 feet. Immense umbels of massive orange flowers; bronze-purple foliage. A splendid bedder. . . . . 15 1 25 8 00  
 One each of the above 4 sorts for 45 cts.

**ORCHID-FLOWERING VARIETIES**

**Indiana.** 6 feet. Golden orange, prettily marked and striped. Blossoms often 7 inches across. \$0 12 \$1 20 \$8 00  
**KING HUMBERT.** 4 feet. Bears immense, brilliant orange-scarlet flowers, streaked with crimson, in

ALL THE ABOVE ARE DORMANT ROOTS

**PAEONIES**

If wanted by mail, add 5 cts. each, for postage

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 shrubby decoration. They are all hardy.

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 (*Pæonia Chinensis*)**

	Each	Doz.
<b>Alba plena.</b> Pure white; fragrant. . . . .	\$0 30	\$3 00
<b>Boule de Neige.</b> Sulphury white; center leaves with rosy borders. . . . .	40	4 00
<b>Canary.</b> Sulphury white. . . . .	45	4 50
<b>Charlemagne.</b> Creamy white, center lilac and chamois. . . . .	40	4 00
<b>Comte de Niepperg.</b> Bright carmine; early. . . . .	45	4 50
<b>Duke of Wellington.</b> Sulphury white. . . . .	40	4 00
<b>Edulis superba.</b> Bright rosy pink. . . . .	35	3 50
<b>Festiva maxima.</b> White. . . . .	45	4 50
<b>Gigantea.</b> Fine pink; early; fragrant. . . . .	50	5 00
<b>Humei carnea.</b> Tender rose, passing to white. . . . .	35	3 50
<b>Jeanne d'Arc.</b> Rose, sulphur and rosy white center. . . . .	35	3 50
<b>L'Elegante.</b> Dark rosy; large flower. . . . .	40	4 00
<b>Louis Van Houtte.</b> Cherry-color, with purplish reflection. . . . .	35	3 50
<b>Madame Geissler.</b> Rosy lilac; large flower; early. . . . .	50	5 00
<b>Magnifica.</b> Tender rose, center creamy white. . . . .	40	4 00
<b>Nobilissima.</b> Bright rosy lilac; large flower; early. . . . .	40	4 00
<b>Queen Victoria.</b> Rose; dark rose center. . . . .	35	3 50
<b>Rubra triumphans.</b> Carmine. . . . .	35	3 50
<b>Triomphe de l'Exposition de Lille.</b> Light rose; fine-shaped flower; early. . . . .	40	4 00
<b>Van Dyck.</b> Rosy salmon. . . . .	50	5 00
<b>Victor Hugo.</b> Anemone-flowered; brilliant carmine. . . . .	45	4 50

	Each	Doz.
<b>Double Mixed, All White.</b> . . . . .	\$0 20	\$2 00
" " <b>All Crimson.</b> . . . . .	20	2 00
" " <b>All Rose.</b> . . . . .	20	2 00
" " <b>All Pink.</b> . . . . .	20	2 00
" " <b>All Carmine.</b> . . . . .	20	2 00

**JAPANESE TREE PAEONIES (*Pæonia arborea*)**

These are very beautiful and free-flowering, and bloom two or three weeks earlier than the herbaceous sorts. We are importing an assortment of the following fine named varieties. \$1.50 each.  
**Berenice.** Rosy lilac; enormous flower.  
**Blanche de Chateau Futu.** Pure white.  
**Comtesse de Tuder.** Tender rosy white; very double, fine-shaped flower.  
**Elisabeth.** Brilliant pink; one of the largest flowers.  
**Guillaume Tell.** Bright carmine, with white border; large flower.  
**Madame Stuart Low.** Reddish salmon, white center, large flower.

**PAEONIA OFFICINALIS**

	Each	Doz.
<b>Anemonæflora.</b> Crimson; single anem- one flower shape. . . . .	\$0 40	\$4 00
<b>Mutabilis plena.</b> Tender rose, passing to white; double. . . . .	30	3 00
<b>Rosea plena.</b> Pink. . . . .	35	3 50
<b>Splendens.</b> Dark red; half-double flower. . . . .	40	4 00
<b>Tenuifolia, Single-flowering.</b> Rich crimson; narrow, feathery foliage. . . . .	20	2 00



PLANTING OF JAPAN IRIS

## JAPAN IRIS (*Iris Kämpferi*)

### 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 for their stateliness of habit. Some of them send up ten or twelve flower-spikes 3 feet high, each bearing two to four enormous blossoms, measuring 8 to 10 inches across. They are most valuable for cut-flowers and table decoration—as handsome as orchids. They require a liberal supply of water when growing. Flowers should be cut in the early morning or after sunset. They come in large clumps. *The descriptions given are those furnished us by the growers in Japan.*

25 cts. each, \$2.50 per doz., \$18 per 100. Transportation charges extra

**Biwa-no-umi.** White, feathered purple; sky-blue at edges; primrose blotches; large flower. 3 petals.  
**Boteki-no-Koe.** Pure white, heavily veined lavender, with pale primrose blotches; standards wine-color, lighter toward edges, stigmas lavender; striking. 3 large petals.

**Date-dogu.** Rich claret-red, yellow blotches. 3 petals.

**En-u-no-Sora.** Rosy lavender petals, light purple toward the center, large primrose blotches; standards white, veined and edged claret-red. 3 petals. Large and distinct.



JAPAN IRIS, continued

**Gekka-no-nami** (Waves under Moonlight). Dense, pure white, with yellow blotches; petaloid stigmas creamy. 6 petals.  
**Hakubotan**. Large; pure white, with light primrose blotches; full flower.  
**Ho-o-jo (Ho-o-castle)**. Ruby-crimson, primrose blotches; standards white and lavender.  
**Kagura-Jishi**. Blush-white, radiating to bright claret-red on outer edge of petals; light yellow blotches.  
**Osho-kun**. Intense Tyrian-blue, with yellow blotches radiating to white; petaloid stigmas dark violet. 6 petals.  
**Ran**. Royal-purple, edged lavender, with large primrose blotches; standards wine-red, white at bases. 6 petals. Large and distinct.  
**Sassa-no-Koe**. White, veined wine-red and blotched yellow; standards lavender, running to purple at edges. 3 petals.  
**Shi-un**. Rich purple, with large primrose blotches; large, full flower. 6 petals.

**Shippo** (Cloisonne). Rich Tyrian-blue, edged purple and veined white; yellow blotches; standards white and wine-color. Large flowers.  
**Shiraito-no-Taki**. Sky-blue, radiating to light purple at edges; large, yellow blotches; standards white, pale blue and purple; distinct. 3 petals.  
**Sui-Ren**. Very pale lavender, darker at edges, with yellow blotches. 6 petals.  
**Taki-no-shiose**. Large flower; pure white, with primrose blotches. 6 petals.  
**Tatsuta-Gawa**. Blush-white, radiating to claret-red at edges; primrose blotches. 3 petals.  
**Yamato-Nishiki**. Pale lavender, running to purple on outside of petals; blotched and flaked dark purple; large primrose blotches; immense flower. 3 petals.  
**Yedo-Jiman**. Royal-blue; large petals; standards purple. 3 petals.  
**Yodokuruma**. Pale wine-color, veined darker; large orange blotches; standards very erect. Gigantic blooms. 3 petals.

**HARRISON'S IRIS MANUAL**. Paper cover; 30 pages. Full cultural directions and other valuable information. 25 cts. per copy, postpaid.

AMARYLLIS

The Amaryllis produces, under the simplest conditions, one to three spikes, two 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 leaf-mould 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 almost essential.

**Belladonna major**. Violet and white; Each Doz.  
 in large umbels; fragrant.....\$0 25 \$2 25  
**Formosissima (Jacobæan Lily)**. Pretty scarlet flowers. May be planted outside in the spring..... 15 1 25  
**Lutea (Sternbergia)**. Bright yellow... 12 1 25

**Johnsoni (Spice Lily)**. Large flower; Each Doz.  
 crimson, striped white. Large bulbs . \$0 60 \$6 00  
**Hippeastrum, Empress of India Seedlings**..... 70 7 00  
**Hippeastrum, Mixed Hybrids**..... 60 6 00  
**Vallota purpurea (Scarborough Lily)**.... 35 3 50

BEGONIAS, TUBEROUS-ROOTED

6 of a kind at dozen rate, 50 of a kind at 100 rate

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.

Each Doz. 100  
**Single Scarlet**.....\$0 07 \$0 65 \$4 00  
 " **Rose**..... 07 65 4 00  
 " **White**..... 07 65 4 00  
 " **Yellow**..... 07 65 4 00

Each Doz. 100  
**Double White**.....\$0 10 \$1 00 \$6 00  
 " **Yellow**..... 10 1 00 6 00  
 " **Rose**..... 10 1 00 6 00  
 " **Crimson**..... 10 1 00 6 00

BEGONIA CRISPA (Single Fringed Begonias)

These comparatively new Begonias have beautifully shaped, gracefully frilled and crested flowers, borne above the foliage on long and erect stems. An exceedingly fine strain. **RED, ROSE, WHITE, YELLOW, SALMON and ORANGE**. 12 cts. each, \$1.25 per doz.

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 bulb 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.

**Giganteum, Giant White**. Immense bulbs, large white flowers; blooms all summer; very fragrant; should be watered plentifully while growing..... Each \$2 00  
**Amabile, Giant Pink**. Extra large, bright pink, with white stripe; splendid flower; enormous bulb. This and the Giant White are unsurpassed for growing in tubs, blooming profusely outside all summer..... 2 00

**Kirki**. Large umbels of beautiful, pure white flowers, with purple stripe in center of each petal; very fine..... Each \$0 75  
**Powell**. 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..... 35  
**Powell album**. Pure white; a very beautiful sort..... 50

# LILIES

Lilies are easily grown and require little care. They do best in a light, well-drained soil. Some peat or leaf-mould 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.

<b>Auratum</b> (Golden-banded Lily). The grandest of all hardy Lilies; flowers white, spotted maroon, with a bright yellow band through each petal.			
	Each	Doz.	
8 to 9 inches.....per 100, \$9..	\$0 15	\$1 50	
9 to 11 inches.....per 100, \$15..	25	2 50	
11 to 13 inches.....per 100, \$22..	35	3 25	
<b>Auratum pictum</b> . Beautifully spotted dark crimson. 8 to 10 inches.....	50	5 00	
<b>Auratum rubro vittatum</b> . Enormous flowers, sometimes 10 inches across; white, beautifully spotted and with a deep crimson stripe through each petal; very fragrant. 8 to 9 inches..	65	6 50	
<b>Batemanni</b> . Bright apricot.....	25	2 50	
<b>Bloomerianum</b> . Orange, spotted dark maroon, with crimson circle around each spot.....	40	4 00	
<b>Bolanderi</b> . Bell-shaped, deep crimson flowers, dotted with purple. 1 to 3 feet high. Rare.....	60	6 00	
<b>Brownii</b> . Flowers of immense size, creamy white inside, shaded chocolate-purple outside. A splendid pot-plant.....	60	6 00	
<b>Canadense</b> . Native "Meadow Lily." Graceful, drooping, bright yellow flowers, spotted red. 1½ to 3 feet...	12	1 25	
<b>Canadense rubrum</b> . Red flowers.....	15	1 50	
<b>Colchicum</b> ( <i>Monadelphum</i> ). Citron, black spots; 2 feet.....	40	4 00	
<b>Columbianum</b> (Oregon Lily). Orange flowers, dotted maroon; fragrant....	50	5 00	
<b>GIGANTEUM</b> . A magnificent species, growing 6 to 10 feet high; white, with purple throat; extra-large, choice bulbs.....	3	00	



LILIUM AURATUM

<b>HENRYI</b> ( <i>Orange-Yellow Speciosum</i> ). Each Doz. Tall-growing sort; deep orange-yellow flowers; very beautiful and striking... \$0 70 \$7 00			
<b>Kelloggii</b> . 3 to 4 feet high, with a slender stem and from three to fifteen flowers with pink revolute petals; very fragrant. Rare.....	50	5 00	
<b>Krameri</b> . White, slightly tinged with red; sweet-scented.....	25	2 50	
<b>Leichtlinii</b> . Orange-red, with crimson spots. 2 to 3 feet.....	30	3 00	
<b>LONGIFLORUM</b> . Beautiful for garden culture.			
6 to 8 inches.....per 100, \$4.50..	07	70	
7 to 9 inches.....per 100, \$7..	10	1 00	
8 to 10 inches.....per 100, \$10..	15	1 50	
<b>Longiflorum multiflorum</b> .			
6 to 8 inches.....per 100, \$5..	08	75	
7 to 9 inches.....per 100, \$7..	10	1 00	
8 to 10 inches.....per 100, \$10..	15	1 50	
<b>Longiflorum multiflorum giganteum</b> .			
6 to 8 inches.....per 100, \$6..	10	85	
7 to 9 inches.....per 100, \$9..	15	1 40	
9 to 10 inches.....per 100, \$14..	20	2 00	
<b>Maritimum</b> . Dark red, funnel-shaped flowers; beautiful.....	50	5 00	
<b>Martagon</b> . Purple; 2 to 3 feet.....	20	2 00	
<b>Parryi</b> . Large, pale yellow flowers; very rare.....	75	7 50	
<b>Parvum</b> . Orange-yellow, spotted purple; 2 feet high.....	55	5 50	
<b>Philadelphicum</b> . Bright orange-red, with black spots. 2 feet.....	15	1 50	
<b>Speciosum album Krætzeri</b> . Beautiful, pure white flowers of large size; one of the handsomest and most easily grown Lilies we have. 2 to 4 feet high.			
8 to 9 inches.....per 100, \$13..	20	1 80	
9 to 11 inches.....per 100, \$19..	30	3 00	
<b>Speciosum rubrum Melpomene</b> . Dark crimson-spotted flowers of large size.			
8 to 9 inches...per 100, \$7.50..	12	1 25	
9 to 11 inches...per 100, \$13..	20	1 80	
11 to 13 inches.....	30	3 00	
<b>Superbum</b> (Turk's Cap Lily). Deep orange-red, thickly spotted; 4 feet...	12	1 25	
<b>Tenuifolium</b> (Siberian Coral Lily). Nodding, rich scarlet flowers. 1½ feet tall.....	15	1 50	
<b>Thompsonianum</b> . Rose.....	30	3 00	
<b>Thunbergianum</b> , <b>Prince of Orange</b> . Orange-yellow; 1 foot.....	30	3 00	
<b>Thunbergianum</b> , <b>Mixed</b> .....	25	2 50	
<b>Tigrinum</b> ( <i>Tiger Lily</i> ). Orange-salmon, spotted black.....per 100, \$3.50..	06	60	
<b>Tigrinum splendens</b> . Beautiful rich scarlet, with black spots; finest of all Tiger Lilies.....per 100, \$5..	08	75	
<b>Tigrinum flore pleno</b> (Double Tiger Lily). Bright orange-red, with black spots. 4 to 5 feet.....per 100, \$5..	08	75	
<b>Washingtonianum</b> . A lovely native variety of very stately habit. Large, trumpet-shaped flowers, pure white, tinged purple or lilac. Very fragrant. 4 to 7 feet.....	30	3 00	

**MONTBRETIAS** (Ready in April)

Hardy, summer-flowering, bulbous plants that are becoming more popular every year. They should be planted in groups and left undisturbed. Ordinary garden soil and a sunny position suit them.

<b>Aurantiaca.</b> Deep golden yellow; fine spike.....	Each \$0 05	Doz. \$0 40	100 \$2 00	<b>Elegans.</b> Bright yellow outside, streaked with vermilion; fine.	Each \$0 05	Doz. \$0 40	100 \$2 00
<b>Bouquet Parfait.</b> Large, bright vermilion flowers, with deep yellow centers.....	05	40	2 00	<b>Golden Sheaf.</b> Bright yellow...	05	40	2 00
<b>California.</b> Beautiful, deep golden yellow.....	05	45	2 50	<b>Pottsii.</b> Orange and scarlet; very free-flowering.....	05	40	2 00
<b>Crocsmæflora.</b> Large; bright orange, tinted scarlet.....	05	40	2 00	<b>Rosea.</b> Bright salmon-rose; distinct.....	05	40	2 00
<b>Etoile de Feu.</b> Bright vermilion, with deep yellow center; large flowers.....	05	40	2 00	<b>Soleil Couchant (Sunset).</b> Golden yellow.....	05	40	2 00
				<b>Sunbeam (Rayon d'Or).</b> Rich yellow, spotted brown; large flowers.....	05	40	2 00

**TIGRIDIAS** (Ready in April)

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.

<b>Alba immaculata.</b> Pure white, unspotted.....	Each \$0 06	Doz. \$0 60	100 \$4 00	<b>Lutea immaculata.</b> Pure yellow; handsome and striking.....	Each \$0 09	Doz. \$0 80	100 \$5 50
<b>Canariensis.</b> Very handsome, light yellow, with brown spots.	06	60	4 00	<b>Pavonia.</b> Red. Distinct from Speciosa pavonia.....	06	60	4 00
<b>Conchiflora.</b> Bright yellow.....	09	80	5 50	<b>Speciosa pavonia.</b> Scarlet.....	06	60	4 00

**MISCELLANEOUS BULBS AND ROOTS**

<b>ALSTREMERIA aurea</b> (aurantiaca.) Orange-yellow. spotted black.....	Each \$0 05	Doz. \$0 40	100	<b>APIOS tuberosa.</b> Hardy climber, with clusters of fragrant purple flowers.....	Each \$0 05	Doz. \$0 40	100 \$2 00
<b>brasilienis.</b> Deepred with black spots.....	07	60		<b>ARUM Dracunculus.</b> .....	20	2 00	
<b>AMORPHOPHALLUS Rivieri.</b> A species of Arum with ornamental leaves; flowers without soil or water.....	1 00	10 00		<b>cornutum</b> (Red Calla).....	20	2 00	
<b>ANEMONE, Caen Mixed.</b> .....				<b>crinitum.</b> .....	45	4 50	
2 for 5 cts.....			20 \$1 25	<b>italicum</b> (Dragon Flower). Creamy white.....	06	50	
<b>Blue, Incomparable.</b> Double.....	05	40	2 50	<b>maculatum.</b> .....	12	1 25	
" <b>Double Mixed.</b> .....	05	40	2 50	<b>palæstinum sanctum</b> (Black Calla).....	20	2 00	
" <b>Single.</b> Light colors.....	05	40	2 50	<b>BABIANA, Mixed.</b> For pots....	06	50	3 00
<b>Scarlet, Feu Superbe.</b> Double.....	06	60	3 50	<b>BLOOMERIA aurea.</b> Light yellow.....	07	60	3 50
" <b>Single Mixed.</b> .....	05	35	2 00	<b>CALADIUM esculentum.</b> .....			
" <b>Double Mixed.</b> .....	06	60	3 50	7 to 9 inches in circ.....	10	1 00	
<b>White Ceres.</b> Double; tinted rose.....	05	40	2 50	10 to 11 inches in circ.....	15	1 50	
<b>White, The Bride.</b> Single; pure white... 2 for 5 cts...			20 1 25	12 inches in circ. up..	20	2 00	
<b>Rose, Rosette.</b> Double; rose; extra large.....	05	40	2 50	<b>CALLA Elliottiana, Yellow; Spotted Leaf.</b> Dark green leaves, spotted silvery white.....	35	3 50	
<b>Apennina, Blue.</b> Clear blue, star-shaped flowers; excellent for naturalizing.....	05	35	2 00	<b>CAMASSIA Cusickii.</b> Very large leaves and lovely, pale sky-blue flowers, produced in racemes 2 to 3 feet long.	15	1 50	
<b>Apennina, White.</b> .....	05	35	2 00	<b>esculenta.</b> Pretty violet-blue flowers. Fine for cutting... 3 for 10 cts...		30	1 75
<b>Fulgens.</b> Scarlet.....	05	50	3 00	<b>COOPERIA Drummondii</b> (Evening Star). White.....	05	35	2 00
<b>Double.</b> Mixed colors.....				<b>peduncularis.</b> Beautiful, white, fragrant flowers....	05	35	2 00
3 for 10 cts... ..		30	1 50	<b>CROCOSMIA aurea</b> (Tritonia). Half-hardy; orange flower...	10	85	6 00
Single. Mixed colors.....				<b>CINNAMON VINE.</b> Roots....	06	50	3 00
2 for 5 cts... ..		20	1 25	<b>CLEMATIS coccinea.</b> A hardy herbaceous perennial climber; flowers rich scarlet.....	20	2 00	12 00
<b>ANOMATHECA cruenta.</b> Crimson flowers; dwarf habit; fine for window garden.... 2 for 5 cts...			20 1 25				
<b>ANTHERICUM liliago.</b> .....	10	75					
<b>liliastrum major.</b> .....	07	60					
<b>ramosum.</b> .....	12	1 00					
<b>ANTHOLYZA, Mixed.</b> Like Gladioli. Take up in fall...	10	1 00	6 00				

## MISCELLANEOUS BULBS AND ROOTS, continued

	Each	Doz.	100		Each	Doz.	100
<b>DICENTRA spectabilis</b> (Bleeding Heart). Hardy perennial; also forcer.....	\$0 20	\$1 75	\$10 00	<b>Spiræa, Washington.</b> Extra-large flowers; fine forcer.....	\$0 20	\$2 00	
<b>EREMURUS himalaicus.</b> White. robustus. Rose.....	85	80		<b>aruncus.</b> Handsome plant, with large plumes of pure white flowers.....	20	2 00	
<b>EUCHARIS amazonica.</b> Fine, white-flowered greenhouse plant. Magnificent.....	75	7 50		<b>palmata.</b> Crimson; strong clumps.....	20	2 00	
<b>GLOXINIA, Red.</b> .....	08	85	6 00	<b>TRICYRTIS hirta.</b> Beautiful; fall-flowering; hardy.....	08	75	\$5 00
Spotted.....	08	85	6 00	<b>TRILLIUM erectum.</b> Dark purple; erect habit.....	10	1 00	6 00
White.....	08	85	6 00	<b>grandiflorum</b> (Giant American Wood Lily). Large, white flowers, changing to rose; quite hardy and easily grown in shaded positions.....	08	75	5 00
Blue.....	08	85	6 00	<b>ovatum.</b> White changing to rose.....	10	1 00	6 00
Mixed.....	08	80	5 50	<b>sessile californicum.</b> 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 centers; very fragrant.....	15	1 25	8 00
<b>HÆMANTHUS albiflos.</b> White	1 00			<b>sessile rubra.</b> Same as Californicum, with narrow petals; deep maroon-purple to reddish purple.....	15	1 25	8 00
<b>coccineus.</b> Scarlet; for pots...	2 00			<b>sessile, Snow Queen.</b> Flowers pure white, with creamy centers and with broad petals.....	15	1 25	8 00
<b>punicus.</b> Orange-red; for pots.	1 75			<b>TRITOMA Pfitzeri.</b> Large spikes of intense flame-colored flowers. Plant in spring....	20	1 75	12 00
<b>HELLEBORUS niger major</b> (Christmas Rose). Hardy; valuable forcer.....	45	4 50		<b>MacOwani.</b> Dwarf variety; bright orange-red.....	15	1 50	10 00
<b>HEMEROCALLIS, Apricot.</b> Distinct, rich apricot.....	15	1 50		<b>uvaria grandiflora</b> (Red-Hot Poker Plant). Half-hardy..	15	1 50	10 00
<b>flava.</b> Clear yellow.....	10	1 00		<b>TRITONIA crocata.</b> Mixed....	06	60	3 50
<b>fulva.</b> Coppery orange, shaded crimson.....	12	1 25		<b>TROLLIUS caucasicus.</b> Golden yellow.....	20	2 00	
<b>Kwanso fl. pl.</b> Coppery orange; double.....	12	1 25		<b>Europæus.</b> Yellow.....	20	1 75	
<b>Sieboldi.</b> Reddish orange....	10	1 00		<b>giganteus.</b> Yellow.....	20	2 00	
<b>HYACINTHUS candicans.</b> ....	06	60	3 50	<b>TROPÆOLUM tricolor</b> (Jarrattii). Fine greenhouse climber; for pots.	20	2 00	
<b>INCARVILLEA Delavayi.</b>				<b>speciosum.</b> Brilliant scarlet..	20	2 00	
Large; rosy purple; splendid hardy perennial, with handsome foliage.....	10	1 00		<b>pentaphyllum.</b> .....	40	4 00	
<b>MADEIRA VINE.</b> Roots.....	06	60		<b>TUBEROSES, Dwarf Double</b> ...	05	40	2 25
<b>GENOTHERA ovata</b> (Evening Primrose). A beautiful Primrose, having circles of leaves flat on the ground and a great number of bright yellow flowers.....	20	2 00		<b>Albino.</b> Pure white; single....	06	50	3 00
<b>PANCRATIUM calathinum</b> (Basket Flower).....	15	1 50		<b>Variegated Leaf.</b> .....	06	50	3 00
<b>maritimum</b> (Sea Daffodil)....	15	1 50		<b>WATSONIA Ardernei</b> (O'Brieni). Large, beautiful, snow-white gladiolus-like blooms over 3 inches in diameter. Fine forcer or for planting outdoors in spring.....	25	2 50	
<b>undulatum.</b> White.....	15	1 50		<b>ZEPHYRANTHUS candida.</b> White, greenish base.....	10	1 00	6 00
<b>RANUNCULUS, French Mixed.</b> ..				<b>atamasco.</b> Pure white.....	12	1 25	8 00
2 for 5 cts....			1 00	<b>VALLOTA purpurea</b> (Scarborough Lily).....	35	3 50	
<b>Persian Mixed.</b> 2 for 5 cts....			1 00				
<b>Turban Mixed.</b> 2 for 5 cts....			1 00				
<b>SCHIZOSTYLIS coccinea.</b> Scarlet, gladiolus-like flowers...	07	65	4 00				
<b>SPIRÆA japonica.</b> Pure white flowers.....	12	1 25					
<b>japonica compacta multiflora.</b> Neat and compact. Pure white flowers.....	20	1 75					
<b>astilboides floribunda.</b> Very large, pure white plumes. Neat habit; abundant bloomer.....	20	1 75					
<b>Gladstone.</b> Snow-white plumes; long stems; fragrant. Fine forcer.....	20	2 00					
<b>Queen Alexandra, Pink.</b> A pink variety, in habit similar to Gladstone but flowering three weeks later. Beautiful.	30	2 75					

# Insecticides and Remedies for Plant Diseases

*All subject to change in price. If wanted by mail, add 16 cts. per lb. to cover postage*

- ANT DESTROYER.** Will positively destroy red or black ants.  $\frac{1}{4}$ -lb. tins 15 cts.,  $\frac{1}{2}$ -lb. tins 28c., 1-lb. tins 50 cts., 5-lb. tins \$2.50.
- ANTIPEST.** A sure destroyer of all insect pests. Qt. 45 cts.,  $\frac{1}{2}$ -gal. can 65 cts., gal. can \$1.25.
- APHINE.** Has no equal for the destruction of green, black or white fly, thrips, red spider, mealy bug, etc. Used one part to forty of water. Does not injure the most tender plants.  $\frac{1}{4}$ pt. 25 cts.,  $\frac{1}{2}$ pt. 40 cts., pt. 65 cts., qt. \$1, 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. 16 cts., 5 lbs. 75 cts., 100 lbs. \$13.
- BORDEAUX MIXTURE, or FUNGIROID.** For all fungus diseases. Dry, 1-lb. box 20 cts., 5 lbs. and over at 18 cts. per lb., 50 lbs. \$7. Liquid, qt. 40 cts., gal. \$1.25, 5 gals. \$5.
- BUG DEATH.** This is a fungicide, insecticide and plant food combined and contains neither paris green nor arsenic. 1-lb. pkg. 15 cts., 3-lb. pkg. 35 cts., 5-lb. pkg. 50 cts., 12 $\frac{1}{2}$ -lb. pkg. \$1, 100-lb. pkg. \$7.50.
- 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 1 part to 100 of water; spray lightly. Qt. 50 cts., gal. \$1.50.
- CUTWORM PREVENTIVE.** Of inestimable value. See p. 156. 5-lb. can 50 cts., 10 lbs. 90 cts.; in bbls. of 250 lbs. at 6 cts. per lb.
- DALMATIAN INSECT POWDER.** Effective against almost all insects.  $\frac{1}{2}$ -lb. box 30 cts., 1-lb. box 50 cts.
- FIR-TREE OIL.** Dilute 1 pint to 20 gallons water. Apply with vaporizer or syringe.  $\frac{1}{2}$ pt. 40 cts., pt. 75 cts., qt. \$1.25,  $\frac{1}{2}$ gal. \$2.25, gal. \$4.
- FIR-TREE OIL SOAP.** Mix at the rate of 1 ounce to a gallon of water, and apply with a bellows or syringe.  $\frac{1}{2}$ -lb. tin 25 cts., 2-lb. tin 75 cts.
- FISH-OIL SOAP (formerly called Whale-Oil Soap).** For washing trees and destroying all insects on the bark. 1-lb. box 15 cts., 5 lbs. 50 cts., 10 lbs. 90 cts., 100 lbs. \$7.
- GRAPE DUST, Hammond's.** For the prevention of mildew on roses, grapes, gooseberries, etc. Apply with bellows. 5-lb. pkg. 35 cts., 10-lb. pkg. 60 cts., 100 lbs. \$5.
- HELLEBORE.** Apply dry or mix in water—1 oz. to 3 gals. 2-lb. box 45 cts., 1-lb. box 25 cts., 10 lbs. and up at 19 cts. per lb.
- KEROSENE EMULSION.** For cabbage worms, scale on trees, caterpillars, melon louse, rose bugs, etc. Dilute 25 to 50 parts. Qt. 40 cts., gal. \$1.
- LEMON OIL.** For destroying scale, caterpillar, mealy bug, etc. Directions on can.  $\frac{1}{2}$ pt. 25 cts., pt. 40 cts., qt. 75 cts., gal. \$2.
- LIME-SULPHUR SOLUTION, California Wash.** For San José Scale. One gallon makes 15 by adding water. Qt. 40 cts., gal. \$1, 5 gals. \$3.50, in bbl. lots 50 cts. per gal.
- 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, 1 to 2 teaspoonfuls to a gallon of water.  $\frac{1}{4}$ pt. 50 cts., pt. \$1.50,  $\frac{1}{2}$ gal. \$5.50, gal. \$10.50. Lamps, 50 cts. each.
- NICO-FUME TOBACCO PAPER.** For fumigating. Does not injure blooms. In tins, 24 sheets 75 cts., 144 sheets \$3.50, 288 sheets \$6.50.
- NICOTICIDE.** For fumigating or spraying. Effective against green fly, mealy bug, etc. Does not damage foliage or flowers. Sold in cans as follows: No. 1, 1 pt., sufficient for 32,000 cubic feet of space, \$2.50 each; No. 2,  $\frac{1}{2}$ pt. sufficient for 16,000 cubic feet of space, \$1.25; No. 3, 4 ozs., sufficient for 8,000 cubic feet of space, 70 cts. Gals., \$15 each,  $\frac{1}{2}$ gals. \$8.25 each, qts. \$4.50 each. Fumigators, 50 cts.
- NIKOTEEN.** Pint cans \$1.50 each.
- PARIS GREEN.** Mix at rate of 1 lb. to 200 gals. of water. Effective against all chewing insects. 1-lb. can 35 cts.,  $\frac{1}{2}$ -lb. can 20 cts.,  $\frac{1}{4}$ lb. can 12 cts.
- SCALECIDE.** For San José Scale. Petroleum oil that mixes at once with cold water and stays mixed. No hot water necessary. Add 1 gallon for every 15 to 20 gallons of water. Qt. 40 cts., gal. \$1, 5 gals. \$3.25.
- SLUG-SHOT (Hammond's).** Excellent for destroying cabbage, turnip and beet fly, potato bugs, currant worms, etc. 1-lb. pkg. 12 cts., 5-lb. pkg. 30 cts., 10-lb. pkg. 50 cts., 100-lb. pkg. \$4.50.
- SULPHO-TOBACCO SOAP.** Dissolve in proportion of 2 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 10 cts., 8-oz. box 20 cts., 10-lb. box \$3.
- SULPHUR, POWDERED.** Valuable for protecting against mildew on grapes, roses, etc. Lb. 10 cts., 10 lbs. 60 cts.
- TOBACCO DUST—**  
**Ordinary Kind.** For dusting. Lb. 10 cts., 5 lbs. 35 cts., 10 lbs. 60 cts., 100 lbs. \$3.  
**Stoothoff's "Black Stuff."** For dusting. 50 lbs. \$2.25, 100 lbs. \$4.  
**Stoothoff's "Fumigating Kind."** For burning. 50 lbs. \$2.25, 100 lbs. \$4.
- TOBACCO STEMS.** For fumigating. Bale of about 100 lbs. \$1.75, 200 lbs. \$3.25, 400 lbs. \$5.50.
- 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. 1-lb. can 30 cts., 3 lbs. 85 cts., 10 lbs. \$2.65, 20 lbs. \$4.80.
- WEED-KILLER, Pino-Lyptol.** This fluid absolutely destroys all weeds and other growth wherever applied. Mix one part Pino-Lyptol with ten or fifteen parts water. 1-gal. can \$1.50, 5-gal. can \$5.50, 10-gal. can \$10.
- X-L-ALL LIQUID INSECTICIDE.** For spraying. Purely nicotine; harmless to very delicate plants; kills mealy bugs, red spider and all insect pests. Pt. 65 cts., qt. \$1,  $\frac{1}{2}$ gal. \$1.75, gal. \$3.50.

# High-Grade Fertilizers

ALL NET CASH

## THORBURN'S COMPLETE MANURE

Guaranteed to contain ammonia, 3 to 4 per cent; available phosphoric acid, 6 to 8 per cent; actual potash, 6 to 7 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
Single bags of 167 lbs.....	4 00
Per bag of 100 lbs.....	2 75
50 lbs.....	1 65
25 lbs.....	1 00
10 lbs.....	50

## THORBURN'S LAWN FERTILIZER

Guaranteed to contain ammonia, 6 to 7 per cent; available phosphoric acid, all soluble, 8 to 10 per cent; actual potash, 5 to 6 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 pounds to the acre.

In 167-lb. bags, per ton.....	\$50 00
Single bag of 167 lbs.....	5 00
Per bag of 100 lbs.....	3 25
50 lbs.....	2 00
25 lbs.....	1 25
10 lbs.....	75

## ACME NO. 1 POTATO MANURE

Guaranteed to contain ammonia, 4 per cent; available phosphoric acid, 6 per cent; actual potash, 10 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.....	\$44 00
Single bags of 167 lbs.....	4 50
Per bag of 100 lbs.....	3 15
50 lbs.....	1 75
25 lbs.....	1 00
10 lbs.....	50

## 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

1 cwt. (112 lbs.).....	\$7 00
½cwt. (56 lbs.).....	4 00
¼cwt. (28 lbs.).....	2 25
⅓cwt. (14 lbs.).....	1 25

## AGRICULTURAL SALT

For asparagus beds, etc., in bags of about 200 lbs., \$1.25 per bag; about \$10 per ton. Not less than one bag sold.

## THOMPSON'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. Per cwt. (112 lbs.), \$7; ½cwt. (56 lbs.), \$4.

## BOWKER'S AMMONIATED FOOD FOR FLOWERS

Excellent for use on house plants, being entirely odorless. Small pkg. 15 cts. each, by mail, 25 cts. Large pkg. 25 cts. each, by mail 45 cts.

## CANADA HARD-WOOD ASHES

Highest grade unleached. For top-dressing lawns, especially if the soil is stiff or sour, 1½ to 2 tons to the acre. Price, in bags of 100 lbs. \$1.50; ton, \$22.

## BONORA

A fertilizer and plant-food combined.

¼-lb. package.....	\$0 25
1-lb. package.....	50
5-lb. package.....	2 50

## PULVERIZED SHEEP MANURE

(Sheepshead Brand)

A rich, pure, natural manure. Excellent as a top-dressing for lawns. Its effect is immediate and lasting. 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—1 pound to 5 gallons of water.

1-lb. package.....	\$0 10
5-lb. package.....	25
25 lbs.....	75
50 lbs.....	1 25
100 lbs.....	2 00
Ton.....	31 00

500 lbs. and up at ton rate.

## 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. 25 cts., 10 lbs. 40 cts., 25 lbs. 75 cts., 50 lbs. \$1.25, 100 lbs. \$2.25, ton \$33.

**Ground Bone, No. 2.** Coarser than the above; for top-dressing for lawns, and for garden and field crops. 100-lb. bag \$2.50, ton \$38.

**Ground Bone, No. 3.** A little coarser than No. 2. 100 lbs. \$2.75, ton \$40.

**Pure Raw Bone Meal, Swift's.** Contains 4½ per cent ammonia and 23 per cent phosphoric acid, and over 3½ per cent nitrogen. 100-lb. bag \$3, 200-lb. bag \$5.50, ton \$45.

**Leaf-Mold.** Indispensable for azaleas, rhododendrons, etc. Bbl. \$2.

**Moss, Sphagnum.** For filling orchid baskets, etc., and for mixing with potting soil to preserve moisture. Bale of about 50 lbs. \$3.50.

**Peat, Orchid.** For potting orchids, etc. Barrel of about 50 lbs. \$2.

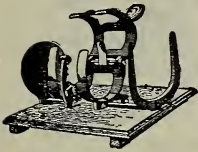
**Peat, Rotted.** Fine for mixing with soil for potted plants such as azaleas, palms, etc. Barrel of about 140 lbs. \$2.

## OTHER FERTILIZERS PRICES FLUCTUATE

ACID PHOSPHATE.....	Per 100-lb. bag \$1.50, 200-lb. bag \$2.50, per ton \$20
TANKAGE (Blood and Bone Fertilizer).....	Per 100-lb. bag \$3, per 200-lb. bag \$5.50, per ton \$40
IMPORTED SCOTCH SOOT.....	Bags of about 112 lbs., per bag \$3.50
NITRATE OF SODA.....	5-lb. pkg. 30 cts., 10-lb. pkg. 50 cts., 25 lbs. \$1.25, 50-lb. bag. \$2, 100 lbs. \$3.75
MURIATE OF POTASH.....	5-lb. pkg. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1.25, 50 lbs. \$2, 100 lbs. \$3.50

# HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES

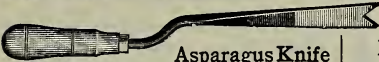
ALL NET CASH



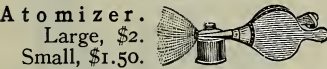
**Asparagus Buncher, Acme.**  
\$2.



**Asparagus Knife, English.** (Saw blade.) \$1.25.



**Asparagus Knife Granite State.** 35 cts.



**Atomizer.**  
Large, \$2.  
Small, \$1.50.

**Bells, Woodson's Double Cone Powder.** \$3.



**Single Cone.**  
Large, \$2.



**Small,**  
\$1.25.

**Bill and Brush Hooks.** For heavy pruning.—  
English. S-handle. \$2.75.  
American. Long handle. \$1.

**Border Shears.** See Shears, p. 149.

**Carnation Supports.** See under Supports, p. 150.

**Dandelion Puller.**  
Hall's. 50 cts.



**CLOG-PROOF CLAW HOOKS ONTO THE ROOT**



**Dibbles.** All iron, 35c.  
Wood Handle. Brass point, 65 cts.  
Iron point, 40 cts.

**Edging Knives, Grass.**  
English. \$1.75 to \$2.25 each.

**Extension Pole grips.** 25 cts.

**Flower Pots.** See p. 152.

**FORKS, Digging or Spading.**  
Best-quality spear point, diamond-back tine. Strapped handle. Long or D-handle.  
4-tine.....\$1 00  
5-tine..... 1 25

**Hay or Stable.** First-quality oval tines. Extra-long-strapped handle.  
2-tine..... 75  
3-tine..... 85  
4-tine..... 1 00

**Manure, Long- or Short-handled.** Strapped handle, 4-tine..... 1 00  
5-tine..... 1 25  
Extra-heavy diamond tine. 4-tine..... 1 35  
5-tine..... 1 85

**Ladies' Weeding, English.** 65  
**Boys' Spading.** 4-tine.... 60

**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 the tube. \$2.25.

**Perfect.** Galvanized steel wire; attaches to pole of any length. Price, without pole, 50 cts.

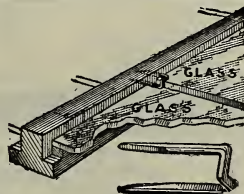
**Fumigating Lamp, "Defiance."** For all vaporizing liquids. No glass. Burns kerosene. 60 cts.  
**For Nico-Fume.** 50 cts.

**Fumigator, "Eureka."** For fumigating with tobacco stems.  
No. 1 holds 1/2 pk. \$1 50  
No. 2 holds 1 pk. 2 00  
No. 3 holds 1/2 bus. 2 50  
**For Nicotidic.** 50 cts.



**Garden Lines, Finest Braided.** 100 feet, 50 cts.

**Garden Tools for Ladies.** Set of 3 pieces (spade, hoe and rake) \$1



**Glazing Points, The Tiger.** 50 cts. per 1,000.  
**Pincers.** For above. 50 cts.

**Glass Cutter, "Red Devil."** Hand-honed wheels. Standard of the world. 4 styles. 10, 15, 25 and 50 cts. ea.

**Gloves, Gardener's, Goatskin.** \$1.

**Grafting Wax.** The best grade. 1/4 lb. pkg. 10 cts., 1/2 lb. pkg. 15 cts., 1 lb. pkg. 25 cts.

**Grass Clippers.** See p. 153.

**Grass Edging Knives, English.** \$1.75 to \$2.25.

Handle 10 cts. extra.  
**American.** With handle. 50c.



**Grass Hook, or Corn Knife, Crescent.** Adjustable. 40c., by mail 55c.  
**Grass Hooks, English Riveted Back.** Thin, sharp blades, strengthened by a riveted back; light and rapidly handled. Small size. 50 cts. Medium size. 55 cts. Large size. 60 cts.

**Trowel Shank.** The handle is raised from the blade, making it possible to cut close without bruising the knuckles. 50 cts.

**Hotbed Sash.** Best quality. Packing at cost.

**Unglazed.** 3 x 6 ft. \$1.20 each. \$13 per doz.  
**Glazed and Painted.** 3 x 6 ft. 10 x 12 glass. \$3.50 each, \$38 per doz.  
**Glazed and Painted.** 3 x 6 ft. 10 x 12 double glass. \$4.75 each, \$54 per doz.


**Hotbed Mats for Covering Sashes.**


Made of jute, stitched through; hemmed with canvas and thickly padded; size, 76 inches by 76 inches; one mat covers two sashes.  
**No. 1.** Both sides jute. \$1.50 each, \$16 per doz.  
**No. 2.** One side jute, the other side waterproof duck. \$2 each, \$22 per doz.



HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

**HOES, Draw or Corn.** 45c. to 50c.  
**Draw, Self-sharpening.** 7 in. 60c.

**English Scuffle.**   
 Handle, 10c. extra.  
 5-in. .... \$0 55  
 6-in. .... 60  
 7-in. .... 65  
 8-in. .... 70  
 9-in. .... 75  
**Grub.** ..... 85c. to 1 50

 **Triangular, English Handle** 10c. extra.  
**Warren.** Solid steel socket; used in drilling seed. .... 85  
 65c., 75c. and

**Hose, Rubber.** See page 152.

**HOSE END, No. 1.** For connecting hose with ordinary faucets. 50 cts. each.

**HOSE COUPLERS, Siamese** Each  
 With these several sprinklers can be used at the same time. 3/4-inch. .... \$0 60  
 1-in. .... 75

**HOSE COUPLINGS.—** Each  
 1/2-in. .... \$0 20  
 3/4-in. .... 25  
 1-in. .... 40

**HOSE NOZZLE, "Bordeaux."** For 1/4-in. pipe or 1/2-in. hose. .... \$0 80  
**Graduating Spray Nozzle.**  
 Will throw coarse or fine spray, or solid stream. 3/4-in. .... 40  
 by mail. .... 45

 **Shower Spray Nozzle.** A perfect spray nozzle made of brass; non-corrosive—will not clog.

**No. 1.** Fine for spraying trees, etc. Standard 1/4-in. pipe thread. .... \$1 25

**No. 2.** For light garden work, whitewashing, washing carriages, automobiles, etc. Standard 1/4-in. pipe thread. \$1.25.  
**Vermorel Nozzle.** 85 cts.

**HOSE BANDS, for hose couplings.** Per doz.  
 To fit 1/2-in. hose. .... \$0 50  
 To fit 3/4-in. hose. .... 60  
 To fit 1-in. hose. .... 80

**HOSE MENDERS, Cooper's.**  
 Brass; will not rust or wear. No fastening required.  
 For hose with 3/4-in. bore, 7 cts. each, 75 cts. per doz.  
 For hose with 1-in. bore, 8 cts. each, 85 cts. per doz.

**Hose Reels.** See p. 152.

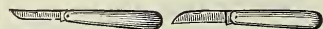
**Jumbo Powder Gun.** It is 4 inches in diameter, holds 4 oz. of powder, and serves its purpose admirably. 25 cts.



**KNIVES, Saynor's Celebrated English.** Best make.



No. 938 No. 196 No. 187 No. 312 No. 80  
 \$1.75 \$2.25 \$1.50 \$1.50 85c.



**No. 400, \$1.50** No. 401, \$1.50  
**Saynor's No. 343.** Budding. 2 blades. \$1.75.  
**Saynor's No. 403.** Budding. Long-handled. \$1.75.  
**Wostenholm's Combined Pruner and Budder.** \$1.25.  
 Pruner only. 80 cts.  
**H. & B. Budders.** 2 blades. \$1.

**Labels, Wooden, Pot and Garden.**

	PLAIN		PAINTED	
	100	1,000	100	1,000
4-in.	\$0 15	\$0 70	\$0 15	\$0 90
4 1/2-in.	15	80	20	1 00
5-in.	20	90	25	1 10
6-in.	25	1 00	30	1 35
8-in.	45	3 50	50	4 00
12-in.	75	6 00	85	7 00

**Wooden Notched Tree—**  
 3 1/2-in. 10 70 15 90  
 6-in. 25 2 75 30 2 75  
 3 1/2-in. cop. wire 20 1 20 25 1 50

**Tree, Waterproof Flexible.**  
 Copper-wired. In boxes of 100 only, \$1.50 per box.



**All Proof Tree Labels. "Blenheim Orange."** With or without rings. Per doz.  
 3-in. without rings. .... \$0 40  
 Rings for same. .... 10



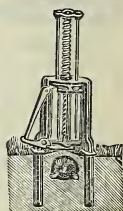
**All Proof Zinc and Glass Labels. "La France."** Waterproof and indestructible. A valuable acquisition. Per doz.  
 No. 2. 6-in. .... \$0 45  
 No. 3. 8-in. .... 50

**Mastica.** For glazing. Qt. 40c., gal. \$1.35.  
**Mastica Glazing Machine.** \$1.25.



**Mehler's Handy Garden Tool.** One of the best tools for breaking the crust of the ground and weeding. \$1.

**Mole Traps, Olmsted's Improved.** A short trap, suitable for lawns or coldframes. \$1.50.



**The Reddick.** A powerful trap used principally on lawns. Easily set. Made of galvanized iron. \$1 each, \$9.50 per doz.



**Little Giant.** A small trap made of galvanized iron. Will not get out of order; self-setting. 50 cts.

**PENCILS, for writing garden labels.** Each Doz.  
 Black. .... \$0 05 \$0 50  
 Wolf's Indelible. .... 08 90

**Plant Duster, Dickey's.** 25 cts.  
**Norton's.** 85 cts.

**PLANT STAKES, Round, Painted Green—** Doz. 100  
 2 feet. .... \$0 50 \$3 00  
 3 feet. .... 75 4 50  
 4 feet. .... 1 00 6 50  
 5 feet, extra heavy. 1 40 9 00  
 6 feet, extra heavy. 1 85 11 00

**Heavy, Square, Tapering, Painted Green—** Doz. 100  
 2 feet. .... \$0 40 \$2 25  
 3 feet. .... 55 4 00  
 4 feet. .... 75 5 50  
 5 feet. .... 1 00 7 00  
 6 feet. .... 1 25 8 00

**Dahlia Poles—Painted Green, White Tops.—** Doz. 100  
 2 feet. .... \$0 75 \$4 50  
 3 feet. .... 1 00 6 50  
 4 feet. .... 1 25 9 00  
 5 feet. .... 1 50 11 50  
 6 feet. .... 1 75 13 50



HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

Plant Stakes, Galvanized Wire, for Roses, etc.— Doz. 100  
 2 feet.....\$0 30 \$2 00  
 3 feet..... 40 2 50  
 4 feet..... 50 3 00  
 5 feet..... 60 3 50

**JAPANESE BAMBOO.** Bundles of 100 only. 6 ft. \$1; 8 ft. \$1.25.

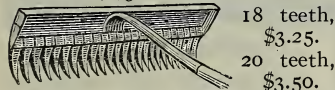
**PRUNERS, Waters' Long-handled Tree—** Each Each  
 4 feet...\$0 75 8 feet...\$1 00  
 6 feet... 80 10 feet... 1 10  
 Extra Blades..... 25

Putty for Glazing, Twemlow's Old English. Can be used with machine or bulb. \$1.75 per gal. 5- and 10-gal. buckets at \$1.60 per gal.



Raffia, for tying. Per lb. 20 cts., 5 lbs. 90 cts., 10 lbs. \$1.75.

**RAKES, English or Daisy.** 16 teeth, \$3.



18 teeth, \$3.25.  
 20 teeth, \$3.50.  
 Fine-Tooth Steel Gravel. Each  
 16-teeth.....\$0 75  
 18-teeth..... 80  
 Hay, 3-bow (Wood)..... 35  
 The "Lawn King." Teeth very close. Will not tear sod. 26-teeth size..... 45  
 38-teeth size..... 60

**Steel Garden Rake.—** Each  
 14-teeth... 60  
 10-teeth...\$0 50 16-teeth... 65  
 12-teeth... 55 18-teeth... 70

Wire Lawn Rakes. Will not scratch the lawn. With handle..... 50  
 Wooden. For lawns..... 40

Reels, for rubber hose. See p. 152.

**SAWS, Little Giant Saw and Pruner Combined.** \$1 50  
 "One-Edge" Pruning. Narrow blade, gets among close branches; upper edge smooth, does not cut the upper limb.  
 16-in..... 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.

**Saws, Lightning Double-Edge Pruning.** Each  
 16-in.....\$0 70  
 18-in..... 80  
 20-in..... 90



**Saucers, Flower-Pot, Indurated Wood-Fiber.** Light and durable. Not porous; will protect tables on which plants stand.  
 Each Doz.  
 6-inch.....\$0 15 \$1 65  
 8-inch..... 18 1 90  
 10-inch..... 20 2 20  
 12-inch..... 24 2 60  
 14-inch..... 30 3 30

**SEEDER, Cahoon.** \$3.75.

**SCYTHES.—** English Lawn, Riveted Back. Light and thin, broad blades.  
 32-in., \$1.50; 34-in., \$1.60;  
 36-in., \$1.75; 38-in., \$1.85.

**SCYTHE SNATH, or Handle.** Patent Loop Heel. \$1.

**SCYTHE STONES.—** Round Dressed Talacre. Each Doz. \$1.75. \$0 25  
 Norton's Emery..... 10



**Scissors, German Flower-gathering.** Combined flower-cutter, holder and wire-cutter. Spring pattern..... Each \$1 00



**Grape-thinning, English.**  
 6-in..... 90  
 7-in..... 1 25  
 8-in..... 1 50

**English Flower-gathering.** Will cut and hold the flower. Each  
 6-in.....\$1 25  
 7-in..... 1 50  
 8-in..... 2 00

**SHEARS, Pruning.** English Watch Spring. \$1.50 ea.  
 Perfection Pruning. Each  
 No. 1, 6½ inches.....\$1 75  
 No. 2, 7½ inches..... 2 00  
 No. 3, 8½ inches..... 2 50  
 No. 4, 9½ inches..... 3 00

**Shears, Wiss' Solid Steel Pruning.** Best American shear. Detachable blades. Each  
 9-in.....\$2 25  
 10-in..... 2 50



**English Hedge.** Plain Notch  
 Saynor. 8-in.....\$2 25 \$2 50  
 9-in..... 2 50 2 75  
 10-in..... 2 75 3 00  
 Regulation. 8-in... 1 00 1 25  
 9-in..... 1 25 1 50  
 10-in..... 1 50 1 75



**English Border.** For trimming grass around edges of paths, etc. Handles 3 ft. long. 8-in., \$2.25; 9-in., \$2.50; 10-in., \$3.



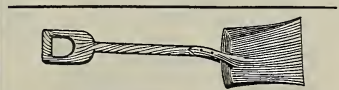
**Grass, "Trowel Shank."** American, full polished, excellent steel. \$1.



**Thorburn's New Grass.** This is the most practical grass shear manufactured. It can be taken apart to sharpen; best English steel. 7-in., \$1.25.



**American Lopping.** For lopping off limbs and branches of trees not over 1¼-in. diameter. Each  
 2-ft. handles.....\$1 00  
 3-ft. handles..... 1 25  
 English Lopping. No. 3.. 2 50  
 No. 4..... 2 75



**SHOVEL, Square Point.—** No. 2. Regulation Long Each or D handle.....\$0 90  
 Ames No. 2. Long or D handle..... 1 25  
 Boys'. D handle..... 85



**Round Point.—** Each  
 Long or D handle.....\$0 90  
 Ames. Long or D handle. 1 25

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

**SPADES.**—  
 Square Point Spade. No. 2. Regulation long or Each D handle.....\$0 90  
 Ames No. 2. Long or D handle..... I 25  
 Boy's Spade. D. H..... 85

Turfing Irons, English. \$4.50 ea.

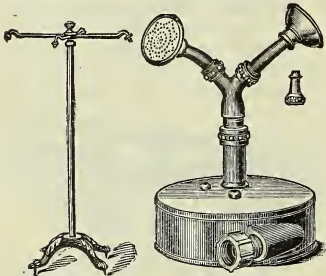
Spray Pumps. See p. 152.



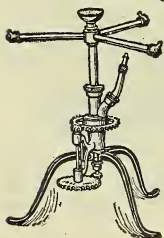
**SCOOP, Vegetable.** The best shovel for handling potatoes, apples, etc. Will not cut; dirt sifts out. Light weight. \$1.50.

**SPRINKLERS.**—  
 Rubber Plant. With large opening in neck; fills quickly; made of best white rubber. Each

Straightneck. 6 oz.....\$0 50  
 10 oz..... 90  
 Angleneck. 6 oz..... 60  
 10 oz..... I 00  
 By mail, 10 cts. extra.



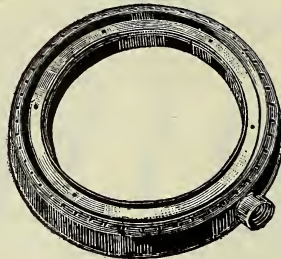
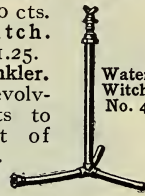
Peck's Improved Lawn Sprinkler. Stands 4 ft. high and distributes water over an area from 60 to 100 feet. 4-arm.. 3 00  
 8-arm..... 3 50  
 The "New Comet." An adjustable revolving sprinkler. Will sprinkle from 5 to 30 feet. Easily moved. Weight 4½ lbs. 3 50



"Twin Comet." A lawn sprinkler in two parts—one slow and three fast revolving arms, distributing the water over an area from 60 to 80 feet. \$5.

**Sprinklers, Water Witch.**  
 No. 3, 50 cts.  
 Water Witch. No. 4, \$1.25.  
**Ring Sprinkler.** Has no revolving parts to get out of order. 75c.; by mail, 85c.

W. W. No. 3



**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.

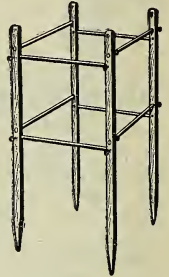
**Hotchkiss Lawn Sprinkler No. 65.** This combination sprinkler and fountain is beautiful as well as useful. Brass and nickel-plated, with malleable iron runners. Will cover an area 40 feet in diameter. \$1.75.

**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. Holder and nozzle complete. \$2.



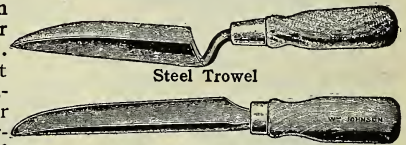
**SUPPORTS, Carnation.** Made of light wire, galvanized. 2-ring, 75 cts. per doz., \$5 per 100, \$40 per 1,000; 3-ring, 90 cts. per doz., \$5.50 per 100, \$45 per 1,000.

**Supports, Tomato.** Made of heavy wire, galvanized. 20 cts. each, \$1.50 per doz.  
**Wood, Tomato.** 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.



**SYRINGES.** See p. 152.

**TROWELS, Solid Steel.** Cheapest trowel in the long run; light, strong, durable and perfect "hang;" handle cannot come off. 5-in. blade, 40 cts.; 6-in., 50 cts.; 7-in., 60 cts.



**Steel Socket.** One piece. 6-in. 50 cts.  
**Trowels, Ordinary.** 6-in., 20c.  
**Trowel, Transplanting.** A perfect Trowel for transplanting and putting in bulbs; solid steel. 6-in., 15c.; 7-in. 20c.

**THERMOMETERS**—

**Oxidized Metal Scale, Polished Back.** A thermometer for house use, durable and well made. Will last a lifetime. Tube magnifies and is easy to read. 8-inch size, 75c.; 10-inch size, \$1; 12-inch size, \$1.25.

**Oxidized Metal Scale, Carved Back.** Same as the preceding but with fancy border. 8-inch size, 75 cts.; 10-inch size, \$1; 12-inch size, \$1.25.



To get best results from all kinds of clover, as well as beans and peas and sweet peas, use Farmogerm, listed on page 158. The greatest advance in growing certain crops ever known.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

**Thermometers—**



**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. 10-in. size, \$2; 12-inch size, \$2.50.

**Self-Registering Janned Case.** The same as preceding, with tin case for outside use.

Enameled case and porcelain scale. 8-in. size, \$2.75; 10-inch size, \$3.25; 12-inch size, \$3.75.



**Janned Tin Case.** A cheap thermometer for greenhouse use; all metal. 10-inch, 25 cts. each, \$2.50 per doz.

**Hotbed, New Style.** Copper-sheathed. Tip can be removed and cleaned. \$2.

**Mercury Bath, or Hotbed.** New. Quick-acting; all of metal. Cannot

rust or break. \$2.

**Hotbed and Mushroom-Bed.**

Brass-tipped tip encloses the temperature bulb; it is simply thrust into the soil or bed. Best grade (made of boxwood). \$1.25.

Standard Grade (made of soft wood). \$1.

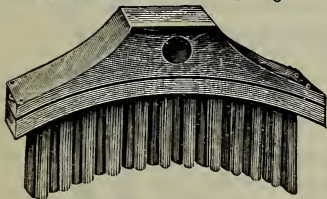
**Torch, Asbestos.** Very useful and simple. The only sure way to get rid of caterpillars' nests on trees.

Small size. 15 cts.  
Large size. 25 cts.

**Tree Brush.** Small size; fine wire



bristles; useful for brushing young trees. \$1.25.



**Tree Brush, Wire.** For older trees; can be used with long handle. Price, complete, \$2.

**Tomato Supports.** See under Supports, p. 150.

**Tree Scraper.** For scraping diseased bark from trees, removing insect eggs, etc. 50 cts.

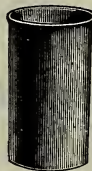
**Tree Tubs, New York Style.** Made of cedar timber, painted green.



No.	Diam.	Height	Each
1	12 ins.	10 <sup>5</sup> / <sub>8</sub> ins.	\$1 35
2	13	12 <sup>3</sup> / <sub>4</sub>	1 75
3	14 <sup>1</sup> / <sub>2</sub>	14 <sup>3</sup> / <sub>4</sub>	2 25
3 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	15 <sup>3</sup> / <sub>4</sub>	2 75
4	19 <sup>1</sup> / <sub>2</sub>	16 <sup>5</sup> / <sub>8</sub>	3 00
5	22 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>2</sub>	3 75

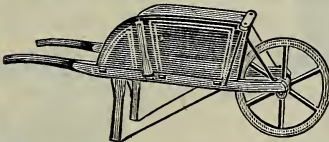
**Twine, Green Smilax.** 2-oz. balls, 50 cts. per lb.

**Florists' Linen, Green or Gray.** 2-oz. reels, \$1.25 per lb.



**Vases, Flower.** Indurated wood fiber; for cut-flowers.

No.	Diam.	Depth	Each
0	8 in.	13 in.	\$0 60
1	5 <sup>1</sup> / <sub>2</sub> in.	10 in.	50
2	4 <sup>1</sup> / <sub>2</sub> in.	9 in.	45
3	4 in.	6 in.	35

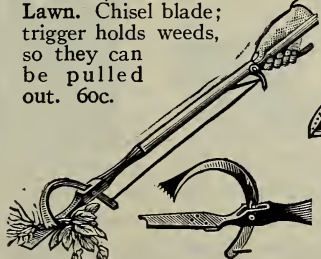


**Wheelbarrow, Thorburn's Garden.** None better made. Iron braced and bolted. Finished in natural wood, red or green. Steel wheel if desired, 50c. ex.

No. 2, Small, \$2.50.  
No. 4, Medium, \$3.50.  
No. 5, Large, \$4.

**Weeders, Cleveland**

**Lawn.** Chisel blade; trigger holds weeds, so they can be pulled out. 60c.



**Excelsior Finger.** Useful for loosening and pulverizing the soil. 10 cts. each, \$1 per doz.



**New Hand.** A small hand hoe; very useful in the flower garden. Blade 1 in. x 3 in. 20 cts.

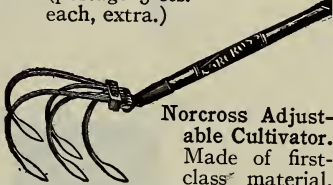


**Lang's Hand.** A strap over the finger keeps the tool in the hand while operator's fingers are left free. 20 cts. each, \$2.25 per doz.

**Eureka Hand.** The prongs of solid forged steel are thin and long; fine for loosening soil. Short handle. 25 cts.



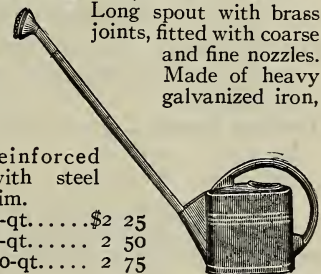
**Magic.** Combined weeder and hoe. Fingers of tempered steel. The hoe is useful in loosening hard ground. 35 cts. (postage 5 cts. each, extra.)



**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. \$1.

**Watering Pot, French Model.** Long spout with brass joints, fitted with coarse and fine nozzles. Made of heavy galvanized iron,

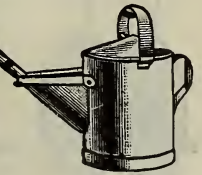
reinforced with steel rim.  
6-qt. .... \$2 25  
8-qt. .... 2 50  
10-qt. .... 2 75  
12-qt. .... 3 00



French

**Watering Pot, The "Philadelphia."** With brass joints and two copper-faced roses.

6-qt. ... \$2 00  
8-qt. ... 2 25  
10-qt. ... 2 50  
12-qt. ... 2 75



Philadelphia

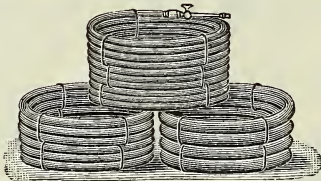
You will have no cutworms in your garden if you use our Cut-worm Preventive. See page 153.

### Flower Pots

Best make. Of sizes 2 to 3 inches 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, height and width, inside	Per doz.	100	1,000
2 inches		\$0 70	\$5 50
2¼ "		75	6 25
2½ "		85	7 50
3 "		1 10	9 75
3½ "	\$0 30	1 50	13 00
4 "	35	1 75	15 00
4½ "	40	2 25	21 00
5 "	50	3 00	28 00
6 "	65	4 25	40 00
7 "	1 00	7 00	
8 "	1 50	9 50	
9 "	2 00	13 50	
10 "	2 50	18 00	
11 "	3 50	25 00	
12 "	4 50	35 00	



### Rubber Hose

(Three-quarter Inch)

**Electric.** Electric Hose can be cut in any length. 20 cts. per ft. For less than 25 feet, add 15 cts. for couplings.

**Thorburn Standard.** 5-ply, 11 cts. per ft.

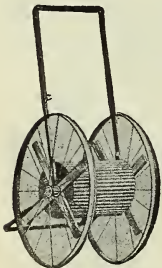
X. 6-ply, 14 cts. per ft.

XX. 7-ply, 16 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 Reels



The Cardington

**Tubular Iron.** Never break or wear out. No. 10 will hold 100 ft., ¾-in. hose, \$3. No. 20 will hold 150 ft., ¾-in. hose, \$3.50. No. 30 will hold 500 ft., ¾-in. hose, \$5.

**The Cardington.** A perfect hose reel, will hold 100 ft., ¾-in. hose, \$2.

**Garden Reels.** Of wrought-iron. Holds 100' ft. 60 cts.

Large Size, \$1.

### Syringes



**No. A.** 1 spray rose and 1 jet. Length of barrel 12 in., diam. 1 in. \$2.50.



**No. G.** 1 spray rose and 1 stream jet, side attachment and elbow-joint for sprinkling under foliage. Length of barrel 16 in., diam. 1½ in. \$5.



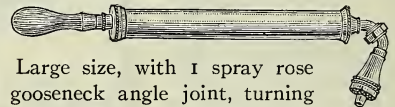
**No. H.** Sheet brass with fixed spray rose; length of barrel 16 in., diam. 1½ in. \$3.



**No. 2.** 1 coarse and 1 fine spray rose and 1 jet, side attachment. \$4.50.



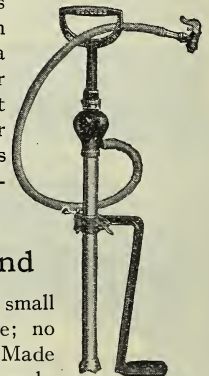
**No. 3.** Large size with 1 stream and 2 spray roses, with side pieces on barrel. Length of barrel, 18 in., diam. 1½ in. \$6.50.



**No. 6.** Large size, with 1 spray rose and gooseneck 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.

### 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 cents extra. This pump is also valuable for washing windows. Price \$3.75.



Bucket Spray Pump

### 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. Tin, 75 cts. each; brass, \$1 each.

### Spray Pump, the "Pomona"

A perfect sprayer. **Outfit C**, with agitator and one lead of 15 feet 1/2-in. discharge hose, with spray nozzle, \$18.75. **Outfit D**, with agitator and two leads of 15 feet each 1/2-in. discharge hose, with spray nozzles. With barrel, \$22.

### Spray Pump, Knapsack

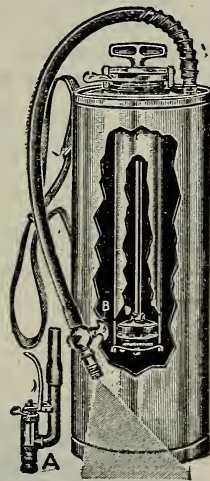
FOR VINEYARD, ORCHARD AND FIELD SERVICE

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.

Price, complete, with 3 1/2 feet of 3/8-inch discharge hose, Vermorel nozzle and lance for degorger, \$13. Special agitator, 75c. extra.

### Spray Pump, "Auto-Spray"

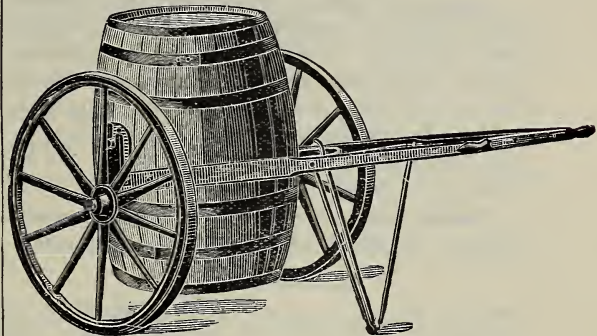
A self-operating sprayer of simple construction, durable, easy to carry and to work. Made of galvanized iron or solid brass, with 4-ply rubber hose. For spraying trees, cleaning windows, etc. A perfect pump. Price, with brass tank and stop-cock nozzle, \$6.75; galvanized iron tank and stop-cock nozzle, \$4.50. Brass extension pipe, 2 feet, 45c. extra. Fitted with "Auto-Pop" nozzle, \$1 extra. "Auto-Pop" nozzle, if sold alone, \$1.50.



"Auto-Spray" Pump

### Spray Pump, the "Fruitall"

Same as Pomona, but smaller. **Outfit C**, Sprayer with agitator and one lead of 15 feet 1/2-in. discharge hose, with spray nozzle. With barrel, \$13.75. **Outfit D**, Sprayer with agitator and two leads, 15 feet each, 1/2-in. discharge hose with spray nozzles, \$17.



### Water Barrel Truck and Barrel

COMBINED 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.

Truck and barrel, 2-inch tire.....	\$11 00
" " " 3 " " .....	12 00
Sprinkler Attachment.....	3 25
Hand-cart box.....	3 00
Leaf-rack.....	5 00
Extra trunnions. Per pair.....	50

*If truck and trunnions are wanted without barrel, deduct \$2.25 from price of truck and barrel.*



Used as a Leaf-Rack



Used as a Hand-Cart

### CUTWORM PREVENTIVE MANUFACTURED EXPRESSLY FOR US

Cutworms will not infest soil mixed with this preparation. Besides acting as a preventive of this pest, it sweetens the soil and has valuable fertilizing properties.

Highly recommended as a top-dressing for lawns, eliminating sorrel and stimulating a healthy growth of the grasses. Full directions on cans.

5-lb. cans - - - - -	\$0 50
10-lb. cans - - - - -	90
In barrels of 250 lbs. at 6 cts. per lb.	

## 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.

Manufactured expressly for us, and is, in every respect, the **BEST LAWN MOWER** ever made.

### NET PRICES

14-inch cut.....	\$8 50
16-inch cut.....	9 50
18-inch cut.....	10 50
20-inch cut.....	11 50



### Grass-Catcher Boxes

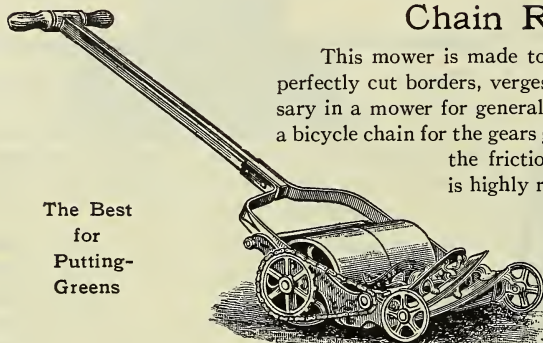
FOR USE WITH ANY LAWN MOWER

To fit 14- and 16-in., \$1.

To fit 18- and 20-inch, \$1.25.

## 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

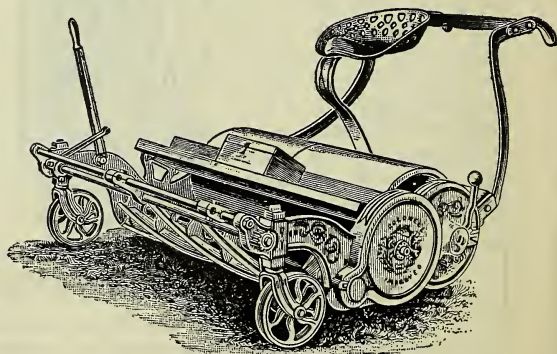
	4 Blades	6 Blades
12-inch cut.....	\$12 00	\$13 00
14-inch cut.....	13 00	14 00
16-inch cut.....	14 00	15 00
18-inch cut.....	16 00	17 00

## Coldwell 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

25-inch cut, no shaft.....	\$38 00
30-inch cut, complete.....	65 00
35-inch cut, complete.....	78 00
40-inch cut, complete.....	95 00

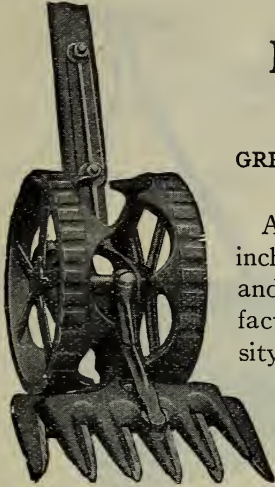


### Horse Boots

PREVENT CUTTING UP THE TURF

Made of very strong, heavy leather, closely riveted. Price, per set of four, \$9.

## Handy Grass Clipper and Lawn Trimmer



GREAT TIME-SAVER. INDISPENSABLE ON EVERY WELL-KEPT LAWN.  
MADE OF BEST MATERIALS THROUGHOUT

An implement designed to fill a long-felt want. It cuts a swath 5 inches wide and will pick the last blade of grass from around trees and shrubbery. Takes the place of the old-fashioned, unsatisfactory hand grass shears and entirely does away with the necessity of kneeling or stooping. It is self-sharpening and requires no attention except occasional oiling and adjusting. Price, \$3 each.

## 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 seed 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.

The cutting action of the discs relieves old sod of root-bound conditions by cultivating around the roots.

Each disc automatically conforms to inequalities in the ground.

The discs do not tear the soil; they cut it.

The operator can drill any amount of seed desired.

The "Velvetlawn" Grass Seeder puts the seed into the soil where the birds, wind and rain cannot get at it.

Every feed is a force feed and sows the same amount.

Each seed-trench contains an equal quantity.

"Velvetlawn" Grass Seeders are equipped with adjustable handle, thus insuring ease of operation for any height of man.

All of the seed being planted at an even depth in the soil, the plants must all come up at the same time, and make uniform growth. Price \$15, net cash.



## Steel Horse Rollers

No.	Length feet	Diam. inches	Sections	Weight pounds	Price
532	6	24	3	485	\$25 00
534	7	24	3	540	27 00
536	8	24	3	585	29 00
539	9	24	3	635	31 50
541	10	24	3	680	36 00

We can furnish Rollers in many sizes and weights, as well as those quoted. We list the above as being the ones most in demand. Prices on other sizes on application.



## Water-Ballast Roller

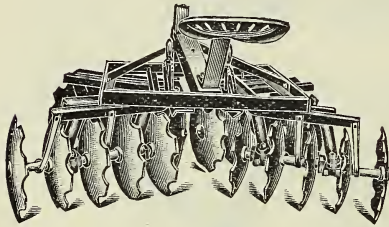
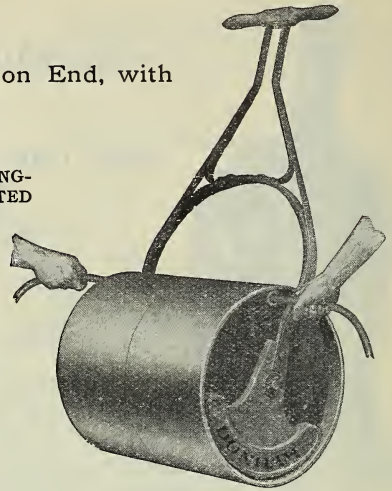
Roller Bearing. Can Be Filled without Turning on End, with  
 Either Water or Sand  
 (Patented)

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, lbs.	Price
WB3	14	20	1	60	200	300	\$9 00
WB5	18	24	1	75	300	500	12 00
WB7	24	24	1	125	500	800	15 00
WB11	18	24	2	100	300	500	16 00
WB13	24	32	2	170	650	1000	22 00

If handle-weight is desired, add \$1.50 to above prices.

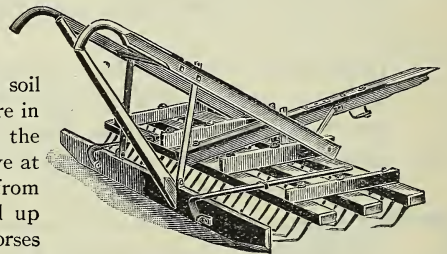


## Clark's A5 Double-Action Cutaway Harrow

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 1 foot. It keeps the surface true and the machine runs  
 true in line or draft. Price, \$32 net, f. o. b. factory (Conn.).

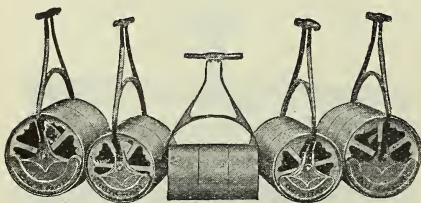
## Cutaway Grading or Smoothing and Leveling Harrow

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  
 the field. For one horse (6 feet wide), \$13.50. For two horses  
 (8 feet wide), \$15.50, f. o. b. factory (Conn.).



## Cast-Iron Hand Lawn Rollers, with Roller Bearings

(Patented)



No.	Diam.	Length	Sections	Weight, lbs.	Net price
No. 401	15	16	2	150	\$8 00
No. 402	15	24	3	200	10 00
No. 404	20	20	2	250	13 00
No. 407	20	24	2	300	15 00
No. 409	24	20	2	400	21 75
No. 411	24	24	3	450	22 00
No. 412	24	30	3	500	24 50
No. 415	28	30	3	600	29 00

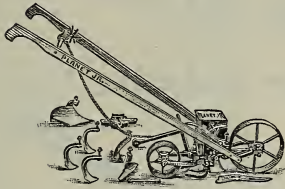
In our list of Horticultural Implements and Garden Requisites, beginning on page  
 147, will be found many things which will add to the pleasure of gardening



# "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. 4 Combined Hill and Drill Seeder, Single Wheel Hoe, Cultivator and Plow



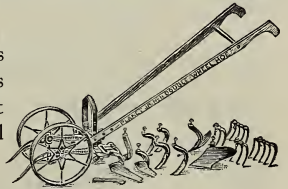
This admirable tool combines in a single convenient implement a capital hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and as a seeder sows in continuous rows or drops in hills at five different distances.

### EQUIPMENT

- |   |               |
|---|---------------|
| 1 pair 4½-inch Hoes   | 1 Garden Plow |
| 3 Cultivator Teeth  | 1 Leaf Guard  |
| Weight complete, 53 lbs. Price, \$11; as a seeder only, \$9 |               |

## "Planet Jr." No. 11 Double Wheel Hoe, Cultivator and Plow

This perfected wheel hoe is invaluable for use in all small crops. Its variety of work is almost incredible. Changes and adjustments of the tools are made with the greatest quickness. It has 11-inch wheels, which can be set at four different distances apart; the frame is steel with ample room for tool adjustment and can be set at three different heights.



### EQUIPMENT

- |                                      |                 |                 |
|--------------------------------------|-----------------|-----------------|
| 1 pair 6-inch Hoes, Oil-tempered     | 1 pair Plows    | 2 5-tooth Rakes |
| 1 pair 4½-inch Hoes, Oil-tempered    | 2 3-tooth Rakes | 2 Leaf Lifters  |
| 2 pair Hollow Steel Cultivator Teeth |                 |                 |
| Weight, 37 lbs.                      |                 | Price, \$9      |

## No. 12. Double Wheel Hoe, Cultivator and Plow

Identical with No. 11 Wheel Hoe, except fewer attachments

### EQUIPMENT

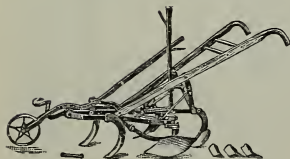
- |                                      |                     |
|--------------------------------------|---------------------|
| 1 pair 6-inch Hoes                   | 1 pair Plows        |
| 2 pair Hollow Steel Cultivator Teeth | 1 pair Leaf Lifters |
| Weight, 37 lbs.                      | Price, \$7          |

## No. 13. Double Wheel Hoe

Same as No. 12, but Hoe only

Weight, 20 lbs. Price, \$4.75

## "Planet Jr." No. 8 Horse Hoe and Cultivator

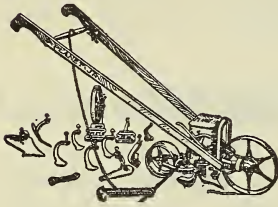


Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle. The frame is extra long and extra high, making a tool that will not clog easily.

### EQUIPMENT

- |                 |             |   |
|-----------------|-------------|---|
| 4 3-inch Plates | 2 Side Hoes | 1 7-inch Shovel                                     |
| 1 4-inch Plate  |             |   |
| Weight, 82 lbs. |             | Price, \$9; without depth-regulator (No. 7), \$8.50 |

**“Planet Jr.” No. 25 Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow**



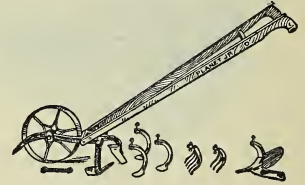
This combined machine is intended for a class of gardeners who have a large enough acreage in crops for a double wheel hoe to be used to good advantage, and yet prefer not to buy a separate wheel hoe. It is large enough for field use, for it holds two and one-half quarts.

**EQUIPMENT**

- |                         |                |
|-------------------------|----------------|
| 1 pair 6-inch Hoes      | 2 Plows        |
| 2 pair Cultivator Teeth | 2 Leaf Guards  |
| Weight, 64 lbs.         | Price, \$13.50 |

**“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, \$5.85       |

**“Planet Jr.” No. 17 Single Wheel Hoe**

- |                    |                          |               |
|--------------------|--------------------------|---------------|
| 2 pair 6-inch Hoes | 3 Steel Cultivator Teeth | 1 Leaf Lifter |
|                    | Weight, 22 lbs.          | Price, \$5    |

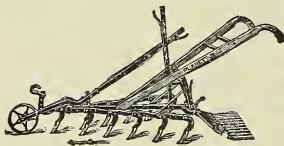
**“Planet Jr.” No. 18 Single Wheel Hoe**

Equipped with Hoes only. Weight, 19 lbs. Price, \$3.50

The No. 17 and 18 are like the No. 16, but have fewer attachments.

**“Plant Jr.” Twelve-Tooth Harrow Cultivator and Pulverizer**

This tool has rapidly grown into favor with farmers, market-gardeners and strawberry-growers. It has a high frame and chisel-shape teeth. The foot-lever pulverizer is a capital addition for preparing ground for the seed drill or for plant setting. Hand levers regulate both width and depth, while in motion; it contracts to 12 inches and expands to 32 inches.



Weight, complete, 73 lbs. Price, \$9, complete; with lever wheel only, \$7.40; without wheel or pulverizer, \$6.20

**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 seed for one acre. Prepared for the following crops:

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

Price per acre bottle, \$2; per five-acre bottle, \$9. State for what crop Farmogerm is wanted, when ordering.

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



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# 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
<b>SOW IN HOTBED</b> Early Beans Broccoli Early Cabbage Forcing Carrot Early Celery Cucumber Eggplant Early Lettuce Parsley Pepper Radish Tomato	<b>SOW IN HOTBED</b> Early Beans Early Beets Brussels Sprouts Early Cabbage Forcing Carrot Cauliflower Celery Eggplant Kohlrabi Lettuce Parsley Pepper Radish Tomato	<b>SOW IN HOTBED</b> Cucumber Eggplant Melon Pepper Tomato	<b>IN OPEN GROUND</b> Artichoke Asparagus Beans, Bush and Running Beets Brussels Sprouts Carrot Cauliflower Celery Sweet Corn Cress Cucumber Kohlrabi Lettuce Melon Onion Parsley Parsnip Peas Potatoes Raidish Spinach Early Turnip All Herbs	<b>IN OPEN GROUND</b> Beans, Lima and all other sorts Beets Broccoli Brussels Sprouts Late Cabbage Carrot Cauliflower Sweet Corn Cress Cucumber Endive Kale Kohlrabi Lettuce Melon Nasturtium Okra Early Peas Potatoes Pumpkin Radish Spinach Squash Herbs	<b>IN OPEN GROUND</b> Beans Beets Carrot Sweet Corn Corn Salad Cress Cucumber Endive Kohlrabi Kale Cherkin Cucumber Endive Early Peas Radish Spinach Turnip	<b>IN OPEN GROUND</b> Beans, Bush Tuberous Chervil Corn Salad Cucumber Endive Lettuce Welsh Onion Early Peas Radish Spinach Turnip	<b>IN OPEN GROUND</b> Cabbage for cold-frames Cauliflower for coldframes Tuberous Chervil Corn Salad Cress Siberian Kale Lettuce Mustard Winter Radish Spinach Turnip Sweet Peas
<b>Extra-Early</b>	<b>IN OPEN GROUND</b> Beans, B. Wind-sor						
<b>Nordheim</b>							
<b>Sweet Corn</b>							
<b>Earliest of all</b>							
<b>Very productive</b>							
<b>Finest quality</b>							

J. M. THORBURN & CO., SEEDSMEN, NEW YORK

33 BARCLAY STREET THROUGH TO 38 PARK PLACE

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**THORBURN**  
**GILT-EDGE**  
**CAULIFLOWER**  
**LARGEST**

**SUREST AND**  
**BEST OF ALL**

**Upright Sweet**  
**Salad Pepper**  
**Noroton**  
**White Spine**  
**Cucumber**

**Enkhuizen**  
**Glory Cabbage**

# *Thorburn's Seeds*

FOR FARM & GARDEN

HAVE BEEN RENOWNED FOR  
THEIR UNIFORM PURITY AND  
FERTILITY EVER SINCE THOMAS  
JEFFERSON WAS PRESIDENT.

1913

J. M. THORBURN & CO.,  
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